

# Scope

W6NWG

## Palomar Amateur Radio Club Inc.

Post Office Box 73, Vista, California 92085-0073



JANUARY \*\*\*\*\* 1995 \*\* 59 YEARS OLD

Volume XXI Number 1

Published monthly by PARC, an ARRL Special Service Club. Membership \$12 including \$3 for SCOPE. Outside SDC \$4. Coffee 7pm, Mtg. 7:30pm @ Carlsbad Safety Center (CSC), Palomar Airport Rd. to N. on Camino Real (S11), east on Faraday .25 mi, left to CSC, TB 14F6.

Talk-in on 146.73

\*\*\*\*\*

OPEN REPEATERS / CLOSED AUTOPATCHES

PARC PALOMAR MT. REPEATERS (W6NWG):

PARC W6NWG Trustee: Ron-WI6B

Autopatches(4): 146.73-, 147.075+\*

147.13+\*, 449.425-\*

PALBBS: 145.070 (W6NWG-3) SYSOP KE6CDH

PACKET: 145.05s; 70cm MET; RTTY: 146.7-\*

SIMPLEX: 145.350s, 145.520s, 446s

ATV: 1241.25T(out)/919.250R(in) (AM)

ATV Int-Com 146.43s PL79.7Hz, (915 FM)

COVERING 2000 SQ-MI OF SDCo.

OTHER: 224.380-\*KK6KD; 224.9-\*WD6HFR

146.175+\*WA6IPD; \* = 107.2Hz

\*\*\*\*\* C A L E N D A R \*\*\*\*\*

Jan 4 Wed. CLUB MEETING - 1995 -

Jan 7 Sat 7th ARRL RTTY Roundup

Jan 9 Mon ADVANCED CLASS LICENSE

course by Bill-KB6MCU at CSC.

Jan 12 Thu. PARC 7pm Board Meeting

Jan 14 Sat. PARC VE Tests Carlsbad SC

Jan 21-23 48th ARRL VHF Sweepstakes

Jan 23 Fri. Deadline 4-SCOPE articles

Jan 27 Tue. SCOPE mailed at Vista PO

Feb 1 Wed PARC starts \*\*59th\*\* year

Feb 18-19 ARRL Internat. DX Contest

\*\*\*\*\*

NEXT MEETING - VPres. W6GIC

\*\*\*\*\*

PLEASE COME EARLY and help set

up chairs.

Sybil Allbright, W6GIC, has announced that the January club meeting will be John Proctor, KC7GNI. John and his photographer, Rick

Rossler (from King Schools here in SD), and their guide, Viktor Smolin flew across Russia just before the political coup that broke up the Soviet Union. The plane was a Cessna 185, and it was the first crossing of Russia since the Lindberghs' expeditions of 1937. The trip is captured in the book, "Viktor, Vodka, and Raw Fish", by John, as well as in a video tape. John will speak about "The People of Siberia".

(S)HOW & (T)ELL: See Sybil-W6GIC B4 meeting to reserve time.

\*\*\*\*\*

H A M C L A S S E S KB6MCU

\*\*\*\*\*

Ham Radio License classes for the new year are as follows:

ADVANCED: Jan. 9, 16, 23, 30

Feb. 6, 13, 20, 27

NOVICE/TECH Apr. 3, 10, 17, 24

May. 1, 8, 15, 22, 29

Jun. 5, 12, 19

GENERAL Sep. 11, 18, 25

Oct. 2, 9, 16, 23, 30

Classes are held at the Carlsbad Safety Center in Carlsbad. Contact Bill-KB6MCU at 582-2313 or Sybil-W6GIC at 278-4284 for the latest information. =SK=

\*\*\*\*\*

KE6CDH - P A L B B S - W9FQN

\*\*\*\*\*

John-KE6CDH (SYSOP) 630-5289

On December 4th a meeting was held to discuss PARC's digital effort and PALBBS. This was not a Technical Committee meeting which is scheduled for February. This group was composed of John-WB6IQS, Paul-KB6MU, Art-KC6UQH, Ted-KD6AKT, John-KE6CDH, and Norbert-KJ6ZD (others were invited). They decided to recommend to PARC's board the

following:

- 1) Spend <\$40 for Buckmaster master call book disk.
  - 2) Change the operating system chip of the 145.05 NODE to THE NET ROM which is the same as ESCN. This will give more exposure of PARC's name and allow you to measure UR packet xmtr deviation. (\$50).
  - 3) Investigate using 223.54 for pkt linking of msg forwarding.
  - 4) Spending < \$650 for club computer to be used in the project.
  - 5) Replace borrowed items (KE6CDH) with club equipment.
  - 6) Stages of changing 146.7 from RTTY over to Pkt. Pkt testing to start on limited basis in Dec.
  - 7) Increase number of sections on PALBBS to include information on PARC and its activities as well as local SDCo items.
- Item #2 was previously approved by the Board but was reaffirmed at this committee meeting.
- Item #3 was a suggestion for linking to the State and National forwarding system and we will be contacting Bill-KB6MCU about availability of equipment (Bill-KB6MCU & Sybil-W6GIC gave us two transceivers). Bill is presently working on a new repeater for the 220 Club of San Diego to replace their "monster" rack in PARC's block building.
- In item #6 the test period will start in December and last until the middle part of January. We will operate the 146.7 repeater running the packets so that what goes in comes out just as if your rig were sitting on top of Palomar Mountain. After the test period we will install a TNC at 1200bps,

(Cont. Pg. 9)

- DEC BOARD MEETING -

BOARD: KC6UQH W6GIC KC6YSO \*KM6WG WB6IQS W9FQN KC6WAN \*AB6QT WB6PKK (\*ABSENT).

OTHERS: W6HCD KB6MCU KM6WF.

Goodies were furnished by Art's wife, JoAnn, and were enjoyed by all. Club members are invited to attend Board meetings to observe the Board of Directors in action ..or non-action ..and receive one activity pt. for attending.

- SECONDS -

DISCUSSED: EquipBal \$2955, PrePd \$3471, Gen Purpose \$5677; TOTAL \$12,000; Control Ops responsibilities meeting; Club History summary by K6HAV & KI6JM Nomination amendment to bylaws; Sybil's list of 21 '95 programs; Ham instruction by KB6MCU; Trailer improvement; PALBBS progress; 816 members; Field Day

APPROVED: Selling PARC's maritime fleet for \$25 (better than nothing). WB6PKK to change W6NWG-1 (PALMAR) chip and add dev board; Concept of 6m Rpt and Army MARS digipeater at site; \$1 for non-commercial use of club's roster on disk; \$650 for PALBBS project;

Meeting started at 7pm and ended at 10:42pm.

Contact board member 4-info or C Sec. 4-minutes.

\*\*\*\*\*

LAST MEETING

\*\*\*\*\*

M=Members G=Guests T=Total

	Dec	Nov	Oct	Sep	Aug	Jul	Jun	May
M=	111	100	125	113	112	98	94	?
G=	14	8	17	15	11	11	13	?
T=	125	108	142	128	123	109	107	125

(Bring or invite a friend)

SHOW & TELL featured David-KC6YSO with 6m J-poles, Joe-N6YPC with a quadrifilar antenna, Art-KC6UQH with a helical antenna for ATV, and Brian-KF6C with the possible offer of computer controlled ham transceivers for all stations at Field Day as a test of the products which he produces.

Thanks to everyone who participated in the SHOW & TELL for the December meeting.

ART-KB6YHZ & Anita-KB6YHY made the coffee and Jack-KI6JM's YL, Audrey, assisted supervising the

drink and goodies ..and members bringing goodies: Art-KB6YHZ Anita-KB6YHY Larry-WA6UTQ Duane-AA6EE Paul-N6ISC Bill-KM6PY Jack-KI6JM George-K6Y6K John-WB6IQS J-KD6PBH & Norm-N6QQF

Goodies were great & U were rewarded with "1" participation ticket.

\*\*\* E L M E R S \*\*\* (call for info) CARDIFF . . Duane-WB6R 753.4821 CHULA VISTA Steve-N6RUV 422.4415 La MESA . . Roger-N6UUV 697.6025 LAKESIDE . . Mac-WB6GX 561.2211 RAMONA . . Vern-AA6UU 789.3070 SAN DIEGO . . Dennis-N6KI 271.6079 SAN MARCO\$ . . Ralph-KC6WAN,727.7415 SAN MARCOS . . Rusty-AA6OM 747.5872 VISTA . . Jack-KI6JM 598.0420 Prospective amateurs ONLY can call 1-800-32-NEW-HAM @ the ARRL Hdq 8am-5pm ET M-F for Ham Info.

=SK=

\*\*\*\*\*

W O R K P A R T I E S W9FQN

\*\*\*\*\*

Club members who have worked at the PARC repeater site are cautioned NOT TO VISIT THE SITE ON YOUR OWN since it causes PARC problems when you set off the intrusion alarms on the property which are in addition to the individual building alarms.

PARC then needs to investigate the reason for the alarms and to reset them. If you want to visit, check with Stan-W9FQN first so that you can either take items to the site or check on items at the site for us. Stan will turn off the alarms during the time you are at the site.

We had to send two different intrusion groups to the site on 11-27-94 because a club member, a girl friend, and a dog were at the site unannounced.

This is the last of the workparties listed for the year 1994. Thanks everyone!

(11-..)#47: Jo-KB6NMK and Gail-KM6WF in late November took care of an SK estate.

(12-03)#48: John-WB6IQS, Jerry-WB6FMT, and Stan-W9FQN moved the VSTA #1 autopatch equipment to John's QTH where the path to

Palomar Mountain is much better. Jerry moved the equipment and antennas while Stan and John installed a 30' mast next to John's garage where the new autopatch connection has been made. Testing indicates a solid path to John's QTH.

(12-04)#49: John-KE6CDH, John-WB6IQS, Paul-KB5MU, Art-KC6UWH, Norbert-KJ6ZD, and Stan-W9FQN met at IQS's QTH to discuss the direction of the club's digital effort and to make additions to PALBBS. Recommendations will be made to the PARC board at their December meeting.

(12-??)Dave-KD6EBY has been checking the 14 batteries to see that they are charging properly and have the proper liquid levels. Checks were made on:

10-11 10-13 10-14 10-20 11-05 11-22 12-04 12-07 =SK=

\*\*\*\*\*

KI6JM/K6HAV - A G O G O - W9FQN

\*\*\*\*\*

(1-94)(1yr) ..officers Harry-WA6Y00 (Pres), Art-KC6UQH (VP), Nash-W6HCD (Sec), Jennifer-KM6WG (Treas), John-WB6IQS (TechCh), Stan-W9FQN (SCOPE), Ralph-KC6WAN (Membership), Mike-AB6LY, & Rick-KC6LV (Board) ..ATV project announced ..attendance at Dec meeting 113 ..146.7 new RTTY repeater ..started rptr site gnd system ..advertisers: HRO, PALOMAR ENGINEERS, NU6L, W9WV, WB9COY, W7HKI, KM6WG, CLARA ZIEGLER, N6GZI, KD6MKH, and KD6HPQ. ..SCOPE 12 pages.

(1-90)(5yrs) ..officers Stan-W9FQN (Pres), Jack-KI6JM (VP), Nash-W6HCD (Sec), Ron-WI6B (Treas) ..SCOPE Editor Ralph-K6HAV ..OT's Bill Jago-K7MO, and Earl Leak-K6CLU, were in attendance at Dec meeting with 63 present ..WA6IPD repeater on 146.175- just established in Fallbrook ..another SCOPE artical on computers by Chuck-KI6TG ..advertisers: HRO, PALOMAR ENGINEERS, N6GZI, & N6RAO ..SCOPE 8 pages. =SK=



# HAM RADIO OUTLET

"LARGEST HAM OUTLET IN THE WORLD"  
ALL MAJOR BRANDS IN STOCK NOW!

163 Clairemont Mesa Blvd  
163 HRO

**rtconcept**

**DIAMOND ANTENNA**

**US TOWER**

**HUSTLER**  
**ICOM**

**K&Kantronics**

**KENWOOD**

**YAESU**

**BENCHER, INC.** **Astron**

**MFJ**

**AMERITRON**



**TOT TEN-TEC**

**Cushcraft CORPORATION**  
**OUTBACKER**

**hy-gain**

**Tri-Ex**

**Larsen Antennas**

Open: 10a.m. - 5:30p.m.  
Monday thru Saturday

560-4900  
or toll free 1-800-854-6046

**5375 KEARNY VILLA ROAD, SAN DIEGO**

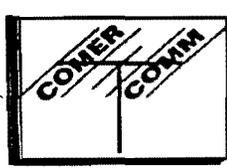
# RADWARE

## OPEN HOUSE

From December 7th 1994 to January 20th 1995, we will hold an Open House most weekday evenings from 6 PM to 10 PM to allow Hams and short-wave listeners to play with a complete operating RADWARE system. We will have the RADWARE card operating a 486 computer with local bus video. A prototype transmitter amplifier will drive an FL2000B linear amplifier. The antenna is a Cushcraft R7 mounted on the roof of the building in a clear industrial area. Please call beforehand so that we are sure to be open on the evening you would like to attend.

The RADWARE BBS is now up and running call 599 0185 for free RADWARE Demo programs and other info.

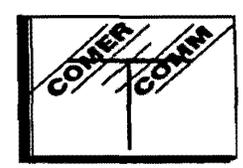
PS. We have a surplus of leaded parts that will be on sale during the open night's.



**COMER COMMUNICATIONS, INC.**

2598 Fortune Way - Suite I  
Vista, CA 92083

(619) 599-0476



\*\*\*\*\*  
PRESIDENT's WAVELENGTH KC6UQH  
\*\*\*\*\*

Our Elections are behind us, our new Board of Directors are installed and now the Board must devote their time to the running of one of the largest Amateur Radio Clubs in the nation.

One of the main contributions to our present membership of 822 members has been the development of a county wide Auto-Patch system serving our four voice repeaters. It took Stan Rohrer, W9FQN several years to overcome the objections that other board members had to installing the Auto-Patch System. Stan found the call blockers that prevented toll calls from being made and chose the areas of the county where the radio links were installed to give us toll free service to 99% of the county.

Jerry Houser, WB6FMT, and Stan talked over various design objectives and circuits. Jerry did the actual design of both the first and second generation Auto-Patch systems, did most of the construction along with assistance from Stan and John Kuivinen, WB6IQS. The first system performed flawlessly for two years and was replaced last Spring with an improved version which automatically removes the time out timer for 911 calls and provides a busy signal (came from one of Jerry's kids' toys) when the patch is in use on another repeater. The second design also contained improved Control Operator access and control. I can not emphasize the effort enough. Besides a repeater cabinet on the mountain stuffed with electronics, there are also three repeater cabinets, equally stuffed (one at each phone site, Vista, Mira Mesa, and La Mesa) to make our system work.

Besides the above mentioned hardware Jerry also constructed a test set for the individual circuit cards, built spare cards to keep the system up during maintenance and constructed a recording monitor with a "time stamp". Stan set up a

computer monitoring station and wrote its operational program in BASIC.

John did the etched circuit board design and made the boards. Jerry stuffed and soldered the boards. Jerry wired and tested each unit and the test box. John modified the radios for the link frequencies and Orlando Vernacchia, N6QVW, did the machine work to modify the Government surplus cavities for the link radios.

We have a unique system that allows us three separate phone lines to access in three different parts of the county. All of our links have battery backup making our system least vulnerable to total failure in the event of a major disaster. This system was done using as much donated equipment as possible and close to 1000 man-hours of donated labor to place this system in operation. Congratulations on a job well done. If you have an opportunity please pass along your personal thank-you for the efforts these members have contributed to our Club.

73, and Happy New Year,  
Art, KC6UQH

\*\*\*\*\*  
MEMBERSHIP KC6WAN  
\*\*\*\*\*

NEW CLUB MEMBERS wanting confirmation of their membership and/or an autopatch information sheet and/or FCC 610 form should send to me at the club's address a (S)elf-(A)ddressed (S)tamped (E)nvelope (SASE) requesting same or see me at the next meeting.

The Board has authorized me to sell members for non-commercial use a disk with membership information. The disk sells for \$1 and I will provide free updates with a return of the ORIGINAL disk bought from me. A short program will be on the disk allowing you to access the information.

- 5yrs= Paul-W6BRF
  - 3yrs= Marcella-Assoc Ruf-KR6K
  - 2yrs= Ray-KE6CX0
  - 1yr= Don-WA6JXE Harry-KE6CX0
- John-KD6EKQ Dick-KJ6SN Bob-W6PVT  
Ken-KE6OHV Wallace-KE6MRW Philip-

KE6OAY James-KE6KTE Harry-KE6NQ0  
John-N6MAE Virtis-KE6IQQ Cathy-KE6IQU Bob-KE6MTT

UPGRADES: Paul Christensen-WA6TIL to General.

If U didn't C UR name/call here but received UR SCOPE, then U R A MEMBER!

73, Ralph 727-7415  
\*\*\*\*\*

V E T E S T I N G AA6OM  
\*\*\*\*\*

NOV.12: 8 2Bs, 10e1 & 8Pass.

NOVICE/TECH=>TECH+: KE6NA0, KE6NAM, & KB6WYG.

NONE->TECH: Galen Manners & Jeffrey Shoaf.

OTHER: Aura Vargas (3B).

VETEAM: KB5MU AC6FM KI6JM AA6OM  
WA6HYC WB6R KE6VX.

DEC.10: 13 2Bs, 17e1 & 13Pass.

ADV->EXTRA: KC6ZLX

NONE->TECH: Tom Bearman, Barry Canter, Tom Sullivan, Keigh Beier & Dan Roslund.

OTHER: Thanh Dinh (2), Barb Johnson (3B), & Dennis Johnson (3B).

VETEAM: WA6HYC KM6SN KE6VX W6TFB  
KI6JM AA6OM.

73, Rusty-AA6OM  
\*\*\*\*\*

- P A C K E T 1 4 6 . 7 -  
\*\*\*\*\*

During the past 4-5 months PARC has been looking at the possibility of converting the RTTY repeater on 146.7 over to a packet repeater using the same input of 146.1MHz and an output of 146.7MHz. Permission has been obtained from all coordination organizations.

The repeater was not being used very much for RTTY except in connection with the evening SDCTN traffic net on 146.730. The Board has given the RTTY message handlers, who sometimes have to handle 30-60 messages, permission to run RTTY on 146.73 during the evening SDCTN net from 8-9pm. Old Timers will remember that PARC used to permit RTTY on 73 Sunday evenings after 9pm.

John-WB6IQS has converted the RTTY regenerator over to the packet audio frequencies and he has set up the repeater for a test period on

**Jennifer A. Thieme**  
**KM6WG**

**Bookkeeper**  
**Accountant**

**(619) 599-1134**  
 770 Sycamore Ave. #J-126  
 Vista, California 92083

**Need a new QTH**  
 or  
 want to sell yours?

**Call Clara Ziegler**  
**943-8366**  
 to be your agent for  
 north county coastal  
 properties

**COLDWELL BANKER** **R REALTOR**

**Expect the best**

**Pete W3ARU's XYL**

**Printed Circuit**  
**Board Design**

**J.T. (Tim) Low**  
**N6ZUC**

**Phone or Fax**  
**(619)735-9125**

**2946 Amanecer Place**  
**Escondido, CA 92027**

\*\*\*\*\*  
 WB6IQS - REPEATERS - W9FQN  
 \*\*\*\*\*

The MORNING COMMUTE group on 146.730 who experience "REPEATER PROBLEMS" should check the frequencies of 146.125, 146.130, and 146.135. Quite possibly you have a "friend" and the REPEATER is not your problem!

The MORNING COMMUTE and sometimes the EVENING COMMUTE group on 146.730 are sometimes heard saying:

THE TIME OUT TIMER IS OFF  
 I DON'T HEAR A BEEP THIS MORNING  
 OH, THE BEEP IS BACK  
 SOMEONE IS INTERFERRING WITH YOU  
 SOMEONE IS PLAYING GAMES!  
 THE REPEATER IS HAVING PROBLEMS THIS MORNING.  
 THE REPEATER SEEMS INSENSITIVE THIS MORNING.  
 (ok if its raining/snowing)  
 IT's PROBABLY THE REPEATER UP NORTH (tell us how)  
 THERE IS A LOT OF INTERMOD ON THE REPEATER (No, its UR receiver)

Some poeple enjoy FEEDING THE MONKIES! The more you comment the more someone is "rewarded" for interferring with you. Why is the repeater "insensitive" only during "your" commute time and great the rest of the day?

If there is no BEEP, it means that possibly a control operator has TURNED OFF the timeout timer so that "our friend" can't time out the repeater. Your "friend" can also make the repeater seem "insensitive."

The 146.730 repeater always "tests good" for sensitivity and functions "normally" during the rest of the day when users do not use the above words! The same person is probably on the EARS 146.880 repeater from time to time doing exactly the same things.

Contact WB6IQS or W9FQN for further information on "your" problems. =SK=

\*\*\*\*\*  
 WB6FMT AUTOPATCHES W9FQN  
 \*\*\*\*\*

from Jerry-WB6FMT's QTH to John-WB6IQS's QTH where signal levels are much higher. During bad weather the #1 patch was subject to fades and Navy radar pulses and we hope the move will improve reliability.

During the 3-4hour move our computer logging system recorded only one member trying to make repeated calls to his home phone. Remember, if you don't get a dial tone, it does no good to dial the rest of the number. =SK=

Recently we have noted an apparent problem. Someone dials the access code and does not find a dial tone but a phone "off the hook" sound. We think that someone before you (or you) tried to use the autopatch and used a VERY SHORT "#" to terminate the patch resulting in a "turn-off" of the sytem on the hill but not long enough to "turn-off" the area connection to the phone line which then must go thru a three minute "time-out" cycle before re-setting. This could give an "off-the-hook" signal from the phone company.

RULE: MAKE SURE YOUR "#" IS AT LEAST ONE SECOND LONG WHEN TERMINATING A PATCH.

Two members are trying to CLOSE the patch with a "!!" =SK=

Recently several 911 calls through the autopatch have experienced problems:

1)Audio has been very low to the point of the mobile not being able to understand what the operator is saying. All indications are that the autopatch is only repeating the levels which it receives. We have had several reports of 911 Land Line (LL) calls experiencing the SAME problems. For example it was observed on a recent LL that the Sheriff's department audio was normal (ok) but that the transferred call to the Rancho Fire (Vista) was at very low level. We suggest you pull off the road to cut down on road noises or enlist the aid of a base station.

2)Several 911 autopatches have been DROPPED but at least on one occasion it ocured when they were switching from one area of

responsibility to another (ie, SD Police to Sheriff or Police to Fire, etc). This could give a disconnect and you should be able to dial 911 immediately to reconnect. Turn off the patch. Use a longer "##" than normal. Immediately dial your access code plus 911 again and indicate you were disconnected.

If anyone is having problems with any of the autopatches, please contact W9FQN at 749-0276 so that we can get your problems solved. Please be prepared to indicate the time and day that your patch failed along with the number you were attempting to dial. Our GIANT COMPUTER records every digit dialed. =SK=

The GIANT COMPUTER monitoring all calls has finally picked up a former member using the autopatch after his dues have expired. It prints on the screen: EXPIRED! It won't be long until the computer automatically issues a "###" (which cannot be heard) to terminate the patch. =SK=

It has come to our attention that cellular prefixes or pagers (ie 855, 899) are not listed in the phone book. If anyone can get a list of these for us (or give us your cell prefix) and explain their operation and/or where their local office is located, please contact Stan-W9FQN.

Each autopatch (VSTA, MMSA, & LMSA) was programmed from the telephone book which evidently does not list CELL PHONE prefixes. Only phone book listings were programmed into the prefix protectors so if you have a cell phone or need to call a cell phone, you are probably going to be "rejected" by the protector.

It is our understanding that there is a standard toll to some cells (depending upon the location of the patch) but the "air time" is charged to the cell phone so PARC needs to know which patch is closest to the cell site if we decide to include their numbers in the system. =SK=

Sometimes PARC almost seems

parinoid about the way things are to be done in the use of their repeaters and autopatches but it needs to be remembered that the trustee of all of our radio equipment, repeaters and autopatches, is responsible for the proper operation and use of all equipment by him or by his appointed representatives (control operators and board members). Our exposure is great with such a large amount of equipment. There are many areas in which we can get into trouble with the FCC and PARC always attempts to impose club rules stronger than the FCC rules so that if anyone strays from the PARC rules slightly that they will probably still be within the FCC rules as put forth in part 97.

The FCC says, for example, that you can order piza over the autopatch. PARC says NO and will remove several sets of telephone numbers that YOU USE from the master computer to emphasize the point.

PARC does not like to have you call-

- 1)answering machines with music.
- 2)places of business with Co.Name.
- 3)answering machines and then you "TT" for messages left by others.

There are exceptions to the above and if you have questions on how you can do some of the above without getting into trouble with PARC, contact W9FQN or any club board member. =SK=

\*\*\*\*\*

- NEWS -

\*\*\*\*\*

Contributions by the 20th)

\*\*\*\*A Ham has troubles seeing at night and would like to come to PARC meetings. If anyone is driving near Pomelo Dr. in Vista, please contact Paul at 726-5007.

\*\*\*\*Dan & Amy, who used to be on our repeaters a lot, got married before they left for Denver. Amy lived in Escondido and Dan in SD. They are now NOXWB and NOXWC respectively and can be reached at NOXWB @ KAOWIN.#SECO.CO.USA.NA. in Denver. They were here for Christmas vacation with family. Amy

is teaching a bilingual kinder class. =SK=

\*\*\*\*John-KD6TLF now has his 1-watt FM ATV transmitter up and running on 915.0MHz with an 18 loop yagie pointed at Palomar Mountain. He reports sending and receiving P5 pictures. =SK=

\*\*\*\*Joe-KC6QXU again took 1st place in 6-land in the 10m SSB contest that was in August for the 10-10 international. Joe is glad to help anyone get started in 10-10. =SK=

\*\*\*\*Sybil-W6GIC was elected secretary of TASMA and we wish her the best of luck in working with TASMA which coordinates all(?) two meter frequencies. =SK=

\*\*\*\*Valley Center now has a EVAC WING at the Blackington air strip. Jack-KE6BWM and Joe-KC6QXU are working with this new wing. (UR editor only knows 8-9 hams in Valley Center but Bill-KB6MCU printed out a list of 53 hams in VC. Just goes to show you that you don't know what goes on behind closed doors!) =SK=

\*\*\*\*Need an RF-proof telephone? FCC advises the following phones are gud: Western Electric/ATT Desk Model de Pro Distributors of Lubbock, TX and the TPXL-D Desk Model from TCE Laboratories, Inc. of Canyon Lake, TX. -de AA6EE.

\*\*\*\*Does anyone know anything about the shareware HAMCOM30 which allows you to send AMTOR, RTTY, CW, etc from your HF rig? If so, how about writing a review of it for the SCOPE? =SK=

\*\*\*\*USED STAMPS NEEDED:DAVer Bernie Elmore and the Senior Citizens Volunteers of the Buffalo, N.Y. Chapter American Lung Assoc. collect and donate cancelled postage stamps to the VA Hospitals in Buffalo, Washington, D.D., and over the nation. At present 90% of the stamps go to the Veterans Stamp and Coin Club in Tucson, AZ. =SK=

Individuals are asked to send stamps to: Stamps for Veterans, c/o Bernie Elmore, P.O.Box 398, Depew, N.Y., 14043-0398 (DXers have lots of "pretty" stamps -Ed). de WA6Y00.



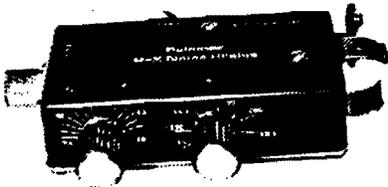
If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate!



Radio systems installation, repair and removal, and interference resolution.

**Edward Ross, N6GZI**  
**Antenna** 542-1405  
**Specialties**

## R-X Noise Bridge



- Learn the truth about your antenna.
- Find its resonant frequency.
- Adjust it to your operating frequency quickly and easily.

If there is one place in your station where you cannot risk uncertain results it is in your antenna.

The price is \$79.95 in the U.S. and Canada. Add \$4.00 shipping/handling. California residents add sales tax.



Send for FREE catalog describing the R-X Noise Bridge and our complete line of SWR Meters, Preamplifiers, Toroids, Baluns, VLF Converters, and Loop Antennas.

**PALOMAR ENGINEERS**

Box 455, Escondido, CA 92025  
 Phone: (619) 747-3343



\*\*\*\*\*  
**FORESAIL**  
 \*\*\*\*\*

Give me a "HI" Wave!

Ph/send ads 2 W9FQN (C Ed's addr) B4 20th of mo. w/ur NAME, CALL, Ph #, & CITY. Personal ads FREE 2 members. Others cost 25c/col. line (35spaces). =SK=

\*\*\*\*\* N E W A D S \*\*\*\*\*

(12-21)Tektronix Mod-575 transistor curve tracer \$100; HP Mod 170B dual trace, dual time base oscilloscope \$100 or best offer; scope card hvy duty \$25; Jack KI6RF 222 4209 after 6pm SD.

(12-20)Kenwood R-1000 Receiver \$300; Astron RS-35A Pwr supply \$130; Duane AA6EE 789 3674 Ramona.

(12-17)RS-232 programmable data terminals, lea C-ITOH CIT 101 & lea CIT 101E models, can emulate several common makes of data terminals w/man \$25ea; PARC John WB6IQS 727 3876 Vista.

(12-17)KLM KT-34 4el tri-band ant, 3 active el on 20 and 4 on 10/15, make offer: PARC John WB6IQS 727 3876 Vista.

(12-17)C-ITOH FX-86e as is for parts, head and P.S. seem OK but no print, take it away please: John WB6IQS 727 3876 Vista.

(12-16)Bubble Sextant MK.IX.A. in nice case (never be lost) WWY6?: PARC Stan W9FQN 749 0276 VC.

(12-15)EIMAC 4-400A tube low time \$45 or trade for low time 3-500Z low time: Dennis N6KI 271-6079 MMesa.

(12-15)Alinco DR-M06 10w 50MHz mobile xcvr \$300; MFF-452 super key board w/pwr \$100; MFJ-564 Iambic Paddle \$25; Azden 2m AZ-21A HT w/speaker mike \$225; C.L. Ball 538 0289 SD.

(12-14)Yaesu HF Amp FL-2000B, 10-80m, 1200w/in, 572B's, ExCond w/man \$400; John KD6TLF 747 9431 anytime Esc.

(12-09)Yaesu 470 \$275; ICOM IC-03SAT + Quick Charge \$325; Joe KC6QXU 749 8217 Valley Center.

(12-08)Lafayette HA-146 2m mobile \$35; SBE Del Mar Marine VHF radio \$30; RF Harris Marine VHF \$30; Chushcraft assorted FM Ringo antenna's 220, 440, 2m, VHF low

band, lot price \$40; Johnson Fleetcom II VHF mod529 \$65; Johnson F. VHF mod527 \$40; Johnson VHF 242-501 \$25; Motorola UHF Maxar \$75; Standard UHF 4chan+ \$75; Zenith 100PC w/doc \$150; Alf WB6TAW 941 2428 Vista.

(12-05)Packet, RTTY, CW Station- "NEC" Monitor, Kenwood 7850-50w 2m xcvr with cables and manuals \$400; MFJ Tuner 941D 30-300w \$75. Robot 800 & Key board w/modulator manual- RTTY ASCII/CW mode (cost \$900) \$200; Larry W7HKI 439 5855 Ocsd.

(12-04)KWM-2 + pwr supply great condition: Joey-NU6L 749 2699 VillyCtr.

(11-28)52' crank-up Tri-Ex Twr HZ-354N w/new never used elect motor asking \$600; large assort PC software; original disks manuals; Windows & DOS; IBM Quietwriter Printer cut sheet setup only \$40; Mark KC6CZO 739 1533 eve/wk ends.

(11-23)Radio Shack HTX-100 10m 20w xcvr w/ant near new \$120; Hustler 4BTV 10-15-20-40m Vertical \$65; SBTV \$75; MJF-202 Noise Bridge new \$35; Kenwood SW-2100 swr/wattmeter \$75; Duane AA6EE 789 3674 Ramona.

\*\*\*\*\* O L D A D S \*\*\*\*\*

PRINTED ON ODD MONTHS

(10-15)Kenwood 2m xcvr (5230?): Ralph 728 4053

(09-14)Collins S-Line 75S3 \$250, 32S3 & pwr suply \$300 (winged emblem, gud condx, cables, manuals): Pete K6JQE 755 4838 S.Beach.

PLEASE LET ME KNOW IF YOU BUY OR SELL SO I CAN TAKE OUT THE AD!

(09-13) G6-144B in box never used 2m/gain ant \$80; Mike WB6CSH POB 2831 Fort Bragg CA 95437.

(08-19)ICOM 47H 45w mobile \$100; Tim NM7V 753 3567 Encinitas.

(08-16)SWR & Pwr meter STRUTHERS DIRECTIONAL w/case 2-30MHz 144-470MHz 70-470MHz \$130; Lief KE6BZP 223 4983 SD.

(08-11)YAESU FT5200 144-440 dual band 3mo old 10hrs cost \$700 need larger readout, exchange for 2400 or other mobile (45-50w) + cash; C-64 computer, 1541DD, printer (great for Packet); will demo YAESU FL2100B linear 10-80 + WARC 572B's

\$400: Larry W7HKI 439 5855 Ocsd.  
-----  
HIGHWAY ELECTRONICS:parts,(new/old)  
military. Ask 4Nick,967-7225 2 C 1f  
open(10-3pm),305 Wisconsin Ave,Ocsd  
-----  
(08-10)RTTY machine KSR-35 all  
SS gears de police dept: Allen 739  
1405 Esc. (Info thru Walt Huckabay  
W6JRQ-1916).

\*\*\*\*\*  
SAVE BIG ON '95 CALLBOOKS  
North American or International  
(retail \$35) \$26.95; Both \$51.95  
  
Buckmaster HamCall CDROM \$39.95  
QRZ! HAM RADIO CDROM (\$30) \$14.95  
'94 Callbooks (N.A. or Int) \$14.95  
'94 ARRL Handbook (\$25) \$18.95  
'95 ARRL Handbook (\$30) \$28.95  
ARRL Antenna Book 17ed (\$30) \$27.95  
  
ARRL Operating Manual (\$18) \$13.95  
Help for New Hams -ARRL(\$10) \$ 7.95  
Now You're Talking (\$19) \$15.95  
  
POSTPAID. Add 7% tax (CA orders)  
Duane Heise, AA6EE (pd ad)  
16832 Whirlwind/PRC12  
Ramona, CA 92065 Ph 789-3674  
\*\*\*\*\*

(7-8)Kenwood TS-130S, PS30,  
AT130 & desk mike w/stand gud  
condx: Dee N6ELP 753 5647  
Encinitas.

PLEASE REPORT ITEMS SOLD TO UR  
EDITOR!

(7-7)Large selection tubes,  
sockets pwr supplies, xfms, xtals,  
spkrs, hardware, coils, pots, etc.  
All priced to move: Lee W6TDC 724  
7460 Vista.

(7-5)15AH 12v VASA sealed  
batteries \$5ea: John Sharp 740  
5107.

\*\*\*\*\* W A N T E D \*\*\*\*\*  
"My picture is in the postoffice!"

PARC IS LOOKING FOR THE FOLLOW-  
ING ITEMS (old?) FOR THE REPEATER  
SITE: large & small hammer, axe,  
small wood saw, crowbar, & small  
scissors. We always seem to need  
some of these items when we don't  
bring them to the site -W9FQN.

(12-20)Tube tester(TV/7); tubes  
Mullard 5AR4, WE 300-B, 2A3 triode,  
& AR-1 speakers: Bob 310 928 3889.

(12-17)Tektronix 900 series mod

O'scope for parts to repair HV in  
my T922: John WB6IQS 727 3876.

(12-17)new antenna parts; Hy-  
Gain or equivalent 8 wire rotator  
Mod III/IV preferred w/control box;  
3 100' runs RG-213/U or 214/U mil  
grade cable; 100' of 8 wire rotator  
cable and 2 or 3 inch O.D. pipe 20'  
long: John WB6IQS 727 3876.

(12-13)Ametron AL-80 amplifier;  
4/5BTV vert ant; doorknob 850s type  
50-70pf: Dennis N6KI 271-6079 Mira  
Mesa.

(12-05)Kenwood TS-130/140. Drake  
MN 2000 Tuner. Kenwood or Henry  
Amp. Hal Tele-reader for mobile  
RTTY. for I.O.T.A. Kenwood Acces:  
Larry W7HKI 439 5855 Ocsd.

\*\* O L D W A N T E D \*\*  
PRINTED ON ODD MONTHS

(10-22)Vibroplex or McElroy bug  
(reasonable): Sandy K6HE 745 6940  
Escondido.

(10-21)Weller soldering unit TC-  
201 or similar and one PC Board  
vice: Nash W6HCD 940 1028  
Fallbrook.

(10-15)Need diagram of Telex CM-  
1320 headset with boom mic w/o  
connector: Nash W6HCD 940 1028  
Fallbrook.

PLEASE REPORT UNWANTED ADS TO UR  
EDITOR!

(10-12)Collins speaker and  
Collins power supply: Stan W9FQN  
749 0276 VC. for Hugh K4ESQ.

(09-19)ICOM PS-740 or PS-35  
power supply: Dennis N6KI 271 6079  
SD.

(09-07)HEATH/SCHLUMBERGER fre-  
quency counter for spare parts, Mod  
SM-110A, SM-110B, or SM-110C: Bob  
WA6QQQ 723 2700da Flbrk.

(08-20)XCVR for 6m all mode:  
Alan N6AMR 434 5656 Carlsbad.

(08-16)Schematic &/or service  
Man. 4 MPI Printmate 350 printer:  
Dan W2LUK 592 9901 Poway.

(6-10)Hard disk drive for Zenith  
laptop ZWL-184-97 and manual for  
ZWL-0200-02: Mike AB6QT 742 1573  
P.Mt.

(12-01-94) YAESU FRG-7 rcvr gud  
cond original carton w/YH-55 head-  
phones, bat & dust cover \$125: Dave  
WA6HQM 753 2605 =SK=

\*\*\*\*\*  
- S I X M E T E R S -  
\*\*\*\*\*

During the past 3-4 years the  
club has been looking for club  
interest in a six meter FM  
repeater. Your editor used to do a  
lot of FM operating (1957-69) on  
several repeaters and the national  
simplex of 52.525MHz with an old  
Motorola taxi cab gear in northern  
Indiana (Elkhart, South Bend, and  
Fort Wayne). The unit is still in  
my "junk box!"

Bill-KC6Y0X and David-KC6YSO  
have finally gotten through the  
"talking" stage and have obtained a  
6m FM transmitter and receiver  
which they are going to turn into a  
6m repeater. PARC will furnish them  
with a controller like what we are  
using on our other repeaters.

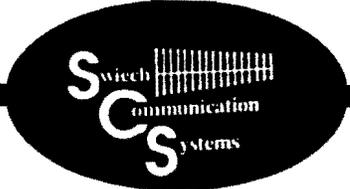
The plan is to "burn-in" the  
repeater at Bill's QTH and then to  
place it at a location where we can  
cover SDCo. and still reach the LA  
area so that we have another link  
during emergency conditions to the  
LA area.

Members interested in the  
project should contact Bill and  
David during the early morning  
"commute" group on 146.730.

\*\*\*\*\*  
(Cont.de.Pg.4)

the repeater for a test period on  
Packet although the conversion as  
done December 11th appears not to  
be working properly. We hope to  
have the problems corrected soon.

Your packet signal is received  
by the 146.1 receiver and  
immediately transmitted on 146.7  
..at least that is supposed to be  
the way it works during the test  
period. The effect is that your  
station appears to be "DN" Palomar  
Mountain and "goes straight thru"  
the repeater so don't try to  
connect to it since it is REAL  
DUMB! If the test period is  
successful, we will install a TNC  
and its operation will be more like  
a node but the output will be  
transmitted as it is coming into  
the repeater. This should eliminate  
the "hidden" node or transmitter  
problem that all nodes suffer from.



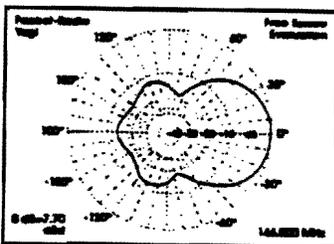
Swiech  
communication  
systems

## Two Meter Yagi Great for Packet Radio or FM

Measured Gain 7.5 dBd



H-Plane beamwidth 60 deg  
Bandwidth 144.5-147.5 Mhz  
SWR < 1.7 at Band Edge  
Impedance 50 ohm  
Silver Plated Teflon SO-239  
Maximum Power 500 Watts  
Chemfilm Treatment On Brackets  
Balanced Matching System  
Two Part RTV Potting  
Black Delrin Insulators



**(619) 748-2286**  
**Gene Swiech, WB9COY**

*Our advertisers  
appreciate your  
patronage.*

### - CORRECTION -

The power supply modification for the units sold at the last meeting need a clarification: where the two resistors connect to the voltage regulator on the bottom of the board, the trace must be scraped away so as to isolate the leg from the rest of the board ..it cannot be a part of any circuit ..and Gateway has parts for the conversion. KD6AKT

## WHAT'S NEW ON ATV?

We recently received the replacement for our failed 13 cm transmitter that we mentioned before. We are using it to route signals from the Santiago ATN network to our repeater so that our friends on the network can talk with San Diego users using the intercom frequency of 146.43 with a PL of 100. We also use it to route select NASA programming to our users on our repeater.

We have also added a 33 cm input on 915 Mhz to use FM input. It requires the user to tell the ATV repeater to go on AM or FM. This is done by sending a control DTMF tone sequence over the 146.43 (PL 79.7) intercom.

The latest user to come up on our ATV repeater is our Palomar Club President, Art McBride, KC6UQH. Art uses a home brew antenna and downconverter.

We have been in correspondence with the manufacturer of our microwave equipment for additional link equipment for sending signals from the Palomar repeater to Santiago Peak. We hope to have the back link completed by late spring of '95.

When our system is complete, users can access the repeater on:

426.25, 434.00, 919.25 AM TV  
915.0, 2141.5 FM TV  
146.43, PL 79.7 FM Voice on Palomar  
146.43, PL 100 FM Voice on Santiago.

Anyone needing help getting on ATV come up on 146.43 PL 79.7 where KB6MCU is monitoring most evenings. Or call 278-4284 for more information.

*-Bill Smith, KB6MCU*

(Cont.de.pg1)

interconnect with 145.05 & the Metro Link, and start working towards allowing 9600pbs transmissions sometime in the future. =SK=

PALBBS can be accessed directly by many in north county although many of you will have to access PALBBS by first "C ESCN" or "C SNDG" on 145.07. SNDG is on Palomar Mountain and ESCN is on a hill south of Vista. Sometime in the future PALBBS will probably move to another frequency. Possibly 146.700 when that becomes available on a reliable basis to Packet. =SK=

A some of the sections that can be accessed in PALBBS are:

- ALL - Please change to ALLSD.
- ALLSD - All San Diego, items of interest not covered by other sections below.
- ARES - Info and where to go.
- ATV - Amateur Television Info.
- BOATS - Boating information.
- CALLBK - How to look up calls.
- CLUBS - Listing of SANDARC clubs.
- CONTEST - Contest listings (general).
- DATES - Dates of coming events.
- DFING - Info on DFing.
- EVAC - Info on EVAC activities.
- FCC - Latest FCC news.
- FREQSD - SDCo Frequency listings.
- HELPME - Ask for help / help someone
- HDWTO - How to send a bulletin and add to a section ..etc.
- MARA - Info on MARA activities.
- MARS - Army, Navy, AirForce info.
- MEXICO - Mexico information.
- MODINF - Modifications to equipment.
- NOTICE - Recent info in PALBBS
- PARC - Listing of PARC activities. (large number of listings)
- PATH - Pkt commands to far off.
- QRP - Low power information.
- RACES - Info and where to go.
- README - Info on PALBBS, how to.....
- SALE - Sell or look for items.
- SATELL - Satellite related items.
- SCHOOL - Listing school ham clubs.
- SYSOP - Messages to the SYSOP.
- TECH - Technical items.
- TOWERS - Tower info, WANTED/SALE
- VETEST - Test locations, info, times (and so 4th)

More subject areas will be added as time goes by.

Check out the above areas and feel free to add to the areas after reading the INFO#1 under each section for directions. Remember, a good BBS requires input from the users. It is not all a ONE WAY thing.

Start with "L DATES" to see what is under that topic. To add to the topic, do a "SB DATES" to (S)end a (B)ulletin to DATES, then answer the next prompt with your subtitle, i.e., "DEC XMAS Parade" which should not be longer than three short words. Then list the date, event, and general information in the main body of your bulletin. =SK=

Some of the commands available on PALBBS are:

- B-Bye
- D-Download
- H-Help
- J-Calls heard
- L-List messages
- N-Enter name/qth
- R-Read msg
- T-Talk to SYSOP
- V-BBS Version
- X-Set options
- \*-Comment line
- C-Conference
- G-File search
- I-Information
- K-Kill message
- M-Msg of the day
- P-Path to call
- S-Send msg
- U-Current users
- W-List files dir
- Y-YAPP
- ?x-Info abt cmd x

For a short description of the commands, use the "H" command. For more information about a particular command, type "?x" where "x" is the letter of the command. For example "?L" will give you information on "L" along with other forms of the "L" command like "LM" for LIST MINE (messages U put on PALBBS).

If the CD ROM callbook server is online, "PC CALLSIGN" (example "PC WABBXN") will return name and address info for a given call. The "PC" command is great for getting information for the calls that you hear. Just type "PC N6YZZ" to find W9FQN's daughter's age and address.

To post a message to a friend of yours:

C PALBBS (on 145.07) or C ESCN or C SNDG then C PALBBS wait 4 prompts, i.e. S N6UWW, then a title when asked for, then send UR message. Follow all directions.

To post a bulletin:  
SB ALLSD (category), wait 4 prompts  
PARADE (example of subject)

then send your bulletin on the parade. Follow all directions.

Before sending a bulletin it would be wise to read some of the bulletins in the section that you want to add to (ie): NEWS, TECH, ALLSD (no ALLUSA or ALLSOCAL), HELP, WANTED, etc.

CONTINUED next month. =SK=  
\*\*\*\*\*  
- E M E R G E N C I E S -  
\*\*\*\*\*

The Palomar Amateur Radio Club over the years has based many of its decisions on how the club will provide emergency communications.

MOBILE EMERGENCIES: The club noticed that at certain times during the day that few club members are in a position to help other club members when they have mobile emergencies: walking with an HT, mobile, etc. It is for this reason that the club built up its autopatch system so that mobiles, hikers, and others not near a phone would have access to the phone lines even though others were not in a position to help them. Our autopatch system has three entry points into the San Diego County phone system. If the phone lines go down between various sections of SDCo, PARC has three entry points into the phone system which do not depend upon phone lines from Palomar Mountain or are limited on their access to all of SDCo.

FIELD DAY: The motivation behind PARC making an all out effort winning 5A in 1991, 1992, and 1993 was that in the process of making these efforts that the club was coming up with equipment and experience which it could use in emergencies: eight "stand alone" crankup towers, three trailers, beams, etc.

REPEATERS: The club has dedicated its repeaters to emergency operations making them available to the Amateur Radio Emergency Service (ARES), Radio Amateur Communication Emergency Service (RACES), Mercury Amateur Radio Association (MARA), Red Flag, Red Cross, Animal Rescue, and various community events where emergencies could occur.

The repeater site has been

"hardened" to earthquake shakings and we have installed 3,360 Ahr of emergency 12vdc battery backup for when Palomar Mountain loses its AC power. We have also installed a 1kw 110VAC generator at the site to help us in case the AC power is lost for longer periods of time.

If everything goes as planned, we will install more battery backup within the next few months bringing our total backup to about 8,400Ahr of batteries. That is operating five repeaters 24 hours a day for seven days. Assuming a 50% duty cycle, this would be worth two weeks of operating or under real emergency conditions about 3-weeks of repeater and packet operation. This battery backup is the equivalent energy of about 100 car batteries

NETS: PARC sponsors the San Diego County Traffic Net (SDCTN) which serves San Diego County nightly allowing voice and MARS (Military Affiliate Radio System) traffic to enter and leave SDCo. This net has been conducted nightly with such illustrious managers such as Little Joe La Pointe-WB6HMY, Marnie Parker-KB6PCF, Joe Martina-N6RVO, and Charles-N6TEP making the traffic flow almost 365 days/yr. The RTTY repeater (146.700) was put in to help with the large flow of messages. Packet was added (145.05) to help but we are not sure how this is being used or how effective it is. Recently there has been a group of members who have been pushing a BBS for the club and its members and we only hope that the accent will be on communications and emergency communications.

The day will come when PARC is going to be required to process large amounts of health and welfare messages, emergency messages, and emergency communications.

Almost all decisions made by the PARC board reflect this concern for EMERGENCY COMMUNICATIONS.

XXXXXXXXXXXXXXXXXXXXXXXXX 12-22-94  
 ---PARC STANDING COMMITTEES ---  
 (if you can stand, we need you)  
 ARES REP...K7DCG...Dennis Shirrel  
 ..... 748-9046, Poway  
 AMATER TELEVISION,KB6MCU,Bill Smith  
 ..... 582-2313, San Diego  
 AWARDS, WAS HF WZ3P.....Bill Kane  
 944-D198, Carlsbad  
 WAS VHF N6ELP...Dee Crumpton  
 753-5647, Encinitas  
 BILLING.....W6LOL.....John Tentor  
 ..... 672-3891 R. Penasquitos  
 BADGES.....W6LOL.....John Tentor  
 BY-LAWS.....KI6JM....Jack Hanthorn  
 ..... 598-0420, Vista  
 COFFEE(Mtg)...KB6YHZ.....Art Nye  
 ..... 758-0234, Vista  
 CONSTITUTION, KI6JM...Jack Hanthorn  
 ..... 598-0420, Vista  
 GOODIES(Mtg),AB6LY, Larry/Kay Gugle  
 ..... 439-4109, Oceanside  
 EMERGENCY QTH's.....For EMERGENCIES  
 ..... WA6Y00-Harry, Escondido  
 ..... N6KI -Dennis, Mira Mesa  
 EQUIPMENT "SK", \_\_\_\_\_ ?  
 EQUIPMENT INV, W9FQN....Stan Rohrer  
 ..... 749-0276, Valley Center  
 EVAC REP., KH6TL, Scottie Haskell  
 ..... 727-8836, Vista  
 FCC VE Testing, AA6OM, Rusty Massie  
 ..... 747-5872, Escondido  
 FIELD DAY '95 .....  
 GRAPHIC ARTS, KB6NMK.....Jo Ashley  
 ..... 741-2560 Escondido  
 HEALTH/WELFARE,N6QJE, Eleanore Call  
 ..... 729-0850, Carlsbad  
 HISTORIAN.....KI6JM...Jack Hanthorn  
 INTERFERENCE..KB6MCU.....Bill Smith  
 MEMBERSHIP...KC6WAN...Ralph Powell  
 ..... 727-7415, Vista  
 METALWORK-c1ub, N6QVW.....Drlando  
 ..... Vernacchia, San Diego  
 NETS/SINs....W9FQN.....Stan Rohrer  
 NEWSLETTER...W9FQN.....Stan Rohrer  
 PAST PRESIDENTS (active)->  
 ..... Ed-N6GZI, Stan-W9FQN  
 PICNIC .... KD6CDH ... John Crossan  
 ..... Oceanside  
 PRINTING(special),K3PXX,TerryRunyon  
 ..... 726-0595, Oceanside  
 PROGRAMS . W6GIC .. Sybil Allbright  
 ..... 741-8143, Escondido  
 PUBLIC RELATIONS,N6UWW,EllenUtschig  
 ..... 630-0950, Vista  
 ..... KK6LX, Benton Caldwell  
 ..... 729-5161, Carlsbad  
 QSL Manager...KD6IVF.....Jim Cook

..... 757-5671, Oceanside  
 RACES REP..... ?  
 RED FLAG REP...W6HCD, Nash Williams  
 REPEATER SITE..W9FQN....Stan Rohrer  
 REPEATER TECH,WB6IQS, John Kuivinen  
 ..... 724-8380, Vista  
 REPEATER 145.05Pkt,WB6IQS,John; and  
 Paul Williamson, 571-8585, SD  
 REPEATER METRO LINK 70cm:see 145.05  
 REPEATER 146.70....WB6IQS...John K.  
 REPEATER 146.73...AB6QT..Mike Doyle  
 ..... 742-1573, Palomar Mt.  
 REPEATER 147.075,KC6UQH,Art McBride  
 ..... 741-8143,Escondido  
 REPEATER 147.13,KC6UQH, Art McBride  
 REPEATER METRO,KB5MU,PaulWilliamson  
 REPEATER 449.425, AB6QT..Mike Doyle  
 REPEATER PATCH, WB6FMT,Jerry Houser  
 ..... 758-4388, Vista  
 REPEATER ATV, KB6MCU, Bill Smith  
 REPEATER POWER,KD6EBY, Dave Tennant  
 ..... 749-2907, Valley Center  
 REPEATER SIMPLEX,AB6LY, Larry Gugle  
 SELLERS TABLE,Mtg: KE6CDH, John C.  
 SDCo.TRAFFIC NET:N6TEP,CharlesMiele  
 ..... 471-0439, San Marcos  
 SANDARC REPRESENTATIVES -  
 ... Pri KI6YG, Frank Forrester  
 ..... 747-5515, Escondido  
 ... Pri W9FQN.....Stan Rohrer  
 ... Alt WB6NBU.....Bob Pace  
 ..... 693-4955, S.D.  
 ... Alt KB6MCU.....Bill Smith  
 SCHOOL CLUBS,KI6YG, Frank Forrester  
 SOUTHWESTERN ASST.DIR., W9FQN, Stan  
 TRAINING CLASSES, KB6MCU,Bill Smith  
 TRUSTEE W6NWX:..WI6B...Ron Wilhelmy  
 .... 756-3133, Rancho Santa Fe  
 (Phone #'s are listed only once)  
 Committee heads and members of  
 committies serve until replaced by  
 the President and/or his Board. All  
 committee heads are appointed by  
 PARC presidents except for the  
 trustee of W6NWX who is appointed  
 by the PARC Board.  
 Reappointed to Board positions  
 for 1994 were RALPH-KC6WAN  
 (membership), JOHN-WB6IQS (repeater  
 tech chairman) and STAN-W9FQN  
 (newsletter & repeater site).  
 If you are interested in helping  
 with one of the above committies,  
 please contact your president or a  
 committee chairman. This is a good  
 way for new club members to meet  
 people and to gain an inside  
 working knowledge of how the club

functions.  
 If we have missed anyone that  
 has been appointed by WA6Y00 or was  
 appointed by W9FQN previously,  
 please contact your editor so that  
 the oversight can be corrected for  
 the next listing. If there are any  
 club activity areas missed or that  
 you would like to volunteer for,  
 please contact your new president,  
 ART-KC6UQH.  
 \*\*\*\*\*  
 Thanks to:  
 \*\*\*\*\*  
 EVERYONE who bought Ted-KD6AKT's  
 power supplies. We collected \$100  
 towards equipment needed for  
 PALBBS. Ted does have more of these  
 supplies so if you missed buying  
 one at the December meeting, come  
 to the January Club meeting.  
 EVERYONE who bought the STAMP  
 pins at the December meeting. We  
 collected \$100 which will probably  
 go towards equipment needed for  
 PALBBS. These pins played a big  
 part in the buying of the club  
 repeater site on Palomar Mountain  
 and we still have about \$225 worth  
 more of them to sell. =SK=  
 ELLEN-N6UWW for bringing in a  
 garden hose for the repeater site.  
 We could still use about 50' more.  
 We store water on top of a building  
 and use the water for irrigating  
 the small trees we are trying to  
 establish around the site to hide  
 the buildings and be good  
 neighbors. =SK=  
 GORDON-W6MYV for many "old time"  
 books: Jul'44 QST, Short Wave  
 Manual'33, Radio Amateur's  
 Handbook'30 (yr of UR editor's  
 birth), several "project" books, &  
 others. Wish the Handbook could be  
 in a museum although I like being  
 reminded of "how it was" during the  
 year I was born: UX210 tubes, motor  
 driven interrupters (tone wheel 4  
 CW, long wire antennas, and the  
 winding of power transformers.  
 Those were the "GUD-OLD-DAYS" when  
 a Ham brewed his own station  
 (Gordon is net control for the  
 Friday evening Code Net).

# PARC Membership Application

AMATEUR CALL
CLUB MEMBERSHIP? <input type="checkbox"/> NEW <input type="checkbox"/> RENEW
ARRL MEMBER? <input type="checkbox"/> YES <input type="checkbox"/> NO
LAST NAME
FIRST NAME
STREET ADDRESS
CITY
STATE ZIP
HOME PHONE
WORK OR OTHER PHONE
HAM LICENSE EXPIRES
FAMILY MEMBERSHIP (List other calls and names)
CLASS OF LICENSE N T T+ G A E

Mail this form with your check to PARC, P.O. Box 73, Vista, CA 92085-0073 or hand to membership chairman at club meetings. We prefer checks to cash, it's safer and you have a record. Dues are \$12 a year which includes \$3 for the Scope, or \$21 for a family all at the same address. Consider paying for two or three years at a time to reduce the work for the membership chairman.

Name, call and complete address are required. Telephone number is requested but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

==== DEC. SCOPE FOLD/STAPLE =====  
 Editor: Stan-W9FQN 30311 Circle R Ln  
 Valley Center, CA 92082-4806  
 KI6JM Jack Hanthorn, Folding Refresh  
 WA6Y00 . Harry Hodges . Staples  
 KM6WG Jennifer Thieme Fold/Sort  
 KM6WG\* . . \*also November SCOPE  
 === WE WERE REALLY SHORTHANDED! ===

- \*\*\*\*\* I N S I D E \*\*\*\*\*
- 1-1 PALBBS, Classes, Next Meeting
  - 2-2 Board, NxtMtg, AGOGO, WrkParties
  - 3-3 HRO & Comer Ads. ....
  - 4-4 Pres, Membership, VE, 146.7Pkt.
  - 5-5 Repeaters & Autopatches. ....
  - 6-6 News. ....
  - 7-7 For Sail. ....
  - 8-8 Wanted, 6 meters. ....
  - 9-9 ATV, & PALBBS Cont. ....
  - 10-10 Emergencies. ....
  - 11-11 Standing Committees, Thanks.

\*\*\*\*\*  
 - P A R C B O A R D -  
 Pres : Art McBride . KC6UQH 7418143  
 VPres: Sybil Albright W6GIC 2784284  
 Sec : David Doan . KC6YSO 2864888  
 Treas: Jennifer Thieme KM6WG 5991134  
 RptTec: John Kuivinen WB6IQS 7273876  
 SCOPE : Stan Rohrer . W9FQN 7490276  
 MemShp: Ralph Powell KC6WAN 7277415  
 Tech: Mike Doyle . AB6QT 7421573  
 Memb: Marvin Munster WB6PKK 7472223  
 \*\*\*\*\*  
 VE Program: Rusty . AA6OM 7475872  
 ATV/Edu. : Bill . WB6MCU 5822313  
 PALBBS : John . KE6CDH 6305289  
 \*\*\*\*\*

JAN'94 S.Call? \_\_\_\_\_  
 (Sponsor's call not required)

S C O P E, US Post Office #076530  
 Published by: --- PARC, Inc. ---

POSTMASTER: Return to -> S C O P E  
 P.O.Box 73, Vista, CA 92085-0073

2nd Class  
 Postage paid  
 at Vista CA  
 92085 - 9998

Vista	Mira Mesa	La Mesa	Fallbrook	Membership Expires PRC yy mm	License Expires LX yy mm
Palomar	Mountain				

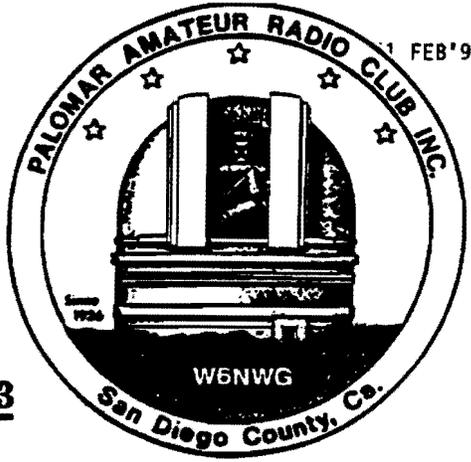
Phone Codes  
 Deliver To

# Scope

W6NWG

## Palomar Amateur Radio Club Inc.

Post Office Box 73, Vista, California 92085-0073



FEBRUARY \*\*\*\*\* 1995 \*\* 59 YEARS OLD

Volume XXI Number 2  
Published monthly by PARC, an ARRL  
Special Service Club. Membership \$12  
including \$3 for SCOPE. Outside SDC  
\$4. Coffee 7pm, Mtg. 7:30pm @ Carlsbad  
Safety Center (CSC), Palomar Airport  
Rd. to N. on Camino Real (S11), east on  
Faraday .25 mi, left to CSC, TB 14F6.

Talk-in on 146.73

\*\*\*\*\*  
OPEN REPEATERS / CLOSED AUTOPATCHES  
PARC PALOMAR MT. REPEATERS (W6NWG):

PARC W6NWG Trustee: Ron-WI6B  
Autopatches(4): 146.73-, 147.075+\*  
147.13+\*, 449.425-\*

PACKET: 145.050s; 70cm METRO LINK

Duplex Packet Repeater 146.700(-)

SIMPLEX: 145.350s, 145.520s, 446s

ATV: 1241.25T(out)/Int-Comm 146.43s  
input 915.0FM/919.25AM; PL79.7Hz

ALL COVERING 2,000 SQ-MI OF S.D.Co.

OTHER: 224.380-\*KK6KD; 224.9-\*WD6HFR  
146.175+\*WA6IPD; \* = 107.2Hz

PALBBS: (W6NWG-3), 145.07, 145.05,  
& METRO LINK; SysOp KJ6ZD

\*\*\*\*\* C A L E N D A R \*\*\*\*\*

- Feb 1 Wed. CLUB 59th ANNIVERSARY MTG
- Feb 9 Thu. PARC 7pm Board Meeting
- Feb 11 Sat. PARC VE Tests Carlsbad SC
- Feb 17 Fri. Deadline 4-SCOPE articles
- Feb 21 Tue. SCOPE mailed at Vista PO
- Feb 18-19 ARRL Internat. DX Contest

\*\*\*\*\*  
NEXT MEETING - VPres. W6GIC  
\*\*\*\*\*

PLEASE COME EARLY and help set  
up chairs.

Sybil Allbright, W6GIC, has an-  
nounced that the program for the  
February meeting will be Jack  
Simmons Jr., KI6RF, talking about  
his emergency experience in the  
Hawaiian islands during their most  
recent disaster. Jack is an avid

KAYAKER and would be happy to talk  
to anyone after the meeting about  
ocean or river KAYAKing.

(S)HOW & (T)ELL: See Sybil-W6GIC  
B4 meeting to reserve time.

\*\*\*\*\*  
1 4 6 . 7 0 0 P A C K E T  
\*\*\*\*\*

The 146.7 packet duplex repeater  
is up and running and some amateurs  
have been using it. The volume is a  
little low so you might need to  
turn up the volume on your receiver  
to make up for it but otherwise it  
can be used for communications dur-  
ing the "testing" phase.

Remember, you are being repeated  
thru the repeater just like you  
would be in using our voice  
repeaters where your voice appears  
on the "output" at the same time  
you are talking on the input (minus  
the speed of light calculations).  
The repeater uses a 146.700 trans-  
mitted signal and receives on  
146.100 just like our 146.730 voice  
repeater transmits on 146.730 and  
receives on 146.130 both at the  
same time.

This repeater is NOT A NODE and  
you cannot connect to it. You only  
"pass thru" it, so do not try a  
connect (C) or a "via" (V). It has  
a callsign but we hate to tell you  
what it is since someone will try  
to "C" or "V" thru it using the  
callsign. Ultimately it will prob-  
ably be known as W6NWG-4 or PALRPT  
but for the testing phase don't  
call it anything! It is so stupid  
it doesn't know its name although  
it does ID every 10 minutes in  
Morse code as normal repeaters do.

EXAMPLE: You (N6YZZ in Valley  
Center) talking to your friend  
(N6QDB in Chula Vista) might start

like this -  
YOU - C N6QDB  
FRIEND - n6qdb's tnc answers  
YOU - see n6qdb's connect Msg.  
type - HI SUSAN. HOW ARE YOU?  
FRIEND - FINE, LINDA. AND YOU?  
YOU - WOOPS! PHONE CALL. 73.  
FRIEND - OK, CUL.

- n6qdb issues a (D)isconnect  
- DISCONNECT on both screens

Paul-KB6MU indicates you might  
have best results during Phase I  
by:

1. Arrange to make contact with a specific station.
2. For Phase I set your TNC parameters -

- a. Increase TX delay until contact
- b. Your TNC audio level must not be too high or there will be clipping and distortion.

Again, DO NOT CONNECT to W6NWG (PALRPT). It is like your station is sitting on Palomar Mountain running 80 watts covering 2,000 sq mi of San Diego County instead of your 1w HT buried in a hole someplace that can't be heard by others more than a mile away.

Within the next several months we hope to have Phase II implemented which should give us better signal quality with baud rates of 1,200 and 2,400 and the ability to add PARC packet announcements. =PARC=

\*\*\*\*\*  
- P A L B B S -  
\*\*\*\*\*

John-KE6CDH indicated that he wanted to be phased out of the SysOp position with PALBBS. After some searching Norbert-KJ6ZD was located and a meeting between Norbert, Art-KC6UQH, and Stan-W9FQN took place on Saturday the 7th to

look at Norbert's BBS and what needed to be done to effect the change. Norbert accepted the SysOp position for PALBBS after a majority of the PARC Board was polled by telephone and the change was made the 8th of January.

Many thanks to John-KE6CDH for all of the work he did in originally getting PALBBS up and running. His efforts are greatly appreciated and he is still working on getting the club's computer system up and running.

Norbert had been operating his own BBS in Vista with the call of KJ6ZD (NOBBS). His program system (WA8BXN MSYS Ver 1.18) is the same as the one PALBBS was using (MSYS Ver 1.14) so there is little or no change in how the basic system functions.

PALBBS now has connections to WA6DGR so that messages can be sent and received out of the San Diego County area. This means that PALBBS can serve as your home BBS for message traffic. It is also available for National Traffic System messages from our San Diego Co. Traffic Net (SDCTN) which meets each evening at 8pm on 146.730.

PALBBS can be reached on various frequencies at present: 145.07 direct, 145.05 direct, via 145.05 (PALMAR), via 145.07 (ESCN), via 145.07 (SNDG) (there are probably other ways), and through any NODE that uses the SDCo METROLINK. Please investigate all available frequencies to see which is more reliable for you. In an emergency, Norbert has HF packet available for "long haul" work across the United States.

While we recommend at present the above frequencies in the order mentioned, in the future we will probably want you to use PARC's new 146.7(-) packet REPEATER when PARC gets it working properly. You will probably find the frequency easier to use since HT's (low power) will probably have equal chance with the high powered boys and there will be FEW hidden stations "clobbering" the low power stations. It is interesting to note that MFJ engi-

neers say that they have never heard of a Packet Repeater! Thats really hard to believe.

To effectively use a BBS one needs to understand all of the 1-2 letter commands available. Some of these were listed in the January SCOPE. You can use the PALBBS HELP section but the commands fly by pretty fast and sometimes are listed in abbreviated form. There is a 16 page USERS manual available from the club for 50c which only recovers PARC's printing costs and will be available at the next club meeting. If you are interested in the manual, please leave a message on PALBBS to W9FQN so that we will know how many to order for the first printing. At present the manuals are only available at club meetings. This manual will work for all MSYS BBS systems such as WB6DGR in San Diego and W6KRW in Orange Co.

Some of the topics covered are: CONFERENCE (connect to others in a group), K-NODE, NET NODE, FORWARDING, DATABASE, MSYS COMMANDS, BULLETINS, PBBS EDITORS, PACTOR, APLINK, NTS BASICS along with examples of messages and format, ARRL numbered radiograms, NETWORK NODE CMD, FILES (with basic programs), etc., and how to search for a specific item (string) in the SALE or WANTED areas. =SK=

On the 14th Stan-W9FQN delivered to Norbert a 600w AC emergency power supply using 38Ahr of 72v batteries which should give PALBBS 10-15 hours of emergency operation before we have to bring in a portable AC generator. The club still has another string of batteries which would give an additional 38Ahr or 20-30 hours of emergency operation. The batteries are from the group donated by Parviz-KD6BCU several years ago. =SK=

Short news or informational (or gossip!) items can be sent to the SCOPE addressed to W9FQN via PALBBS. =PARC=

\*\*\*\*\*  
E D I T O R  
\*\*\*\*\*



New POSTAL RATES went into

effect January 1st and in our mailing of of 800+ SCOPE copies, the increase is \$3.79 or an increase of 0.47c per SCOPE which is not much of an increase but it will cost us about \$50 more per year in postage.

Fortunately our printer has not passed along an increase for over 4.5 years and two years ago our printer said he would staple the upper lefthand corner for free. Thank you PRINT WORLD of Escondido. If you have many copies to run off, mention that PARC sent you! PARC will give them a free ad now and then. =SK=

News items can be sent to me at PALBBS (S W9FQN) although at present I have to copy the file by hand since I use different computers for Packet and the SCOPE so only short items and ads should be sent to me via packet. Longer items can be sent to me via the phone line (749-0276, 2400, N, 8, 1) but call me first on several of the club's repeaters so I can get the computer into the proper mode of operation. These days I always on 449.425 and usually monitoring .075/.13. =SK=

Club OFFICERS and COMMITTEE chairmen donate their time to the club and receive no compensation other than the satisfaction they receive from the job(s) they are doing. They like to receive phone calls from club members as long as you are paying for the call. With a club of over 815 members it is asking a little too much to have them call you back on their own dimes but if you are in the same calling area they don't mind returning calls. =SK=

\*\*\*\*\* - HUMOR ? - \*\*\*\*\*  
Be a good egg, send yokes to Editor  
Doctor to patient: diagnostic computers don't make mistakes, Mister. YOU DO HAVE DUCTH ELM DISEASE. de Larry-WA6UTQ.

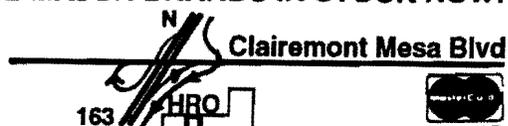
DAN QUAYLE VIRUS #2: Their is sumthing rong wit your komputer, ewe jsut cant figyour out watt!

GOVERNMENT ECONOMIST VIRUS: Nothings works, but all your diagnostic software says everything is fine.  
SCOPE-FEB'95



# HAM RADIO OUTLET

"LARGEST HAM OUTLET IN THE WORLD"  
ALL MAJOR BRANDS IN STOCK NOW!



riconcept

DIAMOND ANTENNA

US TOWER



ICOM

K&K Kantronics

KENWOOD

YAESU

HUSTER

COMET

BENCHER, INC.

MFJ



Cushcraft CORPORATION

OUTBACKER

Astron

AMERITRON



Larsen Antennas

Iri-Ex

hy-gain

TEN-TEC

Open: 10a.m. - 5:30p.m.  
Monday thru Saturday

560-4900  
or toll free 1-800-854-6046

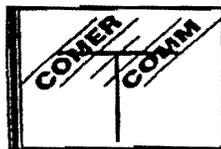
5375 KEARNY VILLA ROAD, SAN DIEGO

# RADWARE

The new HF DSP receiver / Exciter system with full spectrum analysis capabilities is now FCC Certified.

## LIMITED INTRODUCTORY OFFER

For a limited time we are offering a RADWARE card (unboxed) AND a Wearnes DSP Sound card for \$470.00 plus tax. Call Ron on 599- 0476 to place your order or see KF6C at the next meeting. Call the RADWARE BBS for more info 599- 0185

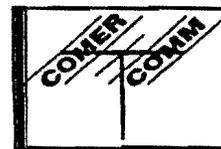


COMER COMMUNICATIONS, INC.

2598 Fortune Way - Suite I

Vista, CA 92083

(619) 599-0476



\*\*\*\*\*  
 PRESIDENT's WAVELENGTH KC6UQH  
 \*\*\*\*\*

I am enjoying ATV. It allows full communication (sight and sound) between Amateurs. Body language especially facial expressions fill in the gaps that are left up to interpretation when using other modes of communication.

I feel it is long over due to commend the excellent job our Volunteer Examiner Coordinator (VEC) team is doing for our Club. Rusty AA6OM and his team, rain or shine, every second Saturday of the month tests between 8 and 21 prospective licensees. Our Club is a member of Sandarc VEC and we do not charge for exams. Sandarc is supported by revenue from the operation of the ARRL Regional Convention held here. Revenues from the Convention fund the test exams, equipment, the 465-EXAM message line, and postage.

Rusty or his team leader must prepare all tests from the FCC test pool questions and find his own help to conduct the examinations. For exams of General Class or higher he must have three VEC accredited Extra Class License holders present. He must file the Certificate of Successful Completion signed by the examiners plus the applicants 610 form with the FCC. All paperwork must be correct in order to have a license granted. He is now converting to computer filings for faster License processing as mandated by the FCC. His regular assistants are Jack, KI6JM; Bill, WA6HYC; Bob, KE6VX; Duane, WB6R; BURDETT, W6YYV and Paul, KB5MU . Standby help from Steve, N6RUV; Mark, AA6TR; Harry, WA6Y00; Jack, AA6UQ; Jenifer, KM6WG; Mike, AB6QT; Tim, N6ZUC and Ted, N6TRF. Please give these Amateurs a special thanks for the many hours they have contributed so that others can join us in the Amateur Radio Service.

John,KE6COH asked to be relieved as SYSOP for the PALBBS. I asked Norbert,KJ6ZD and he agreed to convert his NOBBS to the PALBBS, and

assume the position of SYSOP for the PALBBS. This change was effective as of 1-7-1995. I would like to thank John for his help in developing the PALBBS and getting it on the air. John had to work with in the constraints placed on the PALBBS by the Board of Directors and our Trustee. The BBS has grown slowly but in an orderly manor. John has agreed to be a technical consultant for the BBS.

Norbert who in one weekend put up his own BBS is well qualified for the job and is willing to let the Club use his equipment including a controlled access HF gateway on 20 Meters. Thank-You Norbert.

The speed of development and features of the PALBBS is determined by the Board of Directors and Ron, WI6B our trustee of the W6NWG Club Call. Our Board is always open to suggestions and your comments should be presented at our Board Meetings or to Officers/Directors of the Board who will present your concerns at our next Board Meeting. Operating problems or help on using the BBS are to be directed to the SYSOP and or his assistants.

Please do not jump to conclusions. Last week a problem was suspected to be the fault of our BBS, but it turned out to be another station. An unattended packet station can fail and the time out timer is not effective in some modes of failure. There must be over fifty of these stations operating on 145.07 in North County. Problems are best left to the experts and we do not need to clutter our repeaters with conjecture. A simple phone call to a Control Operator to explain your problem is helpful. Advertising to the whole Amateur community that there is a perceived problem on any of our repeaters makes our Club look unprofessional, adds to the problem, and is negative advertising for our club. Many of the problems are beyond the control of our Club. The Technical Person in charge of a station under W6NWG is responsible to announce any technical difficulties after checking

the trouble reports. We do not need to take the blame for interference outside of our control. The General Membership is requested to report problems to our Control Operators by land line, not over the air.

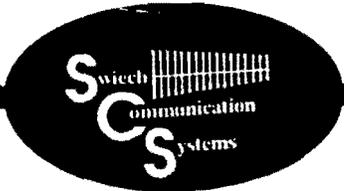
I would like to remind our Members that criticism, constructive or otherwise should be done in person or via the land line. This has been a Club policy for many years and applies to all PARC equipment that operates under the W6NWG Club Call Sign. Please direct your concerns to our Board of Directors as they have the power to effect a solution.

All of us are human and some of us built most all of the equipment that our Club is operating. Our repeaters have one of the best operating records of all the Amateur repeaters in San Diego County, while a private local system that used all new equipment has had several failures this past year. Those of us that built the equipment always hear about the "problems", and most "problems" are traced to outside interference. Please be considerate when venting your frustrations to a Member who built the system you are complaining about. They most likely have spent several hundred hours making and maintaining the equipment you use. They are understandably more sensitive to complaints and solving technical problems is best done in an nonemotional atmosphere. I for one can assure you that I, as a equipment builder, have a defense for my creations lurking in my subconscious at all times. Push the right buttons and it will come forth quicker than lightning, in the most technical terms I can muster.

Remember, A thick shell usually hides a soft, sensitive inside and the thickness of the shell is directly proportional to the number of the complaints.

This February we will commence our 59th. year as the Palomar Amateur Radio Club. Come to our February First General Meeting and help us celebrate our 58th.

73, Art, KC6UQH

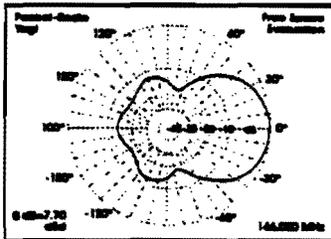


## Two Meter Yagi Great for Packet Radio or FM

Measured Gain 7.5 dBd



H-Plane beamwidth 60 deg  
Bandwidth 144.5-147.5 MHz  
SWR < 1.7 at Band Edge  
Impedance 50 ohm  
Silver Plated Teflon SO-239  
Maximum Power 500 Watts  
Chemfilm Treatment On Brackets  
Balanced Matching System  
Two Part RTV Potting  
Black Delrin Insulators



**(619) 748-2286**  
**Gene Swiech, WB9COY**

## Radio and Test Equipment Repair

All Makes  
Reasonable Rates

**Lou de Beer**  
**ND6W**  
**(619) 437-8351**

\*\*\*\*\*  
WB6IQS - REPEATERS - W9FQN  
\*\*\*\*\*

There will be a 1:30pm meeting of PARC's Technical staff February 12th at W9FQN's QTH in Valley Center. Items to be discussed are (but not limited to):

- 1)Control Operations & Rules.
- 2)New batteries(24) and housing.
- 3)Individual repeaters/modification
- 4)Autopatch function and control.
- 5)New metal buildings/fencing.
- 6)ATV/6m/links/HF/PALBBS/MARS/etc.
- 7)Tower grounding/noise/antennas.

The following Tech members are invited:

WB6IQS W9FQN WA6QQQ WI6B KB5MU  
KC6UQH AB6QT AB6LY KD6EY KD6VHI  
KC6YSO KB6MCU WB6PKK N6ZUC KE6CDH  
KJ6ZD KC6YOX

Other invitations are offered to:

All PARC-Officers, K6PD, KK6KD, & WB9COY.

If you have any input about repeaters, suggestions, or new ideas, please contact a Tech member (or club officer) and voice your concerns. =PARC=

\*\*\*\*\*  
WB6FMT AUTOPATCHES W9FQN  
\*\*\*\*\*

After examining all possibilities, it was determined that the "off the hook" signal was being generated by the telephone company because they had a bad phone line coming into the autopatch which was recently repaired. It still is requested that you hold the "#" for at least 0.5sec when you close the patch so that everything gets closed down on the mountain AND at the individual autopatch centers. =SK=

There are many instances of where members think that something is wrong with the autopatch system when in reality it is in their equipment, location or method of accessing the patch.

MISSING DIGITS: Our computer monitor indicates that most users are able to enter the 3-digit access code but run into troubles with the remaining 7-digits. The most common mistake is to press the

push to talk switch as you are entering the first digit. It needs to be remembered that it takes a fraction of a second for your transmitter to come up on frequency and a fraction of a second for your PL to be present. Then it takes another fraction of a second for the repeater to detect your signal and for it to recognize your PL. Now if you press the first digit for a fraction of a second as you bring up your transmitter the first digit is "lost" and the autopatch and monitor only see 6-digits being retransmitted.

RULE- push your push-to-talk switch for a second, then enter your access code and again for the seven digit phone number otherwise we see on the monitor computer (and at the autopatch) the following printout:

??? = control codes  
No. Time sec code Number Call  
162 8:43 10 ?? ...-...# Inc.  
166 20:45 46 ??? 310-969.# Inc.  
167 20:45 18 ??? 310-969.# Inc.  
169 21:16 19 ??? 310-969.# Inc.  
170 21:20 11 ??? 631-0969# KN6Z0  
182 17:54 62 ??? 224-722  
224-7226# Inc

The monitor computer actually prints out a whole 80-col screen and printer line of information concerning the call made: sequence number, date, time, seconds, repeater used, access code(s), phone number, additional number to access your answer machine, dues expiration, call sign, your name, comments, etc.

Note in 162 that the first digit is missing of the access code and the patch refused to come up.

Numbers 166-169 look as if they are missing the last digit but number 170 shows that it really was the first digit of the phone number that was missing. It is a little hard to understand why #170 was only 11 seconds long when it was a successful call unless it was a check of the system by some new member.

Number 182 shows someone missing the last digit (fade?) and then immediately re-dials the telephone

number without shutting the patch down with a "#" resulting in the autopatch actually seeing the first digit "2" of the correct redial number (2)24-7226 as the last digit of the previous attempt "224-722?" so that now the autopatch is seeing the phone number as 224-722(2) which is not correct. Remember, the telephone line is looking for 7-digits and when it has the 7th it thinks it has a valid number and starts the ringing. The issuing of a "#" clears all memories and allows you to start fresh with no "stored" bad digits from previous attempts.

If you are in a poor location, the system could miss a digit as you rapidly pass through a "fade" area with the same result as above but with a different digit being missed. Again, this is not the fault of the autopatch but of your location and/or weak signal.

Sometimes the monitor computer picks up 8-9 digits for the 7-digit number being dialed which again is not the autopatch systems fault. If you hold the digit too long a rapid fade of a weak signal could break a single digit up into a double digit. And then there is the situation where your finger "bounces" on a key giving a double digit.

There are all sorts of ways to MESS UP AN AUTOPATCH access and some users have more success than others! =PARC=

\*\*\*\*\*

LAST MEETING

\*\*\*\*\*

Attendance was low because of EXTREMELY bad weather with only 33 members and one guest (speaker's wife) in attendance for a really great presentation by John Proctor, KC7GNI, telling about his exciting travels around the world in a Cessna 185 with emphasis on his crossing Russia (or what used to be Russia). The video was especially interesting along with John's comments on their KGB escorts and treatment at Russian air bases.

John and his wife Stacy will probably be back for another program.

STORM FIGHTERS WERE: KC6UQH, W6GIC, KM6MW, K06CR, KD60BG, KE6MQB, KE6MQC, KD6RFQ, KE6ILP, KC6TYT, N6ZUC, W3ARU, WA5BNH, KD6KXH, NE60, W6NKB, WB6IQS KB6MCU, AC6HI, KE6NLY, KC6YSO, KE6OHT, KD6PBH, W9FQN, N6FMK, KC6YOX, KE6BGI, N6UWW, WB6PKK, WB6BKR, KB6YHZ, KC6WAN, & KF6C

SHOW & TELL featured Art-KC6UQH with his ATV receiving setup (home built helicole antenna and receiving system) and Stan-W9FQN showing the autopatch board designed by Jerry-WB6FMT with a John-WB6IQS designed printed circuit board. Stan also showed the Price Club \$19.95 4Ahr portable power pack which works well with HTs providing that extra operating time needed for emergencies and public service events. Ellen-N6UWW made brief comments about her participation in the Rose Bowl Parade with Jo-KB6NMK. Contact Ellen or Jo for information on how you can participate next year.

ART-KB6YHZ & Anita-KB6YHY made the coffee and supervised the drink and goodies ..and members bringing goodies: Ron-KM6MW & Phil-KC6TYT. We had LOTS of coffee left over!

Goodies were great & U were rewarded with "1" participation ticket. =PARC=

\*\*\*\*\*

KI6JM - A G O G O - W9FQN

\*\*\*\*\*

(2-90)(5yr)..Joe-N6RVO appointed in charge of evening traffic net (SDCTN) taking the place of Marni Parker-KB6PCF ..commercial tenant inherited when the Club bought the site reinstalled new equipment 1-1-90 ..Ham Help Net started ..Personal Computer net started ..discussed trespassers driving across back edge of PARC's repeater property. =PARC=

\*\*\*\*\*

MEMBERSHIP KC6WAN

\*\*\*\*\*

NEW CLUB MEMBERS wanting confirmation of their membership and/or an autopatch information sheet and/or FCC 610 form should send to me at the club's address a (S)elf- (A)ddressed (S)tamped (E)nvelope

(SASE) requesting same or see me at the next meeting.

3yrs= N6PHR-Paul KE6NPL-Don WA6TIL-Paul

2yrs= KN6HE-Jim KB7RAG-Mike

1yr= KD6KHS-Mike N6JHR-Sam

N6XCC-Jim KD6SZO-Bud K06CR-Mike

KD6TAR-Margaret KE6EKJ-Dan Cindy-Maynard

KC6NJY-Andy KE6BZD-Ron

KE6GGQ-Paul KC6VVS-Candido KD6TLF-

John +KM6XV-Larry KE60HX-Dick

KC6PVN-Jeff Dave-Keyser WB6MAH-Mary

KF6C-Brian K06BX-Morris WB6TAW-Alf

WN6K-Paul N6GZI-Ed KD6PZB-Pat NE60-

Cooper

CHANGES: KA7MEN ->K06BX; WA6TIL->

WA6TIL/AG; KB6NMK-> KB6NMK/AG;

N6UWW-> N6UWW/AA.

If U didn't C UR name/call here but received UR SCOPE, then U R A MEMBER!

73, Ralph 727-7415

\*\*\*\*\*

V E T E S T I N G AA60M

\*\*\*\*\*

Test results for January 14th testing at the Carlsbad Safety Center in Carlsbad-

Tested 9 candidates for 18e1, 16 passes, & one no-show.

None->TECH: John Brown, Don Fitchett, Jim Rogers, Tom Tanner, Bob Cunningham, Hugh Ness and Leslie Silva.

Element 2: Norm Adler and Kyle Thompson.

TEST TEAM: Paul-KB5MU (team leader), Bill-WA6HYC, Bob-Chantrill, and Jack-KI6JM. The test team was short several members for this test session.

73, Rusty-AA60M

=PARC=

\*\*\*\*\*

FEDERAL BUREAUCRAT VIRUS: Divides your hard disk into hundreds of little units, each of which does practically nothing, but all of which claim to be the most important part of your computer.

AIRLINE VIRUS: You're in Dallas, but your data is in Singapore.

FREUDIAN VIRUS: Your computer becomes obsessed with marrying its own motherboard.

OLLIE NORTH VIRUS: Causes your printer to become a paper shredder.



\*\*\*\*\*  
 F O R E S A I L \*\*\*\*\*  
 \*\*\*\*\*

Sheets R-4 Beds!

Ph/send ads 2 W9FQN (C Ed's addr) B4 20th of mo. w/ur NAME, CALL, Ph #, & CITY. Personal ads FREE 2 members. Others cost 25c/col. line (35spaces). =SK=

\*\*\*\*\* N E W A D S \*\*\*\*\*

(1-14)TEMPO S-1/S-5/S-2 HT operating manual FREE at next club meeting: Stan W9FQN.

(1-13)MFJ-202B Noise Bridge \$30; B&W portable whip ant (10-40 +2m) \$20; Swan SW-140 40m xcvr \$25; AEA Isopole 2m base vert \$25: Duane AA6EE 789 3674 Ramona.

(12-30)RS HTX-202 2m HT used 3mo hv real base nw perfect \$200firm; Newmar 13.8vdc 8Amp pwr supply \$100f; Toshiba full size VHS camera w/video light pwr sup/bat charger hard case (needs bats) gud condx \$550; Motorola marine VHF 12chan 25w xmtr (rcvr too?) 13.8vdc 156MHz gud condx \$100: Carl KE6JQL 565 8130h or 525 8540 8-5:30pm.

(12-21)Tektronix Mod-575 transistor curve tracer \$100; HP Mod 170B dual trace, dual time base oscilloscope \$100 or best offer; scope card hvy duty \$25: Jack KI6RF 222 4209 after 6pm SD.

(12-20)Kenwood R-1000 Receiver \$300; Astron RS-35A Pwr supply \$130: Duane AA6EE 789 3674 Ramona.

(12-17)RS-232 programmable data terminals, 1ea C-ITOH CIT 101 & 1ea CIT 101E models, can emulate several common makes of data terminals w/man \$25ea: PARC John WB6IQS 727 3876 Vista.

(12-17)KLM KT-34 4el tri-band ant, 3 active el on 20 and 4 on 10/15, make offer: PARC John WB6IQS 727 3876 Vista.

(12-17)C-ITOH FX-86e as is for parts, head and P.S. seem OK but no print, take it away please: John WB6IQS 727 3876 Vista.

(12-16)Bubble Sextant MK.IX.A. in nice case (never be lost) WWYG?: PARC Stan W9FQN 749 0276 VC.

(12-15)EIMAC 4-400A tube low time \$45 or trade for low time 3-500Z low time: Dennis N6KI 271-6079 MMesa.

(12-09)Yaesu 470 \$275; ICOM IC-03SAT + Quick Charge \$325: Joe KC6QXU 749 8217 Valley Center.

(12-08)Lafayette HA-146 2m mobile \$35; SBE Del Mar Marine VHF radio \$30; RF Harris Marine VHF \$30; Chushcraft assorted FM Ringo antenna's 220, 440, 2m, VHF low band, lot price \$40; Johnson Fleetcom II VHF mod529 \$65; Johnson F. VHF mod527 \$40; Johnson VHF 242-501 \$25; Motorola UHF Maxar \$75; Standard UHF 4chan+ \$75; Zenith 100PC w/doc \$150: Alf WB6TAW 941 2428 Vista.

(12-04)KWM-2 + pwr supply great condition: Joey-NU6L 749 2699 VillyCtr.

\*\*\*\*\*  
 SAVE BIG ON '95 CALLBOOKS  
 North American or International  
 (retail \$35) \$26.95; Both \$51.95

Buckmaster HamCall CDROM \$39.95  
 QRZ! HAM RADIO CDROM (\$30) \$14.95  
 CICA Shareware for Windows \$14.95  
 Simtel DOS Shareware (\$30) \$14.95

'95 ARRL Handbook (\$30) \$27.95  
 ARRL Antenna Book 17ed (\$30) \$27.95  
 Now You're Talking (\$19) \$15.95  
 No-Code License Manual \$ 7.95

POSTPAID. Add 7% tax (CA orders)  
 Duane Heise, AA6EE (pd ad)  
 16832 Whirlwind/PRC02  
 Ramona, CA 92065 Ph 789-3674

\*\*\*\*\*-OLD ADS PRINTED ON ODD MONTHS  
 \*\*\*\*\* W A N T E D \*\*\*\*\*  
 "1 picture = 1,000 words"

PARC IS LOOKING FOR THE FOLLOWING ITEMS (old?) FOR THE REPEATER SITE: large & small hammer, axe, small wood saw, crowbar, & small scissors. We always seem to need some of these items when we don't bring them to the site -W9FQN.

FALLBROOK HIGH SCHOOL will take any and all donations of amateur radio equipment. We need radios, antennas, etc. (it's all tax deductible). Please contact Fritz Schattschneider, KE6EKY, at 723-6357 or Gayle Olson, KM6WF at 723-6402.

NUTS & BOLTS magazine Sept '94: Duane AA6EE 789 3674 Ramona.

**Jennifer A. Thieme**  
**KM6WG**

**Bookkeeper**  
**Accountant**

**(619) 599-1134**  
 770 Sycamore Ave. #J-126  
 Vista, California 92083

Need a new QTH  
 or  
 want to sell yours?

Call Clara Ziegler  
**943-8366**  
 to be your agent for  
 north county coastal  
 properties

**COLDWELL BANKER** **R REALTOR**

Expect the best.

**Pete W3ARU's XYL**

**Printed Circuit**  
**Board Design**

**J.T. (Tim) Low**  
**N6ZUC**

**Phone or Fax**  
**(619)735-9125**

**2946 Amanecer Place**  
**Escondido, CA 92027**

(01-08)Kenwood TS-140 & access.; Drake MN 2000 Tuner. Kenwood or Henry Amp.; Hal Tele-reader for mobile RTTY. for IOTA: Larry W7HKI 439 5855 0csd.

(12-20)Tube tester(TV/7); tubes Mullard 5AR4, WE 300-8, 2A3 triode, & AR-1 speakers: Bob 310 928 3889.

(12-17)Tektronix 900 series mod O'scope for parts to repair HV in my T922: John WB6IQS 727 3876.

(12-17)new antenna parts; Hy-Gain or equivalent 8 wire rotator Mod III/IV preferred w/control box; 3 100' runs RG-213/U or 214/U mil grade cable; 100' of 8 wire rotator cable and 2 or 3 inch O.D. pipe 20' long: John WB6IQS 727 3876.

(12-13)Ametron AL-80 amplifier; 4/5BTV vert ant; doorknob 850s type 50-70pf: Dennis N6KI 271-6079 Mira Mesa. =PARC=

\*\*\*\*\*  
B Y L A W S C H A N G E  
\*\*\*\*\*

The PARC Board has been looking at changing one of the club's bylaws and the following amendment (third) has been proposed to amend Section 8 (e) to read as follows:

- - - - -

(e) No later than the October regular meeting, the President shall appoint a nominating committee to select one qualified candidate for each elective officer and director position. The nominating committee shall make its nominations based upon its opinion of who is best suited, under all the circumstances, to serve the current and future needs of the corporation, regardless of whether its nominees are incumbent officers or directors. The nominating committee shall make its report at the November regular meeting. Members may nominate candidates for officer or director from the floor at the November meeting. Additionally, (pursuant to the California Corporations Code, section 5521) at any time that there are 500 or more Full Members of the corporation, members may nominate officers or directors by presenting to the President, at or before the November regular meeting, a peti-

tion signed within eleven months preceding the election by at least two percent of the Full Members. The nominating committee and others making nominations should ensure that each nominee is willing to serve if elected. Should the only candidate for a particular position die, become incapacitated or ineligible to serve, or withdraw his name from consideration, other candidates for that position may be nominated at the December regular meeting. The election shall be held at the December regular meeting, with the new officers and directors assuming their duties at the end of the December regular meeting. If there is only one nominee for an office, that nominee may be declared elected without the formality of a vote. If there is more than one nominee for a position, voting shall be by secret written ballot.

- - - - -

It is the intention of the Board to vote on this bylaw amendment at the February Board meeting. If the membership has any comments about the amendment, please contact one of the club's board members. According to the bylaws, this amendment is not one of those voted on by the club at large.

The purpose of this amendment is to clarify the original language used in Section 8 (e) which described what the club has been doing for years. =PARC=

\*\*\*\*\*  
L E T T E R S to the E D I T O R  
\*\*\*\*\*  
UR editor and the board reserve the right to publish/edit all letters.

(Field Day 94 -de N6SMW) Two factors significantly effected my plans this year: I ..heard that the El Cajon ARC ws not going to use their normal site on wind blown Mt Laguna FAA Dome site which meant I could camp at my favorite campground, Laguna/El Prado, about 5mi N. of the FAA Dome. I could dominate 10-20m SSB with my Butternut 'Butterfly' antenna! The other factor: I had purchased a 1975 Lance cabover camper & had

been refurbishing it ever since ..I was very anxious to finally use it.

With high hopes of finding a location that will make my ICOM 735 sound like God's commandments to Moses, I packed ALL my gear and lumbered off to Laguna Prado early Friday morning. ...I wanted the highest point in the campground with a clear opening to the North and Northeast, I needed some nice high pine trees to put up a 240' dipole so I could clean up on 75m, I needed a clearing for the Butternut, and lastly, I wanted some shade.

So much for my expectations. In reality I scored more bonus points than QSO points. My category was 1B and my score ws 636.

118 QSO's x 2 (<150w) = 236pts  
Bonus: Public Campground = 100pts  
Bonus: 100% emergency pwr = 100pts  
Bonus: Copied ARRI bulletin= 100pts  
Bonus: Handouts = 100pts  
===== TOTAL = 636pts

DK, not exactly something to include in "Where do we go from here" by Marti Lane, the famous DXer, but I enjoyed the contest and look forward to next year with a better campsite and a tribander. =SK=

David-KC6YSO thought the computer puns in the September SCOPE were "bad" and submitted the following in retaliation:

1)The network wasn't really sick. It just had a code in its nodes.

2)Mary and Joseph lost their hotel reservations in Bethlehem because of a computer failure. There was no ROM in the Inn.

David also suggested that the PAUL REVERE VIRUS should end with ..once if by LAN, twice if by C rather than C:> where "C" is now a language rather than a prompt on the screen. (Ok, David, basically IC a bit but need a mega window to PEEK what you GOTO to LOCATE your POINT -Ed).

MARIO CUOMO VIRUS: It would be a great virus, but it refuses to run.

\*\*\*\*\*  
- NEW HAMS -  
\*\*\*\*\*

(and some old Hams who forgot)  
Because of the large number of new hams which have been using our repeaters, PARC feels that it should let them know about ham traditions and little known facts. Send your questions, suggestions, and comments to your editor.

(Q) WHY IS SOMEONE BROADCASTING PACKET ON OUR VOICE REPEATERS? (A) Someone is using a transceiver for voice and for Packet. They probably forgot which frequency they were on last .OR its Kenwood's Digital Coded Squelch which sounds a great deal like a packet burst. Kenwood DCS is sending out a specific call to a specific station and with a "reader" you would be able to see the call letters of the sending and receiving station. It is a legal form of identification and does not need you to say your callsign although PARC wants to hear your voice call. Touch Tone Coded Squelch DOES REQUIRE YOUR CALLSIGN immediately after the TT coded call since you are only sending a string of numbers. Please do not use TT coded signals on our repeaters. Use this calling method only on simplex or a local repeater allowing TT coded signals. =SK=

(Q) WHY DOESN'T THE REPEATER HEAR ME TOO WELL SOMETIMES? There are many reasons for this and they are listed in order of the most likely: (A)  
1)you are in a bad location.  
2)your HT antenna is not vertical.  
3)someone is "helping your Signal"  
4)noontime signals are lower(3-6db)  
5)the weather is bad (rain/snow) or there is a temperature inversion.  
6)you are "off" frequency 5-10kc.  
7)you forgot your antenna.  
8)the repeater antenna/coax is bad.  
9)the repeater receiver is bad.

The reason given by most hams is either 8 or 9. The PARC Technical Group very seldom ever has to repair 8 or 9. The reason given by the Techs is usually 1-7 but with number three more often than we would like to see. Check the input

(your transmitter frequency) to see if someone near you is "helping" you (interference). =SK=

Always give your FULL CALL at the beginning of a contact, every 10 minutes, and when you sign off. This is one callsign more than the FCC requires. =SK=

Do not use the term "QSL" unless you are on CW! =SK=

On our FM 2m and 70cm repeaters you only need to make one call for the person you are trying to contact. If he is there, he will come back to you. Try again in five minutes. If you were on one of the HF bands, then you would want to call several times in a row on your frequency since your friend does not know exactly what frequency the two of you are on while on UHF/VHF our repeaters are crystal controlled so you don't have to hunt for your friend. He/she is either there listening and not listing so it does no good to call several times in a row like on HF frequencies. =SK=

When BREAKING into a conversation be sure you use the proper form:

- 1)Non-urgent ..... URCALL
- 2)Important ..... BREAK+URCALL
- 3)Emergency .... BREAK+BREAK+URCALL

In #1 you are indicating that sometime in the rotation of the conversation you would like to be included. LET THEM IN ON THE NEXT ROTATION or before.

In #2 you have something important which really cannot wait and should be taken care of now. LET THEM IN AS SOON AS POSSIBLE.

In #3 you have a true EMERGENCY and EVERYONE should immediately STANDBY and let the EMERGENCY station state his emergency and request for help.

Never us BREAK or BREAK-BREAK without your callsign! =SK=

The terms "XYL" and "YL" need to be applied properly. A YL is a young lady and an XYL is a ex-young lady. Your wife who is a non-ham is an XYL while your unmarried girlfriend is a YL. If one of your wives is a Ham then she is also a YL! This is in contrast to ALL men

and boys being QM's (Old Men). A Harmonic is a child from a YL/XYL fathered by an OM at someone's QTH. We hope this clears up any misunderstandings that you "new" hams might have had. =PARC=

\*\*\*\*\*  
P A C K E T Rod-AC6V  
\*\*\*\*\*  
CALLING CQ DIRECTLY(not on a node).

Although not many contacts are made by calling CQ directly, it is easily done and provides a means to contact new local stations without using a node. This would take some of the load of the nodes for local contacts. Also it is considerably faster because direct connections are utilized. Perhaps, PARC might recommend a little used packet frequency for the official PARC VHF PACKET direct contact frequency.

1)Tune to a VHF packet frequency and set your TNC for PAcKet mode. TNC's and software vary so see your instruction manual.

2)Command the TNC into the CONVERSE mode. For example, on an AEA 232, at the CMD: prompt, type CONV. Now anything you type will be sent out on the airways.

3)Type CQ CQ CQ DE URCALLSIGN URCALLSIGN URCALLSIGN (RETURN). Your CQ will be transmitted to any listening stations in VHF range. Stations listening for CQ's must be in the MONITOR mode.

4)The listening station may make a conect to you by typing C URCALLSIGN e.g., C AC6V.

5)When the QSO is over, break the connect, e.g., on an AEA 232, at the CMD: prompt type BYE.

Corrections, additions, or additional helpful suggestions shoud be sent to me or your editor ...73, Rod-AC6V. =PARC=

\*\*\*\*\*  
W O R K P A R T I E S W9FQN  
\*\*\*\*\*

Whoops, several more work parties before the end of the year.

(11-..) #47: Jo-KB6NMK and Gail-KM6WF in late November took care of an SK estate.

(12-29) #51: Bill-KB6MCU went to Palomar Mountain to Direction Find a signal in the 900MHz range that

was putting some bars in the W6NWG ATV picture. A location was obtained. Ridding "shot-gun" was Sybil-W6GIC. This was Bill's 3rd trip this week to the repeater site.

(12-30)#52: Bill-KB6MCU visited the FCC's data base in SD to locate the name of the company with the offending signal getting into our ATV picture and also to look up the commercial usage on another 900MHz frequency for W9FQN.

(12-30)#53: Marvin-WB6PKK and Ellen-N6UWV were on PMT to pick up the NODE SNDG which Marving is now the trustee. They then visited the W6NWG site to get a GPS reading on the site and then the local Fire Department site. They admired PRC's freshly painted "green" buildings. Our local site alarm again went off when PKK & UWV entered the site. Stan-W9FQN forgot to turn it off during their visit. =PARC=

\*\*\*\*\*  
- NEWS -  
\*\*\*\*\*

Contributions by the 20th

Please send "newsworthy" items 2-UR Editor Via PALBBS, letters, notes or at club meetings.

\*\*\*\* Congratulations to SCOTTIE HASKILL, KH6TL, and SIDNEY CHAVASSE, KE6ILN, on their marriage December 18th. Sidney obtained her license last Spring.

\*\*\*\* CAPPY CAPPELLA-KC6MVG sent in his QSL card which has a picture of Cappy and his very neat station which appears to work all bands and all modes. Cappy has moved now to P.O.Box 6401, Chula Vista, 91090-6401 and wishes all a HAPPY NEW YEAR.

\*\*\*\* A HAM has troubles seeing at night and would like to come to PARC meetings. If anyone is driving near Pomelo Dr. in Vista, please contact Paul at 726-5007.

\*\*\*\* BILL BOWEN, N6FMK, gave UR editor a copy of the Lincoln Co ARC NEWSLETTER which indicated that the Texas Assoc. of Realtors, Real Estate Ctr at Texas A&M U, and the National Assoc of Realtors in Washington, D.C., and a professor who teaches real estate appraising

at Texas A&M all indicated that ham antennas, as far as they knew, have no effect on adjacent property values.

\*\*\*\* Berand-WB0YCQ (Henry) recently received an ARRL Friendship Award for two-way communications with 26 amateur radio stations whose call signs end with each of the 26 letters of the alphabet.

\*\*\*\* PRICE CLUB is now selling a dandy HANDY POWER SYSTEM Mod I-6001 which can be charged from your car's 12VDC. The unit has outputs of 3v, 6v, 9v, and 12v at about 4-AHr and sells for \$20. It would keep an HT on the air for a LONG time (W9FQN).

\*\*\*\* BILL BENNETT, KC6YOX, was heard to have said on 146.73, "We DO have four seasons in San Diego Co!: early summer, mid summer, late summer, and next summer." =PARC=

\*\*\*\*\*  
F C C  
\*\*\*\*\*

In the 420-450 MHz 70cm band amateurs are limited to less than 50w output power within a 200 mile radius of Point Magu. Up to 1KW EIRP may be transmitted in the 435-438 HMz segment for satellite control but the antenna elevation angle must be >10 degrees elevation at it's lower 3dB point. =SK=

The FCC issued Notices of Apparent Liability to three citizen's band operators, for violations including using illegal power amplifiers. The fines were for \$1000, \$1500, and \$4000. =SK=

A list of eight individuals received fines ranging from \$250-\$6400 for "operating radio stations without proper authorization and operating on unauthorized frequencies." =PARC=

\*\*\*\*\*  
- PALOMAR ARC's 59th YEAR -  
\*\*\*\*\*

The Palomar Amateur Radio Club was founded in February of 1936 with its first meeting held in Escondido. The first meetings were held in members houses and as the club grew they held meetings in various north county locations: Vista, Oceanside, etc.

Membership originally came from Escondido, the Vista area, Ocean-side, Carlsbad down to La Jolla which is approximately the area covered by autopatch #1. =PARC=

\*\*\*\*\*  
- QUESTIONS -  
\*\*\*\*\*

If you have (Q)questions, please send them into the SCOPE editor or hand them to a board member. They will be printed on a "space available" basis unless they need to be answered immediately.

Q: I have been thinking of leaving something to the club when I go to the great Ham Shack in the sky. How do I go about doing this?

A: PARC has only received money donations from those who were alive although when a ham dies, their spouse sometimes makes a money donation to the club in their memory. Donations of equipment are sometimes done as follows:

1)PARC is given all of the ham equipment which it then disposes of: a)loans to a school club, b)sells and puts the money in the treasury for use at Field Day or at the Repeater Site, or c) uses the equipment in one of its programs.

2)PARC sells the larger items of equipment and gives the money to the surviving spouse. The spouse usually gives the smaller items and junk to PARC to sell and PARC keeps the money.

3)PARC sells the larger items and the spouse takes care of the rest.

NOTE: For any ham wishing to make a cash donation upon passing away, you have the option of including it in your will or instructing your spouse to make a cash or equipment donation in your name. These instructions should be in writing to your spouse.

\*\*\*\*\* SDCTN FLASH:  
PARC's SDCTN National Traffic Net needs someone to be net control on Wednesday evenings at 8pm. No experience necessary. Lots of On The Job training. PLEASE, WE DO NEED HELP!

## POOP -- What is it?

Reprinted from Worldradio, January 1995.

Here is part of a very good article written by Peter Eaton, WB9FLW, and Lyle Johnson, WA7GXD. Originally printed in April of 1986, it gives some insight on using a BEACON. I am publishing this as a result of grumbles from people who were asked to please not beacon. I hope this answers some of your questions. Marvin - WB6PKK

POOP is simply an acronym for Poor Operating On Packet. While it may evoke other thoughts in one's mind, the relationship between those other thoughts and poor operating practices is probably pretty clear and will not be further elaborated upon.

POOP -- How does one eliminate it? In order to eliminate POOP, one must simply not generate it. If it is generated, it will be passed onto packet channels, needlessly clogging them. While there are many varieties of POOP, it would be impossible to describe them all, several of the more obnoxious and prevalent forms of it are described.

If you have ever been around a pond, you have undoubtedly heard the loud and constant noise put on by frogs. It seems amazing that so small a creature can make such a disturbance! If you have ever monitored a busy packet channel (using your TNC), you have probably seen plenty of beacon messages. Here again, a large disturbance may be caused.

Beacon features were included in TNC software in the early days of packet when stations were few and far between. Like the frog on the pond, the noises were made to attract attention of like species - in this case, other packet stations. Unlike the frog, who settles down after he finds what he was looking for, many packeteers continue to send beacons, often of crowded channels. Some packeteers contrive clever beacons, to sound bells, clear screens, or print multiline declarations on the screen of all who can decode the beacon.

The proper rules governing beacons are simple:

1. Determine why you need to beacon. Beacons declaring that you are unavailable, or on vacation, are perfectly useless and mark you as a real POOPer. If the information you are attempting to convey is

important, perhaps leaving it as a message addressed to all on the nearest packet bulletin board station (PBBS) is a better alternative. On the other hand, if you are living in tornado alley and see a funnel, an urgent beacon would be appropriate.

If the purpose of your beacon is to let folks know you are around and want to connect, it might be better to just turn on the radio and let your TNC decode a few packets from other stations. This way, you can see who is on and then simply send a connect request rather than a beacon. Many TNCs support a MHEARD function, allowing you to see the contents of a buffer containing the last several packet stations heard by your station.

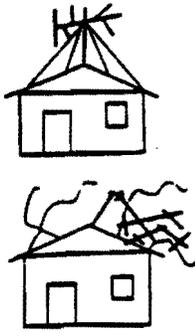
If you are convinced that you must transmit without listening for a few minutes (or if the channel really does appear dead), dropping into UNPROTO mode (CONVERSE mode from COMMAND mode without first connection) and typing a short CQ message (which may be as simple as a carriage return if UNPROTO is set to CQ) is preferable to beaconing one.

2. Compose the briefest possible beacon text. Cute beacons that fill a screen, sound bells, or clear screens will only mark your station as obnoxious. It is a classic way to lose friends and increase your count of enemies!

3. Use BEACON AFTER rather than BEACON EVERY. If the channel is busy, one-way broadcasts (which is, after all, what a beacon really is) are not welcome. It's bad enough to try and maintain a connection through a digipeater [remember, this was written in 1986, before nodes. ed.] or two without having a channel clogged by transmissions from unattended stations that come on the air every few minutes. Beacon AFTER with a value of thirty minutes will assure that you do not add to busy channel bedlam.

4. Don't send beacons more often than every thirty minutes, preferably even less frequently.

5. Digipeat beacons with care! Digipeating may cause a large number of local packeteers to be subjected to screens full of your beacon test. This may be desirable. Then again, it may not. Consider your motive and objective for your particular beacon, then set up the path.

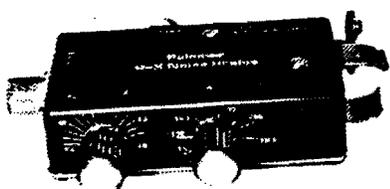


If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate! Radio systems installation, repair and removal, and interference resolution.

**Edward Ross, N6GZI**  
542-1405

# Antenna Specialties

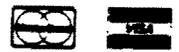
## R-X Noise Bridge



- Learn the truth about your antenna.
- Find its resonant frequency.
- Adjust it to your operating frequency quickly and easily.

If there is one place in your station where you cannot risk uncertain results it is in your antenna.

The price is \$79.95 in the U.S. and Canada. Add \$4.00 shipping/handling. California residents add sales tax.



Send for FREE catalog describing the R-X Noise Bridge and our complete line of SWR Meters, Preampifiers, Toroids, Baluns, VLF Converters, and Loop Antennas.

# PALOMAR ENGINEERS

Box 455, Escondido, CA 92025  
Phone: (619) 747-3343

# PARC Membership Application

AMATEUR CALL
CLUB MEMBERSHIP? <input type="checkbox"/> NEW <input type="checkbox"/> RENEW
ARRL MEMBER? <input type="checkbox"/> YES <input type="checkbox"/> NO
LAST NAME
FIRST NAME
STREET ADDRESS
CITY
STATE ZIP
HOME PHONE
WORK OR OTHER PHONE
HAM LICENSE EXPIRES
FAMILY MEMBERSHIP (List other calls and names)
CLASS OF LICENSE N T T+ G A E

Mail this form with your check to PARC, P.O. Box 73, Vista, CA 92085-0073 or hand to membership chairman at club meetings. We prefer checks to cash, it's safer and you have a record. Dues are \$12 a year which includes \$3 for the Scope, or \$21 for a family all at the same address. Consider paying for two or three years at a time to reduce the work for the membership chairman. Name, call and complete address are required. Telephone number is requested but may be unlisted in roster if you prefer. For notification of acceptance and an autopatch information and code sheet send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

\*\*\*\*\* I N S I D E \*\*\*\*\*

- 1-13 Next Meeting, 146.7Pkt, PALBBS
- 2-14 Editor .....
- 3-15 HRO & Comer Ads. ....
- 4-16 President Wavelength .....
- 5-17 Repeaters & Autopatches . Ads
- 6-18 LastMtg, AGOGO, Membership, VE
- 7-19 For Sale, Wanted .....
- 8-20 Bylaws Change, Letters to Ed
- 9-21 New Hams, Pkt, Work parties.
- 10-22 News, FCC, 59th, Questions & A
- 11-23 Packet, ..... Ads

\*\*\*\*\* JAN. SCOPE FOLD/STAPLE \*\*\*\*\*  
 Editor: Stan-W9FQM 30311 Circle R Ln  
 Valley Center, CA 92082-4806  
 KI6JM Jack Hanthorn, Folding Refresh  
 WA6Y00 . Harry Hodges . Staples  
 and Michelle  
 N6TCB . Jerry Carter . Sorting  
 KM6WG Jennifer Thieme Fold/Sort  
 W6TFB, Lloyd & Lisbeth Hunt Folding  
 KB6YHZ . Art Nye . Folding  
 KB6YHY . Anita Nye . Labels  
 KB6NMK . Jo Ashley . Labels  
 N6UWW . Ellen Utschig . Labels  
 KC6WAN, Ralph Powell, Printing, Labels

\*\*\*\*\*  
 - P A R C B O A R D -  
 Pres : Art McBride . KC6UQH 7418143  
 VPres: Sybil Albright W6GIC 2784284  
 Sec : David Doan . KC6YSO 2864888  
 Treas: Jennifer Thieme KM6WG 5991134  
 RptTec: John Kuivinen WB6IQS 7273876  
 SCOPE : Stan Rohrer . W9FQM 7490276  
 MemShp: Ralph Powell KC6WAN 7277415  
 Tech: Mike Doyle . AB6QT 7421573  
 Memb: Marvin Munster WB6PKK 7472223  
 \*\*\*\*\*  
 VE Program: Rusty . AA6OM 7475872  
 ATV/Edu. : Bill . WB6MCU 5822313  
 PALBBS : John . KE6CDH 6305289  
 \*\*\*\*\*

FEB'94 S.Call? : \_\_\_\_\_  
 (Sponsor's call not required)

SCOPE, US Post Office #076530  
 Published by: --- PARC, Inc. ---

POSTMASTER: Return to -> SCOPE  
 P.O. Box 73, Vista, CA 92085-0073

# Scope

2nd Class  
 Postage paid  
 at Vista CA  
 92085 - 9998

**PALOMAR AMATEUR RADIO CLUB**  
**W6NWX**  
 P.O. Box 73, Vista, CA 92085-0073

**OPEN REPEATERS**  
 (PL 107.2 Hz)  
 146.73-, 147.075+, 147.13+,  
 449.425-, 146.175+, all with  
 autopatches; 145.05packet,  
 146.70-RITY, 224.90-, & ATV

**Dues \$12/year. Information: (619) 749-0276**

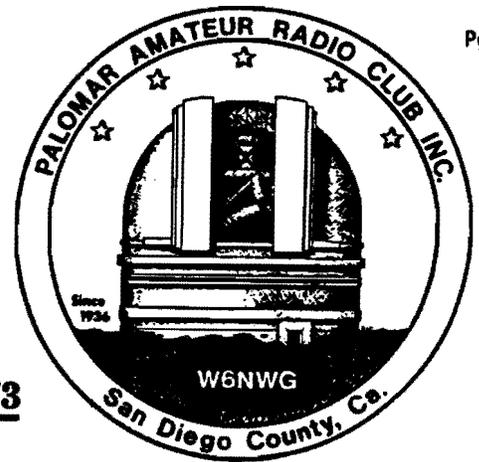
Vista	Mira Mesa	La Mesa	Fallbrook	Membership Expires PRC yy mm	License Expires LX yy mm
Palomar	Mountain				

Phone Codes  
 Deliver To

W6NWX W6NWX W6NWX W6NWX

# Scope

W6NWX



## Palomar Amateur Radio Club Inc.

Post Office Box 73, Vista, California 92085-0073

MARCH \*\*\*\*\* 1995 \*\* 59 YEARS OLD

Volume XXI Number 3

Published monthly by PARC, an ARRL Special Service Club. Membership \$12 including \$3 for SCOPE. Outside SDC \$4. Coffee 7pm, Mtg. 7:30pm @ Carlsbad Safety Center (CSC), Palomar Airport Rd. to M. on Camino Real (S11), east on Faraday .25 mi, left to CSC, TB 14F6.

Talk-in on 146.73

\*\*\*\*\*

OPEN REPEATERS / CLOSED AUTOPATCHES  
PARC PALOMAR MT. REPEATERS (W6NWX):

PARC W6NWX Trustee: Ron-WI6B  
Autopatches(4): 146.73-, 147.075+\*  
147.13+\*, 449.425-\*

PACKET: 145.050s; 70cm METRO LINK  
Duplex Packet Repeater 146.700(-)

SIMPLEX: 145.350s, 145.520s, 446s

ATV: 1241.25T(out)/Int-Comm 146.43s  
input 915.0FM/919.25AM; PL79.7Hz

ALL COVERING 2,000 SQ-MI OF S.O.Co.  
OTHER: 224.380-\*KK6KD; 224.9-\*WD6HFR

146.175+\*WA6IPD; \*107.2Hz  
PALBBS: (W6NWX-3), 145.07, 146.7(-)  
& METRO LINK; SysOp KJ6ZD

\*\*\*\*\* C A L E N D A R \*\*\*\*\*

Mar 1 Wed. CLUB MEETING Carlsbad SC

Mar 9 Thu. PARC 7pm Board Mtg WB6IQS

Mar 11 Sat. PARC VE Tests Carlsbad SC

Mar 24 Fri. Deadline 4-SCOPE articles

Mar 28 Tue. SCOPE mailed at Vista PO

Apr 3 NOVICE/TECH CLASS starts CSC

Jun 24-25 FIELD DAY EMERGENCY DRILL

Sep 11 GENERAL CLASS starts at CSC

\*\*\*\*\*  
L A S T M E E T I N G  
\*\*\*\*\*

Attendance was 98 members and 9 guests for a total of 107.

Jack-KI6RF gave an excellent program on emergency communications during his kyaking trip to the island of Kuawai. The video of the destruction as it was taking place

was awesome with many buildings being destroyed right before your very eyes.

SHOW & TELL had Stan-W9FQN showing the Price Club \$20 battery supply which has recently been reduced to \$10 at the San Marcos PC.

ART-KB6YHZ & Anita-KB6YHY made the coffee and supervised the drink and goodies ..and members bringing goodies: Art-KB6YHZ, Ron-KM6MM, J-KD6PBH, Bill-KM6PY, Paul-M6ISC and George-K6YK.

Goodies were great and you were rewarded with "1" participation ticket. =PARC=

\*\*\*\*\*  
NEXT MEETING - VPres. W6GIC  
\*\*\*\*\*

PLEASE COME EARLY and help set up chairs.

Sybil Allbright, W6GIC, has announced that the program for the February meeting will be George Mitchell, K6ZE, from Scripts Institute showing slides of his adventures exploring the high (and low) seas. Should be another great meeting so bring a friend ..or two.

(S)HOW & (T)ELL: See Sybil-W6GIC B4 meeting to reserve show time.

\*\*\*\*\*  
F I E L D D A Y N6UW  
\*\*\*\*\*

Each year hams vie for top score in what began as a test of operating skills. In '91, '92 & '93, PARC won top honors (1st place) in the 5A category with a huge effort led by Dennis, N6KI. Under adverse conditions, we have shown a true readiness to provide reliable communications by participating in this annual ARRL sponsored event.

In our club of 800+ members, we

are really fortunate to have a diverse pool of talent to utilize in our FD campaign. While some members may be proficient in technical matters, there are others who simply enjoy the challenge of trying something new or being part of a team effort. We're counting on each and every one of you to do what you can to make this year's Field Day effort a big success ...a learning experience for those who may not have ever had the opportunity to participate in Field Day and a high-scoring show of skill.

It's not just operators and loggers that make a successful Field Day. Every member's contributions are equally important. It's plans and strategies, safety, set-up crews, tower climbers, beverage brigade, loaned motor homes, generators, and clean-up crews. It's helping a new ham learn about contesting, a hands on lesson in disaster communication (FD '92 even came complete with major earthquakes!) from start to finish. It's Field Day!! Be a part of it!!

### FIELD DAY TEAM SIGN-UP

I want to be part of PARC's FD team in '95. I can help with:

- advice \_\_\_\_\_, experience \_\_\_\_\_
- motor home \_\_\_\_\_, generator \_\_\_\_\_
- operating \_\_\_\_\_, logging \_\_\_\_\_
- tower climbing \_\_\_\_\_, antennae \_\_\_\_\_
- set-up \_\_\_\_\_, safety \_\_\_\_\_
- backrubs \_\_\_\_\_, coffee crew \_\_\_\_\_
- logistics \_\_\_\_\_, SSB \_\_\_\_\_, CW \_\_\_\_\_
- clean-up \_\_\_\_\_, pep squad \_\_\_\_\_
- hf rig \_\_\_\_\_, uhf/vhf rig \_\_\_\_\_
- other \_\_\_\_\_

I've never been part of Field Day but it sounds like WAY TOO MUCH FUN. Count me in! (Yes/No). Please

bring a completed form or copy to the March club meeting or mail to N6UWW, Field Day Coordinator, 1050-19 La Tortuga Dr, Vista, CA 92083 (630-0950).

=PARC

KJ6ZD - P A L B B S - W9FQN

A packet bulletin from WB6DGR says:

THERE IS NO SUCH BBS AS ARESBB
THERE IS NO SUCH BBS AS CYTBBS
THERE IS NO SUCH BBS AS QNBBS
THERE IS NO SUCH BBS AS PALBBS!

PALBBS is an ALIAS and is not known by other RELAY BBS systems but only by LOCAL NODES and by PALBBS when you connect to it. To bring up PALBBS you issue a "C PALBBS" or a "C W6NWX-3".

When you list your HOME BBS with another system or send a message, always use W6NWX and not its ALIAS of PALBBS. From a message standpoint it would have been best "in the beginning" to only use FCC CALL LETTERS and not even provide for an ALIAS. An ALIAS does have an advantage of LOCALLY giving someone an idea of its LOCATION (PALMAR, ESCN, etc) or its USE (ARESBB, PALBBS, etc). =SK=

PARC stills has some of the instruction manuals left for PALBBS and W9FQN will have them at meetings only for 50c. The manual really helps you get the most out of PALBBS. =SK=

...and now more on PALBBS commands -

The Download command is used to read a file stored on the system. The format of the command is "D" filename where filename is the name of the file to down load. To see what files are available for downloading, use "W" command. To download a file in a subdirectory, use "D" dirname / filename.

"I" by itself gives hardware configuration of this system. "ID" gives a list of the ports and digipeaters / gateways available.

The Abort command can be used to abort the output from many of the BBS commands, like Download, List and Read for example.

The "M" command may be used to display the Message of the Day. Normally this message (if not empty) is displayed when you connect if you haven't selected Expert mode ("?X" for more info on Expert mode). If you have selected Expert mode, using the M command is the only way to see any Message of the Day. If there is no message of the day, you will simply get the next command prompt. The message of the day will advise you of new features and other important information.

The "U" command lists the current users of MSYS and what they are doing. The UP command may be used to upload ASCII files. You must be authorized by the SysOp to upload files. After you use the "UP" command you will be asked the file name to upload. Follow the prompts given by the command.

The "V" command gives the version of this software.

The What command lists the available files for downloading. The format- W- Lists all files with sizes. A directory name may be specified to list files names in directories that appear in the list.

The "P" command can be used to find the path last used by a station to connect to this system. The format is "P callsign". Example: P W1AW.

The information given comes from the station's use of the "N" commands and information recorded by the system. Try the "P" command with your own call to check the information the system has about you.

The "PF" command can be used to find out if this system knows how to forward mail to a particular BBS (what you would enter as @bbs in the "S" command). The port number and call of the BBS to which the message would be sent is displayed along with the VIA list used for the connect. If Net/Rom or KA Nodes are used to connect to the BBS to which the message would be forwarded to the fact is noted but the details are not given. If this system does not contain the requested

BBS in its forward file you get a message that the callsign is unknown. Example: PF WA8BXN. =PARC=
- FEB BOARD MEETING -
BOARD: KC6UQH W6GIC KC6YSO KM6WG
WB6IQS W9FQN KC6WAN \*AB6QT WB6PKK
(\*ABSENT).

OTHERS: KB6MCU N6UWW KI6JM.
The meeting started at 7:10 and ended at 10:07pm.

We munched on sweet morsels provided by John (low cal yum-yums). Club members are invited to attend Board meetings to observe the Board of Directors in action ..or non-action ..and receive one activity pt. for attending.

- HOURS -
DISCUSSED: \$3512 EquipBa1, \$4050 PrePd, \$4085 Gen Purpose, \$135 PALBBS, \$70 Post Office; 1000w amplifiers given to club at WAGY00's QTH and WB6IQS's QTH; Field Day (N6UWW) and KF6C computer xcvr offer; Emergency stations (N6KI & WA6Y00); Joe Taylor's new phone and loction; Bonsall & Fallbrook school classes; Expired members using autopatch; Site electrical bill \$120/mo; Interference QUALCOM 900MHZ; HX-1 \$700w amp worth \$500?; WB6PKK 145.05 packet mods; Club computer completed; Ham Shack at SD museum; Tubes moved from WA6HQM; KB6MCU training classes; W6ROP SK (non-club); ARES(BBS) data base; Meeting programs; Membership 820; SCOPE articals; UPS supplies; ARRL ads; and ???

APPROVED: TECH meeting change at WB6IQS's QTH Feb19th; \$35 to join Amateur TV network 4-one year; 3rd ammendment of By-Laws change; WB6PKK contact with QUALCOM; Minutes & finance reports; Next board mtg WB6IQS; \$25 4-Archie commics;

Contact a board member 4-info or C Secretary. 4-minutes. =PARC=

Be a good egg, send yokes to Editor NIKE VIRUS: Just does it.
JIMMY HOFFA VIRUS: Your program can never be found again.



The PREMIER source for Contract Engineering & Technical Services.

- Long or Short Term
• Direct Placement
• Payroll Services
• Employee Leasing

Steve Grant, N6RUV
Division General Manager
(619) 565-4992

ORGANIZING A NEW
IBM CLONE USER
GROUP

NOT Ham Oriented
No Packet, no RTTY

Meets 2nd Wednesday in
old City Hall in San Marcos
at 7:00 p.m.
Call 727-7415 for details

PRESIDENT's WAVELENGTH KC6UQH

Spring is in the air and the Amateur community begins the planning process for their next Field Day in June. PARC has been a serious competitor in the 5A category. I have appointed Ellen, N6UWW Field Day Coordinator for this year. Ellen has great organizational skills and a competitive spirit. Brian, KF6C has designed a revolutionary new H.F. Transceiver that utilizes a 486 Computer to control, filter, and process signals. As these functions are done in software, filter shapes can be easily altered and several transceiver boards can be phased to

give us directional receive and transmit at the call of a keystroke. Our goal is to work at least one contest with this equipment to give operators the familiarity with the equipment before Field Day. I hope that with the efforts of Ellen and Brian we can assemble a winning team this year. We also want to bring in new operators as future Field Days will depend on them. In order to win we need the support of all of our Club members and their skills to be a winning team. Brian will have his communication van with his equipment at our March General Meeting. Please come early. I think you will be pleasantly surprised at the performance of his equipment.

Coffee and Goodies are a very important part of any General Meeting. Unfortunately they are so important that they are usually overlooked until they are missing. Serving coffee and having hot water for other beverages is not an easy task when you are serving a group of over 120 people. Coffee pots are large and can not be plugged into the same circuit when brewing. This means that they must be moved when hot to the serving table. After the meeting they must be cleaned and then taken home and stored for the next meeting. Besides coffee, supplies of napkins, spoons, tea, cream, and sugar must be purchased and stored. Art, KB6YHZ, and Anita, KB6YHY, have for many years provided coffee and supervised the goodies table. I can not thank them enough for their efforts in providing the necessary ingredients to make our General Meetings a success. Art also helps to set up chairs and tables each meeting. I also would like to thank all the members who have helped him with the goodies table and have brought the delicious snacks that are on the table.

In December I was instructed to reply to a FCC Notice of Proposed Rule Making regarding the auctioning of 25 MHz of Amateur Radio frequencies in the 13 cm Band. I am pleased to announce that

those frequencies have been allocated to Amateurs on a Primary Basis. I am pleased to be a part of the process of not only saving these frequencies but gaining primary status in a Band we previously were secondary users. The ATN, ARRL, and many other Amateur Operators responded and we won this one!

An excerpt of my letter follows:

"If the Public is to benefit from new technology they will need a large pool of trained Scientists, Engineers, and Technicians to bring new products to the market place. The Commission in past actions, has wisely provided for training of Scientists, Engineers, and Technicians as stated in Part 97.1 (B),(C), and (D) of the Amateur Radio Service. I therefore recommend that the Commission, in the Public interest, assign the 2390 to 2450 MHz frequency spectrum to the Amateur Radio Service on a primary basis with Part 15 users allowed above 2402 MHz. The auctioning off of frequency spectrum without providing the human resources to develop new technology is short sighted and will not produce the best utilization of the frequency spectrum."

It is now up to us as Amateurs to use this secured spectrum wisely for new developments in communications technology.

73, Art, KC6UQH
=PARC=

MEMBERSHIP KC6WAN

NEW CLUB MEMBERS wanting confirmation of their membership and/or an autopatch information sheet and/or FCC 610 form should send to me at the club's address a (S)elf-(A)ddressed (S)tamped (E)nvelope (SASE) requesting same or see me at the next meeting.

The Board has authorized me to sell members for non-commercial use a disk with membership information. The disk sells for \$1 and I will provide FREE updates with a return of the ORIGINAL disk bought from

me. A short program will be on the disk allowing you to access club information.

ASSOCIATE members who have received their new calls should report them to me along with their expiration dates ASAP so that our records can be updated. =SK=

3yrs= WB9RKN-Roy Davis, & W2LUK-Dan Conover.

2yrs= K6RRP-Ray Zenick, & KD6FKL-David.

1yr= KE6LGY-Diana KE6BGI-Fred Less-Silva KE6LBY-Christina KE6LGV-Warren KD6PBH-JS KD6CKR-Larry Craig-Bauman Roberto-Cortez Martin-Cortez Esteban-Cortez Dave-KD6RSJ Rod-KE60CC James-KH6IIL Larry-K03W Tom-WA0IAK Perry-KD6YKV Don-KE6ECA Danny-KE6DSJ Larry-KE6EDS Lorri-KE6EDR Ray-KE6NMB Bill-KE6MTW Wayne-KD6EHN Tom-KE6PTZ Bruce-KJ5QQ David-WD6DRI Dianne-KD6FZQ Tony-KE60JY Galen-KE60XX Gary-AC6BV Ron-KE6MTR Bob-K6YGE Rick-KE6KDK & Joe-KE6PHB.

CHANGES: WB9RKN-> 7450 Keisha Ter. SD 92126;

If U didn't C UR name/call here but received UR SCOPE, then U R A MEMBER!

The following members received ONE point for sponsoring a new club member: N6INN

73, Ralph 727-7415

\*\*\*\*\*  
- QUESTIONS -  
\*\*\*\*\*

If you have (Q)uestions, please send them into the SCOPE editor or hand them to a board member. They will be printed on a "space available" basis unless they need to be answered immediately.

Q: Several of my repeater contacts have indicated that my HT has weak audio. I have increased my power from one watt to five watts and they still indicate that my audio is weak. Do I need a higher power amplifier and a better antenna?

A: No, you do not need an amplifier or a better antenna. The loudness of your audio is dependent upon the change in frequency (deviation) of your signal and not on the power (amplitude) being

received by the repeater. Pressing your push-to-talk switch causes your HT to broadcast one frequency (ie, 146.130 for the 146.730 repeater.

If you talk softly into your microphone, the 146.130 MHz transmit frequency might vary up and down from 146.129 to 146.131. If you talk louder, it might vary from 146.128 to 146.132. In the first case your deviation is 1kc (2kc total) for a soft voice and in the second case your deviation is 2kc (4kc total). As a limit you should never have a deviation more than 4kc or your signal should not vary more than from 146.126 to 146.134 for maximum loudness. The FCC limit is 5kc (10kc total) so that we do not interfere with other repeaters and frequencies near us. Tasma says maximum deviation should not be greater than 4kc and some even recomend not more than 3-4kc deviation for packet.

Note that in the above discussion NOTHING is said about power. LOUDNESS in FM is determined by the swing in frequency up and down from the basic REST frequency. An increase in power will do nothing to increase the frequency swing of your HT (or to increase your loudness). Remember, "FM" means FREQUENCY MODULATION which is much different from "AM" or AMPLITUDE MODULATION where loudness is in the amplitude of the signal. It is true that without power your FM signal will not be captured (heard) by the repeater but it certainly does not increase the loudness or audio level of your signal.

Many hams with HTs are told that they have a "weak" signal at one time or another or have weak batteries which immediately causes the HT user to start shouting into his microphone only to cause the "weak" signal to drop out of the repeater resulting in the signal even sounding weaker and more broken up.

If you SHOUT, you might make the HT frequency vary from 146.120 to 146.140 while the repeater receiver

is set up to receive 146.125 to 146.135 (5kc deviation). This means that you are loosing from 146.120 to 146.125 and 146.135 to 146.140 and you will not be into the repeater (drop out) during these frequency swings since much of the power is being wasted outside the receiver passband.

RULE: If your signal is weak, do not shout! In fact, speak with almost a loud whisper which will insure that all of your HT power is near the 146.130 receive frequency.

(Some liberties have been taken with this analysis but it basically describes the problem observed.)

DEFINITION

AMPLITUDE MODULATION: loudness information is carried in the AMPLITUDE of the signal and audio frequency info is carried in how rapidly the amplitude is changed. Lightning adds to the amplitude and AM radio hears these noise pulses. Total power varies.

FREQUENCY MODULATION: loudness information is carried in how far the basic frequency is varied from the rest frequency and the frequency of the audio information is carried in how rapidly the frequency is varied up and down from the rest frequency. Lightning does not change the frequency of the transmitted signal so you do not hear lightning noise. Total power remains constant.

A large number of "re-tries" in packet might mean that your FM deviation level is too high and you are actually "swinging" out of the receiver "best reception" area. How about a program on AM/FM? =PARC=

\*\*\*\*\*  
E D I T O R  
\*\*\*\*\*



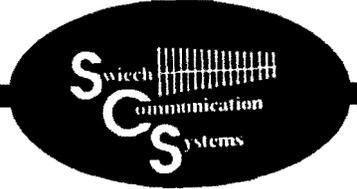
It always seems that space in the SCOPE is one of my concerns so sometimes submitted items are held for a period of several months until there is space available. Then the article is printed "as is" or undergoes some editing. The intent of the communication is never knowingly changed by your editor. =PARC=

# Radio and Test Equipment Repair

All Makes Reasonable Rates

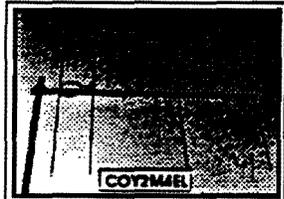
## Lou de Beer

ND6W  
(619) 437-8351

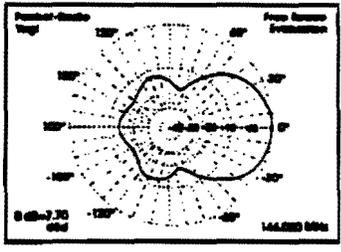


## Two Meter Yagi Great for Packet Radio or FM

Measured Gain 7.5 dBd



H-Plane beamwidth 60 deg  
Bandwidth 144.5-147.5 MHz  
SWR < 1.7 at Band Edge  
Impedance 50 ohm  
Silver Plated Teflon SO-239  
Maximum Power 500 Watts  
Chemfilm Treatment On Brackets  
Balanced Matching System  
Two Part RTV Potting  
Black Delrin Insulators



(619) 748-2286  
Gene Swiech, WB9COY

\*\*\*\*\*  
- AUTOPATCHES - W9FQN  
\*\*\*\*\*  
BE CAREFULL ON 911 calls! The 911 operators MANY (most?) TIMES need to transfer you over to another department: Fire, local police, STATE HIGHWAY, etc. This means that you should state the location of the EMERGENCY 1st and then ask if "THEY CAN HANDLE THE EMERGENCY." If they say YES, then continue with the needed information. If they say NO, then wait while they make the correct transfer.

If you get on the 911 phone patch and spend 10 minutes describing the EMERGENCY only to learn when you release your mic that the 911 operator is going to transfer you to another department, you are going to be REWARDED by being allowed to say it all over again.

Lets say you are reporting an injury wreck that took place in Valley Center. You might say, I'M REPORTING AN INJURY WRECK IN VALLEY CENTER. CAN YOU HANDLE THIS? Drop your carrier and listen for the reply.

Remember that while you are talking there is the possibility that the 911 operator is trying to talk to you ...and you will NEVER hear it while you are talking since this is not a real two-way conversation. =SK=

If you have tried using your auto-dialer for the phone number on PARC's patches and our patch does not respond properly, contact me (749-0276) for suggestions on how to make it work. Remember, the patch will not take the CODE plus the NUMBER all at one time. =SK=

It has recently come to our attention thru the club's autopatch monitor computer that there are quite a few ASSOCIATE members who are now using the autopatch system and the assumption is that they have obtained licenses. PLEASE contact our membership chairman, Ralph-KC6WAN, and get your NEW call recorded along with your license expiration date. =SK=

COMPUTER MONITOR  
# da time code phone end  
161 10 05:06 RXS 433-0195----->7#  
162 10 05:07 RXS 430-1957----->#  
#161 looks like a good telephone number and the wrong key was pressed when looking for the "#" key (or?). #162 shows what happened. There was a finger "bounce" or a rapid fade on the "3" digit making it two "3's" rather than one. Double digits accidentally occur more often on weak signals, 449.425 mobile signals, and when you have your snow gloves on. =PARC=

\*\*\*\*\*  
WB6IQS - REPEATERS - W9FQN  
\*\*\*\*\*

Club members are reminded that the last 1-3 letters of YOUR callsign are not legal identification. For the first time we are hearing stations breaking into conversations on our repeaters with ONLY the letters following the number rather than THEIR legal callsign. "YZZ" is NOT LEGAL but "N6YZZ" is legal. These comments also apply to the ending of a conversation which requires a legal callsign and to the ENTIRE use of the autopatch system. =SK=

A suggestion has been made that PARC use only 146.73, 147.13, and 449.425 as autopatch repeaters. Stations on 147.13 would have PRIORITY in the use of the frequency for autopatches with 146.730 being the backup. If there are problems with the other autopatch repeaters we can easily reactivate 147.075 with a control signal.

Of course, those with 449.425 would always have use of that repeater.

The 147.075 repeater could then be used for the new (T)ouch (T)one (P)aging calls by club members but ONLY with club registered TTP numbers.

Please address comments to a board member or UR Editor concerning these ideas. =PARC=

### TECH - REPEATER SITE MEETING

The Site-Tech meeting on March 12th was changed to Sunday, March

19th, with the following members and guests invited: John-WB6IQS Stan-W9FQN Ron\*WI6B Paul\*KB5MU Art-KC6UQH Mike-AB6QT Larry\*AB6LY Dave-KD6EBY Mike\*KD6VHI David-KC6YSO Bill-KB6MCU Marvin-WB6PKK Tim-N6ZUC Norbert-KJ6ZD Bill-KC6YOX Jorge-KK6KD Gene-WB9COY Sybil-W6GIC and Daniel-KD6DKM (\*=absent).

The 1:30 meeting started at 1:45 and ended at 5:45pm.

The following items were discussed with priorities assigned(\*)-

**BATTERIES:** \*24ea 1680Ahr of batteries at Mike-KD6VHI's QTH to be taken to hill this summer and \*installed in the old block building with repeaters to be removed (146.7 pkt, 439.05 METRO, 2ea 220 rpters, plus several others. Possibility of doing away with all repeater site AC supplies and attaching them to the battery system.

**BUILDINGS:** \*install outside lights, \*install two more metal buildings, \*add more alarms, \*more inside lights, \*mice, & \*trailer door.

**FENCING:** \*tower security and then general site security.

**TOWER:** \*complete grounding system, heliex filters on tower, \*AC line filters, and \*noise elimination between tower parts (\*antenna mounts and \*cross arms).

**CONTROL CODES:** \*make up 1-2 sheets of basic codes from seven pages of codes resulting from 10+ devices (old & new controllers, autopatch system, general, phone computers, simplex controller, packet control, PALBBS control, and ATV control).

**CONTROL OPERATORS:** KC6UQH, WB6IQS, and W9FQN to appoint. Control sheets to be completed covering general and specific control cases. These are to be given to the control operators when completed.

Major projects completed in 1994 were noted: autopatch upgrade, moved Vista autopatch to WB6IQS, moved control to WB6IQS, removed dangling antenna cables from tower, newer metal building installed, grounding system improved,

installation of 900 MHz and 1.2 GHz television repeater system along with 2.4 GHz links, and 1st stage conversion of 146.7 RTTY repeater to packet.

Past and Future project discussions --

**The 146.73** voting system to improve HT's getting into the repeater. Need receivers and transmitting frequencies.

**RTTY:** decoder/encoder for IBM computers shelved for present.

**TOOLS:** need drills, hacksaw, digital multimeter for battery check, adjustable wrenches, socket wrenches, etc.

**CABINETS:** Motorola with doors front and back, & KB6MCU to provide GE cabinet for 147.075 repeater.

**CONTROL:** do away with modum control idea due to other methods available.

**MONITOR:** packet monitor of batteries, temperature in buildings, outside temperature, etc.

**PACKET SPARE:** 145.05 spare (emergency) NODE started.

**CONVERSIONS:** need help in converting 4-5 154 MHz Micor radios to amateur band. Approximately 20 capacitors need to be changed or padded ..then tweaked.

**SHARPEN IF:** add IF down converter to 455 KHz to sharpen IF of 146.73 and also 147.075 MHz with KC6UQH design.

**PL ADDITIONS:** not approved since their application would add "time delays" in the circuits.

**6-METERS:** pictures of three six foot cavities, testing at KC6YOX, TVI discussions and implications, approval to test at PARC site.

**146.7 PKT:** converted MFJ-170B to be converted to regenerate 1200bps signal and to be used also as a NODE. Circuit provided by Paul-KB5MU. Discussion of higher speeds to be implemented later.

**220 REPEATERS:** 224.9 to be completed by June and installed in another building. Their tower to have weights added for easier lowering. 224.38 also to be moved and possibly added to autopatch system via link or switch. Antenna or heliex problems to be resolved.

**REPEATERS:** standardization of plug-in controllers, AC power failure beepers, 3rd harmonic problems, 455KC IF's, link connections, etc.

PARC can use a lot of help with the above projects. We need members to help with construction, moving, supporting, etc the many work parties which we will be having this spring, summer, and fall. Please consider working on 2-3 of our work parties this year.

Many of the projects are not very complicated and you would receive advice, direction, and help from those detailing the projects. Contact W9FQN, WB6IQS, or KC6UQH to get added to the work projects.

**WELDING HELP:** need people with experience in welding who can assist or help with the welding projects converting the block building into a new battery building. Mike-KD6VHI is in charge of the project.

**FENCING:** some experience in installing metal fencing to be placed around the 80' tower.

**TOWER:** need ground support for finding tools & hauling them up to the workers on the towers. We also need tower climbers with experience who can pass PARC's climbing test.

**MONITOR:** several members needed with packet experience who would be willing to install a special packet interface (plug it in) to 145.05 or 146.7 and to install connections to measure battery voltages, wind velocity & direction, inches of rain, temperatures (building, outside, repeaters, etc), open doors, and anything else you can measure. These measurements can then be accessed by club members.

**CONVERSIONS:** need several members to help with the modifications of the Micor radios to the amateur bands so that they can be used with future PARC projects and as spares to our existing equipment. Should have some experience with radios and their modification or be good at soldering and doing what you are told!

**GENERAL:** we always have need of people who can paint, dig shallow

# Printed Circuit Board Design

**J.T. (Tim) Low  
N6ZUC**

**Phone or Fax  
(619)735-9125**

**2946 Amanecer Place  
Escondido, CA 92027**

**Need a new QTH  
or  
want to sell yours?**

**Call Clara Ziegler  
943-8366  
to be your agent for  
north county coastal  
properties**



**Expect the best.**



**Pete W3ARU's XYL**

**Jennifer A. Thieme  
KM6WG**

**Bookkeeper  
Accountant**

**(619) 599-1134**

**770 Sycamore Ave. #J-126  
Vista, California 92083**



\*\*\*\*\*  
FORESAIL \*\*\*\*\*

Please, No Dinghies

Ph/send ads 2 W9FQN (C Ed's addr) B4 20th of mo. w/ur NAME, CALL, Ph #, & CITY. Personal ads FREE 2 members. Others cost 25c/col. line (35spaces). =SK=

\*\*\*\*\* NEW ADS \*\*\*\*\*

(2-1)Estate; Palomar M-827 SWR & PWR meter \$90: Duane AA6EE 789 3674 Ramona.

(1-14)TEMPO S-1/S-5/S-2 HT operating manual FREE at next club meeting: Stan W9FQN.

\*\*\*\*\*-OLD ADS PRINTED ON ODD MONTHS

(12-30)RS HTX-202 2m HT used 3mo hv real base nw perfect \$200firm; Newmar 13.8vdc 8Amp pwr supply \$100f; Toshiba full size VHS camera w/video light pwr sup/bat charger hard case (needs bats) gud condx \$550; Motorola marine VHF 12chan 25w xmtr (rcvr too?) 13.8vdc 156MHz gud condx \$100: Carl KE6JQL 565 8130h or 525 8540 8-5:30pm.

(12-21)Tektronix Mod-575 transistor curve tracer \$100; HP Mod 170B dual trace, dual time base oscilloscope \$100 or best offer; scope card hvy duty \$25: Jack KI6RF 222 4209 after 6pm SD.

(12-20)Astron RS-35A Pwr supply \$120: Duane AA6EE 789 3674 Ramona.

(12-16)Bubble Sextant MK.IX.A. in nice case (never be lost) WWY6?: PARC Stan W9FQN 749 0276 VC.

(12-15)EIMAC 4-400A tube low time \$45 or trade for low time 3-500Z low time: Dennis N6KI 271-6079 MMesa.

(12-09)Yaesu 470 \$275; ICOM IC-03SAT + Quick Charge \$325: Joe KC6QXU 749 8217 Valley Center.

(12-08)Lafayette HA-146 2m mobile \$35; SBE Del Mar Marine VHF radio \$30; RF Harris Marine VHF \$30; Chushcraft assorted FM Ringo antenna's 220, 440, 2m, VHF low band, lot price \$40; Johnson Fleetcom II VHF mod529 \$65; Johnson F. VHF mod527 \$40; Johnson VHF 242-501 \$25; Motorola UHF Maxar \$75; Standard UHF 4chan+ \$75; Zenith 100PC w/doc \$150: Alf WB6TAW 941 2428 Vista.

HIGHWAY ELECTRONICS:parts,(new/old) military. Ask 4Nick,967-7225 2 C 1f open(10-3pm),305 Wisconsin Ave,Ocsd

(12-04)KWM-2 + pwr supply great condition: Joey-NU6L 749 2699 VillyCtr.

(11-28)52' crank-up Tri-Ex Twr HZ-354N w/new never used elect motor asking \$600; large assort PC software; original disks manuals; Windows & DOS; IBM Quietwriter Printer cut sheet setup only \$40: Mark KC6CZO 739 1533 eve/wk ends.

(10-15)Kenwood 2m xcvr (5230?): Ralph 728 4053

PLEASE LET ME KNOW IF YOU BUY OR SELL SO I CAN TAKE OUT THE AD!

\*\*\*\*\* WANTED \*\*\*\*\*

"A few good men" or "women"

PARC IS LOOKING FOR THE FOLLOWING ITEMS (old?) FOR THE REPEATER SITE: large & small hammer, axe, small wood saw, crowbar, & small scissors. We always seem to need some of these items when we don't bring them to the site -W9FQN.

FALLBROOK HIGH SCHOOL will take any and all donations of amateur radio equipment. We need radios, antennas, etc. (it's all tax deductible). Please contact Fritz Schattschneider, KE6EKY, at 723-6357 or Gayle Olson, KM6WF at 723-6402.

(2-1)Manual for Heath HW-101 xcvr; 2m 20-50w mobile xcvr; 3el tri-band beam: Duane AA6EE 789 3674 Ramona.

(01-08)Kenwood TS-140 & access.; Drake MN 2000 Tuner. Kenwood or Henry Amp.; Hal Tele-reader for mobile RTTY. for IOTA: Larry W7HKI 439 5855 Ocsd.

\*\*\*OLD WANTED PRINTED ON ODD MONTHS

(12-20)Tube tester(TV/7); tubes Mullard 5AR4, WE 300-B, 2A3 triode, & AR-1 speakers: Bob 310 928 3889.

(12-13)Ametron AL-80 amplifier; 4/5BTV vert ant; doorknob 850s type 50-70pf: Dennis N6KI 271-6079 Mira Mesa.

(10-22)Vibroplex or McElroy bug (reasonable): Sandy K6HE 745 6940 Escondido.

(10-21)Weller soldering unit TC-201 or similar and one PC Board vice: Nash W6HCD 940 1028

Fallbrook.

PLEASE REPORT UNWANTED ADS TO UR EDITOR!

(09-19)ICOM PS-740 or PS-35 power supply: Dennis N6KI 271 6079 SD.

(09-07)HEATH/SCHLUMBERGER frequency counter for spare parts, Mod SM-110A, SM-110B, or SM-110C: Bob WA6QQQ 723 2700da Flbrk. =PARC=

\*\*\*\*\*  
V E T E S T I N G A A 6 0 M  
\*\*\*\*\*

Test results for Feb 11th.  
Tested 6 candidates for 7 elements with 5 passes. Two no shows.

None->TECH: Todd Switzer & Kyle Thompson.

Element 2: Tom Seymour & David Moore.

TEST TEAM: Steve-N6RUV, Mark-AA6TR, Jack-KI6JM, Bill-WA6HYC, Jack-AA6UQ, and Bob-KE6VX.

73, Rusty-AA60M  
=PARC=

\*\*\*\*\*  
P A C K E T Rod-AC6V  
\*\*\*\*\*

In making a SELF TEST thru a node such as W6NWX-1 on 145.050 (simplex), type "C AC6V V PALMAR." (or the longer way, C PALMAR, wait for a connection, then C AC6V-1 to connect to your mailbox -Ed) This will connect you to urself to do a self test. When connected, you will receive a prompt "CONNECTED TO AC6V VIA PALMAR. Type in a message such as "HELLO SELF" and a few seconds later the message will be sent back to you. This could get boring! The "C" stands for connect and of course, substitute ur call for AC6V. "V" stands for VIA or "by way of" and PALMAR is the name of W6NWX-1. (Only six letters were allowed in the W6NWX-1 packet node chip causing us to drop the "0" from PALOMAR. -Ed)

To make a direct connection, three methods can be used-

A)Arrange with a fellow ham to meet at a packet frequency, these are listed in the ARRL Repeater Directory (page 474) and in general, range from 144.910 to 145.090 in 20kHz steps and 145.610 to

145.690 also in 20 kHz steps. These are simplex frequencies and no off-set is required.

From ur keyboard, type "C AC6V <RETURN>". Be sure to include the space between the "C" and ur callsign. <RETURN> is the RETURN key on ur computer.

Packet can be slow, wait for several seconds and if a connect is successful, ur monitor will prompt you with "CONNECTED WITH AC6V," if not a "RETRY COUNT EXCEEDED" will be received. You may not have sufficient signal strengths and will have to use a node which will be covered later.

If a connect is made, you can now type ur messages and when <RETURN> is pressed they will be sent. Be sure to hit return around the 80 column mark otherwise ur message may be truncated.

To terminate the QSO, type "BYE" or "DISCONNECT".

B)Tune to the packet frequencies and place ur TNC in the monitor mode. TNC's vary so see ur instruction manual.

Activity is indicated when you see a typical interchange such as: AC6V>W9FQN YO STAN, WHEN IS THE DEADLINE FOR THE SCOPE??

Using the same discretion as in any QSO in progress, you can contact a station AC6V by typing in "C AC6V" and proceeding as above in (A).

C)To call CQ on a Node such as W6NWX-1, type in "C PALMAR" to connect to W6NWX-1 on Palomar Mountain.

After you get a CONNECT to PALMAR, type in CQ ANYONE AROUND Tonight? <ENTER>. Note that you do not have to use ur callsign because you put that into ur TNC when you first set it up. The Node transmits "AC6V>CQ ANY ONE AROUND Tonight?"

A station wishing to reply does so by connecting to the CQ caller's callsign.

To check for stations calling CQ, type "USERS" and look for stations calling CQ.

When calling CQ, the node maintains ur CQ status for some predetermined time, usually 15

minutes or so. To stop the CQ, type another command or disconnect with a BYE or DISCONNECT. =PARC=

\*\*\*\*\*  
- A G O G O -

\*\*\*\*\*  
(3-89) ..for Sale table authorized at club meetings ..Joe-N6RVO constructed an operating table in the club's trailer ..took 70 minutes for W9FQN to silence a jamming xmtr on 146.73 ..Chuck-N6TJT took part in an organ dedication concert attended by many club members ..18MHz opened to amateurs ..Highway in Oceanside went out of business (THEY ARE NOW BACK IN BUSINESS -Ed) ..Bill-K6GJD moved to Show Low, AZ.

\*\*\*\*\*  
- N E W S -

\*\*\*\*\*  
Contributions by the 20th)

Please send "newsworthy" items 2-UR Editor Via PALBBS, letters, notes or at club meetings.

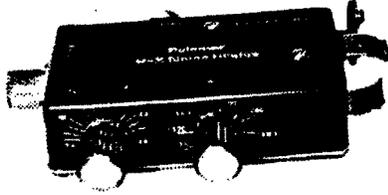
JOE-KC6QXU, Valley Center Station Manager, has been working dilligently to set up a RACES group for emergency operations. Joe has announced that there is now an EVAC Wing at Blackington Air Strip off of Old Castle road. =PARC=

\*\*\*\*\*  
- F C C - WA6UTQ

\*\*\*\*\*  
"1)The FCC has reallocated 50MHz of spectrum, including 2390 to 2400 and 2402 to 2417 MHz, from government use. ...at the same time, the FCC elevated Amateur Radio's status in those segments from secondary to primary. This means that amateurs will not have to protect any other user of those bands, and amateur stations are entitled to protection against interference. =SK=

#2)Amateurs will continue to have access to 902 to 928 MHz, on a secondary basis, to the new LMS systems to industrial, scientific, and medical systems and to government users. Unlicensed low power part 15 users are on a secondary basis to all the above (de ARRL Bulletins). =PARC=

# R-X Noise Bridge



- Learn the truth about your antenna.
- Find its resonant frequency.
- Adjust it to your operating frequency quickly and easily.

If there is one place in your station where you cannot risk uncertain results it is in your antenna.

The price is \$79.95 in the U.S. and Canada. Add \$4.00 shipping/handling. California residents add sales tax.



Send for FREE catalog describing the R-X Noise Bridge and our complete line of SWR Meters, Preampifiers, Toroids, Baluns, VLF Converters, and Loop Antennas.

## PALOMAR ENGINEERS

Box 455, Escondido, CA 92025  
Phone: (619) 747-3343



If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate! Radio systems installation, repair and removal, and interference resolution.



**A** Edward Ross, N6GZI  
**S** Antenna 542-1405  
**Specialties**

\*\*\*\*\*  
- TECHNICAL -  
\*\*\*\*\*  
Ur Editor will accept items submitted by the membership.

- EMI IN THE SKY -  
Electronic items carried onto commercial airplanes can cause problems. Electro Magnetic Interference has been observed coming from: laptop computers, AM radios, UHF TV receivers, electronic games, personal organizers, micro-controllers, etc. ..and of course from amateur transceivers transmitting and even receiving.

The emission can be on a fundamental frequency or some higher order harmonic ..or some sort of weird mix in an aircraft receiver (detector).

Passengers have been arrested for operating electronic devices aboard airplanes so don't operate anything without permission unless you want to place YOUR plane in danger of an accident. Radiated fundamental frequencies or harmonics can fall within one or more of the following airplanes receivers:

- Omega navigation ..... 10-14 kHz
- Airborne dir finder .. 190-1750 kHz
- High Frequency HF ..... 2-30 MHz
- Marker beacon 74.85, 75, 75.15 MHz
- VHF omni dir range .... 108-118 MHz
- VHF communication ..... 118-136 MHz
- VHF communication ..... 225-399 MHz
- Glide slope/VHF ..... 328-335 MHz
- Distance measuring .. 960-1220 MHz
- Terminal collision .. 1030-1090 MHz
- Global position ..... 1575+- 2 MHz
- Satellite comm ..... 1529-1661 MHz
- low-range altimeter ..... 4.3 GHz
- Microwave landing ... 5.03-5.09 GHz
- Weather radar ..... 5.4 GHz
- Weather radar ..... 9.3 GHz

The chart was taken from the IEEE Spectrum, Vol.31, Issue 2, p.21, Feb94 (de Dennis-N6KI).

The following chart is from the May 1993 issue of MODEL BUILDER, page 82. The chart shows the percent of capacity left in a nicad cell or groups of nicad cells relative to their voltage as measured by a DIGITAL voltmeter.

%	NO - LOAD VOLTAGE					
	----- cells ----->					
Cap.	1	4	5	6	7	8
100	1.42	5.68	7.10	8.52	9.94	11.36
90	1.37	5.48	6.85	8.22	9.59	10.96
80	1.35	5.40	6.75	8.10	9.45	10.80
70	1.33	5.32	6.65	7.98	9.31	10.64
60	1.32	5.28	6.60	7.92	9.24	10.56
50	1.31+	5.26	6.57	7.88	9.20	10.51
40	1.31-	5.23	6.54	7.84	9.16	10.48
30	1.30	5.20	6.50	7.80	9.10	10.40
20	1.29	5.16	6.45	7.75	9.03	10.32
10	1.26	5.04	6.30	7.56	8.82	10.08

For example, if you have a 6-cell HT battery pack and it measures 7.95 volts, then the battery pack has about 65% of its capacity left (between 7.98 & 7.92 which is between 70% & 60% (de Jerry-WB6FMT). =PARC=

\*\*\*\*\*  
- DONATIONS -  
\*\*\*\*\*

The Palomar Amateur Radio Club has been very fortunate to have members who look out for the club in various ways.

Some of our club members donate some of their little used equipment to PARC. Others must be scroungers at heart since they are able to find many things that the club can use "just lying" around.

It is really hard to start making lists of donate objects for fear of leaving some members out but the following are examples of where members saw something which the club could use and called it to our attention:

**SHED#1:** Mike-AB6QT discovered that the Palomar Observatory was going to destroy their old 8x8' photographic cooler which was metal inside and outside. It is now one of our new repeater buildings.

**SHED#2:** Mike-KD6VHI stumbled on an all metal radio shed meant to be buried partially in the ground that was going to be junked. It has now been moved to PARC's site for some future project.

**TOWER:** Bob Gonsett-WA6QQQ spotted a tower in San Diego not being used and it ended up being our 80' repeater tower on Palomar Mountain. Bob's father, president of Gonsett Communications had a

mobile communications container which PARC might find a use for after 5-years of storage.

**CEMENT:** John-N6MEI was able to "find" 16 tons of cement and rebar for the 80' tower when we needed it.

**TRAILER:** Our "new" trailer used as a storage area at the repeater site was "found" by a former club member who remembered us.

**RACK:** Ted-KD6AKT bought an outdoor repeater rack for \$15 and donated it to the club. It was not used for several years but when it was needed, it was used to open up the door to PARC obtaining the club's 147.13 repeater. Fifteen bucks never got us more!

**BATTERIES:** Larry-WA6UTQ spotted some good batteries that were no longer being used and the club ended up with 3,360Ahr of emergency storage. Mike-KD6VHI spotted a "good deal" which allowed the club to obtain another 3,360Ahr of new batteries at a excellent price. Parviz-KD6BCU found a large number of new 38Ahr batteries which ended up in three autopatch centers, two emergency power supplies (80V @ 76Ahr), and several small projects.

**GUD DEALS:** Many of our members let us know about "good deals" that they spot and the club has ended up with all sorts of communications equipment and related items.

**SCROUNGING:** Of course, our ACE scrounger over the years has been John-WB6IQS who can never pass of a good deal for something that we might use sometime in the future.

What can you do as a club member? Keep on the lookout for things which the club might be able to use in some present or future project. The item does not need to be electronic but something which would help the club perform its goal of providing communications to its members and the community during emergencies.

**We are looking for:**

**IRON PIPE:** 1-2" dia 2' to 8' long.  
**FENCING:** 40-150' for protection.  
**COPPER PLATE:** grounding projects.  
**TEST EQUIPMENT:** for repeater site.

**COMPUTER ITEMS:** let us know what.

**STONE:** repair of Rptr site road.

**LUMBER:** plywood, 2x4's, etc.

Use your imagination. Look at the "cast off" item and see if it can become something valuable to the club ...now or sometime in the future. Some of you work in "high tech" companies and the things which they "junk" could be our "treasures." Keep us advised of what you see.

PARC thanks all of its club members for their donations no matter how large or how small. Sometimes we don't go a good job of acknowledging donations but for the most part they are greatly appreciated and make the club stronger ...year by year. =PARC=

\*\*\*\*\*  
- NEWSLINE -  
\*\*\*\*\*

Club members are encouraged to listen to the THIS WEEK IN SAN DIEGO net each Sunday evening on 146.730 at 9pm when the syndicated NEWSLINE is played for us by Paul-KE6JXY who does an excellent job of obtaining NEWSLINE from Pasadena, CA, and playing it back for us each week.

NEWSLINE features amateur radio related news from the ARRL, amateur organizations, the USA, and around the world.

The rest of THIS WEEK IN SAN DIEGO lists information on club and organizational meetings, PARC nets, and other amateur radio activities in the San Diego County area for the coming week.

Paul has recently been picking up and playing the RAIN REPORT which is similar to NEWSLINE. =PARC=

**I'm Sorry**

I owe someone an apology I'm not sure who but I hope by putting this in the Scope any one who was inconvenienced or affected will get the message. I was in Ramona transmitting on the T-hunt frequency for the ROARS T-hunt. When I switched to my Icom radio on my T-hunt antenna, so that I could swing it around and confuse the hunters, it showed the T-hunt frequency but when I transmitted it changed to a different frequency not 600 away and back to the T-hunt again. I am sorry if someone was inconvenienced by my transmission of Indian drums early Saturday afternoon Feb 11th. I went back to my car radio as soon as I realized what was happening.  
Jo, KB6NMK

## ATN MEETING

The Annual Meeting of the Amateur Television Network was held on Feb. 11 at 1:30 pm in Guasti (off of I-10 near Ontario Airport). Annual dues were collected and a financial report was given.

There were approximately 60 people present and the Chairman of the meeting was Mike Collis, WA6SVT, (trustee of the Santiago Peak ATV repeater.) Mike spoke about the linking that is presently in place and those that are not quite finished. The link from Los Angeles to Las Vegas is complete and when the Palomar ATV repeater is linked to Santiago, we will be able to see and hear amateurs in Las Vegas.

The link to San Francisco is waiting for the Mt. Diablo Repeater group to finish the link to Mt. Breckenridge.

Mike introduced Bill Smith, KB6MCU to tell about the Palomar ATV repeater. Bill had Gene Swiech, WB9COY and Sybil Allbright, W6GIC come up front while Bill was telling about the progress we are making. Sybil brought a book of photos of the repeater and the site and it was passed around to all attendees.

There was a demonstration during the break of a mode radio controlled aircraft with ATV that sent pictures of all it saw as it swooped around the site. Mike climbed to the top of a 150 foot microwave tower and the plane tried to buzz him, but the person controlling the plane could not get that close.

The second half of the program was a discussion of how we would support the Mt. Breckenridge site. It was decided to continue paying site rental for one more year to see if the Northern California amateurs would complete the link and to tell them that we have committed for one more year to wait for them to complete the link.

Finally, several short tapes were played of ATVs that were very funny. One was a video of a work party visit to a snow bound site at over 8000 feet. Two people were on top of the tower and one pushed the other off. The next scene was a figure spread-eagled in the snow. "America's Most Wanted" was a skit about ATVs who use the Santiago ATV repeater. Many laughs later, the meeting ended.

Sybil Allbright, W6GIC

(Rptr de Pg.6)

trenches, haul ropes, and do the many thousands of little items that need to be done at the site. We also need an operator of our new vacuum to clean the insides and floors of our buildings along with someone who knows how to catch (?) mice. We need to plant some small trees and trim others along with making the site more beautiful and acceptable to our neighbors. We also need stone for our drive road.



# HAM RADIO OUTLET

"LARGEST HAM OUTLET IN THE WORLD"  
ALL MAJOR BRANDS IN STOCK NOW!

163 Clairemont Mesa Blvd



ritconcept

DIAMOND ANTENNA

US TOWER TELECOMMUNICATIONS



ICOM

K&Kantronics

KENWOOD

HUSTLER

BENCHER, INC.

MFJ

YAESU

COMET

OUTBACKER

AMERITRON



Astron



Larsen Antennas

hy-gain

Tri-Ex

TOT TEN-TEC

Open: 10a.m. - 5:30p.m.  
Monday thru Saturday

560-4900  
or toll free 1-800-854-6046

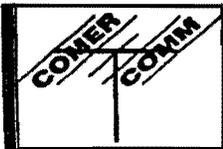
5375 KEARNY VILLA ROAD, SAN DIEGO

# RADWARE

The new HF DSP receiver / Exciter system with full spectrum analysis capabilities is now FCC Certified.

## LIMITED INTRODUCTORY OFFER

For a limited time we are offering a RADWARE card (unboxed) AND a Wearnes DSP Sound card for \$470.00 plus tax. Call Ron on 599- 0476 to place your order or see KF6C at the next meeting. Call the RADWARE BBS for more info 599- 0185

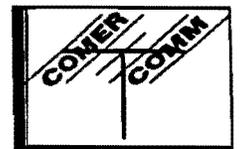


COMER COMMUNICATIONS, INC.

2598 Fortune Way - Suite I

Vista, CA 92083

(619) 599-0476



# PARC Membership Application

AMATEUR CALL
CLUB MEMBERSHIP? <input type="checkbox"/> NEW <input type="checkbox"/> RENEW
ARRL MEMBER? <input type="checkbox"/> YES <input type="checkbox"/> NO
LAST NAME
FIRST NAME
STREET ADDRESS
CITY
STATE ZIP
HOME PHONE
WORK OR OTHER PHONE
HAM LICENSE EXPIRES
FAMILY MEMBERSHIP (List other calls and names)
CLASS OF LICENSE N T T+ G A E

MAR'95 S.Call?: \_\_\_\_\_  
 (Sponsor's call not required)

Mail this form with your check to PARC, P.O. Box 73, Vista, CA 92085-0073 or hand to membership chairman at club meetings. We prefer checks to cash, it's safer and you have a record. Dues are \$12 a year which includes \$3 for the Scope, or \$21 for a family all at the same address. Consider paying for two or three years at a time to reduce the work for the membership chairman.

Name, call and complete address are required. Telephone number is requested but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

\*\*\*\*\* FEB. SCOPE FOLD/STAPLE \*\*\*\*\*  
 Editor: Stan-W9FQN 30311 Circle R Ln  
 Valley Center, CA 92082-4806  
 KI6JM Jack Hanthorn, Folding Refresh  
 W6TFB Lloyd & Lisbeth Hunt, Folding  
 N6WQR Bernice Rosenberg Folding  
 KB6NMK . Jo Ashley . Labels  
 N6UWW . Ellen Utschig . Labels  
 KC6WAN, Ralph Powell, Printing, Labels

## \*\*\*\*\* I N S I D E \*\*\*\*\*

- 1-13 Last-Next Mtg, Field Day ....
- 2-14 PALBBS, Board Meeting .....
- 3-15 President, Membership ....Ads
- 4-16 Questions, Editor .....
- 5-17 Autopatches, Repeaters .. Ads
- 6-18 Tech/Site planning session ..
- 7-19 4-Sale, ..... Ads
- 8-20 VE, Pkt, AGOGO, News, FCC ...
- 9-21 Technical, Donations .....Ads
- 10-23 Newslite, ATV Meeting, KB6NMK
- 11-22 HRO and Comer .....Ads

## \*\*\*\*\*

### - P A R C B O A R D -

- Pres : Art McBride . KC6UQH 7418143
- VPres: SybilAlbright W6GIC 2784284
- Sec : David Doan . KC6YSO 2864888
- Treas: JenniferThieme KM6WG 5991134
- RptTec: John Kuivinen WB6IQS 7273876
- SCOPE : Stan Rohrer . W9FQN 7490276
- MemShp: Ralph Powell KC6WAN 7277415
- Tech: Mike Doyle . AB6QT 7421573
- Memb: Marvin Munster WB6PKK 7472223

- \*\*\*\*\*
- VE Program: Rusty . AA6OM 7475872
- ATV/Edu. : Bill . KB6MCU 5822313
- PALBBS : John . KE6CDH 6305289
- \*\*\*\*\*

S C O P E, US Post Office #076530  
 Published by: --- PARC, Inc. ---

POSTMASTER: Return to -> S C O P E  
 P.O.Box 73, Vista, CA 92085-0073

2nd Class  
 Postage paid  
 at Vista CA  
 92085 - 9998



Frank-W86HFE has come home from the hospital after a serious operation. Cards and notes can be sent to him at 331 Redondo Dr., Oceanside 92057.

Phone Codes	Vista	Mira Mesa	La Mesa	Fallbrook	Membership Expires	License Expires
Deliver To	Palomar	Mountain			PRC yy mm	LX yy mm

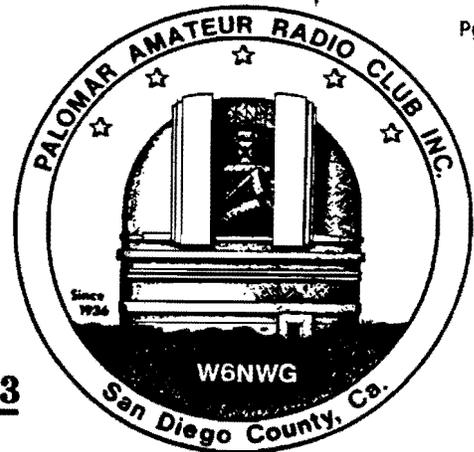
Meeting 1st Wed of MAR at 7:30pm in the Carlsbad Safety Center

C U There!

W6NWX W6NWX W6NWX W6NWX

# Scope

## W6NWX



### Palomar Amateur Radio Club Inc.

Post Office Box 73, Vista, California 92085-0073

APRIL \*\*\*\*\* 1995 \*\* 59 YEARS OLD

Dues \$12, Volume XXI Number 4  
Coffee 7pm, Mtg. 7:30 pm @ Carlsbad  
Safety Center(CSC), Palomar Airport  
Rd.to N.on Camino Real(S11),east on  
Faraday .25 mi,left to CSC,TB 14F6.

Talk-in on 146.73

\*\*\*\*\*  
OPEN REPEATERS / CLOSED AUTOPATCHES  
PARC PALOMAR MT.REPEATERS(W6NWX):

PARC W6NWX Trustee: Ron-WI6B  
Autopatches(4): 146.730-, 147.075+\*  
147.130+\*,449.425-\*

PKT: 145.052s PALMAR W6NWX-1 Open  
146.700- PALRPT W6NWX-4 Emerg  
BBS PARC PALBBS W6NWX-3 Open  
145.05/07/146.7- KJ6ZD SYSOP  
70 cm W6NWX-2 METROLINK Closed

ATV: 1241.25T(out)/Int-Comm 146.43s  
input 915.0FM/919.25AM; PL79.7Hz  
ALL COVERING 2,000 SQ-MI OF S.D.Co.  
OTHER:224.380-\*KK6KD; 224.9-\*WD6HFR  
146.175+\*WA6IPD; \*107.2Hz

\*\*\*\*\* C A L E N D A R \*\*\*\*\*  
Apr 3 NOVICE/TECH CLASS starts CSC  
and each following MonEve 7pm

Apr 5 Wed.CLUB MEETING, Carlsbad SC  
Apr 8 Sat.PARC VE Tests Carlsbad SC  
Apr13 Thu.PARC 7pm Board Mtg WB6IQS  
Apr21 Fri.Deadline 4-SCOPE articles  
Apr25 Tue.SCOPE mailed at Vista PO  
Jun24-25 FIELD DAY EMERGENCY DRILL  
Sep11 GENERAL CLASS starts at CSC

#### LAST MEETING

\*\*\*\*\*  
Attendance was 99 members and 7  
guests for a total of 106.

It is interesting to note that  
while PARC at present has no way of  
knowing which of our members are  
ARRL members, the sign-in sheets  
indicate each month that about 68-  
69% of our members who attend  
meetings are ARRL members also.

George Mitchell, K6ZE, of  
Scripts Institute of Oceanography

presented a slid program showing  
life aboard various Scripts  
Oceangraphic vessles which sail all  
over the world. The sea life was  
most interesting and pictures were  
shown of shipboard electronics  
(tube sets so the radios could be  
easily repaired) with amateur radio  
being encouraged aboard the ships.  
For our DX club members, it was  
good to see some of the places you  
have worked and it was interesting  
to note that they still used CW,  
RTTY, as well as SSB.

SHOW & TELL had Ted-KD6AKT  
demonstrating packet, Brian-KF6C  
showing his computer controlled  
BLACK BOX transceiver, and John-  
KD6CDH with his recently  
constructed "long-zero" decoder.  
Members with Touch-Tone decoders  
need to contact a control operator  
in person or W9FQN at meetings  
before using any decoder on PARC  
repeaters.

ART-KB6YHZ & Anita-KB6YHY made  
the coffee and supervised the drink  
and goodies ..and members bringing  
goodies: Duane-AA6EE, Bill-KM6PY,  
Paul-N6ISC, George-K6Y6K, Jerry-  
N6TCB, Becky-KE6BUE, Zack-KE6MQB,  
Fred-KE6BBI, Norm-N6QQF, and Mac-  
WB6GXR.

THANKS TO THE GOODIE BRINGERS  
FOR HELPING MAKE THE CLUB MEETINGS  
A BIG SUCCESS.

Goodies were great and you were  
rewarded with "1" participation  
ticket. =PARC=

\*\*\*\*\*  
NEXT MEETING - VPres. W6GIC  
\*\*\*\*\*

PLEASE COME EARLY and help set  
up chairs.

Sybil Allbright, W6GIC, has an-  
nounced that the program for April

5th will be April Moell, WA60PS,  
talking on amateur radio in  
hospitals as patient theorapy.  
April is married to Joe Moell,  
KØOV, who writes HOMING IN  
(direction finding) for 73  
magazine.

(S)HOW & (T)ELL: See Sybil-W6GIC  
B4 meeting to reserve show time.  
Ted-KD6AKT will again have a  
portable packet station in  
operation for those who are newly  
interested in packet or have packet  
questions and we will probably have  
Brian, KF6C, back with his computer  
controlled BLACK BOX transceiver.  
Ken-N6ALA will have a 20T ATV helix  
and Art-KC6UQH will have his dual  
ATV helix.

#### \*\*\*\*\* - P A L B B S P O R T 1 3 - \*\*\*\*\*

Our new PALBBS is progressing  
nicely and Norbert-KJ6ZD, SYSOP,  
has been operating a first class  
operation with transceivers on  
145.05, 145.07, and on the new  
packet 146.7(-) repeater. He also  
has an High Frequency port where he  
is able to send packets on 20  
meters.

Norbert has announced that he  
has added some new functions to  
PALBBS which will be activated dur-  
ing the first part of April (prob-  
ably by the 1st).

The first addition is PORT 13  
which can be used for many differ-  
ent modes of operation depending  
upon the commands given to it. This  
new port was only made practical by  
PARC's addition of the 146.7(-)  
duplex repeater which allows packet  
operators to access PALBBS in real  
time with only miro-seconds delay  
between your transmission and its

reception at PALBBS.

CW contacts are now possible using PALBBS! This is made possible by the user specification of a FREQUENCY, Power level up to 1,000 watts, selection of MEchanical or Electronic fist, and the Speed of transmission (ie., FR14.025, P0500, ME, SP13).

Your packets which are sent in ASCII format are sent to Norbert's spare 186 computer which controls a packet TNC in the CW or RTTY mode. Reception is the reverse of this going from the 186 to PALBBS and back to you. Another option is to specify RTTY and your transmission will be in RTTY format or AMTOR.

The 186 also has a voice algorithm in it which allows SSB transmissions from PORT 13 except that you need to customize the voice picking various parameters which make your "packet voice" sound like you want it to. It is suggested that you have a monitor receiver at your QTH to check on voice quality so that you pick something distinctive and to your liking. Crude parameters are: (MA)le, (FE)male, (HI)gh, (LO)w, (SO)uthern, (NO)rtheast, (CA)lifornia, (SP)anish accent, (NE)w York accent (like Dennis-N6KI, & others available in future releases). Each of the parameters are specified with a number of 1-5 depending upon how much of the parameter you would like to have in your computer generated voice. For example: MA5, FE0, HI4, LO2, SO4, NO1, CA2, SP5, NE2, etc. A semi-hesitating mode will be made available sometime this summer along with a "I have a COld" mode with various additional parameters.

The 186 also has a "voice recognition" algorithm which does an excellent job of decoding English but it sometimes needs modification according to the person that you are in contact with and this is where it is good if you have your own receiver and can hear the other station so that you can make the same modifications on their voice as you did on your voice in the preceding paragraph. We are trying

to get hold of a program which can be adapted to translate Spanish to English and back again so if anyone knows of such a program, contact Nash-W6HCD, net control of the Wednesday evening Spanish Net.

If you have many things that you say over and over again you can create a file which is stored at PALBBS and can be called up for transmission as needed during the contact (signal report, QTH, station configuration, what you did this morning, etc).

Of course, the advantage of this system is that if you have antenna restrictions or not enough money for expensive equipment, you can use your one watt HT packet station to work the world with all modes using Norbert's 2kw all band, all mode station with log antennas and computer interfaces.

Norbert hopes to add to PORT 13 an ATV station furnished by Art-KC6UQH, PARC's club president. This project is moving a little slowly since Art has become president of PARC.

The system is fairly simple. The user scans in a series of photographs into his computer or has someone scan it into their computer and then transfer the scanned pictures onto a disk for your computer. The scanned file is examined and all dots (pixles) are converted over to "."'s (periods) which then can be sent by your packet station to PALBBS where the 186 converts the periods back to pixles and then this is sent to PARC's ATV station on Palomar Mountain (constructed by Bill-KB6MCU).

Your reception is a little more complicated since the voice recognition circuit has to convert the voice sounds over to the printed form to overlay on the ATV signal and the pixels being received from the ATV station must be sent via packet to your station through PALRPT (W6NWX-4), 146.7(-) on Palomar Mountain with the addition of a compression routine which takes advantage of a little known IBM routine that allows zero (0) pixel space between sent characters

and also allows for line height compression in the vertical direction. This command is automatically sent before all PALBBS ATV pictures sent to you so that your IBM sees the "."'s (periods) being sent close to each other (touching each other) with the line's vertical space condensed so that each line is one (1) dot tall. Obviously, this is really what TV is. It is a series of dots running across the screen with the next row of dots immediately below it. Hence, you will see the ATV picture on your computer screen. According to John-KD6CDH these little known line compression commands are not available on non-IBM computers.

This method of generating ATV allows ANYONE with a packet station to participate in PARC's ATV endeavors.

The sending of ATV pictures was first suggested by Paul-KB5MU, and Bill-KC6YOX. John-KD6CDH did the specialized programming needed for synchronization of the dot frames being sent with IBM compression routines. A patent is being applied for in the name of PARC and contacts have been made with MFJ and several other manufactures for PARC royalties on PARC's IBM BBS program modifications.

Norbert needs to be complimented by the packet community for providing the addition of CW, RTTY, AMTOR, SSB, and ATV to PALBBS. This is the first packet BBS in the United States and the world to support all of these modes.

The PARC Board has voted to present to Norbert at the next club meeting a plaque for his outstanding contributions to the Packet community of San Diego County. They have also voted to provide instruction sheets at the next club meeting for free to all asking for the 115 page booklet.

This project was entirely funded by PARC's profits from last years Ensenada trip which netted (Cont.pg11).





The PREMIER source for  
**Contract Engineering &  
 Technical Services.**

- Long or Short Term
- Direct Placement
- Payroll Services
- Employee Leasing

**Steve Grant, N6RUV**  
 Division General Manager  
**(619) 565-4992**

**ORGANIZING A NEW  
 IBM CLONE USER  
 GROUP**

NOT Ham Oriented  
 No Packet, no RTTY

Meets 2nd Wednesday in  
 old City Hall in San Marcos  
 at 7:00 p.m.  
 Call 727-7415 for details

\$3870 Gen Purpose, \$4493 PrePd, \$154 Post Office; Shifting checking account funds over to savings account; Shown 146.7 duplex packet repeater; Packet names W6NWX-0 to -5; Novice Tech classes; Letters to speakers; Electricity at site; SCOPE payment probs; Membership problems; Technical programs; SWIECH ads dropped; Emergency stations; Membership 828; 501(3c) status; PARC 5 stars; SHOW & TELL; SCOPE items; ATV control; APRS system; & Autopatch computer logs.

APPROVED: Next Board Meeting at John-WB6IQS's QTH; May and June meetings at Stan-W9FQN's QTH because of Field Day; July meeting at Sybil's QTH; PARC new stationary by Jo-KB6NMK; \$25 for Rain report; & Meeting Programs.

Other items brought up by committee heads were approved but not voted on since they fell within their normal duties as committee heads and there were no objections voiced.

PARC members are reminded that equipment monies are generally depleted during the warmer months and "pile up" during the winter months when there is less activity. Pre-paid dues are for the club years following July 31, 1995. General purpose funds are operating funds used for normal club activities with almost \$1,300 being allotted to the remaining Newsletters.

Total available funds tend to drop to their lowest point on July 31st of each year limited by the amount of pre-paid dues and unspent equipment funds.

Contact a board member 4-info or C Secretary. 4-minutes. =PARC=

PRESIDENT'S WAVELENGTH KC6UQH

Having passed the first day of Spring our attention is now focused on the annual refurbishing of our Repeater site and preparations for Field Day. The Repeater site work parties give our members an opportunity to see our equipment they use, while assimilating fresh mountain air. We have a number of pro-

jects planned for this year and several new proposed projects as a result of our last technical meeting in February.

Stan, W9FQN, is our Repeater Site Chairman. He oversees the Land, buildings, antenna towers, work parties, utilities, construction permits, and road access. Stan did all the structural engineering for the tower permit, and excavated the ground for the base of the Tower. He also supervised the pouring of concrete and re-bar for the base. Stan makes many trips to the site each year and supervises all work parties. He did the engineering and supervision of our lightning protection system. Stan also is seen climbing the tower more than anyone else.

John, WB6IQS, is our Repeater Technical Chairman. John has been responsible for our Repeaters for 15 years. In addition to maintaining the old 146.730 repeater he built two packet repeaters and the old 449.425 "MSY" repeater as well as the control system that is still in use. John has appointed several Club members to build and maintain our Repeaters. John is still responsible for the 145.050 packet and the 146.700 (old 146.730) digital repeater. Thank-you John.

Mike, AB6QT, has built both the current 146.730 and 449.425 Repeaters. He also has built a test fixture for our controller cards. Mike also helps maintain all the repeaters as he lives on Palomar Mountain. He also helps with the work parties and is a great asset to our Club. Thank-You Mike.

Jerry, WB6FMT, has built two generations of the autopatch system including spare boards and a test fixture. Jerry has built a very unique system and is also a great asset to our Club. Thank-you Jerry.

Paul, KB5MU, and members of SANDPAC modified the 70 cm packet Repeater. John, WB6IQS, built the 9600 Baud repeater and is responsible for the maintenance. (Metro-Link) Thank-You Paul, SANDPAC and John.

Mike, KD6VHI, has spent many

\*\*\*\*\*  
 - MAR BOARD MEETING -  
 \*\*\*\*\*

BOARD: KC6UQH W6GIC KC6YSO KM6WG  
 WB6IQS W9FQN KC6WAN \*AB6QT WB6PKK  
 (\*ABSENT). AB6QT has been attending night school.

OTHERS: KB6MCU (training-ATV),  
 KD6JXY (Newsline).

The meeting started at 7:09 and ended at 9:29 pm. (WOW!)

We munched on sweet morsels provided by John-WB6IQS (low cal yum-yums). Club members are invited to attend Board meetings to observe the Board of Directors in action ..or non-action ..and receive one activity pt. for attending.

- SECONDS -

DISCUSSED: \$3550 EquipBal,

weekends cleaning up the site, brought his own tractor to remove brush and leaves, dug the hole for new building he obtained and delivered to the site, helped with tower work, and obtained a new 5000 AHR battery bank that is being kept under charge at his QTH until this summer when we will install them at the site. Mike has obtained a great deal of hardware for the batteries and the control circuit wiring between buildings he installed at the site. Thank-You Mike.

Bill, KB6MCU, has built and maintains both an ATV Repeater and a spare 2 Meter Repeater that is currently being used on the 147.130 frequency while the 147.130 repeater is being rebuilt. The ATV fund of which Bill is a major contributor has spent almost as much as the Club paid for the whole site. ATV equipment is expensive and the system we have on site is well constructed. Thank-You Bill.

Dave, KD6EBY, who works on Palomar Mountain performs weekly checks on our battery system, adds water and adjusts the charging system to maintain the float charge voltage. Thank-You Dave.

Dave, KC6YSO, is almost always part of the work parties. Dave fills in where ever necessary and with Bill, KC6YSO, will be installing a new 6 Meter Repeater. Thank-You Dave.

Marvin, WB6PKK, is working on new software with frequency deviation checking feature for the 145.05 packet node.

I have been performing maintenance on the 147.075 and 147.130 Repeaters.

In addition the following members have donated their skills and time to help us with our Repeater site this past year: Alfredo-KD6TYX, Benton-KK6LX & Dorothy, Blanca-KE6KTE, Bob-WA6QQQ, Brian-WB6CYT, Charles-KD6FQS, Chuck-KE6CDJ, Dale-KC6WZI, Dan-KD6DKM, Dave-KD6OBG, David-KC6VEC, David-KE6DRA, David-KC6YST, Dennis-KE6MQC, Dennis-KE6HZF, Dorothy-KA6NNB, Fred-KE6BGI, George-KK6KD, Gene-WB9COY, "J"-KD6PBH, Jim-NO6E,

Joe-N6YMD, Joey-NU6L, John-KE6JOI, Larry-N6VDZ, Ramon-XE2TRO, Ruben-KB6JGG, Salvador-XE2UGF, Skip-KD6RFQ, Steve-KD6ZST Sybil-WA6GIC, Tom-KN6BN & wife, Tom-KD4UFD, Tom-KE6HRL, and Zac-KE6MQB,

I hope more of our membership can find the time to join the work parties this year and the warmest Thanks to all those who have helped us in the past.

**\* A \* FIVE \* STAR \* NOTICE \* !**

\* We are mounting a serious effort for Field Day this year.

\* Field Day this year will be at Stan's, QTH (W9FQN).

\* Ellen,N6UWW is our Field Day Coordinator this year. GO ELLEN !

\* \* We need your (everyone's) help this year. Please contact Ellen and make this year a successful Field Day for \* YOUR CLUB \* \* P.A.R.C. \* \*

**\* OPERATORS \* TECHNICAL \* SETUP \* TEAR-DOWN \* EQUIPMENT**

\*\*\*\*\* P.A.R.C. WANTS YOU !! JUNE 23,24,25 1995 CATEGORY 5A \*\*\*\*\* 73, Art-KC6UQH =PARC=

\*\*\*\*\* M E M B E R S H I P K C 6 W A N \*\*\*\*\*

NEW CLUB MEMBERS wanting confirmation of their membership and/or an autopatch information sheet and/or FCC 610 form should send to me at the club's address a (S)elf-(A)ddressed (S)tamped (E)nvelope (SASE) requesting same or see me at the next meeting.

3yrs= KJ6FN-Ken

2yrs= KE6L BX-Dan Walker KJOP-Don WA6B00-Keith KM6PY-Bill N6TEP-Chas

1yr= KE6BX-? KE6OHT-Victor KE6BBX-Jim KE6BUE-Becky W6MYV-Gordon WA3W00-James Juan-Lopez KE6QIQ-John AB5XE-Erwin KE6DZK-Bob KE6PMR-Xiaonan N6EDV/AA-Scott KE6QBW-Brian KN6OL-Dan KE6QXM-Art W8M0F-Howard KA6PSG-Lee KE6CJQ-Bill KE6NPP-Ken AC6HZ-George K06IQ-Eric WN6S-Ron KC6JBQ-Vesta KE6NXY-Tom KE6NLZ-Leon KE6QIN-Jim K16KM-John KF6TG-Larry KE6FGG-Armand WA5UZM-Bob KE6DLO-Josh AH6IR-Rick KD6JPO-John KD6UBB-John KD6UBC-Kim

CHANGES: Assoc. Les Silva to

KE6QIM.

If U didn't C UR name/call here but U received UR SCOPE, then U R A MEMBER!

The following members received ONE (1) point for sponsoring a new club member: N6NNI (this is a correction of the reporting last month of N6INN who is a club member in Salt Lake City), and again, N6NNI for March.

To receive a point for sponsoring a new club member you will need to instruct the potential new member to write on his application that you are the sponsor. Otherwise, your editor is not aware of points to be awarded to members.

\*\*\*\*\* - N E W S - etc. \*\*\*\*\*

Contributions by the 20th

Please send "newsworthy" items 2-UR Editor Via PALBBS, letters, notes or at club meetings.

Harry-WA6Y00 has taken over the VE testing team in Escondido after many years (10) of faithful service by Tom Clark, N6CLO. Call Harry at 743-4212 for EARS testing information in Escondido. =SK=

Jennifer-KM6WG, PARC's YL treasurer, came up with a harmonic treasurer of her own: Joel, 7 lbs 2oz on 2-3-95. Of course, Jess-N6YRS, is the proud OM. =SK= Jo-KB6NMK recently passed her GENERAL exam and on the last Saturday in March she passed her Advanced with Harry's VE team in Escondido. =SK=

Joe Bonando, KC60XU, of Valley Center has done it again. Almost half a page of pictures and story in the April 1995 issue of QST with his WORKED ALL STATES T-shirt! He also has his California car license plates on the T-shirt. =SK=

The Ramona Outback Amateur Radio Society has been holding Hidden Transmitter Hunts once a month starting at the Ramona HS sometime after 1pm. Check with Jo-KB6NMK for the latest information or Stan-W9FQN. PARC members are invited to take part in these T-Hunts. =SK=

Jerry-WB6FMT sent a nice picture of snow in Denver during his trip.

=SK=

QTH

**Jennifer A. Thieme**  
**KM6WG**

**Bookkeeper**  
**Accountant**

**(619) 599-1134**  
 770 Sycamore Ave. #J-126  
 Vista, California 92083

**Printed Circuit**  
**Board Design**

**J.T. (Tim) Low**  
**N6ZUC**

**Phone or Fax**  
**(619)735-9125**

**2946 Amanecer Place**  
**Escondido, CA 92027**

**Radio and**  
**Test Equipment**  
**Repair**

**All Makes**  
**Reasonable Rates**

**Lou de Beer**  
**ND6W**  
**(619) 437-8351**

\*\*\*\*\*  
 - AUTOPATCHES - W9FQN  
 \*\*\*\*\*  
 Several new members (AND SOME OLDER) have experienced problems in not being able to get a "dial-tone" after dialing the correct autopatch codes (ie XYZ) which even show up correctly on the computer monitor station in Valley Center.

If these 3-digits are dialed too slowly, several TIME-OUT timers can get you. First, if the second digit (Y) is dialed several seconds after the first digit (X), the system time-out timer on Palomar Mountain will kill the patch at that location. If the third digit (Z) is dialed toooo long after the second digit (Y), then the remote local patch will kill the patch. The digits XYZ must be dialed all within several seconds of each other or the patch will be killed.

The computer monitor in VC has no timer so it will "see" the correctly dialed codes from Palomar Mt. even if the third digit is dialed several seconds after the "killed" autopatch.

**RULE: HIT THE FIRST DIGIT A LITTLE LONGER THAN USUAL AND THEN DIAL THE REMAINING TWO DIGITS WITHIN TWO SECNDS! =SK=**

The club's autopatches are available to club members who use them properly. If you do not use them properly, privlages can be revoked.

DO NOT CALL A PLACE WHICH HAS MUSIC! PARC DOES NOT ALLOW MUSIC ON AUTOPATCHES AND YOU, AS A ASSISTANT-CONTROL OPERATOR FOR YOUR CALL, ARE RESPONSIBLE IF YOU CALL A PLACE OF BUSINESS OR AN ANSWERING MACHINE THAT HAS MUSIC. TERMINATE THE PATCH IMMEDIATELY.

There are ways of cutting out the music so it is not heard over the repeater. When the music starts to play, press your PUSH-TO-TALK (PTT) switch and say, "YOURCALL (ie N6YZZ) running autopatch on REPEATER FREQUENCY (ie 147.13) at TIME (ie 2:15) --or something like that to "chew" up some time without leaving a dead carrier on the frequency. Then release your PTT

for an instant to see if the music is still there or someone is answering the phone. If the music is still there, then repeat what was said before again. Keep repeating this sequence until someone answers or you decide to hang up. In this way there will only a fraction of a second of music played at the end of each of your transmissions and you have effectively blocked out 99% of the music from the repeater. The best thing is not to call places where you expect music.

**AS AN ASSISTANT CONTROL OPERATOR FOR THE AUTOPATCH BEING RUN, YOU ARE RESPONSIBLE FOR EVERY WORD SAID AND FOR EVERY SOUND COMING OVER THE PHONE LINE BECAUSE YOU HAVE COMPLETE CONTROL OF WHAT IS GOING ON. IF YOU CANNOT ACCEPT THIS RESPONSIBILITY ACCORDING TO PARC RULES, THEN DO NOT USE THE AUTOPATCH SYSTEM (If we told you once, we told you a hundred times)!**  
 If music is played on YOUR autopatch call, YOU ARE RESPONSIBLE FOR IT!

There is no excuse for a member having music on your home phone answering machine or for "non-standard" answering material on it.

PARC would hate to have the number you are calling PLUS your home phone put into the computer BLOCKING LIST so that the number(s) cannot be called again. =SK=

From the computer monitor log:

No.	Time	sec.	code	number	down
318	6:57	19	XYZ	537-5139	#
319	6:57	42	XYZ	534-139	#
320	6:58	41	XYZ	537-4139	#
325	12:47	..	XYZ	222247261*	
355	21:32	54	XYZ	749-0276213#	

This sequence (#318) apparently shows a good number dialed of 537-5139 but the length of the patch (19sec) and a re-try right away probably indicates a wrong number dialed. No.319 was an incomplete number which the person waited on to hear the ringing which did not come because one of the digits was missing. We are now starting to see some of the same digits in #319 as #318.

No.320 probably was the correct

number indicating that in 318 the person hit a "5" when they really meant to hit a "4" while in No.319 it can be seen that there probably was a quick fade which took out the "7". The good thing about this sequence is that the caller shut down the patch each time with a "#" so that unwanted digits did not get added which could cause more problems with the next dialed number.

No.325 shows an example of someone probably in a very poor location possibly holding the "2" too long with probable "mobile flutter" resulting in multiple "2"s and then they did not close down the patch correctly with a "#" or there could possibly be another explanation for the last two places.

Computers and the telephone company cannot guess at what your intent is nor can they make up for your poor signal so you need to have a strong signal, sure hands, proper procedures, and good numbers all dialed within a given time frame to make it all work properly.

No.355 shows someone making a successful call and the three digits on the end (213) of the 7-digit phone number probably mean that it was a business call with an extension number, a call to a paging service, or a home phone where the answering machine is being interrogated with the TT's 213. YOU ARE RESPONSIBLE FOR EVERYTHING THAT COMES BACK TO YOU ON YOUR ANSWERING MACHINE (business calls, 4-letter words, love comments, etc). PARC DOES NOT WANT YOU TO INTERROGATE YOUR ANSWERING MACHINE UNLESS YOU KNOW YOU HAVE A SPECIFIC MESSAGE FROM A ==FRIEND==. YOU ARE RESPONSIBLE FOR ==EVERYTHING== THAT IS BEING SAID FROM YOUR ANSWERING MACHINE EVEN THOUGH ==YOU== ARE NOT SAYING IT! =SK=

The autopatches were turned off Sunday evening, March 12th, for 3+ hours because of non-technical problems. =SK=

It is really interesting to

observe how many amateurs who are members of ECRA come up on our 147.130 repeater and try to access the autopatch system using ECRA codes. They can be spotted easily because you can hear ALL of the digits being dialed and the repeater drops when they are finished dialing. They probably think they are on 147.030 which IS an ECRA repeater. =PARC=

\*\*\*\*\*  
NEWSLINE / RAIN Paul-KC6JXY  
\*\*\*\*\*

Club members are encouraged to listen to the THIS WEEK IN SAN DIEGO net each SUNDAY EVENING on 146.730 at 9pm when recorded items of interest are played as well as announcements of PARC nets and other non-PARC amateur radio club meetings.

NEWSLINE- for almost a year PARC has been playing NEWSLINE which comes to us from Pasadena, CA. The report carries items of interest to all amateurs with a lot of the news coming out of ARRL, FCC, and local and national politics of amateur radio. I record this program by calling the NEWSLINE headquarters.

RAIN REPORT- this is the Radio Amateur Information Network from Illinois and PARC now subscribes (\$25) to the weekly tapes on a one year trial basis. The RAIN report offers a wide variety of information that would not be considered mainstream ham radio news but should be of interest to club members.

For the past month we have been running both reports to see which report club members like best although there is the possibility that we will run both for the present.

These broadcasts come very close to what the FCC calls BROADCASTING (and frowns upon) but lumps this type of broadcast into a special area which is permitted such as: club announcements of programs, WIAW CW & SSB broadcasts, road condition advisories, weather advisories, public service type announcements, etc. The FCC is

aware of the NEWSLINE and RAIN reports being aired over repeaters throughout the USA.

The FCC frowns upon ONE-WAY broadcasts (you are in contact with no one) with the previous mentioned exceptions.

If you need a repeater during this Sunday evening net, please use one of the other club repeaters. =PARC=

\*\*\*\*\*  
REPEATER TECHNICAL WB6IQS  
\*\*\*\*\*

PARC'S RTTY duplex repeater on 146.700(-) has entered phase II of its modification to change it over to a full duplex packet repeater.

Many years ago PARC used to allow RTTY stations to broadcast RTTY signals on the 146.730(-) repeater with no modification to the repeater. The RTTY signals are composed of two tones and these were just repeated thru the repeater.

The 146.700 repeater, which is really the old 146.730 repeater bought by the club in the mid 1970's and used until 1994, was set up to intercept the RTTY tones and to convert them to DC pulses which in turn controlled two RTTY tones to regenerate the RTTY incoming tones. This meant that sloppy incoming tones were cleaned up and re-broadcast at the proper two frequencies and a known amplitude.

Phase I of the conversion of the 146.700 repeater to packet was nothing more than using the RTTY regenerator with an adjustment of audio tones to re-broadcast the packet tones. The phase I test indicated that the packet repeater idea was feasible although not 100% successful.

Phase II is a modified TNC-2 which uses the TNC-2 re-generator circuit to pass packets directly to the transmitter AS THEY ARE BEING RECEIVED. Paul-KB5MU researched the modification circuit for us.

Nice picture of Mike Breauz, AC6FM, and his "shack" in HANDI-HAM newsletter for Winter-95 along with comments on how he got into amateur radio (HANDI-HAM '95).



\*\*\*\*\*  
 F O R E S A I L mwmwm .....mwmw  
 \*\*\*\*\*

Can we rope you in?

Ph/send ads 2 W9FQN (C Ed's addr) B4 20th of mo. w/ur NAME, CALL, Ph #, & CITY. Personal ads FREE 2 members. Others cost 25c/col. line (35spaces). =SK=

\*\*\*\*\* N E W A D S \*\*\*\*\*

Contact Dave-WAGHQM 53-2605 in Encinitas for old tubes which the club has stored at his QTH. Dave needs someone to replace him sometime soon. Any offers? A non-club tube bank is Bob-AF6V (145.32, 224.74, or 449.5).

(3-21)Atlas 210X solid state 100w xcver 80-10m & complete Hustler mobile ant 80-10m \$295; clean 2m hand-held Yaesu FT209H w/spare bat pack regular and quick charger, 12v lighter adapter cord & external speaker mike \$195; new Palomar R-X noise bridge \$30; never used Alliance HD73 rotor rated 10 10.7sq ft dual speed \$125; new Orbit rotor 360 for TV or 2m beam \$35; noise filter DSP-59 Timewave Tech in series w/spkr \$30; BK Digital Bench multimeter 2831A and BK scope 1540P 40MHz dual trace make offer; 10hz to 36Hz handi-counter Opto electronics mod 3000 make offer: Wayne \*6RWV 724 0777 Vista.

(3-18)YAESU FT-208 2m HT Ex Cond drop-in chgr/pwr wall chgr, mic, 2bat, no PL, offer?: Jerry WB6WDA 674 0874.

(3-16)ICOM 2PAT HT w/DC car charger/sup \$285: Mike K6PZN 693 3915 SD.

(3-10)ICOM IC-751A w/PS-35 internal pwr supply new in box \$975; Drake MN-75 antenna tuner 160-10m 2kw \$275: Allen N7AMR 434 5656.

(3-2)Heath HM-2102 VHF SWR/wattmeter \$30; HyGain 2DBQ-S 80/40m trap doublet (new) \$50; Yaesu YC-355D 200MHz freq counter \$60; Duane AA6EE 789 3674 Ramona.

(2-3)MFJ-1278 SSTV upgrades \$150; Kenwood HT TH-21BT \$100; 2ea Atinco 2m amp ELH-230D II 3/5w in \$35ea; Bencher Iambic key \$25; Micronta VSWR meter \$20; Jim WB7BDK

428 1543.

(2-22)Hy-Gain 4e1 mono bander beam/balun \$100: Paul WA6IPF 726 5007 Vista.

(2-1)Estate; Palomar M-827 SWR & PWR meter \$80; Duane AA6EE 789 3674 Ramona.

(1-14)TEMPO S-1/S-5/S-2 HT operating manual FREE at next club meeting: Stan W9FQN.

\*\*\*\*\*-DLD ADS PRINTED ON ODD MONTHS

\*\*\*\*\* W A N T E D \*\*\*\*\*

"A Fool for all seasons"

(3-23)Is Kester "44", Sn60, Flux "44" resin, core flux content 3-C good for radio solder work?: Stan W9FQN 749 0276.

(3-5)Kenwood AT-200/230/250 tuner; 2m/220 or 2m/440 mobile xcvr; Duane AA6EE 789 3674 Ramona.

(3-2)All types of Collins speakers and accessories (old/new?): Agent 4-W4ESQ, Stan W9FQN 749 0276 VC.

(2-22)Mono bander 15m beam: Paul WA6IPF 726 5007 Vista.

(2-15)FALLBROOK HIGH SCHOOL will take any and all donations of amateur radio equipment. We need radios, a Tri-band Beam, etc. (it's all tax deductible). Please contact Fritz Schattschneider, KE6EKY, at 723-6357 or Gayle Olson, KM6WF at 723-6402.

(2-1)Manual for Heath HW-101 xcvr; 2m 20-50w mobile xcvr; 3e1 tri-band beam: Duane AA6EE 789 3674 Ramona.

(01-08)Kenwood TS-140 & access.; Drake MN 2000 Tuner. Kenwood or Henry Amp.; Hal Tele-reader for mobile RTTY. for IOTA: Larry W7HKI 439 5855 Ocsd.

\*\*\*OLD WANTED PRINTED ON ODD MONTHS =PARC=

\*\*\*\*\*  
 F I E L D D A Y 1995 N6UWV  
 \*\*\*\*\*

The countdown is on ..less than 100 days until the annual Field Day contest. The object of Field Day is to work as many stations as possible, to learn to operate under abnormal conditions, to develop skills and equipment for emergency preparedness, and to acquaint the public with the capabilities of amateur radio.

If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate! Radio systems installation, repair and removal, and interference resolution.

**Edward Ross, N6GZI**  
**542-1405**

**Antenna Specialties**

**R-X Noise Bridge**

- Learn the truth about your antenna.
- Find its resonant frequency.
- Adjust it to your operating frequency quickly and easily.

If there is one place in your station where you cannot risk uncertain results it is in your antenna.

The price is \$78.85 in the U.S. and Canada. Add \$4.00 shipping/handling. California residents add sales tax.

Send for FREE catalog describing the R-X Noise Bridge and our complete line of SWR Meters, Preampifiers, Toroids, Baluns, VLF Converters, and Loop Antennas.

**PALOMAR ENGINEERS**

Box 455, Escondido, CA 92025  
 Phone: (619) 747-3343

FD scores let the ham community know the strength of our effort and are accumulated as follows: phone contacts (1pt ea), CW contacts (2pts ea), bonus points (100pt/category) can be gained in the following ways -public relations, media coverage, emergency power, public accessibility, info booth, natural power, message origination (msg to SM or SECC), message relay, packet, satellite, and UHF/VHF contacts.

There is someway each member can contribute to the club's FD effort. We're counting on you to be a part of the effort, whether it be in setting up Friday, June 23rd and Saturday 24th, operating and/or logging Saturday 24th at 11am to Sunday at 11am (multiple shifts available), feeding the crew by keeping the coffee perking, flipping the burgers or pancakes, etc, or tear-down on Sunday 25th at 11am to ??

Might you have a motorhome that could be used as an operating position? How about a generator? There is a lot to be done and 800 of us to do it so contact Ellen-N6UWW at 630-0950 and sign up today to contribute to PARC's Field Day on June 24th to 26th.

Set-up coordinator is Wayne Dewey, WD6AHX (729-311), and VHF/UHF coordinator is Bill Bennett, KC6Y0X (433-4626). =PARC=

\*\*\*\*\*  
S.D.Co.TRAFFIC NET(SDCTN) N6TEP  
\*\*\*\*\*

The following letter was written by me to the MARS Director of region five when they issued a directive that only MARS stations can deliver MARS traffic:

"It has been brought to my attention ..that the SDCo Traffic Net operated by PARC thru the W6NWX repeater on 146.73 by a number of net members, that by directive of the MARS hierarchy, overseas MARS traffic between Navy and Marine Corps personnel and their families is now prohibited to be distributed for phone delivery to amateur radio nets stateside, other than by MARS operators who must now deliver ALL

TRAFFIC THEMSELVES. A good proportion of such traffic has traditionally been delivered by non-MARS amateur traffic nets for at least 2 decades, and we are wondering what has happened to suddenly terminate this most valuable asset to the MARS amateur radio effort.

Part of the skyrocketing volume of this traffic - sometimes several hundred messages a day, with backlogs piling up - has now been reported to be unduly delayed, because the few MARS stations in Southern California are apparently unable to handle such excessive traffic volumes in a timely manner without help from the rest of the radio amateur community. ..PARC also pays for phone patches that allow message delivery through the telephone system as a public service free of charge to the operator, anywhere in the 619 area. MARS operators are often obliged to pay toll charges for calls outside their local phone prefixes - something that could become an unfair burden to them if the present traffic volume continues to climb. This is why we feel that a shared burden is a lighter burden to each participant, and that the delivery system used to date was a good one.

For this reason, we are asking why in the present climate of budget cuts and scrutiny of every military expense, steps are being taken to endanger a large pool of free service to a valuable morale boosting activity, making it vulnerable to the negative consequences of becoming less effective and therefore dispensable. MARS, being based on FCC licensed amateur radio operators, in our opinion needs all possible cooperation from the rest of the radio amateur community which is willing and able to supply it.

In the interest of our men and women in the armed services, and their families, we request your cooperation in shedding some light on this problem and possibly helping with the necessary damage control. Should this be beyond your scope, we propose to bring the

problem to the attention of higher authority for consideration, to see what, if anything, can be done to restore the system to normal function."

EDITOR'S NOTE: Charles and crew have done a great job delivering messages throughout the county serving Navy and Marine Corps personnel during the action in Samala and the Gulf war as well as normal traffic to service men and women stationed all over the world. THANKS to all of PARC's Net Managers and Net Controls over the years for their dedication in seeing that the MESSAGES get delivered! =PARC=

\*\*\*\*\*  
V E T E S T I N G A A G O M  
\*\*\*\*\*

Test results for March 11.  
Tested 12 candidates for 16 elements with 15 passes.

Tech/Gen->advanced: WA6TIL N6ISE KD6CKR

None/Novice->Tech: KE6MRT, Joe Saei, David Ward, Bill Herrera, & Tom Seymour.

Other: KB6WCF(4A), KD6CKT(4A), Cliff Manning(3B), & Forrest Packard(2).

TEST TEAM: KB5MU AC6FM KI6JM WA6HUC KE6VX AA6OM.

73, Rusty-AA6OM =PARC=

\*\*\*\*\*  
- AG060 - K6HAV/KI6JM/W9FQN  
\*\*\*\*\*

(4-90)(5yr) ..Alexander Battery Co. program ..KB6NZA passed Extra exam ..Mark-KC6COD to AA6TR ..PERSONAL COMPUTER net operational ..1st mention of ARES/data packet program ..Craig-N6ATQ found stuck xmtr on 146.13 in Escondido in 30min (mic jammed) ..Jo-KB6NMk, Carl-N6NZX and Mary-KB6NZA tied at 131 for most ARES Sunday morning check-ins ..Dora-KE7DR to move back to Arizona ..10m link on 147.130 and patch on it is "private" (opened to club members later on) ..Ray-KK6CA made up some code tapes for the club ..comments on "NO CODE" license .. =PARC=

Harry Turner (SK) holds the world record at 35wpm using a <hand> telegraph key (de ARRL)

**Need a new QTH  
or  
want to sell yours?**

**Call Clara Ziegler**  
**943-8366**  
to be your agent for  
north county coastal  
properties




**Pete W3ARU's XYL**

\*\*\*\*\* NEWS \*\*\*\*\*

More than 200 amateurs provided communications in the Kobe earthquake January 16 that killed more than 5000 people and left tens of thousands homeless. 400 of the 600 relief centers with 240,000 evacuees were served with communication from amateurs using over 200 hand-holds for 430 and 1260 MHz (de A1-N6GNB). (LA could even have more dead, injured, and homeless if the LA quake comes during the day and especially during commute times. How will SDCo respond? -Ed).

Phil Fichte, K0GUAF, a new club member lives at North Island Navy base and works on a rotating schedule on San Clemente Island. He is on 2m and Packet and wants to get his General license. He is rebuilding a Swan 500C (de K0GUAF).

Xiaonan Zhang, KE6PMR, would be interested in talking to other club members on 147.13 who speak Chinese. =SK=

ARRL has announced in March QST that a free year's ARRL membership can be yours by signing up four new members. Details on this membership drive are on page 176 of April QST. =SK=

The 146.73 repeater was used for emergency traffic during the last big rain when a water company truck was off the road and needed help.

Kenwood now has TNC plugs for TM-251A, 733A, 255, and 255A's (de A1-N6GNB).

There is beginning to be quite a bit of interest in the SDCo area in APRS with about 18 local stations and one mobile popping up on computer screens which show packet station latitude and longitude using a shareware program and GPS units. Some of those participating are KM6AW, N6CBB, KE6CBC, KE6CBL, KD6CNI, K1CT, KM6EK, WA6GAH, WA6G00, KF6HU, N6JZE, WB2KIH, WA6MHZ, KI6MP, WA60DQ, K6PD, K6QJP, K6RYA, KM6VQ, K6VV, W6WYN, AND KF6XY. =SK=

Hams were not allowed to transmit 51 years ago because of WW-II! In WW-I hams had to dismantle all of their amateur equipment but later in the war were allowed back on the air by showing proof of citizenship and agreeing to be fingerprinted! (HAM-STIRS).

Electronic filing works! Thanks to this new FCC program begun late last year, a prospective ham can learn his or her new call sign and be on the air in as little as two weeks after passing the examination. Call the FCC's Gettysburg, Pennsylvania office (800-322-117) to determine your new call sign. (de ARRL Letter).

Custom ham radio call signs will soon be available from the FCC for a fee: \$7/yr or \$70/10yr. =SK=

FCC has adopted rules for a new Emergency Alert System to replace today's Emergency Broadcast System. By July 1, 1996, radio and TV broadcast stations must install new gear. Also 92.1 KOWF, Escondido, 6kw power proposed and 95.7 KKOS, Carlsbad to change from 95.9. de CGC Communicator 1-95.

"There is nothing more useless than a perfect memory of obsolete knowledge" coined from the sub-plot of the MCA movie "DAD" starring Jack Lemmon and Ted Danson 1990 (de Ivan-N60LE).

The electronic version of Part 97 of the FCC Rules, available on the ARRL BBS, the ARRL info server, and on-line services, has been updated to reflect revisions that went into effect December 20, 1994 (de ARRL Letter).

\*\*\*\*\* NEWS \*\*\*\*\*

KJ6ZD - PALBBS - W9FQJ

PALBBS is a FULL SERVICE BBS and you can find most things on it that you will find on other BBS's. In case of emergency we suspect that PALBBS will be used by ARES to get PUBLIC SERVICE messages in and out of SDCo in conjunction with PARC's SAN DIEGO COUNTY TRAFFIC NET (SDCTN). (Norbert Seibert (SYSOP), 630-5538, Vista

To get into the Internet Gateway (submitted by Gail-KM6WF) use the following format:  
sp inet@kc6lha.#soca.ca.usa.noam  
subject: internet@address

1st three lines in the body of the message must contain the following:  
To: internet@address  
From: callsign@bbs.address  
Full Name: Your full Name  
then your message.

EXAMPLE

PACKET STARTS HERE  
sp inet@kc6lha.#soca.ca.usa.noam  
subject: easu624@rigel.oac.edu.ucf

To: easu624@rigel.oac.edu.ucf  
From:urcall@w6nwg.#soca.ca.usa.noam  
Full Name: your name

Hi Linda, hope you will make it to the next PARC meeting.  
73, name

-----  
End your pkt message as you always do at PALBBS.

Remember that you use the FORMAT above and not the way you usually send internet messages since it is basically a PACKET message that is re-filed by KC6LHA as a INTERNET message which he then puts in the proper format for INTERNET.

Note that the 1st address gets the packet to KC6LHA with Linda's proposed address (subject). These two lines are then removed at KC6LHA and the message is sent on the Internet Gateway using the next three address lines. Note 2nd line of this address (From) indicates urname is at the W6NWG BBS. Do not use PALBBS. If PALBBS is not your home BBS, you are on your own.

This is for sending and receiving personal mail only. No bulletins, usenet, WWW, or gopher-mosaic type messages. You will receive a reply from KC6LHA that your message has been sent.

Linda, N6YZZ, is a student at UCI (Irvine) and has access to the internet thru UCI. Send her a message just for the FUN OF IT! =SK=

Some of W9FQN's favorite commands on PALBBS are:

<p W9FQN> which gives a listing of the last time he checked into PALBBS, where he is located, his home BBS, and what frequency he last used into PALBBS. This is good to see how active a ham is B4 U send him a message.

<pc W9FQN> gives you FCC information about the call W9FQN.

<l"heath"> which lists all of the bulletins on PALBBS which have HEATH in their subject line. HEATH is part of HEATHKIT Co, manufacturer of radio kits in the old days. I also like <l"net"> which brings up all subject lines with the word NET in them. This is a great way to search the 100's of messages for only those things of interest to you. If you are looking for an ICOM 2at HT you might try <l"icom"> for all ICOM listings or some variations of the following: <l"icom2">, <l"icom-2">, <l"ht"> or <l"2at">.

<l"ic"> of course gives you a listing of all categories on PALBBS if you are in the "expert" mode. =PARC=

\*\*\*\*\*  
- N E T S -  
\*\*\*\*\*

The following NETS need help IMMEDIATELY:

HAM HELP: need Net Controls to conduct the net once a month. No experience necessary. Just be able to read and find net members who can answer the questions asked. Contact Ivan-N60LQ on 147.130.

CODE NET: need Net Controls who can send code once a week or be a backup to a regular NC. Contact Stan-W9FQN on 147.130.

TRAFFIC NET: need Net Controls who are willing to run the traffic

net once a week. Need someone for Tuesday or Wednesday immediately. =PARC=

\*\*\*\*\*  
SK SK W6EYX, W6YLA, K6UV SK SK  
\*\*\*\*\*

ED WAY, W6EYX

died this past month. Ed was a well-known and respected ham from the Escondido area and was the first president of the EARS club. =SK=

RAYMOND YORK, W6YLA,

died January of this year. Jerry was recently instrumental in getting one of his buddies, Ray-N6UCH, from the 1941 Naval Training Station in San Diego back on the air. =SK=

F. KERNEIL BERNARDINI, K6UV

died August 31st.

Sometimes PARC does not learn of deaths until many months later unless a close ham friend sends us a notification. PARC would also appreciate knowing some of the background information concerning the deceased. =PARC=

\*\*\*\*\*  
W O R K P A R T I E S W9FQN  
\*\*\*\*\*

(01-22)#1 Bill-KB6MCU and Sybil-W6GIC went to the mountain to find a blown fuse in the ATV repeater. They also found a dead mouse in what we thought was a secure metal building. Do we have any "mice experts" in the club? Applications are being accepted.

(01-28)#2 Dave-KD6EBY check the batteries and temperature since last visit. Minimum outside 31.3 and inside building 56.1. Maximum was 61.2 and 72.5.

(02-22)#3 Mike-AB6QT installed a new controller in the 449.425 repeater and there was a problem in getting the PL mode to function properly so the old controller was re-installed until a complete test of the new system logic can be completed.

(02-24)#4 John-KD6CDH has finished the club's 386 computer. It has a 540 hard drive, 4Meg of memory, 3.5 disk drive, CD-ROM drive, 2-printer ports, and 2-com ports. Many of the parts were

furnished by numerous club members with Ted-KD6AKT finding many or items.

(02-26)#5 John-WB6IQS fired up one of the club's old TNC-2 packet units and then modified it per a diagram furnished by Paul-KB6MU to pass packets out of the TNC as they are being received so that we can use it on the 146.700(-) duplex repeater (our old RTTY repeater).

(03-05)#6 John-WB6IQS and Stan-W9FQN took the modified packet TNC-2 to the mountain in the rain. We passed boulders on the road as big as John's van and others much smaller from slides off the side of the mountain. There was 8.6" of rain during the night. The 146.7 repeater refused to repeat audio and even the local mic so the repeater was removed from the mountain to John's QTH where things would be warmer and drier.

The 224.38 repeater coax was checked and there was a 3:1 SWR going up to the antenna which will need to be looked into when the weather is better. After being home for several hours it was reported that the 224.38 repeater was not repeating and it appears that the pre-amp was not working.

(03-11)#7 Bill-KC6MCU wet to the site to do some ATV adjustments. =PARC=

\*\*\*\*\* NEWS \*\*\*\*\*

Art-KC6UQH, club president, has appointed David Doan, KC6YSO, and Bill Smith, KB6MCU, as primary delegates to SANDARC with himself and Stan Rohrer, W9FQN, as alternate delegates (1-23-95). =SK=

Nice article in the Vista papers about Tri-City Christian School contacting Endeavor space shuttle. Lawrence-KK6FX has been helping with the group and they will be talking to mission specialist Wendy Lawrence. =SK=

Jennifer-KM6WG/Mobile 3-21-95 used the autopatch to report a dog attacking another dog being walked by a woman in Vista. =SK=

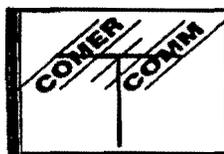
Be sure to WELCOME some of our new members to our repeaters. Some of them are still in school and would appreciate your contact. =SK=

# RADWARE

The new HF DSP receiver / Exciter system with full spectrum analysis capabilities is now FCC Certified.

## LIMITED INTRODUCTORY OFFER

For a limited time we are offering a RADWARE card (unboxed) AND a Wearnes DSP Sound card for \$470.00 plus tax. Call Ron on 599- 0476 to place your order or see KF6C at the next meeting. Call the RADWARE BBS for more info 599- 0185

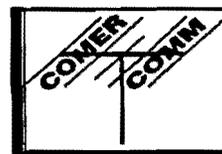


**COMER COMMUNICATIONS, INC.**

2598 Fortune Way - Suite I

Vista, CA 92083

(619) 599-0476



# HAM RADIO OUTLET

"LARGEST HAM OUTLET IN THE WORLD"  
ALL MAJOR BRANDS IN STOCK NOW!

163 Clairemont Mesa Blvd  
HRO  
VISA

ritconcept

DIAMOND ANTENNA

HUSTLER

COMET

ushcraft

OUTBACKER

hy-gain

US TOWER

ICOM

BENCHER, INC.

Astron

Iri-Ex

K&Kantronics

MFJ

AMERITRON

Larsen Antennas

KENWOOD

YAESU

ALPHA ELECTRONICS

AEA

TEN-TEC

Open: 10a.m. - 5:30p.m.  
Monday thru Saturday

560-4900  
or toll free 1-800-854-6046

**5375 KEARNY VILLA ROAD, SAN DIEGO**

# PARC Membership Application

AMATEUR CALL
CLUB MEMBERSHIP? <input type="checkbox"/> NEW <input type="checkbox"/> RENEW
ARRL MEMBER? <input type="checkbox"/> YES <input type="checkbox"/> NO
LAST NAME
FIRST NAME
STREET ADDRESS
CITY
STATE ZIP
HOME PHONE
WORK OR OTHER PHONE
HAM LICENSE EXPIRES
FAMILY MEMBERSHIP (List other calls and names)
CLASS OF LICENSE <b>N T T+ G A E</b>

Mail this form with your check to PARC, P.O. Box 73, Vista, CA 92085-0073 or hand to membership chairman at club meetings. We prefer checks to cash, it's safer and you have a record. Dues are \$12 a year which includes \$3 for the Scope, or \$21 for a family all at the same address. Consider paying for two or three years at a time to reduce the work for the membership chairman.

Name, call and complete address are required. Telephone number is requested but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

\*\*\*\*\* MAR. SCOPE FOLD/STAPLE \*\*\*\*\*  
 Editor: Stan-W9FQN 30311 Circle R Ln  
 Valley Center, CA 92082-4806  
 KI6JM Jack Hanthorn, Folding Refresh  
 WA6Y00 . Harry Hodges . Staples  
 W6TFB Lloyd & Lisbeth Hunt, Folding  
 N6TCB . Jerry Carter . Sorting  
 WA6UTQ . Larry Ruegseger Folding  
 KB6NMK . Jo Ashley . Labels  
 N6UWW . Ellen Utschig . Labels  
 KC6WAN, Ralph Powell, Printing, Labels  
 N6WQR Bernice Rosenberg Folding  
 \*\*\*\*\*  
 Published monthly by PARC, an ARRL  
 Special Service Club. Membership \$12  
 including \$3 4-SCOPE. Outside SDC\$4

\*\*\*\*\* I N S I D E \*\*\*\*\*  
 1-13 Last-Next Mtg, PALBBS Port 13  
 2-14 PLLBBS Port 13 .....  
 3-15 BoardMtg, Pres.Wavelength, Ads  
 4-16 Membership, News .....  
 5-17 Autopatches, ..... Ads  
 6-18 Newsline, Rain, Repeater Tech  
 7-19 4-Sale, FIELD DAY, ..... Ads  
 8-20 TrafficNet, VE Test, AGOGO ..  
 9-21 More News, PALBBS, .....Ads  
 10-23 Nets, Work Parties, News, ...  
 11-22 HRO and COMER .....Ads  
 11-22 HAM RADIO OUTLET & COMER..Ads

\*\*\*\*\*  
 - P A R C B O A R D -  
 Pres : Art McBride . KC6UQH 7418143  
 VPres: SybilAlbright W6GIC 2784284  
 Sec : David Doan . KC6YSO 2864888  
 Treas: JenniferThieme KM6WG 5991134  
 RptTec: John Kuivinen WB6IQS 7273876  
 SCOPE : Stan Rohrer . W9FQN 7490276  
 MemShp: Ralph Powell KC6WAN 7277415  
 Tech: Mike Doyle . AB6QT 7421573  
 Memb: Marvin Munster WB6PKK 7472223  
 \*\*\*\*\*  
 VE Program: Rusty . AA6OM 7475872  
 ATV/Edu. : Bill . KB6MCU 5822313  
 PALBBS : Norbert KJ6ZD 6305538  
 \*\*\*\*\*

APR'95 S.Call?: .....  
 (Sponsor's call not required)

SCOPE, US Post Office #076530  
 Published by: --- PARC, Inc. ---

POSTMASTER: Return to -> SCOPE  
 P.O.Box 73, Vista, CA 92085-0073

# Scope

2nd Class  
 Postage paid  
 at Vista CA  
 92085 - 9998



Stanley realized the new converging conference room walls kept meetings from dragging on.

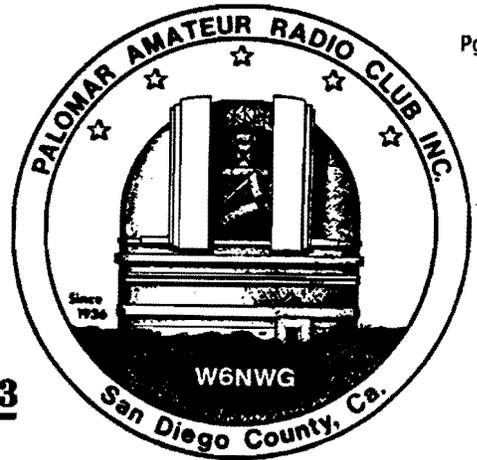
Vista  
 Mira Mesa  
 La Mesa  
 Fallbrook  
 Membership Expires PRC yy mm  
 License Expires LX yy mm

Phone Codes  
 Deliver To

W6NWG W6NWG W6NWG W6NWG

# Scope

W6NWG



**Palomar Amateur Radio Club Inc.**  
**Post Office Box 73, Vista, California 92085-0073**

MAY \*\*\*\*\* 1995 \*\* 59 YEARS OLD  
Dues \$12, Volume XXI Number 5  
Coffee 7pm, Mtg. 7:30 pm @ Carlsbad  
Safety Center(CSC), Palomar Airport  
Rd.to N.on Camino Real(S11),east on  
Faraday .25 mi,left to CSC,TB 14F6.  
Talk-in on 146.73

\*\*\*\*\*  
OPEN REPEATERS / CLOSED AUTOPATCHES  
PARC PALOMAR MT.REPEATERS(W6NWG):

PARC W6NWG Trustee: Ron-WI6B  
Autopatches(4): 146.730-, 147.075+\*  
147.130+\*,449.425-\*

PKT: 145.052s PALMAR W6NWG-1 Open  
146.700- PALRPT W6NWG-4 Emerg  
BBS PARC PALBBS W6NWG-3 Open  
145.05/07/146.7- KJ6ZD SYSOP  
70 cm W6NWG-2 METROLINK Closed  
ATV: 1241.25T(out)/Int-Comm 146.43s  
input 915.0FM/919.25AM; PL79.7Hz  
ALL COVERING 2,000 SQ-MI OF S.D.Co.  
OTHER:224.380-\*\*KK6KD; 224.9-\*\*\*WD6HFR  
146.175+\*\*WA6IPD; \*\*=107.2Hz

\*\*\*\*\* C A L E N D A R \*\*\*\*\*  
May 3 Wed.CLUB MEETING, Carlsbad SC  
May5-7 WestCoast VHF/UHF Conference  
May13 Sat.PARC VE Tests Carlsbad SC  
May11 Thu.PARC 7pm Board Mtg W9FQN  
May26 Fri.Deadline 4-SCOPE articles  
May30 Tue.SCOPE mailed at Vista PO  
Jun24-25 FIELD DAY EMERGENCY DRILL  
Sep11 GENERAL CLASS starts at CSC

\*\*\*\*\*  
L A S T M E E T I N G  
\*\*\*\*\*

Attendance was 106 members and  
14 guests for a total of 120 but  
many did not sign in. We suspect  
that we had around 140 attending.  
Please make sure you sign the clip  
board before leaving the meeting.  
Also keep the club board on the  
same side of the room --don't pass  
it across the isle ..only back  
behind you. PLEASE PRINT YOUR CALL  
CLEARLY. Your call is IMPORTANT.

April Moell, WA6OPS, had slides

and overheads on amateur radio used  
in hospitals: therapy and disaster  
assistance. She emphasized that in  
emergencies action should start  
from the bottom and move towards  
the top rather than amateurs wait-  
ing for the dictation of action  
coming from the top down. For hos-  
pitals this means that when you  
feel the ground shaking that you  
report to your assigned hospital  
position and start reporting upward  
what the situation is at your loca-  
tion. In one of the last LA area  
earthquakes, one hospital went  
without contact for 17 hours.

She also indicated that even in  
some of the simplest emergencies  
hospital phones become useless when  
the switchboards are jammed with  
incoming calls and that amateur  
radio is needed to help with the  
early communication needs.

SHOW & TELL had Ted-KD6AKT  
demonstrating packet, Brian-KF6C  
showing his computer controlled  
BLACK BOX transceiver, and well  
constructed helical antennas were  
shown by Ken-N6ALA and Art-KC6UQH.  
Many thanks to Ted and Brian for  
bringing their equipment to the  
past few club meetings for members  
to see and learn about.

Ken made a video tape of the  
meeting and will show it April 8th  
at 8pm over the club ATV repeater,  
W6NWG.

ART-KB6YHZ & Anita-KB6YHY made  
the coffee and supervised the drink  
and goodies ..and members bringing  
goodies: Duane-AA6EE, Bill-KM6PY,  
Paul-N6ISC, George-K6Y6K, Jerry-  
N6TCB, Becky-KE6BUE, Zack-KE6MQB,  
Fred-KE6BGI, Norm-N6QQF, and Mac-  
WB6GXR.

THANKS TO THE GOODIE BRINGERS

FOR HELPING MAKE THE CLUB MEETINGS  
A BIG SUCCESS.

Goodies were great and you were  
rewarded with "1" participation  
ticket. =PARC=

\*\*\*\*\*  
NEXT MEETING - VPres. W6GIC  
\*\*\*\*\*

PLEASE COME EARLY and help set  
up chairs.

The program for May 3rd will be  
Kerry Banke, N6IZW, who will be  
talking on EXPERIMENTING WITH  
AMATEUR MICROWAVE BANDS. Kerry has  
been net control of the Monday  
evening MICROWAVE net at 9pm on  
146.730 and the microwave meetings  
are usually held each month at  
Kerry's QTH.

(S)HOW & (T)ELL: Please see me  
before the meeting to reserve time  
for your SHOW & TELL item(s).

\*\*\*\*\*  
PRESIDENT'S WAVELENGTH KC6UQH  
\*\*\*\*\*

I am pleased we are now able to  
see our meetings on ATV. Many  
thanks to Ken, N6ALA, for video  
taping of the meeting and Bill,  
KB6MCU, for showing the video tape  
on our ATV Repeater.

The five stars on the Palomar  
Club's Logo represent the five pur-  
poses of the Amateur Radio Service  
as defined in FCC Part 97.1. The  
last star (97.1 E) "continuation  
and extension of the amateur's  
unique ability to enhance interna-  
tional goodwill" is as important as  
the other four stars. When using  
Our Repeaters it has been PARC  
policy to extend goodwill to all  
amateur operators and the listening  
public in our local community. We  
also encourage all of Our Members  
to promote goodwill in all of their

amateur activities be it national or international. We accept all Amateur Operators in good standing as members and all potential Amateur Operators as associate members. While we all enjoy our national/ international heritage we must redouble our efforts as amateurs to insure we do not offend the heritage of others. Bigotry, anger, intimidation, and name calling has not been provided for in the establishment of The Amateur Radio Service.

It is my recommendation that members back off from conversations that invoke anger and do not perpetuate that anger by using conventional means of communication. We are a very small community and we need the support of our whole community to insure our survival as a group.

I would like to commend a small group of Amateur Radio Operators this month that have taken at least three stars to heart. At their last meeting I found the presentation on Elevated Ducting on VHF/UHF/SHF frequencies very enlightening. The guest speaker showed several computer models and data taken from aircraft on a path between the West Coast of California and Hawaii. This type of ducting is most likely to occur in the months of May, June, July, and August. The ducting is elevation sensitive and usually begins near the ocean under 1000 feet on our coast and ends at 4000 to 8000 feet in Hawaii. Last year we enjoyed almost three days of communication with Hawaii on two meters and above during a period of ducting. This group is the San Diego Microwave Group.

The San Diego Microwave Group conducts a net on our 146.730 repeater at 9:00 P.M. on Monday evenings except for the third Monday of the month which is their meeting night. The current San Diego Microwave Group was started in early 1986. Red Truax, W6BLK had hosted the original group for a number of years but it had become inactive for 10 years prior to 85. Red was very instrumental in caus-

ing the current group to be formed. The current group started in 1985 when Kerry, N6IZW, purchased 42 X-Band GUNN oscillators at local surplus stores. Kerry modified a WWII X-Band spectrum analyzer to cover the Amateur portion of the band and modified a couple of the GUNN units to work on 10.3 GHz. Kerry and Chuck, WB6IGP found they could communicate a few hundred feet with this equipment. Further work extended the range to a half mile.

Ed Munn, W60YJ who had built a microwave Klystron based Polaplexer (made out of a brass toilet stand pipe) joined the group and they made their first "DX" contact of 16 miles from Mt. Helix to Mt. Soledad. The SDMWG became affiliated with PARC and the Monday Microwave Net began. Bob Traynor, WA7GRW, proposed a wide band 10 GHz Microwave beacon to the PARC which Kerry and Ed built and installed at the repeater site. The beacon ran for a number of years and provided temperature telemetry from the site. A new beacon, more stable for SSB work was built and is now on San Miguel Mt. The first ARRL X-Band contest held in August 86 was overwhelmed by entries from the SDMWG. Ed took first place with his original Polaplexer. The SDMWG and San Bernadino Microwave Society (SBMS) have been sharing the top spots in the ARRL X Band Contest ever since.

The group has been involved in setting several DX records with Jack, N6XQ, holding the current north American record of over 500 miles from South of the border to north of Santa Barbara. Chuck has been writing the "Above & Beyond" column for 73 Magazine since 1989 which has provided excellent exposure for our activities. SDMWG has provided parts and technical expertise in many areas including the recent construction of several ATV receive converters and 915 FM ATV transmitter. The Group is informal, and currently has about 10 members in attendance at their monthly meetings held at Kerry's QTH at 7:00 P.M.

Congratulations to Kerry and the San Diego Microwave Group for their contributions to the Amateur Radio Service and their technical achievements over the past ten years.

BE A FIVE STAR AMATEUR. See Ellen, N6UWW, and sign up for FIELD DAY! She can be reached at 630-0950 or on 146.730. =PARC=

\*\*\*\*\*  
E D I T O R  
\*\*\*\*\*



My apologies to anyone who BELIEVED the APRIL FOOL artical about PALBBS PORT 13. It looks as if my first two attempts ('94/'95) were less than I expected. Last year we had several signing up for the ENSENADA trip and this year the PORT 13 artical sounded so true that most people accepted it as fact rather than fiction. Sorry, it was meant to be outlandish to the point of being humorous.

Milt-W6MK at the last meeting pointed out that Motorola has just announced a 28.8 kbs modem which is designed to allow real-time voice operation to anyplace in the world via Internet for as little as \$1/hour which is only a few steps away from the PALBBS Port 13 artical in the April SCOPE so possibly the April Fool spoof was not as outlandish as I originally thought. =PARC=

\*\*\*\*\*  
F I E L D D A Y 1995 N6UWW  
\*\*\*\*\*

April 9th there was a meeting at W9FQN's QTH with Brian Comer-KF6C, Ellen Utschig-N6UWW, Stan Rohrer-W9FQN, Mark Moskowitz-A6TR and former PARC president, Wayne Dewey-WD6AHX.

The proposed Field Day site was inspected and possible locations of antennas and equipment was discussed. Next meeting will be May 7th at W9FQN's QTH.

Set-up coordinator is Wayne Dewey, WD6AHX (729-3110), and VHF/UHF coordinator is Bill Bennett, KC6Y0X (433-4626). =PARC=

## Printed Circuit Board Design

**J.T. (Tim) Low  
N6ZUC**

**Phone or Fax  
(619)735-9125**

**2946 Amanecer Place  
Escondido, CA 92027**



The PREMIER source for  
**Contract Engineering &  
Technical Services.**

- Long or Short Term
- Direct Placement
- Payroll Services
- Employee Leasing

**Steve Grant, N6RUV  
Division General Manager  
(619) 565-4992**

Repeater site electrical usage; Site control unit @ \$145; Rain report use of improper language contrary to PARC standards; Video of meetings to be made available to members; Sign-in sheet problems; June meeting on Field Day; Seminars before meetings; Net problems discussed more next meeting; John-WB6IQS to take sellers table; Work party April 23rd for 224.38; Membership now 835; End of year membership drive; WB6PKK report on SNOG/PALMAR modifications; Examples of LMR-400 flex coax; Possible need for more PARC brochures; Possible request by a ship to use PARC's autopatches by an amateur; Received a report from Marvin-WB6PKK on the emergency capabilities of Dennis-N6KI and Harry-WA6Y00's EMERGENCY stations which will be used to direct traffic in/out of San Diego County during emergencies. The club is obligated to support these two stations during emergencies with operators and power.

**APPROVED:** Next board meeting at Stan-W9FQN's QTH in Valley Center; \$10 for postcards to send out to non-members; \$25 to KD6JXY for Rain report; \$60 for fence posts; \$100 for 3 antennas (2m/70cm); \$3000 (abt) of prepaid to CD till August 1st; approved audit of finances headed by Ralph-KC6WAN and former treasurers; \$\$ for vidio tape for meetings; Request for use of repeater on 147.130; W6NWG-0 for FD and emergencies, W6NWG-1 for PALMAR .05, W6NWG-2 METROLINK, W6NWG-3 for PALBBS, W6NWG-4 for PALRPT .7, and W6NWG-5 for PALDAT (new ARES emergency BBS); Stan-W9FQN to head committee to investigate cost of new building and alternatives; WA6Y00's emergency station to be custodian of Club's 2k Henry amplifier donated by Bill Smith-WB6MCU;

**COMMENTS:** prepaid is money that is for the '94-'95 club year and can't be used until August 1st, 1995; and PARC has an audit performed every 3-4 years.

Club members are reminded that the club's by-laws provide for all business concerning the normal

operation of the club is to be conducted at the monthly Board meetings. Members are invited to attend all Board meetings or to discuss with a Board member any of their concerns which they would like to have addressed.

Contact a board member 4-info or C Secretary 4-minutes. =PARC=

\*\*\*\*\*  
- C O D E P R A C T I C E -  
\*\*\*\*\*

Members are reminded that PARC sends code Monday through Friday on 147.075 from 7pm to 8pm with code speeds ranging from 5wpm to 20wpm.

Each net control has his own method of running the code nets so don't be surprised if each net control does things differently ..and that it sounds different from what you have been practicing.

Those studying for the code need to be reminded that they should listen to as many different sources of code as possible since the tape or computer code you are listening to for practice is bound to be different from the code you will hear Saturday mornings at your local VE Test center. It is good to practice on different sources so that you get used to hearing different tones and different character spacing.

PARC's Code Net needs some club members who are able to send code with their computers to help out with the evening code nets so those who are presently doing the code have backups. Possibly you could even participate several times per month.

**MONDAY:** Stan, W9FQN, Valley Center, uses an old Radio Shack Model III computer with a small audio amplifier which is placed near a clamp that holds his microphone button in the closed position. This is really audio coupling and it forces everyone in the house to be on their best behavior during the code net. He also places a plastic "ice block" on top of his rig to keep things cool since the 5w transmitter is "keyed-down" for about 57 minutes during the hour of code. The antenna is a vertical.

**TUESDAY:** Harry, WA6Y00, Escon-

\*\*\*\*\*  
- APR BOARD MEETING -  
\*\*\*\*\*

**BOARD:** KC6UQH W6GIC KC6Y50 KM6WG WB6IQS W9FQN KC6WAN AB6QT WB6PKK

**OTHERS:** W6HCD (former PARC sec.), WB6MCU (ATV & Training), and IM6RAT (visitor). Absent N6UWW.

The meeting at John-WB6IQS's QTH started at 7:14 and ended at 10:00pm.

John had low-cal goodies for us to munch on during the meeting.

- SECONDS -

**DISCUSSED:** Year 67% completed and most accounts where they should be for this time of the year; \$3818 Equip. Bal, \$2696 Gen. Purpose, \$5107 Pre. Pd, \$ -0- ATV \$ 135 PALBBS & \$ 275 Post Office;

dido, uses a 486DX computer and a TNC for electrical coupling. He runs 25w to a 3-element beam. Harry usually loads several of the TNC buffers with 5, 13, and 20wpm code tests and several other buffers with callsigns. He is usually absent the 3rd Tuesday of each month and could use some help for that session. Harry is also the new VE Test leader for the last Saturday VE testing in Escondido.

**WEDNESDAY:** Paul, WA6TIL, Ocean-side, uses Super Morse on a AT computer with electrical coupling to his 2-watt transceiver and a 1/4th wave mag mount. He usually starts out at low speeds and is around 13wpm by 7:30pm. He likes to send 5-letter code groups and isolated words. Paul many times fills in for missing net controls during the week.

**THURSDAY:** Duane, K06BT, Scripts Ranch, uses an HT at 300mw and a ground plane antenna. The computer is a Tandy 3000 (AT style) and he uses Super Morse with electrical coupling between the computer and his radio.

**FRIDAY:** Gordon, W6MYV, Ocean-side, is an "old timer" who enjoys sending the code and uses an IBM 486SX with a Packrat TNC and AEA program. He uses audio coupling between the TNC and his radio. Gordon uses a 5-watt transceiver and a dual band vertical antenna.

There are many times when the above net controls cannot make their nets and it would be good to have someone to help cover their net duties. Tune in to 147.075 some evening and listen to the format and see if you would be willing to help us with a good service to amateurs in the San Diego area. Your class of license is not important and we would like to have all classes of licenses represented. This is a way you could give something back to amateur radio.

Some of the net controls have requested that those checking into the net should make sure that they give their calls clearly and slowly enough to be copied easily.

You will need a computer program for the code, electrical or audio coupling to a transceiver that can run for 60 minutes "key-down" without heating up and destroying itself (ice, fan, low power,etc). W9FQN can furnish you with a net preamble and you are in business. Its not as bad as it might at first seem. You need to fill the buffers sometime during the day and while the code is being sent you can have your evening meal.

Several members in the past have indicated a desire to help with the code but have been having difficulty in getting everything put together to help us out.

If you can help us with the code sessions, please contact one of the net controls or W9FQN at the next club meeting. =PARC=

\*\*\*\*\*  
M E M B E R S H I P KC6WAN  
\*\*\*\*\*

NEW CLUB MEMBERS wanting confirmation of their membership and/or an autopatch information sheet and/or FCC 610 form should send to me at the club's address a (S)elf-(A)ddressed (S)tamped (E)nvelope (SASE) requesting same or see me at the next meeting.

4yrs= KB5MU-Paul Williamson.

3yrs= WA6GAH-George Atkins.

2yrs= KA6AAG-Cheryl WA6BLT-Joe  
KD6EFQ-Roger KE6EJG-Claude WA6EUF-  
Nick KE6IEU-Barry KE6KDJ-JC WA6NPM-  
Mike KE6QEX-David KC6WMU-David  
W6WPO-Bill KN6YS-Ron

1yr= KC6AST-Lane K06BU-George  
WA6DOC-Mark WB1DSJ-Bob KD6EFQ-Roger  
K06FI-Bill KA6GRG-Chuck KE6IEN-  
Davis N6JNU-Allen WB2KIH-Eric  
KJ6LS-Lin KE6LSX-Bill WA6NPM-Mike  
KD60BG-David W60DU-Grant KE60XZ-  
Walt K6PGF-Mike WA6PLX-Larry  
KE6PWB-Gale KE6PZB-Garry KE6PZD-  
Bruce KE6PZE-Myron KE6RTQ-Larry  
KE6RTR-Ron KE6SDF-Bill KA6URU-Billy  
KD6WDE-Ed K6ZST-Art David-Akerstein  
Iemma-Anthony Yvonne-Harris Bob-  
Montgomery Randa-Milljour  
Salzarulo John-Westerhold

CHANGES: KD6PQA upgraded to K06DV.

The following members received ONE (1) point for sponsoring a new

club member: AC6V.

To receive a point for sponsoring a new club member you will need to instruct the potential new member to write on his application that you are the sponsor. Otherwise, your editor is not aware of points to be awarded to members.

73, Ralph 727-7415 =PARC=

\*\*\*\*\*  
- N E W S - etc.  
\*\*\*\*\*

Contributions by the 20th)

Please send "newsworthy" items 2-UR Editor Via PALBBS, letters, notes or at club meetings.

The Southern California Six Meter Club presents the 40th Annual VHF/UHF Conference May 5-7 at the Sheraton Cerritos Hotel Town Center at 12725 Center Court Dr., Cerritos, CA. This is 20 miles from downtown L.A., 10mi to Disneyland, and 4mi to Knott's Berry Farm. Call 714-990-9203 or FAX new-990-1340 for more information. =SK=

Some popular frequencies in Northern Baja California are:

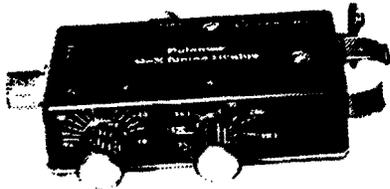
- TIJUANA: ..... 146.940- 146.940+  
  224.950+ 449.925-
- CERRO BOLA: .... 147.330+ 447.825-
- RUMOROSA: ..... 145.340- 448.725-
- ENSENADA: ..... 145.400- 446.625-
- TECATE: ..... 146.700-
- I. CORONADO: ... 146.940/147.525
- PTO.PENASCO: ... 147.330+(mainland)

Cerro Bola is south of Tecate while Rumorosa is midway between Tecate and Mexicali. Puerto Penasco is opposite San Felipe across the Gulf of California on the Mexican mainland. Your editor has taken several train trips from Mexicali to Puerto Penasco.

The Mexican use of 146,94(+-) is interesting along with the Coronado Island repeater. The Tecate repeater is on our Packet frequency but they probably cannot hear us. =SK=

Another amateur has been killed while erecting an antenna. The DALLAS MORNING NEWS reported that on March 18, Ernest Rutledge, KC5CQR, of Keller, Texas, ws helping a friend install an antenna in his backyard and was electrocuted. SAFETY FIRST! (ARRL LETTER V14No5)

# R-X Noise Bridge



- Learn the truth about your antenna.
- Find its resonant frequency.
- Adjust it to your operating frequency quickly and easily.

If there is one place in your station where you cannot risk uncertain results it is in your antenna.

The price is \$79.95 in the U.S. and Canada. Add \$4.00 shipping/handling. California residents add sales tax.



Send for FREE catalog describing the R-X Noise Bridge and our complete line of SWR Meters, Preampifiers, Toroids, Baluns, VLF Converters, and Loop Antennas.

## PALOMAR ENGINEERS

Box 455, Escondido, CA 92025  
Phone: (619) 747-3343

Jennifer A. Thieme  
**KM6WG**

**Bookkeeper  
Accountant**

**(619) 599-1134**

770 Sycamore Ave. #J-126  
Vista, California 92083

\*\*\*\*\*

### REPEATER OPERATIONS W9FQN

\*\*\*\*\*

PARC operates three two meter repeaters, 146.730, 147.075, and 147.130 with the 146.730 repeater being "overloaded" at various times during the day. We would like to encourage greater use of the 075 and 130 repeaters during the day.

PARC AGAIN would like to encourage the morning and evening commute groups to consider moving to 075 and 130 when your group starts to get large enough that you have to ask "whose turn it now?" If you have a special subject like computers or some technical problem, move off to 075 and 130 to have a one-on-one with someone who can help you.

Sometimes the commute groups are so large that you only get to transmit once every 10-15 minutes or you get "pushed out" of the conversation because the group forgot that you were in it! If you have a topic of interest, suggest that you move "up" and continue there where you can explore it more completely and quickly without boring others in the group.

We would also like to suggest that when you establish a contact on 146.730 during the day or evening that you consider moving it off to 075 or 130 to finish your conversation there and then change back to 146.730 to monitor.

While you are on 075 and 130 (also 146.73/449.425), be sure to INTRODUCE YOURSELF to the MANY NON-CLUB members who use these two repeaters and invite them to join PARC. Your club dues are supporting a large number of NON-CLUB MEMBERS who use these repeaters almost daily without showing any "thanks" or appreciation for the communications equipment being made available to them ..by YOUR DUES.

If these amateurs were to become members, we would have a membership of well over 1,000!

Introduce yourself and then check for their club membership by asking them about something you saw in the SCOPE.

The ARRL has always said that those who use repeaters should help support them. Besides, some of these users need to hear what a good operator sounds like!

Make your contacts on 146.730 and then consider moving to 075 or 130.

We would appreciate your comments on the POSSIBILITY of PARC designating our repeaters as follows (pro/con):

146.730 - main monitored repeater  
(most contacts move to 075/130)  
secondary autopatch repeater

\*ARES use during Emergencies

147.075 - family use, general use  
\*\*autopatch disconnected

except for emergency conditions  
TT signaling codes allowed

\*MARA use during Emergencies

\*RED CROSS use during Emergencies

147.130 - main autopatch repeater

\*EVAC use during Emergencies

\*RACES use during Emergencies

449.425 - open for general club use  
autopatch repeater

TT signaling codes allowed

\*main autopatch rptr 4-Emergencies

\*coordination rptr 4-Emergencies

\*Already assigned. \*\*Autopatch

and TT signaling codes don't always work well together.

If you don't use it, you can loose it! =PARC=

\*\*\*\*\*

### REPEATER TECHNICAL WB6IQS

\*\*\*\*\*

We now have three used antennas (see workparty) which will need to be cleaned up. Back in the early 1970's the club bought a used 2-meter 4-bay and it is still in operation at the top of PARC's 70' tower after almost over 25 years of use.

Most collinear antennas fail because they usually are vertically mounted at the top of a support allowing the wind to flex the entire antenna which many times results in metal fatigue ..and internal failure. PARC clamps the tops of all of its large collinear antennas so that they do not flex in the wind. We have very few problems with the collinears.

The 146.700 packet duplex

repeater still has about 10db of desense and the problem has not been located because of bad weather, and a lack of time and equipment to run checks on the entires system ..inside the building and out to the antenna on the tower.

As soon as the weather warms up we will be having a major work party which 2-3 climbers on the tower running tests on antennas.

If you can help at a work party, contact Stan-W9FQN, and spend a pleasant day with us on Palomar Mountain. You will also receive a FREE tour of the site and all of our equipment.

ASt the home QTH I am installing a 51' crankup tower with a 10' mast and should have it up by the middle of May. 73, John. =PARC=

\*\*\*\*\*  
- AUTOPATCHES - W9FQN  
\*\*\*\*\*

Members using the autopatch facilities need to remember that the autopatches were installed for emergency use but we do recognize that one needs to use them from time to time for non-emergencies to keep IN PRACTICE for the real EMERGENCIES.

Please keep your NON-EMERGENCY communications short. Don't ask how the weather is or how the kids are getting along ..unless there is some emergency about them. Please cut out the SMALL TALK. Make your calls SHORT and to the POINT. Then get off the patch so that someone else can use it for a real emergency. ALL CALLS SHOULD BE UNDER 60 SECONDS!

DO NOT treat the autopatch as a common telephone. It is a communications device which needs to be available for emergencies.

Please learn how to use it properly. =SK=

The common Touch Tone (TT) pad contains 4-columns by 4-rows. The intersection of a (C)olumn and a (R)ow determines the number being pressed with each column and each row being named by a frequency. Hence, each number is specified by TWO frequencies. For example, the

number "5" is determined by the intersection of column C2 and row R2 or by the two frequencies 770Hz and 1336Hz. Thus each number is composed of TWO frequencies which are superimposed on your transceivers carrier ..or onto the telephone line. Our autopatch system needs to detect BOTH tones for a valid digit to be produced. We detect your tones at the repeater site and then REGENERATE the tones at constant volume for relay to the individual autopatch sites where they are again detected for processing through a small computer to check for valid prefixes for that patch. The patch also passes these tones straight thru to the telephone line where they are again detected in the regular telephone system. Note the following chart for clarification of the tones required to produce a specific TT location:

Freq	C1	C2	C3	C4	
697Hz-->	1!	-- 2!	-- 3!	-- A!	<--R1
770Hz-->	4!	-- 5!	-- 6!	-- B!	<--R2
852Hz-->	7!	-- 8!	-- 9!	-- C!	<--R3
941Hz-->	*!	-- 0!	-- #!	-- D!	<--R4
	1	1	1	1	Row
----->	2	3	4	6	
Col.Freq	0	3	7	3	
----->	4	6	7	3	
	Hz	Hz	Hz	Hz	

Some TT pads also produce SINGLE tones which are made by touching two pads at the same time. Pressing row numbers of "1" and "2" at the same time produces a single tone of 697Hz while pressing column numbers of "6" and "9" produces the C3 tone of 1477Hz.

The club's MASTER CONTROL COMPUTER, besides recording all phone numbers dialed, is also capable of sending numbers and control codes to the mountain by exercising control of the printer output port of the MASTER COMPUTER. There are sufficient data lines in the printer output port to control the ROWS and COLUMNS of a chip which will send out the two tones under control of the MASTER COMPUTER. =PARC=

\*\*\*\*\*  
- NEWS - etc.  
\*\*\*\*\*

Contributions by the 20th)  
A nice article in the Thursday, April 13th, issue of DISPATCH/AT EASE on Leslie Day-KK6NH, Military Spouse of the Week. She participates in MARS and VE testing. Her husband is Michael-KK6NF (de Fred-KE6BGI).

Ken-N9AKB visited SDCo on the 22/23 and bought an HX-202 HT before he left for mid-USA. =SK=

SEISMIC MONITORING: You can monitor seismic activity on 445.400. It emits a warble tone whenever it detects a motion of 3.0 or more. Since this sensor is located in the Los Angeles area it will take some seconds for it to reach us here in Orange C. giving us a warning of the P-wave coming. This gives us time to stop whatever we are doing and get ready for the good shaking. (de Larry-WA6UTQ) (This is for LA. Can anyone receive this 445.500 station? -Ed).

EARTHQUAKE MONITOR FREQ:  
147.705(-), PL 114.8Hz Voice  
445.400 , PL 186.2Hz Decodes seismic tones only >3.0.

EARTHQUAKE SAFETY INFO:  
1-800-286-7233 (request info)  
CAL TRANS ROAD INFO #:  
1-800-427-7623

(de Larry-WA6UTQ)

There is a Monday night packet voice net hosted by the SCDCC in L.A. on a frequency of 145.300(-), an LA Co DCS station. The net is held every Monday from 8pm to 9:30pm. PARC would like to know if any of our members in SDCo can hear this repeater in LA (de Larry-WA6UTQ).

\*\*\*\*\*  
- AGOGO - K6HAV/KI6JM/W9FQN  
\*\*\*\*\*

(5-90)(5yr) ..meetings back to Lincoln Middle school ..Aubrey-W60DG talking on trasportable radios ..Bud-KG6VX consents to be Field Day chairman ..simple burglar alarm by Chuck-KI6TG ..Duane-WB6R in hospital ..Bob-WA6QQQ moved to Fallbrook ..Eric-KB6EPO aboard USS Independence. =PARC=



If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate!



Radio systems installation, repair and removal, and interference resolution.

Edward Ross, N6GZI  
**Antenna** 542-1405  
**S**pecialties

## Radio and Test Equipment Repair

All Makes  
 Reasonable Rates

**Lou de Beer**  
 ND6W  
 (619) 437-8351

Need a new QTH  
 or  
 want to sell yours?

Call Clara Ziegler

**943-8366**

to be your agent for  
 north county coastal  
 properties

**COLDWELL BANKER**

Expect the best.

**R**  
 REALTOR

Pete W3ARU's XYL



\*\*\*\*\*  
 F O R E S A I L \*\*\*\*\*  
 \*\*\*\*\*

Are you mizzen something?

Ph/send ads 2 W9FQN (C Ed's addr) B4 20th of mo. w/ur NAME, CALL, Ph #, & CITY. Personal ads FREE 2 members. Others cost 25c/col. line (35spaces). =SK=

\*\*\*\*\* NEW ADS \*\*\*\*\*

Contact Dave-WA6HQM 53-2605 in Encinitas for old tubes which the club has stored at his QTH. Dave needs someone to replace him sometime soon. Any offers? A non-club tube bank is Bob-AF6V (145.32, 224.74, or 449.5).

(4-20)Ameriton AL-80B KW amp 10-160m (see May95 QST pg18) \$650; Drake High Patch phone patch \$20; Optoelectronics handi-counter 10hz to 2.4 GHz \$100; B&W 1500w dummy load wattmeter Mod 374 \$100; Aston RS35m with amp & voltmeters \$110; Yeasu 208R 2m HT \$65; Hallicrafters SR400A xcvr Cycone III with pwr supply & mike (mint) \$300; Simpson 260 series 7M multimeter w/case (like new) \$65; Butternut vert ant 10-160m (U take dwn) \$50; BK Digital Multimeter Mod 2881A, BK Scope Mod 1540M 40Mhz dual trace & Elenco Sig Gen Counter Mod SC9500 (make offer); James Millen Ant impedance bridge & Millen Grid dip meter 1.7 to 300 MHz \$45; Wayne W6RWV 724 0777 Vista.

(4-5)COMMODORE 128 computer, 1571 disk drive, 1902 color monitor + software \$100: Pete W3ARU 943 8366 LaCosta.

(3-31)Phase Converts(2ea) on 220vac (give yourself an extra leg!), 1)5hp Convert-A-Phase rotary \$500, 2)3hp Phase-A-Matic static \$100: John KD6LDI 729 1804 days Carlsbad.

(3-30)ABM Clone 386-33 computer 100meg IDE HD 3.5" & 5.25" floppies, modum, 1meg RAM, VGA monitor \$375; US Robotics 14.4 Fax/modem <1yr warranty box + manuals make offer: Tim N6ZUC 735 9125 Escondido.

(3-18)YAESU FT-208 2m HT Ex Cond drop-in chgr/pwr wall chgr, mic, 2bat, no PL, offer?: Jerry WB6WDA 674 0874.

(3-16)ICOM 2PAT HT w/DC car charger/sup \$285: Mike K6PZN 693 3915 SD.

(3-10)ICOM IC-751A w/PS-35 internal pwr supply new in box \$975; Drake MN-75 antenna tuner 160-10m 2kw \$275: Allen N7AMR 434 5656.

(3-3)MFJ-1278 SSTV upgrades \$100; Kenwood HT TH-21BT \$100; 2ea Alinco 2m amp ELH-230D II 3/5w in \$30ea: Jim WB7BDK 428 1543.

\*\*\*\*\*-OLD ADS PRINTED ON ODD MONTHS

(2-1)Estate; Palomar M-827 SWR & PWR meter \$80: Duane AA6EE 789 3674 Ramona.

(12-30)RS HTX-202 2m HT used 3mo hv real base nw perfect \$200firm; Newmar 13.8vdc 8Amp pwr supply \$100f; Toshiba full size VHS camera w/video light pwr sup/bat charger hard case (needs bats) gud condx \$550; Motorola marine VHF 12chan 25w xmtr (rcvr too?) 13.8vdc 156MHz gud condx \$100: Carl KE6JQL 565 8130h or 525 8540 8-5:30pm.

(12-21)Tektronix Mod-575 transistor curve tracer \$100; HP Mod 170B dual trace, dual time base oscilloscope \$100 or best offer; scope card hvy duty \$25: Jack KI6RF 222 4209 after 6pm SD.

=====

HIGHWAY ELECTRONICS:parts,(new/old) military. Ask 4Nick,967-7225 2 C if open(10-3pm),305 Wisconsin Ave,Ocsd

=====

(12-16)Bubble Sextant MK.IX.A. in nice case (never be lost) WYSIWYG?: PARC Stan W9FQN 749 0276 VC.

(12-08)Lafayette HA-146 2m mobile \$35; SBE Del Mar Marine VHF radio \$30; RF Harris Marine VHF \$30; Chushcraft assorted FM Ringo antenna's 220, 440, 2m, VHF low band, lot price \$40; Johnson Fleetcom II VHF mod529 \$65; Johnson F. VHF mod527 \$40; Johnson VHF 242-501 \$25; Motorola UHF Maxar \$75; Standard UHF 4chan+ \$75; Zenith 100PC w/doc \$150: Alf WB6TAW 941 2428 Vista.

(12-04)KWM-2 + pwr supply great condition: Joey-NU6L 749 2699 VillyCtr.

PLEASE LET ME KNOW IF YOU BUY OR SELL SO I CAN TAKE OUT THE AD!

\*\*\*\*\* WANTED \*\*\*\*\*  
"REWARD"

(3-5)Kenwood AT-200/230/250 tuner; 2m/220 or 2m/440 mobile xcvr: Duane AA6EE 789 3674 Ramona.

(3-2)All types of Collins speakers and accessories (old/new?): Agent 4-W4ESQ, Stan W9FQN 749 0276 VC.

\*\*\*OLD WANTED PRINTED ON ODD MONTHS (2-15)FALLBROOK HIGH SCHOOL will take any and all donations of amateur radio equipment. We need radios, a Tri-band Beam, etc. (it's all tax deductible). Please contact Fritz Schattschneider, KE6EKY, at 723-6357 or Gayle Olson, KM6WF at 723-6402.

(01-08)Kenwood TS-140 & access.; Drake MN 2000 Tuner. Kenwood or Henry Amp.; Hal Tele-reader for mobile RTTY. for IOTA: Larry W7HKI 439 5855 Ocsd.

(03-10)A-36 triband beam; 15kw 100pf NPO doorknob capacitors, ICOM PS-35 or PS-740 pwr supply; B&W PROTAX antenna switch: Dennis N6KI 271-6079 Mira Mesa.

PLEASE REPORT UNWANTED ADS TO UR EDITOR!

(12-20)Tube tester(TV/7); tubes Mullard 5AR4, WE 300-B, 2A3 triode, & AR-1 speakers: Bob 310 928 3889. =PARC=

\*\*\*\*\*  
B U I L D I N G W9FQN  
\*\*\*\*\*

Every few years members of the technical staff suggest that PARC construct a REAL building on our site at Palomar Mountain. At present PARC has the following small buildings:

- a)BLOCK(9'x9'); built in the 70's original repeater building which still holds seven repeaters.
- b)SHED(10'x10'; built early 90's holds our 3,000Ahr of batteries.
- c)FREEZER(8'x8'); moved early 90's holds repeaters and autopatch sys
- d)METAL BUNKER(6'x6'); moved '94 empty at present
- e)a duplicate of (d) to be added in '95.

At present the club has 24 LARGE 1,680Ahr batteries being stored in Valley Center awaiting a place to be moved to on the repeater site.

It has been suggested that we move the repeaters out of the old block building and use it for storing all of the club's batteries. The old battery building is not suitable for operating repeaters.

The arguments AGAINST and FOR constructing a new building are:

=== AGAINST ===

- a)we have sufficient space now or will have by summer of '96.
- b)our money can be spent better in other areas. We might need between \$8,000 & \$15,000 for the project.
- c)it will take club energy & effort that could be better spent in other areas.
- d)this is not the right time to ask for member donations.
- e)it would require a lot of time to be donated by club members.
- f)we would probably have to remove some of the old buildings.
- g)it would be better & much cheaper to put up a metal cargo container for \$2-3,000.
- h)the neighbors might complain
- i)etc.

=== FOR ===

- a)we need a work bench for testing
- b)everything is too crowded in all of our buildings for working.
- c)a donation of \$5,000 has been offered towards the new building.
- d)security would be improved.
- e)an architect has volunteered to draw up the plans without cost.
- f)we would be able to get many of our club members to donate time which will reduce costs.
- g)we might include a ham station.
- h)etc.

The PARC Board appointed me to head up a committee to investigate the situation and to report back to the board (no time limit set).

I was part of the original committee that looked for financing for buying the repeater site for \$18,000. This was done thru THE FRIENDS OF THE PALOMAR AMATEUR RADIO CLUB. The committee obtained the needed \$18,000 and the club started paying off the amortization of \$134 per month but due to a sudden death, the property was offered to PARC for \$9,000. PARC bought the property through gifts by club mem-

bers and through the selling of STAMP pins (we still have some available for \$5 each). I will appoint 4-6 club members who are interested in the club to study the proposed project and the group will report back to the Board for their consideration.

If you would like to be considered for serving on this committee, please submit your name to me at the next club meeting, drop me a note, or give me a call at 749-0276. If you have a special talent in the building or finance area, please let me know so that I can include that information in our consideration.

This committee will look at whether there is really a need, what costs are involved, how money could be raised and by what methods, look at other solutions to our problems, and look at the the short and long term effects on the club. =PARC=

\*\*\*\*\*  
- N E T S -  
\*\*\*\*\*

The following NETS need help IMMEDIATELY:

HAM HELP: need Net Controls to conduct the net once a month. No experience necessary. Just be able to read and find net members who can answer the questions asked. Contact Ivan-N60LQ on 147.130.

CODE NET: need Net Controls who can send code once a week or be a backup to a regular NC. Contact Stan-W9FQN on 147.130.

TRAFFIC NET: need Net Controls who are willing to run the traffic net once a week. Need someone for Tuesday or Wednesday immediately. =PARC=

SWAP NETS: Saturday at 1300 hours on 7260kc and Sunday on 7234kc. Also Monday's starting at 2015 hours on 147.090 MHZ. =SK=

FC FORM 610A dated June93 is an APPLICATION FOR PERMIT OF AN ALIEN AMATEUR RADIO LICENSEE TO OPERATE IN THE UNITED STATES. It is to request a reciprocal permit to operate an amateur station in the USA. =SK=

\*\*\*\*\* NEWS \*\*\*\*\*  
REMEMBER THE PETER I ISLAND PROGRAM by Terry Dubson, W6MKB, at our May '94 club meeting? The following is from the 6-15-94 ARRL Letter -Ed:

Robert Wilber, N4GCK, one of the operators of last February's Dxpeditio n to Peter I Island (3YOPI), has pleaded guilty to bank fraud and mail theft, according to a report in the ANARBOR NEWS.

Under a plea agreement he will receive 24 to 37 months in federal prison and be subject to three to five years of federal supervision following his release.

The paper said Wilber took checks totaling some \$113,000 from the mailbox of a University of Michigan professor and cashed them. He was photographed at an automatic teller machine and his photo appeared in the paper on December 20, 1993. At that time "he knew he was caught," the NEWS said.

Wilber, 35, of Ypsilanti, Michigan, avoided arrest long enough to join the expedition to Peter I. He surrendered upon his return, having spent all the stolen money, the NEWS said.

Another participant in the Dexpeditio n was astounded at the news. "We had no idea," he said. "But Bob was very quiet under close quarters and it was obvious to all of us that something was troubling him." (de ARRL).

Be sure to WELCOME some of our new members to our repeaters. Some of them are still in school and would appreciate your contact. =SK=

I have some bones that I would like to have identified. They could be human or animal (de Stan-W9FQN).

The new address for VIBROPLEX keys is 11 Midtown Park, E., Mobile, AL 36606-4141 with phone number of 800-840-8873 (sure like the phone number -Ed).

The 1995-6 edition of the ARRL Repeater Directory will be available in late April and has nearly 20,000 listings, including Australia and European countries.

\*\*\*\*\*  
S C R O U N G E R I N C .  
\*\*\*\*\*

Over the years JOHN KUIVINEN, WB6IQS, has been the club's chief scrounger. John through his contacts and visits to swap meets has managed to bring to the club all sorts of goodies at VERY reasonable prices ..or for free: Motorola transceivers, antennas, cabinets, cavities, Heliac (coax) line, etc.

Because of John's foresight in picking up items that we might "possibly use" in the future, projects have proceeded along nicely with a minimum of expense to the club. His scrounging and technical expertise over the past 15 years has allowed the club to put together much of the equipment for the repeater site that has allowed the club to grow in an orderly manner.

Other members of the club have been members of SCROUNGER INC and have contributed greatly to the club's progress but no single person has contributed as much in finding good items at good prices that the club could use.

One of the newest members to SCROUNGERS INC. is BILL SMITH, KB6MCU, who as one of the newest of PARC's TECHNICAL staff, has been contributing to club projects at a phenomenal rate: transceivers, ATV equipment, cabinets, cavities, tower(s), TNC, amplifier, etc. Bill attends most swapmeets all over Southern California and picks up many items there and through his many contacts in San Diego electronic circles.

Others during the past few years or so have come up with significant contributions because they have seen some "surplus" item(s) which they thought would be of use by the club in some way: PARVIZ KAMIAB, KD6BCU, batteries and uninterruptible power supplies (UPS); TED STORKE, KD6AKT, cabinet & computer items; & MIKE PENNINGTON, KD6VHI, \$20,000 worth of batteries for a very reasonable price, & metal shed.

And of course, our thanks goes

out to all of you who have "picked" up little items that the club can use in projects or the equipment to do them with.

Your help is greatly appreciated and allows the Palomar Amateur Radio Club to do things that other clubs with similar budgets can not even attempt.

THANKS! =PARC=  
\*\*\*\*\*  
W O R K P A R T I E S W9FQN  
\*\*\*\*\*

THE NEXT WORK PARTY WILL BE ON MAY 7TH. MEET AT MOTHER'S KITCHEN PARKING LOT AT 10:30AM. REGISTER WITH STAN-W9FQN AT THE NEXT MEETING OR CALL HIM AT 749-0276.

(03-??)#8 Mike-AB6QT visited the site to pull the 224.38 repeater pre-amp to put the repeater back into operation.

Dave-KD6EBY checked on the 2x1680 Ahr of storage cells (14cells @ 1680 Ahr each). This summer we will probably add 24cells @ 1680 Ahr each for a total of 5ea 15v-strings at 8,400 Ahr which should last for a few hours of emergency operation ...possibly 1-3 weeks depending upon repeater usage and that, if needed, can be extended by connecting to a 110vac generator at the site.

Dave checks the batteries at least once every two weeks during the year ..and more often as need. He also monitors the temperature of the buildings.

(3-??)#9 Mike-AB6QT installed the pre-amp in the 224.38 repeater which Art-KC6UQH had earlier repaired and sensitivity appears to be back up to almost normal.

(4-2)#10 Stan-W9FQN took a pre-amp constructed for the PALRPT 146.7(-) by John-WB6IQS and installed it to increase sensitivity but for some reason or another it heard everything except 20m so it was removed from the circuit. The repeater was then re-adjusted to operate with the squelch off allowing the TNC to take advantage of its Data-Connect-Detect mode which improved things but all weak signals are still trashed. The problem appears to be desense cou-

pled with audio feedback through the TNC. It is almost like the transmitter was coupled strongly to the receiver. It is now suspected (after leaving the mountain) that the system is operating on two corner reflectors rather than the one reflector intended. If the transmitter is connected to the duplexer (filters) and the receiver is not but connected to our 2nd corner reflector without filters, then this would account for the severe desense and the pre-amp hearing everything since the corner reflectors are mounted on the face of the tower about 10 feet apart.

What was thought to be a 45 minute adding of a pre-amp turned into several hours and FQN had to pick up his daughter at the airport so no "real or lasting" changes were made. At least we have some things to check on next weekend.

Personal contacts were made with several neighbors in the area and possible agreements discussed with each for some of PARC's proposed activities.

(4-00)#11 John-WB6IQS and Stan-W9FQN visited the site to look at PALRPT, 146.7-. John discovered that there was about 10db desense of the receiver by the transmitter but the cause could not be determined with the equipment on hand. The new pre-amp was installed and John connected up PALRPT to a 12vdc source for emergency power.

Stan, using a power meter he recently constructed and calibrated, measured the power consumed by PALRPT as 100 watts in the receive mode and 170 watts transmitting at 6 watts output. This is about \$11/mo in standby mode. We were surprised but it indicates to us why our electrical bill has been running about \$120 per month. Ten repeaters times \$11 per repeater per month gives us \$110 just in standby with no transmitting. Next time up we will check on the rest of the repeaters at our site.

We had previously measured standby at 12vdc as 2A and transmitting as 11A for one of the repeaters which seems quite differ-

ent from the 110vac values measured. We will be measuring the power consumption of the other repeaters sometime soon.

Jim-KC6PAS dropped in and he and Stan installed a rope boundary around the property so that people found on the property are known to be trespassing. One of these days we will put up a fence.

(4-15)#12 John-WB6IQS and Stan-W9FQN picked up two 2-meter antennas (Station Master and Super SM by Phelps-Dodge) and a Andrews UHF for 70cm in La Mesa. Brand new these antennas were \$550-700 but the club paid only \$100 for them and we were also able to buy some 7/8" hardline with two connectors reasonably. A 6-meter beam was thrown into the deal for a club project.

(4-16)#13 Art-KC6UQH visited the QTH of Paul-KD6JXY and installed an interface between his radio and tape recorder so that he can play NEWSLINE and the RAIN report.

(4-21)#14 Dave-KD6EBY again checked the batteries and need his 4-wheel drive to get in and out of the repeater site. =PARC=

\*\*\*\*\*

Thanks to:

\*\*\*\*\*

FRANK RAMME, WB6HFE, for many tools given to PARC for use at the repeater site: 2ea wood saws, large bow saw, 2ea metal saws, large hammer, rubber mallet, pinchers, metal chisel, tin snips, linoelem cutter, Black and Decker .25" drill, 4" vise, crowbar, and metal pry bar. Frank was recently in the hospital and we appreciate his thoughtfulness at this time. =SK=

BILL SMITH, WB6MCU, for the donation of a Henry 2k amplifier to the club which he received as thanks for some work that he did for another ham. =SK=

MARVIN MUNSTER, WB6PKK, for a clean but old Radio Shack printer to be used in a club project. =SK=

The family of LEE WILLARDSON, K6ZMY, for QST/CQ magazines, a tri-band beam and 40' crankup tower. Lee is an engineer (with failing memory) and one of the first developers of jet aircraft. Lee is

moving to Oregon with his daughter. Also to Tim-N6ZUC for calling this to our attention. =SK=

TED STORKE, KD6AKT, for the donation of an IBM keyboard for the club's BACKUP to PALBBS's BBS computer. =SK=

MARVIN MUNSTER, WB6PKK, for a large number of electronic "junk" parts which we will put to good use ..as soon as we find out what they are. =SK=

BILL BOWEN, N6FMK, and Glen Mason for locating some computer items for the club and for your editor to use in connection with the SCOPE. Some day your editor might make it into the IBM world! =SK=

ORLANDO VERNACCHIA, N6QVW, for a box of tools to be used at the repeater site: saw, hammer, small axe, 2-screwdrivers, and a hand full of files.

All donated tools are painted in the club's colors to be easily identified. =SK=

DENNIS VERNACCHIA, N6KI, for the never ending supply of NASA TECH BRIEFS which your editor reads from front to back. =SK=

GEORGE UMINSKI, K6YGK, for a BIG roll of KESTER 44 rosin core solder and a bottle of "flux juice." =SK=

BILL BOWEN, N6FMK, for additional information on some UPS power supplies. =SK=

BILL SMITH, WB6MCU, for seeing to it that Paul-KD6JXY received an interface to work between his tape recorder and his rig so that NEWSLINE and the RAIN report can be played directly into his 2m transceiver. ART-KC6UQH did a slight modification for the connection to the tape recorder. =SK=

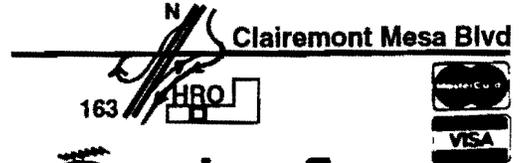
MILT KIESNER, W6MK, for another copy of the W5YI report. =SK=

LARRY RUEGSEGER, WA6UTQ, for copies of packet information from other BBS's that get sent my way from time to time. =PARC=

For those traveling thru ANZA you might try 145.340, 146.085 or 147.15 with PL's of 107.2 (de BROADCASTER).



"LARGEST HAM OUTLET IN THE WORLD"  
ALL MAJOR BRANDS IN STOCK NOW!



Open: 10a.m. - 5:30p.m.  
Monday thru Saturday  
5375 KEARNY VILLA ROAD, SAN DIEGO  
560-4900  
or toll free 1-800-854-6046

# RADWARE: The PC Transceiver

can now be extended to cover 6 Meters, 2 Meters,  
1 1/2 Meters and 70 Centimeters.

A set of components "RADCOMPS" has been developed that simply plug together to build converters, transverters and or the HF output stages for RADWARE.

Call the RADWARE BBS for more info 599-0185

The current introductory price of \$470 for both RADWARE and sound cards ends 5/20/95.  
List price will be \$595 for both cards.



COMER COMMUNICATIONS, INC.  
2598 Fortune Way - Suite I  
Vista, CA 92083 (619) 599 - 0476



# PARC Membership Application

AMATEUR CALL
CLUB MEMBERSHIP? <input type="checkbox"/> NEW <input type="checkbox"/> RENEW
ARRL MEMBER? <input type="checkbox"/> YES <input type="checkbox"/> NO
LAST NAME
FIRST NAME
STREET ADDRESS
CITY
STATE ZIP
HOME PHONE
WORK OR OTHER PHONE
HAM LICENSE EXPIRES
FAMILY MEMBERSHIP (List other calls and names)
CLASS OF LICENSE <b>N T T+ G A E</b>

Mail this form with your check to PARC, P.O. Box 73, Vista, CA 92085-0073 or hand to membership chairman at club meetings. We prefer checks to cash, it's safer and you have a record. Dues are \$12 a year which includes \$3 for the Scope, or \$21 for a family all at the same address. Consider paying for two or three years at a time to reduce the work for the membership chairman.

Name, call and complete address are required. Telephone number is requested but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

1993  
 APR. SCOPE FOLD/STAPLE  
 Editor: Stan Rohrer-W9FQN 30311 Cir. R Ln., Valley Center CA 92082  
 KI6JM Jack Hanthorn, Folding Refresh WA6Y00 . Harry Hodges . Staples  
 WA6UTQ . Larry Ruegseger Folding KB6NMK . Jo Ashley . Labels  
 N6UWW . Ellen Utschig . Labels KC6WAN, Ralph Powell, Printing, Labels  
 N6WQR Bernice Rosenberg Folding Assoc. . Brian Magone . Folding  
 Published monthly by PARC, an ARRL Special Service Club. Membership \$12 including \$3 4-SCOPE. Outside SDC\$4

\*\*\*\*\* I N S I D E \*\*\*\*\*

- 1-49 Last-Next Mtg, Pres Wavelength
- 2-50 Editor, Field Day, .....
- 3-51 Board Mtg, Code Practice, .Ads
- 4-52 Membership, News, .....
- 5-53 Repeater Ops, Rptr. Tech, Ads
- 6-54 Autopatches, News, AG060, ...
- 7-55 For Sale, .....
- 8-56 Wanted, Building, Nets, .....
- 9-57 Ads, Scrounger, Work Parties.
- 10-58 Thanks To, .....
- 11-59 HAM RADIO OUTLET & COMER. Ads

### - P A R C B O A R D -

Pres : Art McBride . KC6UQH 7418143  
 VPres: Sybil Albright W6GIC 2784284  
 Sec : David Doan . KC6YSO 2864888  
 Treas: Jennifer Thieme KM6WG 5991134  
 RptTec: John Kuivinen WB6IQS 7273876  
 SCOPE : Stan Rohrer . W9FQN 7490276  
 MemShp: Ralph Powell KC6WAN 7277415  
 Tech: Mike Doyle . AB6QT 7421573  
 Memb: Marvin Munster WB6PKK 7472223  
 VE Program: Rusty . AA6OM 7475872  
 ATV/Edu. : Bill . KB6MCU 5822313  
 PALBBS : Norbert KJ6ZD 6305538

MAY '95 S. Call?: \_\_\_\_\_  
 (Sponsor's call not required)

SCOPE, US Post Office #076530  
 Published by: --- PARC, Inc. ---

POSTMASTER: Return to -> SCOPE  
 P.O. Box 73, Vista, CA 92085-0073



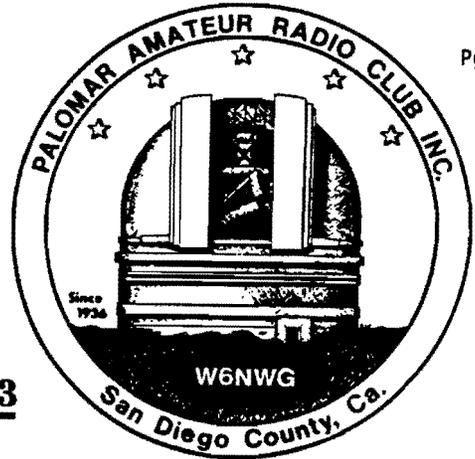
2nd Class  
 Postage paid  
 at Vista CA  
 92085 - 9998

	Vista	Mira Mesa	La Mesa	Fallbrook	Membership Expires PRC yy mm	License Expires LX yy mm
Phone Codes	Palomar	Mountain				
Deliver To						

W6NWX W6NWX W6NWX W6NWX

# Scope

## W6NWX



**Palomar Amateur Radio Club Inc.**  
**Post Office Box 73, Vista, California 92085-0073**

JUNE \*\*\*\*\* 1995 \*\* 59 YEARS OLD

Dues \$12, Volume XXI Number 6  
Coffee 7pm, Mtg. 7:30 pm @ Carlsbad Safety Center(CSC), Palomar Airport Rd.to N.on Camino Real(S11),east on Faraday .25 mi,left to CSC,TB 14F6.  
Talk-in on 146.73

\*\*\*\*\*  
OPEN REPEATERS / CLOSED AUTOPATCHES  
PARC PALOMAR MT.REPEATERS(W6NWX):

PARC W6NWX Trustee: Ron-WI6B  
Autopatches(4): 146.730-, 147.075+\*  
147.130+\*,449.425+\*

PKT: 145.052s PALMAR W6NWX-1 Open  
(linked 9600 METROLINK)  
146.700(-) Duplex BBS/EMG use  
145.070/146.700 W6NWX-3/PALBBS  
KJ6ZD SYSOP(QTH Vista)

ATV IN:915 WBFM,919 AM,2441.25 WBFM  
Intercom: 146.430, PL 79.7 NBFM  
OUT: 1241.25 AM

Emergency: 426.25 & 434.00 AMTV  
with 224.74, PL 107.2 Voice  
Linked Amateur Television Network  
via WA6SVT repeater on SantiagoPk  
OTHER:224.380-\*KK6KD; 224.9-\*WD6HFR  
146.175+\*WA6IPD; \*=107.2Hz

\*\*\*\*\* C A L E N D A R \*\*\*\*\*

- Jun 7 Wed.CLUB MEETING, Carlsbad SC
- Jun10 Sat.PARC VE Tests Carlsbad SC
- Jun10 Sat.9-12am Emerg.Drill Ramona
- Jun10 Sat.2pm T-hunting Ramona H.S.
- Jun15 Thu.PARC 7pm Board Mtg W9FQN
- Jun23 Fri.Deadline 4-SCOPE articles
- Jun24-25 FIELD DAY EMERGENCY DRILL
- Jun27 Tue.SCOPE mailed at Vista PD
- Jul131 END OF PARC CLUB YEAR. PLEASE
- >>S E N D U R D U E S A S A P
- Sep11 GENERAL CLASS starts at CSC

\*\*\*\*\*  
L A S T M E E T I N G  
\*\*\*\*\*

Attendance was 131 members and 9 guests for a total of 140 ...and we still had people who did not sign-in! There are very few clubs in the world that have that many amateurs

attending a club meeting.

Kerry Banke-N6IZW took us through the world of Microwave, its uses, and applications to the world of amateur radio. Kerry had lots of microwave equipment for us to look at after the meeting and he also donated a box of 9vdc @ 1A wall transformers. Kerry was assisted at the projector by John-KD6CDH.

Kerry also gave his thanks to PARC for allowing the MICROWAVE group the use of the 146.730 repeater Monday evenings at 9pm for a Microwave net. He thinks that it is this forum that helps the microwave group communicate and also introduce new people to the group and its activities. (PARC is interested in helping groups of amateurs by providing them "net time" on our repeaters. Contact your editor for more info -Ed).

SHOW & TELL had John-N6URW with a RACES report; Fred-W6HPH with a \$2 spectrum analyzer from 0-850Mhz that worked like \$1000 bucks; Dave-KC6YSO on ARES; N6UWW on Field Day with assistants Brian-KF6C, Wayne-WD6AHX, Mark-AA6TR, Bill-KC6YOX, and Harry-WA6Y00; Ted-KD6AKT on packet in the RACES shack (thanks Ted); Brian-KF6C on his basic amplifier modules for his transceivers; Sybil-W6GIC on Del Mar Fair and need for operators; Gayle-KM6WF on the SAREX mission with a contact to Fallbrook HS; Andy-KE6SEH with free disks on Super Morse; and Bill-KC6YOX showing his 70cm crossed yagie.

SHOW and TELL is an important part of PARC's meetings and if you can find at least one new thing to think about in Show & Tell -or the meeting speaker- your trip to

Carlsbad was probably worthwhile.

Ken-N6ALA made a video tape of the meeting and will show it April 8th at 8pm over the club ATV repeater, W6NWX.

ART-KB6YHZ & Anita-KB6YHY made the coffee and supervised the drink and goodies ..and members bringing goodies: Bill-KM6PY, George-K6YGK, Jerry-N6TCB, Dianna-KE6LGY, Mac-WB6GXR, Paul-N6ISC, and Norm-N6QQF.

THANKS TO THE GOODIE BRINGERS FOR HELPING MAKE THE CLUB MEETINGS A BIG SUCCESS.

Goodies were great and you were rewarded with "1" participation ticket. =PARC=

\*\*\*\*\*  
NEXT MEETING - VPres. W6GIC  
\*\*\*\*\*

PLEASE COME EARLY and help set up chairs.

Club meetings start at 7:30pm but many of our members come at 7pm so that they are able to talk to friends, look at items on the junk table, see equipment as it is being set up, watch demos on packet, and look thru the FREE magazine table.

The program for June 7th will be on FIELD DAY by Ellen-N6UWW and Brian-KF6C.

SHOW & TELL: Please see me before the meeting to reserve time for your SHOW & TELL item(s).

\*\*\*\*\*  
1 4 6 . 7 0 0 (-) P A C K E T  
\*\*\*\*\*

The weather has permitted us to go to the Mountain to look into the problems with the new 146.7 duplex repeater (see REPEATER TECH). We hope that it will now be more useful.

There are some things to remember about this new repeater which

many NEW and OLD packet users are not observing.

This is a DUPLEX REPEATER and it is not a NODE or DIGI. You DO NOT CONNECT to it! With a voice repeater such as 146.730 your voice comes out over the repeater as you are talking. The same is true with 146.7. You cannot CONNECT since it is transmitting at the same time you are transmitting. Your packet has left the repeater at the same time (almost) that your packet leaves your rig ..just like the voice repeaters (do you every hear yourself over our 2m repeaters while you are talking?).

The packet repeater does not use a PL and you have to use a downward split of 600kc.

To run a test, issue a "C PALBBS" from your QTH. Your signal will be instantaneously repeated from Palomar Mt. to PALBBS in Vista and your connection should be almost immediately acknowledged. The effect is the same as if your QTH was on Palomar Mt. and you issued a "C PALBBS". The connection should be just as rapid (minus a few micro-seconds).

There is an exception to the above. PALBBS has the possibility of operating on 145.05(s), 145.07(s), and 146.7(-) at the same time which is almost impossible since there are NO FILTERS on Norbert's PALBBS receivers or transmitters. This means that if PALBBS is transmitting on .05 or .07 at the time your packet is sent, there is an excellent possibility that the .05/.07 transmitter(s) will desense PALBBS's 146.1(146.7) receiver causing your packet to be lost. We hope that as 146.7 becomes more reliable that the use of 145.05/.07 will decrease in favor of the more efficient 146.7 Pkt repeater ..resulting in less packets "lost." The reverse is true also. If PALBBS's 146.7(-) transmitter is transmitting, there is the possibility of your losing packets on .05/.07. PARC has spent thousands of dollars for filters to keep the five 2m transmitters and receivers at our site on Palomar

Mountain from "desensing" each other.

With filters, PALBBS would probably be able to operate 145.07s (simplex) and 146.7(-) without desense. It would be almost impossible to operate 145.05s and 145.07s at the same time since their frequencies are only 20kc apart and filters are not that sharp.

The 146.7(-) repeater does have a call and a six letter designator (W6NWG-4/PALRPT) ..but you can't use them to make a connect. SO DON'T TRY! How can you connect to a repeater that is broadcasting while your receiver is dead (you are transmitting).

You cannot enter 146.7 through any other NODE or DIGI. It is not LINKED to any other packet unit. This is a STAND ALONE repeater.

This repeater makes ALL PACKET transmitters EQUAL. If you have a 1-watt signal and you are in a hole, a 500-watt signal will not cover you up like with a DIGI or a NODE because the 500 watt station's TNC will not broadcast when it hears your 1-watt signal being repeated by the repeater on Palomar Mountain.

It has been proposed that this repeater be used for:

- a)Emergency NTS traffic
- b)The use of a new ARES BBS(PALDAT) which would handle ARES DATA for:
  - Hospital patient location
  - People in Evacuation Centers
  - ARES personnel & equip-location
- c)SDCo NTS traffic messages in and out of San Diego County
- d)Station to station contacts by club members.

The only two BBS's on the frequency should be PALBBS and PALDAT which should keep the frequency clearer than 145.05, 145.07, etc. If you hear any other BBS's come up on the frequency, please let us know immediately so that we can take care of the problem ASAP.

This repeater is FOR EMERGENCY USE by ARES in San Diego County during emergencies and for the use of PARC's club members or amateurs wanting to use PALBBS during non-

emergencies. Have fun! =PARC=  
\*\*\*\*\*  
- MAY BOARD MEETING -  
\*\*\*\*\*

BOARD: KC6UQH W6GIC KC6YSO  
KM6WG WB6IQS W9FQN KC6WAN\* AB6QT\*  
WB6PKK (\*ABSENT).

OTHERS: W6HCD (former PARC sec.), KB6MCU (ATV & Training), N6UWW (FDC), KF6Q (FDC), N6ALA, KD6VHI, KD6JXY, and KE6SEH.

The 7pm meeting was at Stan-W9FQN's QTH and started at 7:13 and ended at 10:00pm. Several board members were late.

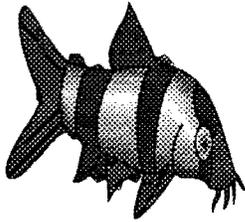
Stan had half-baked goodies for us to munch on during the meeting and apple juice to drink.

- SECONDS -

DISCUSSED: Year 75% completed and most accounts where they should be for this time of the year; \$4064 Equip. Bal, \$2075 Gen. Purpose, \$5487 Pre. Pd, \$ 108 Post Office, \$ -0- ATV, \$ 135 PALBBS; PARC flag possibilities??; Picnic at Palomar Mt??; Only 135 chairs at Carlsbad Safety Center; Raffle for those signing up for more than 2 years??; Changes to PARC brochure for new printing; Greeters??; ARRL renewal form in SCOPE; Del Mar Fair need of operators; 740+ members; Seller's table at meeting (WB6IQS); 13 still in KB6MCU's Novice class; New control code sheets; FD problems and assignments; Programs; Audit of funds delayed for several months; Dropped ads & new ads; Paul-KD6JXY and KE6SEH (non-club-member??) talked on proposed free program called INSIDE AMATEUR RADIO to be on cable TV system; PARC participation in WPX on the 26th and 27th of May; and FD net starting immediately on 146.730 at 7pm Sunday evenings.

APPROVED: Next board meeting at Stan-W9FQN's QTH in Valley Center; Approved stationary printed by Terry-K3PXX with help from Jo-KB6NMK; John buying extra heliax for \$60; \$200 for FD supplies; KM6FQ to take PARC's tube yard; and \$300 again this year for jacks for Mac-WB6GXR's donated camper; work party May 21st;

Contact a board member 4-info.



### SPORTFISHING

ON THE WINDSONG  
Oscar Olson KE6EDC, Captain  
619-673-9201

## Printed Circuit Board Design

*J.T. (Tim) Low*  
**N6ZUC**

*Phone or Fax*  
**(619)735-9125**

**2946 Amanecer Place**  
**Escondido, CA 92027**



The PREMIER source for  
**Contract Engineering &  
Technical Services.**

- Long or Short Term
- Direct Placement
- Payroll Services
- Employee Leasing

**Steve Grant, N6RUV**  
Division General Manager  
**(619) 565-4992**

\*\*\*\*\*  
PRESIDENT'S WAVELENGTH KC6UQH  
\*\*\*\*\*

Field Day is almost here. We still need everyone's help in making this Field Day a success. Please contact Ellen, N6UWW our Field Day Coordinator or check into the Field Day Net 146.730 Sunday at 7:00 P.M. Ellen is still making work assignments and accepting loans of Equipment, Trailers, Antennas, Generators etc. We are looking for a Satellite station. It appears that we have 6 hours on Oscar 13 to make contacts using mode B. The craft attitude looks good for this year. Alon/Alat 180/0 moving to 225/0 on July 31. This could easily give us an additional 300 contacts with a little effort from a small group as well as introduce satellite communications to many of our new members. We need a Team Captain for this station and equipment. If you do not operate at the Field Day site please look for us W6NWX and (N6YMD Novice/Tech Station) on the bands and give us a point (11:00 A.M. June 24 thru 11:00 A.M. June 25).

Every Club Member needs this practice to remain proficient in emergency communications. This is the prime reason for our Field Day exercise. While we can not simulate a real emergency we need the training in maintaining several stations on the air under emergency power for a 24 hour period. Field Day is not just operating. In order to operate we need to maintain generators, equipment, antenna systems, station logs, first aid, and meals. We do operate as our own community for a 24 hour period. This year will separate the men from the boys as the H.F. propagation will be at its worst. This means only the best stations with the most efficient antenna systems will get through. This also means that the longer wave length bands will carry the larger number of contacts. Antennas are larger and we can not setup emergency towers 120 foot high for emergency communications safely. To be effective in the 40, 80, 160

Meter bands we must experiment with other types of antennas that can be erected quickly and safely so that we do not become a second emergency if a real emergency occurs. The next sun spot minimum is 11 years from now. Do not miss the last chance in this Century to operate under the most adverse conditions Mother Nature has offered us. This Year will be the best training Field Day has to offer until the Year 2006. Remember in a real emergency H.F. is still the main communications artery for contact outside our local area. Other emergency exercises are conducted on local V.H.F. repeaters that may not be in service during an emergency. In this respect Field Day is different. Do not miss this one.

As a service to our Club members we have for many years offered the PARC Tube Yard in an effort to keep members older equipment on the air. Dave, WA6HQM has maintained the tube yard for the last several years. He inherited it from Larry, AB6LY. Dave has done an outstanding job in cataloging, testing, and storing these artifacts of time. Dave is planing to move from the area in the next six months and asked to be relived of this responsibility. Kevin, KN6FQ volunteered to take over the PARC Tube Yard beginning this month. His current phone number is 432-8381 and his QTH is in Escondido. Kevin restores old Amateur equipment and is active on the Inter-Net in trade or sale of old Amateur equipment. Note: Kevin's phone number is incorrect in the current Club Roster.

We have had some recent arrivals of tubes and Kevin will be merging them into the stock maintained by Dave. Members that use this service are asked to make a donation of 20 to 50 percent of the new price of the tube, dependent on condition, to PARC equipment fund. This will help finance parts for our Club owned equipment including our repeaters. Thank-you Larry, Dave, and Kevin for keeping this valuable service alive for our Club Members.

I would like to thank all those

members who sent signals while we were testing the 146.700 packet repeater at the site on May 21st. Unlike voice repeaters it is difficult to determine system performance without several eyes and ears helping us.

73, and C U on Field Day, =PARC=



LATE DELIVERIES: If you are receiving the SCOPE on Friday or Saturday (or later) of the week before the club meeting (or after), you should complain to your local post office about the poor delivery.

The SCOPE is mailed around 2pm of the week before the meeting and should be at your QTH by Wednesday or Thursday of the week before the club meeting. Second class mail is handled like 1st class mail and your carrier should be bringing it out as soon as it arrives at YOUR post office.

If you receive the SCOPE late, ask for or pick up a COMPLAINT form at the post office. Fill it out and send it to the address marked on the envelope. Note that it goes to Washington and not to your local post office. Washington notes the complain and then asks YOUR local post office to respond to the problem. Can you imagine the problems this causes to the local post office? They would rather deliver the SCOPE on time rather than answer all of the letters from their bosses in Washington about our late deliveries. This is one way of getting the local post offices on the ball. Sometimes the locals treat our 2nd class mail as if it were 3rd class and this can be corrected IF YOU COMPLAIN.

COMPLAINTS must be initiated by the receiver and not by the sender ..so its up to you to improve your service. PARC does everything just like the PO says so its not our fault if you get it after Friday. At present most problems seem to be with Escondido and Oceanside. If there are others, please let us know. =SK=

My APOLOGIES to anyone who I have "messed-up" their call letters ..especially Bill-KB6MCU. I type at a rate of 60wpm and things just don't always come out as I would like to have them come out. Ralph-K6HAV (we haven't forgotten you), former SCOPE editor, always thought I had dyslexia ..and maybe he was correct. =SK=

Your editor has been playing TENNIS for about as long as he has been an amateur radio operator (1953) and if it were not for these two activities I would not be here in California.

There are lots of amateurs who play tennis and I suspect there are quite a few in our club of 850 members who play. Your editor plays mixed doubles and of the four players, three are amateur radio operators (2-OM's/1-YL). So far we have not been able to find a YL to fill in for the one non-licensed YL when she is absent. =PARC=

MEMBERSHIP KC6WAN

NEW CLUB MEMBERS wanting confirmation of their membership and/or an autopatch information sheet and/or FCC 610 form should send to me at the club's address a (S)elf-(A)ddressed (S)tamped (E)nvelope (SASE) requesting same or see me at the next meeting. 3yrs= Daryl Von Mueller.

2yrs= Allen-Chevalier KD6HYS-David KD6JAT-Scott N6PXA-Ted VE6RGP-Ron .

1yr= Veronica-Miranda Dary-VonMueller Penny-Kramer Norma-Pinal Veronica-Miranda WA6AUK-David N6CFY-A1 K7DCG-Dennis KD6DJM-Mark WB8EJI-Steve KE6GBE-Jeff KE6GSI-Steve KE6GYB-Steve AC6LG-Wayne KE6MRT-Art NI6N-Maurice KE6PTX-Barry N6PXZ-Ted N6QMI-John KE6QV-Charles KE6QZY-Joe KE6RWT-William KE6SEH-Andy KE6SLL-Norman KE6SQI-Steve W6TDC-Lee KE6TEA-John KE6TEC-Negus KE6TIA-Harold KE6TXD-Jeff N6WPA-Grace KA8ZIM-Bruce .

CHANGES: Jo Ashley KB6NMK to advanced, Bill Dewey WD6AHW to advanced, and Larry Kenan KD6CKR to K06SM.

The following members received ONE (1) point for sponsoring a new club member: Ray-KE6LZN and Mike-KE6VHI (3).

To receive a point for sponsoring a new club member you will need to instruct the potential new member to write on his application that you are the sponsor. Otherwise, your editor is not aware of points to be awarded to members.

73, Ralph 727-7415 =PARC=

- A R R L -

If you are re-joining ARRL through the club (we get a percentage), make sure that you provide to Ralph-KC6WAN or Jennifer-KM6WG your stamped envelope so that your renewal can be sent immediately to the ARRL.

If you are joining the Amateur Radio Relay League (ARRL) for the first time, please complete the following information and get your check to us ASAP:

JOIN the A R R L
Membership + QST magazine
Dues: 65 and over
. 1 yr \$30 . . \$24 .
. 2 yr \$57 . . \$45 .
. 3 yr \$80 . . \$65 .
Name \_\_\_\_\_
St. \_\_\_\_\_
City \_\_\_\_\_ Call \_\_\_\_\_
State Zip + \_\_\_\_\_

Remember, dues cover membership and also QST magazine.

FC FORM 610A dated June93 is an APPLICATION FOR PERMIT OF AN ALIEN AMATEUR RADIO LICENSEE TO OPERATE IN THE UNITED STATES. It is to request a reciprocal permit to operate an amateur station in the USA. =SK=




If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate! Radio systems installation, repair and removal, and interference resolution.

**Edward Ross, N6GZI**  
542-1405

# Antenna Specialties

Need a new QTH or want to sell yours?

Call Clara Ziegler  
**943-8366**  
to be your agent for north county coastal properties




Expect the best.

**Pete W3ARU's XYL**

**ORGANIZING A NEW  
IBM CLONE USER  
GROUP**

NOT Ham Oriented  
No Packet, no RTTY

Meets 2nd Wednesday in  
old City Hall in San Marcos  
at 7:00 p.m.  
Call 727-7415 for details

REPEATER OPERATIONS W9FQN

It is not necessary for you to come on a repeater and to ask, "IS THE FREQUENCY IN USE?"

The phrase, "IS THE FREQUENCY IN USE?" is a term originating on the HF bands where you usually cannot hear one of the other stations because of the signal skip zones. Of course, on our repeaters you can hear BOTH sides so the question is really not needed or desired. It is an unnecessary transmission. We have yet to hear someone come back and say, "yes, the frequency is in use."

If you do accidentally jump into a broken drawn out conversation and there is a complaint, don't feel bad since they are the ones committing the error by not making their transmissions continuous.

PARC does not approve of a home station giving directions to a mobile on the repeater where they make transmissions, stop for a minute or so, and then more transmissions without call letters. This is hogging the repeater. We have heard other stations during these blank spaces assume (and rightly so) that the frequency is clear and they start up a conversation with someone else which means that the original two stations are in violation of FCC rules for not having identified before there last transmission. The FCC says you have to identify every 10 minutes or at the end of your last transmission.

We do not approve of two mobiles talking to each other where one person says something short and then the other one replies after the repeater drops a minute later. If you have something to say, say it ..and then get off the repeater (sign-off with your call) and come back sometime later to finish the conversation.

If you have just turned on your rig and have listened for at least 10-15 seconds and hear nothing, you can assume the frequency is not in use. Conversations on our repeaters

are to be continuous so if you don't hear anything, you are free to transmit but make sure that your first transmission is not longer than 10 seconds so that if there is an emergency situation on the frequency, you can be notified at that time of the frequency being in use. =PARC=

REPEATER TECHNICAL WB6IQS

Mike-AB6QT, who works with the 449.425 repeater, has started to work on a replacement 449.425 repeater with a new controller. There are a few minor problems with the present 449.425 transmitter and we wanted to replace the old controller card for one of our newer ones.

This would take a lot of work and remove the repeater from the building for several weeks. Mike decided that it would be easier to build up a new repeater/receiver pannel with the new controller card and just replace the old pannel. Mike would keep the old pannel in while he was working with the new one and after the switch, he would have time to locate the problems in the old pannel. The old pannel would then become a spare for the 449.425 or the basis of a new repeater. =SK=

The 146.700(-) packet duplex REPEATER has not been very useful this past winter because of some technical problems which are slowly being corrected since the weather has improved so that we can get in and out of the site easily.

First, we had to change out the old RTTY Demodulator/Encoder for a crude packet D/E to see if the idea was practical. The test seemed promising so we removed the repeater from the mountain and installed a modified MFJ-1270B. In making the change we ended up with a 10dB desense problem which was probably there this past winter but showed up more on the new packet setup.

A closer inspection of the problem on May 21st indicated that the desense was coming from the

cavities which were first installed in the early 1970's. A new 4-cavity pack is on order and should be in by the June 11th workparty.

Thanks to all of you who gave us packet beacons on 146.7 on the 21st for the tests we needed to run. It is our understanding that 146.7(-) is now operating properly even though we are using one corner reflector for TX and spare one for RX. =SK=

The Americus United 224.38 group have been having problems with their antenna system so they replaced the 9913 (it checked good) with used heliax. The problem (high SWR) seems to have come from water in the junction between the antenna and the 9913 on the antenna side. It is not known if the water came down the antenna into the junction connector or if it came in at the taped junction. The new junction has been sealed with "coax-seal" and tape. =PARC=

\*\*\*\*\*  
- AUTOPATCHES - W9FQN  
\*\*\*\*\*

Autopatch users are reminded that PARC has appointed YOU as the assistant control operator for the autopatch you are running. You are in complete control of the autopatch and responsible for EVERYTHING that is said over the autopatch. YOU are the one with your hand on the button and if you feel that the person on the other end of the patch is going to say something IMPROPER, all you have to do is press your microphone button. When you are transmitting it CUTS OFF ALL AUDIO from the autopatch and all that is heard over the air is your transmitter and your voice, if you talk.

If there is music on their answering machine, YOU ARE RESPONSIBLE FOR THAT ILLEGAL MUSIC SINCE YOU ARE THE ONE THAT MADE THE CALL AND PERMITTED THE MUSIC TO GO OUT OVER THE AIR. You can't blame it on the other person's answer machine because it is YOU who is permitting it to be broadcast over the repeater. If you call a place of business with music, YOU ARE

RESPONSIBLE and in complete control of the patch.

IF YOU CANNOT ACCEPT THIS RESPONSIBILITY AND CANNOT CONTROL THE MUSIC OR IMPROPER WORDS, YOUR AUTOPATCH PRIVILIGES WILL BE REMOVED and the GIANT computer will automatically drop all future calls that you make.

Fortunately, this has not been a problem with PARC's autopatches since CONTROL OPS usually "nail" the users immediately who permit music over the repeater.

We usually repeat this warning several times a year for the benefit of new members. =SK=

The autopatches were installed for EMERGENCY USE but PARC knows that they need to be used for other things just for practice. If you don't use the autopatches, you will loose their use since you won't know how to use them when the emergency presents itself. It takes practice and you need to use them automatically without too much thinking.

You need to keep all autopatches SHORT ..under 60 seconds. The conversations should be clear, concise, not frivolous, and to the point. Therefore, words like HONEY, I LOVE YOU, SWEETIE PIE, LOVE AND KISSES, I MISS YOU, CAN'T WAIT TO GET HOME TO SEE YOU, etc. should be reserved for the telephone and not broadcast all over 2,000 square miles of San Diego County. These are not words of essential communications.

If your HONEY doesn't know that you love her by this time, your telling her over the repeater isn't going to make it any more valid.

AGAIN, THE AUTOPATCHES ARE FOR EMERGENCY COMMUNICATIONS WHICH WE ARE ALLOWING YOU TO USE FOR OTHER THINGS AS LONG AS YOU DON'T TIE THEM UP FOR MORE THAN 60 SECONDS WITH UNNECESSARY COMMUNICATIONS. =SK=

YOU ARE REMINDED THAT WHEN PARC SAYS THAT YOU NEED A 107.2HZ PL TO USE THE AUTOPATCHES, BELIEVE IT! If you do not have a PL of 107.2Hz, your voice will not be transfered to the phone line. Just because you

bring up the autopatch on 146.730 with your PLed transmitter does not mean that someone without a PL can then talk over the autopatch connection to the telephone. It is true that YOU will hear the voice of the person without the PL but his voice WILL NOT be transfered to the phone line without a 107.2Hz PL.

YOU NEED A PL OF 107.2HZ TO TALK OVER THE PHONE LINE! If we told you once, we told you 100's of times. =SK=

PARC uses a computer system to record all digits dialed by you along with any other codes you might issue to operate your answering machine or the number you are leaving with a pager call ..or your "secret" message digits. We also tape record the conversation and maintain these stereo tapes for 4-5 months in case there is a question about your call. One channel carries the voice information and the other carries the day and exact time of the call.

Please follow our guidelines for making your call so that we have at least two opportunities to get your call letters on the tape.

- |                                    |
|------------------------------------|
| 1)push your PUSH-TO-TALK switch    |
| 2)dial your ACCESS CODE            |
| 3)(say your call) ACCESS AUTOPATCH |
| 4)release PTT to hear dial tone    |
| - - - -                            |
| 5)push your PTT                    |
| 6)dial 7-digit PHONE NO.           |
| 7)release PTT to hear ringing      |
| - - - -                            |
| 8)talk to your party               |
| - - - -                            |
| 9)push your PTT                    |
| 10)(your call) CLEAR PATCH         |
| 11)press the "*" button            |
| 12)release PTT switch, THE END     |

By following these 12 directions, you will have your call at the beginning of the tape recording and also at the end of the tape recording for FCC recording purposes.

CONTROL OPS who do not hear this sequence are immediately alerted that the person making the call might not be a club member since they do not know the proper

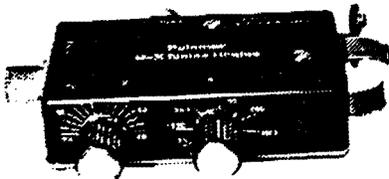
**Jennifer A. Thieme  
KM6WG**

**Bookkeeper  
Accountant**

**(619) 599-1134**

**770 Sycamore Ave. #J-126  
Vista, California 92083**

## R-X Noise Bridge



- Learn the truth about your antenna.
- Find its resonant frequency.
- Adjust it to your operating frequency quickly and easily.

If there is one place in your station where you cannot risk uncertain results it is in your antenna.

The price is \$79.95 in the U.S. and Canada. Add \$4.00 shipping/handling. California residents add sales tax.



Send for FREE catalog describing the R-X Noise Bridge and our complete line of SWR Meters, Preampifiers, Toroids, Baluns, VLF Converters, and Loop Antennas.

**PALOMAR  
ENGINEERS**

Box 455, Escondido, CA 92025  
Phone: (619) 747-3343

procedures for making an autopatch call. =PARC=

\*\*\*\*\*  
FORESAIL mmmw. .wmmw  
\*\*\*\*\*



Take a Bow

Ph/send ads 2 W9FQN (C Ed's addr) B4 20th of mo. w/ur NAME, CALL, Ph #, & CITY. Personal ads FREE 2 members. Others cost 25c/col. line (35spaces). =SK=

Block ads: business card (1/3rd col.) \$5; 2/3rd col \$10; 1 col \$15; 4 card size (almost 1/2 page) is \$20 per issue. Billed Feb, May, Aug, & Nov.

Keven Sanders, KN6FQ, in Escondido will soon be handling PARC's extensive tube bank. Contact Keven at 432-8381.

\*\*\*\*\* NEW ADS \*\*\*\*\*

(5-30)TI computer with cards, games, etc \$M0; Radio Shack Mod I computer \$M0: Stan W9FQN 749 0276 for PARC.

(5-25)Yesu FT-5200 dual band (2m/70cm) mobile ex/cond w/remote head and mobile mount \$395: Phil KC6TYT 944 7741 Carlsbad.

(5-25)Kenwood TS680 6m all mode \$650; Yesu FT225RD 2m all mode \$275; Yesu FT2400H 2m mobile \$225: Bill KC6YOX 433 4626 Ocsd.

(5-22)Astron RS-35A pwr supply \$110; QRZ! Ham Radio CDROM Vol.4 (used once) \$10: Duane AA6EE 789 3674 Ramona.

(5-20)Two(HP851B, HP8551B) Spectrum Analyzers complete w/manuals & spare parts for 10MHz to 22GHz. A vacuum tube & transistor oldie ..but goodie. One was functional until a year ago when I moved. The other is complete but strictly for spare parts \$150 (OBO) for all: John WB6IQS 727 3876 Vista.

(5-15)Yesu FT-2400H 2m mobile \$225: Clint KD6JXW 909 696 0912 Murrieta. (5-17)Tempo 2020 w/extra VFO \$150; ICOM m2AT w/extra batteries, charger, mobile charger + accessories \$200: Alf WB6TAW 941 2428 Vista.

(5-16)Tandy TMP-105 printer w/man \$15; Apple Li+ complete to go 2-drive 12" monitor, Epson 7-pin printer all manuals \$1000's worth

software ed, games, etc \$75; Chuscraft triband \$100; 4e1 10m mono bander \$40; Radio Shack #20-0114 all band ant, scanner, tunes 6, 2, 1.5m \$10; Union Carbine RTTY \$10; MITA copy machine 600D w/paper needs adjustment \$10: Steve W6MRM 451 5690 R.Bernardo.

(5-14)HP-9872 plotter 11"x17" \$350: Tom K6MDG 789 0711.

(5-11)Kenwood TM-241A 2m xcvr 2-50watts \$376 new in '92 w/man like new \$250: Charlie KE6QU 433 1258 Ocsd.

(4-27)Yaesu FT-411 m HT ex cond w/FNB-11 battery pk, extra FNB-12, DC car adapter-charger \$225; ICOM BP-113 (like new) \$35; BP-5 ex \$20; BP-7 ex \$25; ICOM CM4 case for AA nicads (new) \$10; Daiwa SWR/PSR meter CN-720 ex \$85: Larry WA6PLX 286 2839 SD.

(4-20)Ameriton AL-80B KW amp 10-160m (see May95 QST pg18) \$650; Drake High Patch phone patch \$20; Optoelectronics handi-counter 10hz to 2.4 GHz \$100; B&W 1500w dummy load wattmeter Mod 374 \$100; Aston RS35m with amp & voltmeters \$110; Yesu 208R 2m HT \$65; Hallicrafters SR400A xcvr Cycone III with pwr supply & mike (mint) \$300; Simpson 260 series 7M multimeter w/case (like new) \$65; Butternut vert ant 10-160m (U take dwn) \$50; BK Digital Multimeter Mod 2881A, BK Scope Mod 1540M 40Mhz dual trace & Elenco Sig Gen Counter Mod SC9500 (make offer); James Millen Ant impedance bridge & Millen Grid dip meter 1.7 to 300 MHz \$45: Wayne W6RWV 724 0777 Vista.

(4-5)COMMODORE 128 computer, 1571 disk drive, 1902 color monitor + software \$100: Pete W3ARU 943 8366 LaCosta.

(3-31)Phase Converts(2ea) on 220vac (give yourself an extra leg!), 1)5hp Convert-A-Phase rotary \$500, 2)3hp Phase-A-Matic static \$100: John KD6LDI 729 1804, days Carlsbad.

(3-30)IBM Clone 386-33 computer 100meg IDE HD 3.5" & 5.25" floppies, modum, 1meg RAM, VGA monitor \$375; US Robotics 14.4 Fax/modem <1yr warranty box + manuals make offer: Tim N6ZUC 735

9125 Escondido.

(3-16)ICOM 2PAT HT w/DC car charger/sup \$285: Mike K6PZN 693 3915 SD.

(3-10)ICOM IC-751A w/PS-35 internal pwr supply new in box \$975; Drake MN-75 antenna tuner 160-10m 2kw \$275: Allen N7AMR 434 5656 Carlsbad.

\*\*\*\*\*-OLD ADS PRINTED ON ODD MONTHS \*\*\*\*\* W A N T E D \*\*\*\*\* "A place to stand"

(3-2)All types of Collins speakers and accessories (old-new): Agent 4-W4ESQ, Stan W9FQN 749 0276 VC.

(2-15)FALLBROOK HIGH SCHOOL will take any and all donations of amateur radio equipment. We need radios, a Tri-band Beam, etc. (it's all tax deductible). Please contact Fritz Schattschneider, KE6EKY, at 723-6357 or Gayle Olson, KM6WF at 723-6402.

OLD WANTED PRINTED ODD MONTHS=PARC=

\*\*\*\*\* B U I L D I N G ? ? W9FQN \*\*\*\*\*

The following club members have volunteered to serve on the committee looking into the possibility of building a new block repeater building:

- W6GCI, Sybil Albright
- KB6MCU, Bill Smith
- KD6VHI, Mike Pennington
- .....(your name?).....

Stan-W9FQN was appointed chairman of the committee and of course, our club president, Art McBride, KC6UQH, is an ex-official member of all PARC committees.

We would still like to have a few more members to serve on the committee who have building experience or some time to help the committee. It needs to be remembered that this committee is not a group to BUILD a new repeater building but its main purpose is to see if we really need a new building and if so, what type of building should it be with estimations of its projected cost.

The committee will submit to PARC's Board several alternatives for the Board's discussion and

decision along with possible funding plans. At that time, if the Board decides that a new building is necessary and practical, then the Board will probably appoint another committee to obtain the new building.

The committee will be looking into the following areas:

- 1)condition of all buildings for the next 15 years.
- 2)repeater needs for next 15 years.
- 3)buildings already available to PARC but not at the site.
- 4)impact of new bldg on neighbors.
- 5)construction cost of block bldg.
- 6)alternate buildings (Cargo Container.
- 7)impact of cost/effort on PARC. (ie, other projects not done?)
- 8)methods of financing a project.
- 9)problems with local construction permits for Palomar Mountain.
- 10)security and lightning probs.
- 11)fire and earthquake protection.
- 12)have we missed anything? Send your comments to W9FQN.

The purpose of this committee is to gather information so that PARC's Board can make an intelligent decision when the time comes. Members comments, suggestions, criticisms, etc. will be appreciated at any time. Please express your views to a committee or Board member. =PARC=

\*\*\*\*\* - AGOGO - K6HAV/KI6JM/W9FQN \*\*\*\*\*

(6-90)(5yr) ..Steve-N6UIA had the program ..Erick-KA6UAI offered to open up his autopatch on 147.13 to PARC members with PARC's prefix computer ..confessions of DX-MAD ham by Vic-N60YG ..Orlando-N6QVW machines boxes for band pass filters to be used at Field Day ..SCRRBA 75cm band plan. =PARC=

\*\*\*\*\* V E T E S T I N G AA60M \*\*\*\*\*

No test results available for April.

Test results for May 13: Tested 18 candidates for 33 elements with 22 passes & 1 no-show.

Upgrades: Ray-KC5KYH Gen->Ad &

Juan-KE6KNN Tech->Gen.

None->Tech: Paul Adams, Bill Butterfield, Lewis Byington, Tom Cowen, Nigel Crawford, Martha Love, Mat Love, and Larry Ward.

Other: Jeff-KC6PVN(3B) and Pat Leonard(2).

TEST TEAM: (non listed). 73, Rusty-AA60M =PARC=

\*\*\*\*\* W O R K P A R T I E S W9FQN \*\*\*\*\*

THE NEXT WORK PARTY WILL BE ON JUNE 11th. MEET AT MOTHER'S KITCHEN PARKING LOT AT 10:30AM (leave your parking lights on if you don't have a Ham antenna on your car). REGISTER WITH STAN-W9FQN AT THE NEXT MEETING OR CALL HIM AT 749-0276 so that if the work party is cancelled, you can receive proper notification.

SCHEDULED: fencing (attaching wire), painting outside buildings gray, inside building cleaning, water leaks, grounding, building security, tree work, mousing, some road work, install a mount for a 22' long 6m collinear, test the new 6m repeater which Bill-KC6Y0X recently built up, and check heliax runs for possible problems.

Of course, all new workers receive a FREE tour of the site!

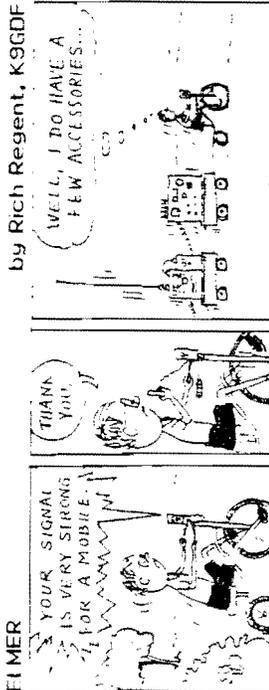
Be sure to bring old clothing, 5 gal of water (if possible), drinking water and something to eat at noon.

In addition, if you can stop by the side of the road near the 4,000' level on the way up the mountain and pick up 5-10 gallons of small rocks (1-3" dia), it would be greatly appreciated. The rocks will be put on the incoming road where we have erosion problems.

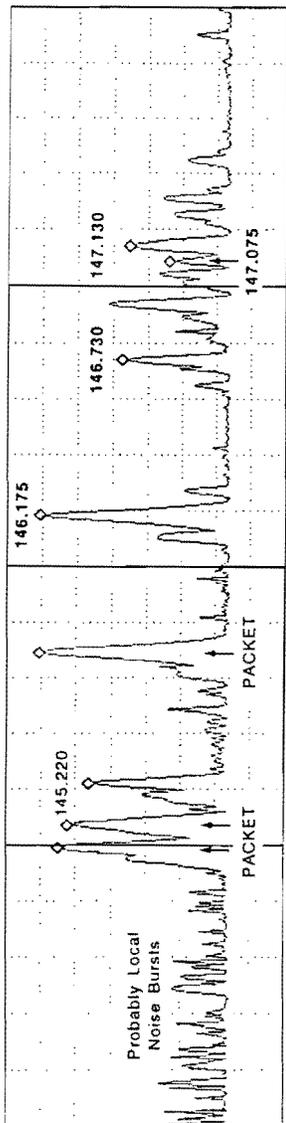
(4-21)#15 After some bad weather which kept us from going to the mountain on the 7th, the 21st was a beautiful day with a bright sun (had a beautiful multi-colored ring around it) while the San Diego County valley floor was dismally covered with a beautiful sea of fluffy white and gray clouds.

DENNIS-KE6MQC and ZAC-KE6MQB installed 25 fence posts (after coating 2.5' with tar) around the

THE 2-METER SPECTRUM RECEIVED AT COMMUNICATIONS GENERAL CORPORATION (CGC), FALLBROOK, CA (Courtesy WA6QQQ)



On May 7, 1995, Bob Gonsett, WA6QQQ, head of COMMUNICATIONS GENERAL CORP in Fallbrook, ran a spectrum analysis of frequency usage and peak signal strengths from his QTH covering 10 minutes. Peak values were recorded. Each vertical div. is 10dB, top line -40dBm, using an HP-8591E spectrum analyzer.



144 MHz 145 MHz 146 MHz 147 MHz 148 MHz

perimeter (392' or 3-sides) of the site and then attached 1.5" dia. donated rope to the posts. This turned out to be an all day job. Wire will be attached by the next work party and part of the 4th side completed (150'). We now have locations to part up to 10 cars on the property.

DAVE-KD6EBY came to the site to check batteries and observe the work in progress. Jim-KC6PAS, member of the local fire department, dropped in for a visit.

LES-KE6QIM picked up branches broken off of the trees during the winter heavy snows and winds and then painted the front and left side of the block building a nice gray covering up the obnoxious light green which covers everything. Les also received a tour of the site since it was his first work party.

JOHN-WB6IQS and ART-KC6UQH spent a lot of time investigating the desense problem with the new 146.700(-) Packet ==REPEATER== and finally traced the problem to a problem with the cavities which will be replaced with new ones ASAP. The old ones will be pulled out of service and their problem(s) corrected. Its always nice to have a spare set of cavities for emergencies.

Art also made some adjustments in a repeater which had "lost" its PL.

DAVID-KC6YSO helped with everything and spent a lot of time recording the location of antennas on the tower for future reference: type, height above ground, location on tower, connectors, etc. Over periods of time we tend to forget the locations of our MANY antennas and what connectors are used with them.

GEORGE-KK6KD and DANIEL-KD6DKM worked on checking out the 224.38 antenna system which was causing problems and then installed connectors on the new (used) heliax which was then buried from the block building to the tower some 35' away.

STAN-W9FQN cut up fallen

branches with a gas saw and then spent the rest of the time on the tower checking out the 224.38 antenna and its 9913 coax. Water was found in the junction between the antenna and the coax. The new heliax was hauled to the 60' level and attached to the antenna resulting in a low SWR. Stan gunked and taped the new joint and fastened the heliax to the side of the tower. =PARC=

SK-\*\*\*\*\*-SK-\*\*\*\*\*-SK-

John Martin, W6SE and Wesley Wilson, WA6UGG

SK-\*\*\*\*\*-SK-\*\*\*\*\*-SK-

Judge Martin was one of the founders of the Palomar Amateur Radio Club back in 1936. W6SE circumnavigated the globe as a radio officer for the merchant marine, was a San Diego Municipal Court judge for 15 years, was a radio officer for the Navy in WWII, graduated from Oceanside HS in 1931, helped build one of the first two-way police radio systems for the Oceanside Police Department, attended SD State Univ, worked as a danceband musician, and was a California Highway Patrol officer.

John has also written an early history of amateur radio in San Diego County which covers the Spark-Gap days and many of the local amateurs in PARC. He died in early May at the age of 82 of pneumonia. =SK=

Wes Wilson operated the MARS station (NNOMPH/W6IAB) at Camp Pendleton running thousands of phone patches during his service career as a Marine and after retirement in the Civil Service. He became a silent key May 17th after a long illness. =PARC=

\*\*\*\*\*

Thanks to:

\*\*\*\*\*

Bob Byrnes, KE6MTT, for making 5 copies of the \$2 modification to an oscilloscope to turn it into a spectrum analyzer. =SK=

Just discovered that the Radio Shack dot matrix did not come from Marvin-WA6PKK ..so where did it come from? =PARC=

\*\*\*\*\*  
FIELD DAY 1995 N6UWW  
\*\*\*\*\*

The countdown is on ..Field Day weekend is only days away. Have you marked your calendar for the weekend of June 23-25? While the object of the contest is, primarily, to make as many contacts as possible in a 24 hour period, it is also a great opportunity to learn to operate in abnormal conditions. So, whether or not you've done it before, PARC's counting on you to be a part of the effort. The weekend officially begins with set-up at 11am Fri June 23rd, and concludes Sunday June 25th when the last tower is down but NOW is the time to get fired up and ready to go. We need your help!!!

Have you previous Field Day experience you can share with others? Can you help setting up/tearing down? Have you a radio that can be lent to the effort? Have you a motorhome that can be used for sheltered operating? Have you a laptop computer that can be used for logging? Can you help with operating? Can you help feed the troops.

While I have volunteered to coordinate the effort (will somebody knock me upside the head next time?!?), I find that I have little time to dedicate to the cause as I am simultaneously studying for the CBEST exam (top priority in my life as I return to school to pursue my teaching credential). I am grateful to those who have been active in preparations to date and hope to see some more involvement from other club members. Dennis, N6KI, is sharing his expertise from our previous winning efforts. Mark, AA6TR, is coordinating the 10/20/80 cw station, Gene, WB9COY, has the 15/40 CW station and Bill, KC6Y0X, has the vhf station. Bill, KB6MCU, has inspected all the club antennae for us so our inventory of stuff that works is current. Harry, WA6Y00, has offered to copy the WIAW bulletin & submit the news releases to local media. Brian, KF6C, will coordinate the 10/75/160

station and is working diligently on getting the RADWARE running in time for the big contest but has run into some setbacks. In the meantime, we'll plan on running things as we have in the past. (If it's not broken, don't try fixing it!)

Station coordinators are needed for 15m/40m SSB and 20m SSB stations, as well as the Novice/Tech station. These positions involve arranging for equipment and personnel needs for the particular station. Each station needs to have antenna, tower, rotator, radio, coax, headset, earphones, footswitch, audiobox, computer, shelter, generator, list of operators, set-up & teardown crew, etc. We know the equipment is out there (we won 5A with it two years ago!). It's just a matter of rounding it up again. Maybe you can help with phone calls! We need to get commitments from those who have volunteered their motorhomes, generators, radios & laptops. If you know of somebody who has equipment or talents that can be utilized at Field Day, give them a nudge toward contributing. Those interested may call Ellen-N6UWW, 630-0950, or join us on 146.730- Sundays at 7pm for the Field Day Prep Net. ANY HELP IS WELCOME!!! =PARC=

\*\*\*\*\*  
- N E W S - etc.  
\*\*\*\*\*

Contributions by the 20th)  
Please send "newsworthy" items 2-UR Editor Via PALBBS, letters, notes or at club meetings.

FLASH: June .th at 7:45am Fritz-KE6EKY and Gayle-KM6WF's Fallbrook H.S. group will talk to the astronauts along with 4 students from Stan-W9FQN's group at Bonsall. =SK=

ART-KC6UQH, using his ATV station, sent a picture up to Palomar Mountain and at the same time viewed the down-coming picture on his dual trace oscilloscope. By using the sync pulse as a marker, he was able to measure the time difference between the two pictures and with this information he calcu-

lated that he was 21.42 miles from the repeater site! =SK=

There will be a hidden transmitter hunt starting at the Ramona H.S. at 2pm on June 10th. Contact Vern-AA6UU, 789-1070, for more information. =SK=

There will be a communications disaster drill on June 10th in Ramona from 9 to 12 am. Call 789-4059 for more information. =SK=

On June 10th and 11th there will be a need for SPECIAL OLYMPICS communicators in the San Diego area. Contact Ken at 475-1540. =SK= Bill Smith, KB6MCU, has finished building the 220 Club of San Diego's new repeater and it should be up on the mountain in PARC's bunker sometime in June. =SK=

Stan-W9FQN represented PARC at the annual PARTNERSHIPS IN EDUCATION meeting at Sea World which honored those groups supporting schools. PARC has been a partner of Challenger Jr.H.S. whose amateur radio program is under the direction of Frank Forrester, KI6YG. Honors and Prizes were awarded and we were treated to hors d'oeuvres and sandwiches. Thank you Sea World! =SK=

ASTRONAUTS: 35 have been Hams, 3 more are studying, and nine more are non-US licensed astronauts-cosmonauts (ARRL).

SWAP NETS: Saturday at 1300 hours on 7260kc and Sunday on 7234kc. Also Monday's starting at 2015 hours on 147.090 MHz. =SK=

REMINDER: the fee for the ARRL Outgoing QSL Service is \$3/lb or portion of a pound (ARRL).

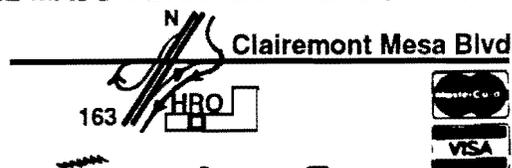
The 1995-6 edition of the ARRL Repeater Directory is now available and has nearly 20,000 listings, including Australia and European countries. (ARRL LETTER V14No5)

Follow that BUTTERFLY: those interested in tracking the Monarch butterflies should check internet e-mail. Try Julie Ellis at JELLIS@kuhub.cc.ukans.edu or find the Monarch Watch at <http://129.237.246.134/>. =SK=

Your editor receives the KENWOOD REPORT which covers mods, hints, and info on Kenwood products. See



"LARGEST HAM OUTLET IN THE WORLD"  
ALL MAJOR BRANDS IN STOCK NOW!



rtconcept

DIAMOND ANTENNA

US TOWER

ICOM

K&Kantronics

KENWOOD

HUSTER

BENCHER, INC.

MFJ

YAESU

COMET

ALMO ELECTRONICS

cushcraft CORPORATION

OUTBACKER

Astron

AMERITRON

AEA

hy-gain

Tri-Ex

Larsen Antennas

TEN-TEC

Open: 10a.m. - 5:30p.m.  
Monday thru Saturday

560-4900  
or toll free 1-800-854-6046

5375 KEARNY VILLA ROAD, SAN DIEGO

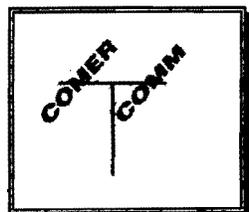
# RADWARE: The PC Transceiver

can now be extended to cover 6 Meters, 2 Meters,  
1 1/2 Meters and 70 Centimeters.

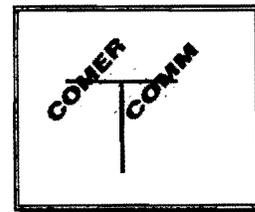
A set of components "RADCOMPS" has been developed that simply plug together to build converters, transverters and or the HF output stages for RADWARE.

Call the RADWARE BBS for more info 599-0185

The current introductory price of \$470 for both RADWARE and sound cards ends 5/20/95.  
List price will be \$595 for both cards.



COMER COMMUNICATIONS, INC.  
2598 Fortune Way - Suite I  
Vista, CA 92083 (619) 599 - 0476



# PARC Membership Application

AMATEUR CALL
CLUB MEMBERSHIP? <input type="checkbox"/> NEW <input type="checkbox"/> RENEW
ARRL MEMBER? <input type="checkbox"/> YES <input type="checkbox"/> NO
LAST NAME
FIRST NAME
STREET ADDRESS
CITY
STATE ZIP
HOME PHONE
WORK OR OTHER PHONE
HAM LICENSE EXPIRES
FAMILY MEMBERSHIP (List other calls and names)
CLASS OF LICENSE N T T+ G A E

Mail this form with your check to PARC, P.O. Box 73, Vista, CA 92085-0073 or hand to membership chairman at club meetings. We prefer checks to cash, it's safer and you have a record. Dues are \$12 a year which includes \$3 for the Scope, or \$21 for a family all at the same address. Consider paying for two or three years at a time to reduce the work for the membership chairman.

Name, call and complete address are required. Telephone number is requested but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

him at meetings to read past reports. =SK=



\*\*\*\*\*  
- P A R C B O A R D -  
Pres : Art McBride . KC6UQH 7418143  
VPres: SybilAllbright W6GIC 2784284  
Sec : David Doan . KC6YS0 2864888  
Treas: JenniferThieme KM6WG 5991134  
RptTec:John Kuivinen WB6IQS 7273876  
SCOPE :Stan Rohrer . W9FQN 7490276  
MemShp:Ralph Powell KC6WAN 7277415  
Member:Mike Doyle . AB6QT 7421573  
Member:MarvinMunster WB6PKK 7472223  
\*\*\*\*\*  
VE Program: Rusty . AA6OM 7475872  
ATV/Edu. : Bill . KB6MCU 5822313  
PALBBS : Norbert KJ6ZD 6305538  
\*\*\*\*\*

MAY. SCOPE FOLD/STAPLE  
Editor:Stan Rohrer-W9FQN 30311 Cir.  
R.Ln.,Valley Center CA 92082  
KI6JM Jack Hanthorn,Folding Refresh  
WA6Y00 . Harry Hodges . Staples  
W6TFB Lloyd & Lisbeth Hunt,Folding  
WA6UTQ . Larry Ruegseger Folding  
KB6YHZ . Art Nye . Folding  
KB6YHY . Anita Nye . Labels  
KB6NMK . Jo Ashley . Labels  
KC6WAN,Ralph Powell,Printing,Labels  
Assoc. . Brian Magone . Folding  
\*\*\*\*\*

JUN'95 S.Call?: \_\_\_\_\_  
(Sponsor's call not required)

\*\*\*\*\*  
S C O P E, US Post Office #076530  
Published monthly by: = PARC, Inc.=  
Membership \$12/yr including \$3 for  
SCOPE inside SDCo (outside \$4).

POSTMASTER: Return to -> S C O P E  
P.O.Box 73,Vista, CA 92085-0073

\*\*\*\*\*

Pg.Yr	IN THIS ISSUE
1-61	Calendar,Last/Next Mtg,Pkt6.7
2-62	Board Mtg, . . . . .
3-63	President's Wavelength, . . .
4-64	Editor, Membership, ARRL Ad .
5-65	Repeater Operations/Technical
6-66	Autopatches, . . . . .
7-67	For Sale/Wanted, . . . . .
8-68	Building, AGOGO, VE, WrkParty
9-69	Spectrum, SK W6SE/WA6UGG, Tnx
10-70	FIELD DAY, News, . . . . .
11-71	HAM RADIO OUTLET & COMER Ads.



2nd Class Postage Pd  
Vista CA 92085-9998

# Scope

Vista	Mira Mesa	La Mesa	Fallbrook	Membership Expires	License Expires
Palomar Mountain				PARC yy mm	LX yy mm

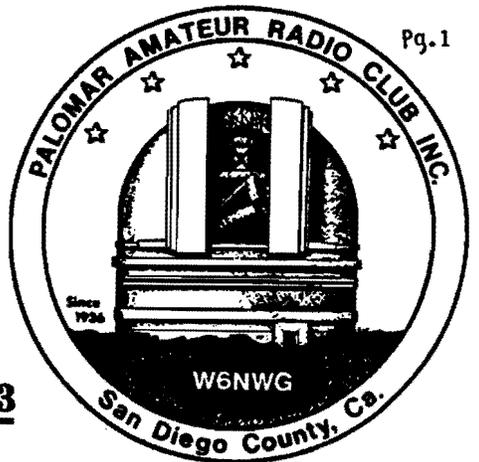
Phone Codes  
Deliver To

## FIELD DAY JUNE 24<sup>th</sup>

W6NWG W6NWG W6NWG W6NWG

# Scope

W6NWG



## Palomar Amateur Radio Club Inc.

Post Office Box 73, Vista, California 92085-0073

JULY \*\*\*\*\* 1995 \*\* 59 YEARS OLD  
Dues \$12, Volume XXI Number 7  
Coffee 7pm, Mtg. 7:30 pm @ Carlsbad  
Safety Center(CSC), Palomar Airport  
Rd.to N.on Camino Real(S11),east on  
Faraday .25 mi,left to CSC,TB 14F6.  
Talk-in on 146.73

\*\*\*\*\*  
OPEN REPEATERS / CLOSED AUTOPATCHES  
PARC PALOMAR MT.REPEATERS(W6NWG):

PARC W6NWG Trustee: Ron-WI6B  
Autopatches(4): 146.730-, 147.075+\*  
147.130+\*,449.425-\*

PKT: 145.052s PALMAR W6NWG-1 Open  
(linked 9600 METROLINK)  
146.700(-) Duplex BBS/EMG use  
145.070/146.700 W6NWG-3/PALBBS  
KJ6ZD SYSOP(QTH Vista)

ATV IN:915 WBFM,919 AM,2441.25 WBFM  
Intercom: 146.430, PL 79.7 NBFM  
OUT: 1241.25 AM

OTHER:224.380-\*KK6KD; 224.9-\*WD6HFR  
(temp)52.680-\*KC6Y0X, -.5MHz Ocsd  
146.175+\*WA6IPD; \*=107.2Hz

\*\*\*\*\* & A L E N D A R \*\*\*\*\*

JUL 5 Wed.CLUB MEETING, Carlsbad SC  
JUL 8 Sat.PARC VE Tests Carlsbad SC  
JUL13 Thu.PARC 7pm Board Mtg W9FQN  
Thu.Shuttle Launch

JUL18 Tue.Fallbrook HS Shuttle QSO

JUL21 Fri.Deadline 4-SCOPE articles

JUL25 Tue.SCOPE mailed at Vista PO

JUL26 Miramar EMS Drill (272-0215)

JUL31 END OF PARC CLUB YEAR. PLEASE

--->>S E N D U R D U E S ASAP

SEP11 GENERAL CLASS starts at CSC

\$EP17 PARC PICNIC DIXON LAKE-PRIZES

\*\*\*\*\*  
L A S T M E E T I N G

\*\*\*\*\*  
Attendance was 113 members and  
18 guests for a total of 131.

Ellen Utschig, N6UWV, Field Day  
Coordinator, introduced individual  
station heads and outlined PARC's  
FD effort.

SHOW & TELL had David, KC6YSO,

showing a Audio Cassette Bandolero  
which he bought at PICK 'N SAVE for  
\$4 which can be used for carrying  
and HT and multiple batteries.  
Really neat ..or REAL COOL as my  
daughters now say.

SHOW and TELL is an important  
part of PARC's meetings and if you  
can find at least one new thing to  
think about in Show & Tell your  
trip to Carlsbad was probably  
worthwhile.

ART-KB6YHZ & Anita-KB6YHY made  
the coffee and supervised the drink  
and goodies ..and members bringing  
goodies: Duane-AA6EE, Bill-KM6PY,  
Benton-KK6LX, Becky-KE6BUE, George-  
K6YGK, Max-WB6GXR, Paul-N6ISC,  
Margaret-KC6PVO, Jerry-N6TCB, and  
Pat-KA6PSG.

THANKS TO THE GOODIE BRINGERS  
FOR HELPING MAKE THE CLUB MEETINGS  
A BIG SUCCESS.

Goodies were great and you were  
rewarded with "1" participation  
ticket. =PARC=

\*\*\*\*\*  
NEXT MEETING - VPres. W6GIC  
\*\*\*\*\*

PLEASE COME EARLY and help set  
up chairs ..and STAY A FEW MINUTES  
to help put away the chairs. WE  
NEED HELP!

Club meetings start at 7:30pm  
but many of our members come at 7pm  
so that they are able to talk to  
friends, get a good seat, look at  
items on the junk table, see  
equipment as it is being set up,  
watch demos (ie. packet), and pick  
up some of the FREE magazines.

Those members that travel longer  
distances usually find someone in  
their area to share rides with  
which makes the longer drives seem  
shorter. PARC will try to help you

by featuring "get-togethers" at  
some of our meetings.

The program for July 5th will be  
Paul Williamson, KB5MU, talking on  
the INTERNET. Paul has given us  
some great programs in the past and  
this would be a good one to invite  
your friends and family to hear.  
Come early (we only have 150  
chairs!) although we have noticed  
some of you supporting the walls  
..and if more of you come, we will  
let you sit on some tables against  
the walls! COME EARLY AND GET A  
GOOD SEAT (If our attendance at  
meetings keeps increasing, we will  
have to hold our meetings at the SD  
stadium!).

At the August 2nd meeting we  
will have Gordon West, WB6NOA, a  
nationally known writer for radio  
magazines, who will speak on USING  
WEATHERFAX TO PREDICT TROPO  
OPENINGS TO HAWAII (see pg.9).

SHOW & TELL: Several methods of  
measuring 1-50 Amps ..and much  
more. Please see me before the  
meeting to reserve time for your  
SHOW & TELL item(s).

\*\*\*\*\*  
E N D O F Y E A R  
\*\*\*\*\*

PLEASE RENEW NOW! SINGLE MEMBER-  
SHIP IS STILL \$12 AND FAMILY \$21  
(12+9). MAIL IN YOUR DUES ==NOW==  
RATHER THAN WAITING UNTIL YOUR ANN-  
IVERSARY DATE. Then you won't need  
to read the rest of this PEP TALK  
..but some of you will do that  
anyway.

If your label reads 9507, the 95  
is the year 1995 and the 07 is the  
seventh month. June would be 9506,  
July 9507, and August 9508. If you  
don't understand your label, just  
send us \$12 (single) or \$21

(family) ==NOW== and we will credit you with an automatic extension from whenever your expiration date is on our records. You need to send us this amount sometime during the year so WHY NOT NOW WHILE YOU ARE THINKING ABOUT IT?

It would be GREAT if you would GET IN STEP and make your membership end on July 31st 1996 or 1997 by adding to your \$12, \$1 for each additional month or \$1.75 for each additional month for a family membership. The club's financial year ends July 31st of each year.

YOUR LAST NEWSLETTER IS SENT OUT JULY 25 FOR THOSE WITH LABELS OF 9507 AND YOU WILL NEED TO RENEW BEFORE AUGUST 15TH TO CONTINUE BEING A MEMBER OF PARC. YOUR NEWSLETTER (SCOPE) AND PHONE PATCH PRIVILEGES END AFTER YOUR LABEL DATE OF 9507.

IF YOUR LABEL READS AFTER 9507, YOU ARE SAFE UNTIL YOUR MEMBERSHIP EXPIRES on the label date ..but don't get it confused with your license expiration date!

Most club members have their dues expiring on July 31st (9507 on your label) which is the end of PARC's club year. With a club of almost 875 members Ralph-KC6WAN would have a large number of renewals to post into the giant computer in July and the 1st 15 days of August.

Since the August newsletter is mailed in July (with August date), your last newsletter will be the August issue if you have a membership date of 9507.

PLEASE RENEW EARLY AND FOR SEVERAL YEARS IF AT ALL POSSIBLE so that Ralph does not have so much work at one time getting the records in order for the new year starting on August 1st. We need to have the newsletter sent out sometime after the 20th of August so we only have a few weeks to process your renewals. The club was founded in 1936 and we plan on being around for quite a while. Your money is safe with us!

We would like to get everyone to have a renewal date of ??07 for several reasons:

- 1) It allows PARC to estimate money available for the next club year (Aug 1st-Jul 31st).
- 2) It allows us to concentrate on renewal information at the end of the year rather than throughout the year for those who joined during the club year.

EVEN IF YOUR DUES COME DUE AT SOME OTHER TIME, WHY NOT SEND IN YOUR \$12 (\$21 family) DUES IMMEDIATELY WHILE YOU ARE THINKING ABOUT IT.

Several club members have so much confidence in the club that they have renewed until the year 2004 ..the record is held by Felix-N6IE who is one of the Old Time club members, a prisoner of the Chinese and North Koreans, and a CW operator who has operated CW while driving from his car on long trips.

PLEASE SEND IN YOUR DUES (\$12 single, \$21 family) NOW OR BRING THEM TO THE JULY CLUB MEETING and watch Ralph JUMP FOR JOY. If you would like to have your dues to come due at the end of the club year (July 31st), count the number of months from your expiration date to the end of July and send us \$1/mo (\$1.75/mo for family) for each month until the end of the next club year. This will make your membership come due AT THE END OF PARC's CLUB YEAR, July 31st. No checks should be for less than the regular club dues (\$12/\$21).

PARC has held the line on dues for over 10 years and we are getting close to the point where normal dues just do not contribute as much to the normal operation of the club as we would like. Our growth and economies of size have allowed us to keep the dues about the lowest in the county while providing for many club repeaters, activities and interests.

INVITE A FRIEND TO JOIN THE PALOMAR AMATEUR RADIO CLUB!

\*\*\*\*\*  
- AGOGO - K6HAY/KI6JM/W9FQN  
\*\*\*\*\*

(7-94)(1yr) ..Nash-W6HCD to give program on solar panels ..SWDiv convention ..Americas United

(224.38) given 90 day test period at site ..autopatch monitoring equipment working ..Stan-W9FQN installed 224.38 4-bay antenna on the tower ..

(7-90)(5yr) ..Bill-KB6MCU program on ATV ..comments on FD by Bud-KG6VX and Dennis-N6KI ..Orlando-N6QVW drilled metal plates for FD tower hinges ..Nick Andree of Highway Electronics back in business ..Guy-KB6AI donated equipment to club .. =PARC=

\*\*\*\*\*  
- JUN. BOARD MEETING -  
\*\*\*\*\*

BOARD: KC6UQH W6GIC KC6Y50  
KM6WG WB6IQS W9FQN KC6WAN AB6QT  
WB6PKK (\*ABSENT).

OTHERS: KB6MCU (ATV & Training), N6FMK (UPS units), KE6BGI (FD Food), and N6UWW (FDCh),

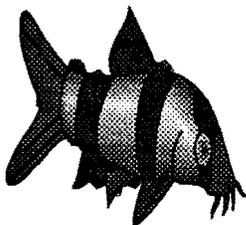
ADDITIONAL 4-FD: KD6LPO KB6NMK  
KM6XA WD6AHY and AA6TR (others were present but did not sign-in).

- The 7pm meeting was at Stan-W9FQN's QTH and started at 7:15+ and ended at 9:30pm. The late start was because of the Field Day meeting which began at 6pm and lasted late.

Barbara-KA6FPS served cookies to the group.

- SECONDS -

DISCUSSED: Year 84% completed and most accounts where they should be for this time of the year; \$3405 Equip. Bal, \$1965 Gen. Purpose, \$6180 Pre. Pd, \$26 Post Office, \$-0- ATV, \$135 PALBBS; Donation of three UPS un-interruptable power supplies by N6FMK; Workparty July 9th; Membership at 875 (record); Need several more members for building committee; 6m rpttr possibly up in July; Fencing (metal vs wood/plastic); Poor signals from 449.425; 75% of KB6MCU's class passed their exams (one is 7yr old); Accepted donation of equipment with permission to sell part of it; \$11 donation to club; \$23 worth of high class PARC junk sold at last meeting; 140 chair limit at Carlsbad Safety Center; 4 cavities received for 146.7pkt repeater (10" in dia); Intermod problems on tower(?); and Donated



**SPORTFISHING**

ON THE WINDSONG  
Oscar Olson KE6EDC, Captain  
619-673-9201

*The NiCad Lady*  
**N6WPA**

*Battery Pack biting the dust?  
Get your power source rebuilt  
with NEW higher quality cells!*

*Up to a 50% Savings over the  
cost of a new pack!*

- Radios
- Laptops/Notebooks
- Test Equipment
- Camcorders
- Any Special Application

**(909) 678-0943**

antenna report (WB6IQS).

**APPROVED:** Next board meeting at Sybil-W6GIC's QTH; \$12 to autopatch center custodians; Possible new net managers for THIS WEEK IN SD and CODE NETS; \$400 for fence around tower and cables; \$300 for FD food which came from Bill-KB6MCU and Sybil-W6GIC's ATV fund; Picnic again to be at Escondido's Dixon lake on 3rd Sunday in September; \$73.15 and \$143.27 in bills for repeater site; Newest badges now \$7 and will be mailed (you can still buy the old \$1 badges and and still look great).

**PREPAID DUES** are for the next club year starting August 1st, 1995 and most of it is not available until then.

Contact a board member 4-info or C Secretary 4-minutes, =PARC=

\*\*\*\*\*  
PRESIDENT'S WAVELENGTH KC6UQH  
\*\*\*\*\*

As I write this letter Field Day fever is upon us. I made my first contact on Oscar 13 last Saturday with Mike, KD6VHI and his Yaesu 736R. I do not think the stations we talked to believed we were using 5 foot antennas clamped to a six foot ladder. We now have confidence in our equipment for the satellite station we will be operating on Field Day.

With a 1/4 second delay on our return signal operating is a challenge. We will have a couple of hours on Saturday to hone our operating skills before the start of Field Day. A crash course in sink or swim. This coming week end will be the final test of our planning efforts this spring for all Field Day stations. I hope we can regain the number one 5A position this year. I also hope Field Day is a positive experience for all. We all belong to the same Club and Field Day is a TEAM EFFORT!

This year we have a shortage of trained operators. I would like to restate the Palomar Club Policy of loaning equipment for contest operation to Club Members during the calendar year upon request. This benefits PARC by increasing the number of trained operators and gives our membership a chance to become familiar with vast amount of club owned equipment as well as becoming field trained for emergency communications.

At the current time PARC owns a licensed trailer with mast, a now working 3.5 KW electric start generator thanks to the efforts of Mike KD6VHI, several old HF rigs, many rotators, and antennas etc. I would like to see this trailer refurbished using the PARC logo and colors. I propose that PARC sell the old HF equipment and use the money to purchase a modern HF rig for the trailer. We also need a 2M packet and voice station installed in the trailer. If room permits, a

ATV and Satellite station could be added later. Once completed the Emergency Communications trailer could be loaned out to Club members for training purposes during the many contests throughout each year. It could also be used to demonstrate Amateur Radio to the many schools in our area. We have the membership to support a project of this type and all that is lacking is the leadership and manpower to complete this project.

In the past we have used this trailer for Field Day and for storage. A Club of our size should have an emergency self contained trailer ready for service at all times. We also need a pool of trained operators assigned to the trailer for emergency communications. Most emergencies do not give us the time to assemble a communications trailer and operating staff. We must either plan ahead or do without.

I hope that our membership will donate some of their time to complete this project. I can not think of a more worthy project to benefit our community than this one. The larger the number of PARC Members that participate in this project the less work for all and the greater the esprit de corps. I would be delighted to have this project completed in time for PARC's Sixtieth Birthday next February as a tribute to the numerous Amateur Radio Operators that have made our Club the outstanding Club it is today.

73, C U at Field Day, Art, KC6UQH =PARC=

\*\*\*\*\*  
E D I T O R  
W 9 F Q N  
\*\*\*\*\*



Field Day always seems to fall on our wedding anniversary (KA6FPS/W9FQN)! =SK=

Membership is now over 875 for another record. PARC will again experience a drop on August 1st with the dropping of hams who have moved out of the area, just forget to renew, don't have the money (?), have lost interest in amateur

radio, or just do not feel the need for PARC membership. Each year we loose large numbers of members August 1st but each year we ride the saw-tooth-wave to higher and higher membership records. =PARC=

MEMBERSHIP KC6WAN

NEW CLUB MEMBERS wanting confirmation of their membership and/or an autopatch information sheet and/or FCC 610 form should send to me at the club's address a (S)elf-(A)ddressed (S)tamped (E)nvelope (SASE) requesting same or see me at the next meeting.

- 3yrs= Von-Mueller N6CFY-A1 WA6Y00-Harry N6TCB-Jerry KE6PRT-Bud
2yrs= KE6GSI-Steve KD6JX0-Frank N6QMI-John N6PXA-Ted KE6QZY-Joe Allen-Chevalier KE6MRT-Art VE6RGP-Ron KD6HYS-David

- 1yr= Norma-Pinal Veronica-Miranda KE6NPN-Roland KE6NMM-Tom K7DCG-Dennis KE6DJM-Mark W88EJI-Steve KE6GBE-Jeff KE6PTX-Barry KE6SEH-Andrew KE6SQI-Steve KE6TEC-Parker KA8ZIM-Bruce KE6RXD-Denise KE6RXD-Jeff N6WPA-Grace KE6TEA-John AC6LG-Wayne KE6RWT-Bill NI6N-Maurice KE6TIA-Harold KE6SLL-Luke KE6HZF-Dennis KE6HZC-Susan KE6RXD-Jeff WA6DYV-Jack AA6OM-Rusty, Judy, & KC6VDZ-Nikki

The following members received ONE (1) point for sponsoring a new club member: Ray-KE6LZN (1) and Mike-KE6VHI (3).

To receive a point for sponsoring a new club member you will need to instruct the potential new member to write on his application that you are the sponsor. Otherwise, your editor is not aware of points to be awarded to members.

73, Ralph 727-7415 =PARC=
VE TESTING AA6OM

Test results for June 10th. Tested 16 candidates for 27 elements with 23 passes.

- ADV->EX: Gary-W5USH & Elgen-KN6MZ.
GEN->ADV: Frank-KE6IQU.
NONE/TECH->Tech+: Art-KE6QAM & Bob McCann.

NONE->TECH: John Holst, Pat Leonard, Paul Santy, Randa Milljour, Evan Rasmussen, & Randy Torgerson.

Other: Brain Busey (2), & Jon Jacob (3B).

TEST TEAM: K16JM, WB6R, WA6HYC, & AA6OM.

73, Rusty-AA6OM =PARC=
WORK PARTIES W9FQN

THE NEXT WORK PARTY WILL BE ON JULY 9th. MEET AT MOTHER'S KITCHEN PARKING LOT AT 10:30AM (leave your parking lights on if you don't have a Ham antenna on your car). REGISTER WITH STAN-W9FQN AT THE NEXT MEETING OR CALL HIM AT 749-0276 so that if the work party is cancelled, you can receive proper notification.

SCHEDULED: Painting outside buildings gray, Grounding, Building security, Tree work, Some road work, Install a mount for a 22' long 6m collinear, Test the new 6m repeater which Bill-KC6Y0X recently built up, and Check heliax runs for possible problems.

Of course, all new workers receive a FREE tour of the site and 2-participation tickets.

Be sure to bring old clothing, 5 gal of water (if possible), drinking water and something to eat at noon.

In addition, if you can stop by the side of the road near the 4,000' level on the way up the mountain and pick up 5-10 gallons of small rocks (1-3" dia), it would be greatly appreciated. Larger flat ones are fine too. The rocks will be put on the incoming road where we have erosion problems.

PARKING: we now have 15 spots to park at the site. It would probably be best to back into your parking space which will make it easier to leave. Enter to the left where the sign says "PARKING".

(6-04)#16 The 220 Club of San Diego installed their new 224.9(-) repeater constructed by Bill-KB6MCU. Helping Bill to install the repeater were Bob-WA6QQQ, Steve-K6PD (220 club president), and Del-

N6JZD. The old 7' repeater was left in the building and will stay there for several months until it is determined that the new repeater is functioning properly.

It was reported that the 224.38(-) repeater had problems and checking indicated that it worked properly on local microphone but would not repeat audio from the receiver. No further action was taken because of other work being done.

Stan-W9FQN opened up the site and spent his time cleaning up the site and organizing the club's trailer which is loaded with surplus "junk." The front door leak was kaulked, 8 boxes of "like" items were neatly stored, the 55-gal water storage drum was filled, and some of the "new" small trees were watered. Notes were made for the workparty next Sunday.

Art-KC6UQH went to John-WB6IQS's QTH and spent the afternoon testing some of our antennas about which we needed information. One of the antennas is for the Palomar Mt. Fire Department. The 70cm will have to be modified for the amateur frequencies along with another antenna just above 2m.

(6-06)#17 Bill-KB6MCU visited the site to take care of several problems with the new 224.9-repeater. The preamp from the old repeater was moved to the new repeater. The audio "beep" and "ID" levels were also adjusted.

Bill also found that the AMERICUS UNITED 224.38- repeater had several connector traces broken which prevented audio from reaching the transmitter from the receiver. He also noted audio being taken from an improper location on the receiver which was not changed.

(6-16)No work party. It snowed at the repeater site!! =PARC=

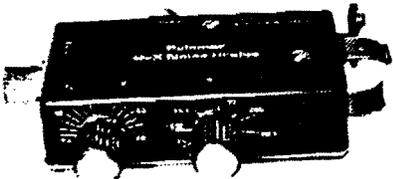


**Jennifer A. Thieme**  
**KM6WG**

**Bookkeeper**  
**Accountant**

**(619) 599-1134**  
 770 Sycamore Ave. #J-126  
 Vista, California 92083

**R-X Noise Bridge**



- Learn the truth about your antenna.
- Find its resonant frequency.
- Adjust it to your operating frequency quickly and easily.

If there is one place in your station where you cannot risk uncertain results it is in your antenna.

The price is \$79.95 in the U.S. and Canada. Add \$4.00 shipping/handling. California residents add sales tax.



Send for FREE catalog describing the R-X Noise Bridge and our complete line of SWR Meters, Preampifiers, Toroids, Baluns, VLF Converters, and Loop Antennas.

**PALOMAR ENGINEERS**  
 Box 455, Escondido, CA 92025  
 Phone: (619) 747-3343

\*\*\*\*\*  
 REPEATER TECHNICAL WB6IQS  
 \*\*\*\*\*

Bill-KC6Y0X has been working on a 6m repeater which he is now being testing in his garage in Oceanside. The frequency is 52.680 with a PL of 107.2 and a downward split of 500kc and since Bill lives on a hill, it should be accessible along the coast and 10-15 miles inland. =SK=

Over the winter and spring we have noted several problems appearing on our repeaters:

1) PROBLEM: When .73, .075, and .13 are all transmitting there seems to be GRUNGE heard on .075 and .13. In fact, at times when only .075 and .130 are transmitting the GRUNGE is heard on both repeaters and the grunge feeds back-and-forth keeping both repeater on the air even though there is no signal input.

SPECULATION: some "rusty" joint on the tower or someplace on the site is re-radiating a signal; some coax connectors are loose; signals are "sneaking" thru the filters and mixing is occurring in a transmitter final stage; etc.

2) PROBLEM: the 146.730 repeater is being heard on the 220 Club's 224.9 repeater and the KK6KD Americas United repeater when 146.730, 147.130, and 224.9 are transmitting. The problem is intermittent which makes it hard to run down.

SPECULATION: mixing is occurring in a non-linear device someplace on the tower or within something connected to the antennas (filters, transmitters, etc). The mixing of 224.94 - 4x146.73 + 4x147.13 = (223.3, the 224.94 receive frequency)!!! In fact, 147.13 - 146.73 = 400kc. Then 4x400kc = 1.6Mhz which is the exact difference between XMTR and RCVR for the 224.94 repeater and also for 224.38 repeater!

3) PROBLEM: Packet is heard on some of our repeaters from time to time. Now we are hearing a large number of packet bursts on 146.730.

SPECULATION: Kenwood has a DCS system called Digital Coded Squelch. It is a packet burst put out at the

beginning of each transmission and at the end of the transmission. This DCS "burst" sounds just like packet and contains the call letters of the transmitting station and sometimes information directed to a specific station or groups of stations. We do not know if this can be "read" by a regular TNC (does anyone know about this?). PARC has discouraged its use on our repeaters along with all forms of digital squelch schemes without permission because of potential problems with autopatch conflicts.

Sometimes we suspect someone holds their microphone up to a packet TNC speaker just to cause problems ..and get attention. Ignore them.

There are times when a ham has only one rig for 2m voice and also operates packet. It is easy to leave your rig on a repeater frequency keyed up in the packet mode accidentally causing unwanted packets to be broadcast.

We have seen packet transceivers "go wild" and do strange things. It is possible for some transmitters to be putting out "spurs" (other frequencies up and down in frequency from the transmitted frequency). I helped your editor locate multiple spurs which his Kenwood was putting out that were detectable 15 miles away.

Or it could be a mixing of frequencies in a non-linear device as mentioned previously in problem #2. Problem #2/#3 might be the same problem. =SK= =PARC=

\*\*\*\*\*  
 - AUTOPATCHES - W9FQN  
 \*\*\*\*\*

PLEASE REMEMBER NOT TO RUN 911 CALLS FOR VISITORS TO THE AREA ON 146.73! THEY PROBABLY ARE NOT USING A PL OF 107.2 SO THEY WON'T BE HEARD THRU THE PATCH. IF YOU HEAR SOMEONE OFFERING THE USE OF 146.73 FOR A 911 CALL, PLEASE STEP IN AND LET THEM KNOW IT CAN'T BE DONE. The call can be made on 147.075, 147.13, and 449.425 since these repeaters can't be used without a PL of 107.2Hz. =SK=

On Saturday, June 3rd, the

autopatch system was turned off from 4:26am until 7:07am. In the evening it was off from 11pm to 7am Sunday.

Members need to be reminded that there is an excellent possibility that the autopatches will be turned off from 11pm through 7am EACH night unless you make a special request for their use that has been approved. =SK=

The MASTER computer printout still indicates some new (and old?) patch users attempting to bring up the dial tone with their code but failing. They then issue the code again WITHOUT issuing a "#" to clear all computers resulting in another failure.

-WRONG-

- a) C O D E - result - failure
- b) C O D E - result - failure etc
- c) Patch fails or times out -CORRECT-
- d) C O D E - result - failure
- e) Issue "#" to clear computers
- f) C O D E - result - ? ? ? ?
- g) Issue "#" to clear computers at the end of each attempt

Keep issuing (d) thru (g) until you make the call ..or get onto higher ground!

Your failed patch usually is due to a very noisy weak signal or the use of improper codes. On 146.730 it usually is due to not using a PL of 107.2Hz.

If you are having problems, call W9FQN at 749-0276. =PARC=

\*\*\*\*\*  
REPEATER OPERATIONS W9FQN  
\*\*\*\*\*

We have been told that an ARES packet group has moved onto a frequency of 146.630. Can anyone confirm this for us and can anyone let us know if packet has been approved for that frequency? That is 70kc from our packet duplex repeater which was approved by TASMA. =SK=

From time to time one hears other repeaters on "our" frequency. It needs to be remembered that available repeater frequency pairs are limited and they need to be used over and over in different sections of southern California.

The 146.730 repeater has KOJPK in the LA area which sometimes puts in strong signals into the SDCo area with the strongest signals being heard along the coast and costal valleys where our Palomar Mt. repeaters do not hit well.

The 147.075 repeater has a repeater in LA putting also putting in strong signals. When we selected this repeater frequency it was the only one available at the time and we indicated that we could live with the interference which seems to be strongest inland in North County. Since our repeater has PL ENCODE on its output, you can "knock-out" the other repeater by going PL DECODE. Of course, all of our repeaters are PL ENCODE.

Our 147.130 repeater has another co-channel repeater in LA although apparently there is little interference here in SDCo on that frequency.

Our 449.425 repeater has to the north of us another repeater, 449.425 (KD6IJQ), using the same PL for encode and decode (107.2Hz). We have heard a one-way conversation coming over our repeater by WB6IZG in San Diego(?) who claims the ATV talk frequency is 449.435.

There is bound to be overlap and especially during air "inversions" where signals get trapped and travel long distances easily. This is where your DECODE function comes in handy. Each of our voice repeaters (including the 220 repeaters) all put a PL 107.2Hz on their output so that you will only hear our repeaters if you have your PL DECODE turned on.

The 146.7(-) packet duplex repeater originally was running packet and it had a "sister" repeater in LA which also runs RTTY. It can be heard by many members along the coast and sometimes inland. This might cause some of our packet stations problems by preventing your packet station from transmitting (it hears a signal on the frequency) but not our repeater which cannot hear the other repeater in LA.

We suspect there are several

voice repeaters on 146.7 to the north of us but this has not been confirmed by us.

Of course, our 145.050 NODE has LOTS of other stations on its frequency and from time to time "through-put" is reduced considerably.

Fortunately for PARC with our unique position on Palomar Mountain, our repeaters usually can only hear and repeat signals in San Diego County and when our repeaters are transmitting they are much stronger than the LA repeaters which are further away. Because of the FM "capture" effect, you probably will only hear our repeaters with possibly a slight "whistle" or low "growl" in the background of the signal. If you get a hill between you and Palomar Mountain, then you could conceivably hear the LA repeater stronger than our repeaters. =SK=

In the May SCOPE it was mentioned that PARC was unhappy when fixed stations gave directions to a mobile that lasted for long periods of time with long spaces in between transmissions and also with two mobiles using the repeater as an "intercom" with long periods of silence without call signs being given.

The point being made was that someone just coming to the frequency thinks that the repeater is NOT being used and starts up a conversation with another station resulting in the original stations not signing their last transmission with their call signs as required by FCC rules. If you leave long spaces between transmissions, the frequency is now available for others to use and you have lost your priority to use the repeater!

A similar situation exists when two or more stations are on one of our repeaters making adjustments in their transmitters, antennas, packet, RTTY, AMTOR, etc. While PARC still does not approve of long periods of silence between transmissions without call signs, it is somewhat more acceptable since it is dealing with technical



If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate! Radio systems installation, repair and removal, and interference resolution.



**Edward Ross, N6GZI**  
542-1405

# Antenna Specialties

**Need a new QTH  
or  
want to sell yours?**

**Call Clara Ziegler**  
**943-8366**  
to be your agent for  
north county coastal  
properties




Expect the best.

**Pete W3ARU's XYL**



**Rhō**  
*Flexible Staffing Solutions™*

**The PREMIER source for  
Contract Engineering &  
Technical Services.**

- Long or Short Term
- Direct Placement
- Payroll Services
- Employee Leasing

**Steve Grant, N6RUV**  
Division General Manager  
**(619) 565-4992**

aspects of amateur radio in which the club approves.

It would appear that the general rule would be that if there is the possibility that there is going to be large amounts of space between transmissions, you should seriously consider giving your call sign on EACH transmission so that if someone or some group does come in on the frequency that at least your LAST transmission did have a call sign with it.

One exception to the previous paragraphs is EMERGENCY COMMUNICATIONS and another is when a technician is at the repeater site making adjustments with the repeaters. When adjustments are being made there could easily be long spaces between transmissions. If you observe that there is testing on the repeater, please stay off unless asked to make transmissions. If you happen to make a transmission during one of these blank spaces unknowingly, the technician will politely ask you to move to another repeater. EMERGENCY and technical adjustments have the highest priority.

\*\*\*\*\*  
F O R E S A I L \*\*\*\*\*



Please hull it away!  
Ph/send ads 2 W9FQN (C Ed's addr) B4 20th of mo. w/ur NAME, CALL, Ph #, & CITY. Personal ads FREE 2 members. Others cost 25c/col. line (35spaces). =SK=

Block ads: business card (1/3rd col.) \$5; 2/3rd col \$10; 1 col \$15; 4 card size (almost 1/2 page) is \$20 per issue. Billed Feb, May, Aug, & Nov.

Keven Sanders, KN6FQ, in Escondido is now handling PARC's extensive tube bank. Contact Keven at 432-8381 for availability and prices.

\*\*\*\*\* N E W A D S \*\*\*\*\*  
(PARC) 30-500MHz MACAW range meter \$5; large capacity filter for HTs and mobiles \$1; (will bring all items to meeting) Stan W9FQN 749 0276 for PARC.

(PARC) TI computer with cards, games, etc \$M0; Radio Shack Mod I

computer \$M0: Stan W9FQN 749 0276 for PARC.

(6-20) Kenwood 2m TH-215HT, BC-7 rapid charger, 500 & 800 mA batteries, speaker mike, great starter HT for new ham \$75; MFJ-247 antenna analyzer digital readout 160-10m, used only a few times \$85: Russ WB6IOV Eve 436 6714 & 587 2204 Days, Carlsbad.

(6-8) 10m 2-e1 beam \$20: Duane AA6EE 789 3674 Ramona.

(6-8) KW Amplifier 10-160m, Ameriton AL 80B (see May QST pg18) very few hours \$550; Hallicrafters SR400A xcvr with pwr supply & mike (mint) \$200; MFJ Versa 941C antenna tuner 10-160m 300watts with SWR bridge \$60; Mechanical code practice machine with 30 tapes FREE to 1st caller; Desk Mike Heil HM5 (like New) \$10; 811A tubes (9) @ \$3.50 each; Multi meter (50k/volt) Micronta 22-214A (like new) \$15; Antennas 10-15-20 mini quad HQ1(new) \$75 Butternut Vertical 10-160 (you take down) \$25; (free to 1st person who purchases either a new 12ft roof mount tower); Wayne W6RWV 724 0777 Vista.

(5-25) Yeasu FT-5200 dual band (2m/70cm) mobile ex/cond w/remote head and mobile mount \$395: Phil KC6TYT 944 7741 Carlsbad.

(5-25) Yeasu FT225RD 2m all mode \$275; Yeasu FT2400H 2m mobile \$225: Bill KC6YDX 433 4626 Ocsd.

(5-20) Two(HP851B, HP8551B) Spectrum Analyzers complete w/manuals & spare parts for 10MHz to 22GHz. A vacuum tube & transistor oldie ..but goodie. One was functional until a year ago when I moved. The other is complete but strictly for spare parts \$150 (OBO) for all: John WB6IQS 727 3876 Vista.

(5-15) Yeasu FT-2400H 2m mobile \$225: Clint KD6JXW 909 696 0912 Murrieta.

(5-17) Tempo 2020 w/extra VFO \$150; ICOM m2AT w/extra batteries, charger, mobile charger + accessories \$200: Alf WB6TAW 941 2428 Vista.

(5-16) Tandy TMP-105 printer w/man \$15; Apple II+ complete to go 2-drive 12" monitor, Epson 7-pin

Pg.8 **FREE ADS FOR MEMBERS**

printer all manuals \$1000's worth software ed, games, etc \$75; Chuscraft triband \$100; Union Carbine RTTY \$10; MITA copy machine 600D w/paper needs adjustment \$10: Steve W6MRM 451 5690 R.Bernardo.

(5-14) HP-9872 plotter 11"x17" \$350: Tom K6MDG 789 0711.

(5-11) Kenwood TM-241A 2m xcvr 2-50watts \$376 new in '92 w/man like new \$250: Charlie KE6QU 433 1258 Ocsd.

(4-27) Daiwa SWR/PSR meter CN-720 ex \$85 (or best offer): Larry WA6PLX 286 2839 SD.

(4-5) COMMODORE 128 computer, 1571 disk drive, 1902 color monitor + software \$100: Pete W3ARU 943 8366 LaCosta.

\*\*\*\*\*OLD ADS PRINTED ON ODD MONTHS

(3-31) Phase Converts(2ea) on 220vac (give yourself an extra leg!), 1)5hp Convert-A-Phase rotary \$500; 2)3hp Phase-A-Matic static \$100: John KD6LDI 729 1804, days Carlsbad.

(3-30) IBM Clone 386-33 computer 100meg IDE HD 3.5" & 5.25" floppies, modem, 1meg RAM, V6A monitor \$375; US Robotics 14.4 Fax/modem <1yr warranty box + manuals make offer: Tim N6ZUC 735 9125 Escondido.

(3-16) ICOM 2PAT HT w/DC car charger/sup \$285: Mike K6PZN 693 3915 SD.

(3-10) ICOM IC-751A w/PS-35 internal pwr supply new in box \$975; Drake MN-75 antenna tuner 160-10m 2kw \$275: Allen N7AMR 434 5656 Carlsbad.

(12-30)RS HTX-202 2m HT used 3mo hv real base nw perfect \$200firm; Newmar 13.8vdc 8Amp pwr supply \$100f; Toshiba full size VHS camera w/video light pwr sup/bat charger hard case (needs bats) gud condx \$550; Motorola marine VHF 12chan 25w xmtr (rcvr too?) 13.8vdc 156MHz gud condx \$100: Carl KE6JQL 565 8130h or 525 8540 8-5:30pm.

\*\*\*\*\*  
HIGHWAY ELECTRONICS:parts,(new/old) military. Ask 4Nick,967-7225 2 C if open(10-3pm),305 Wisconsin Ave,Ocsd  
\*\*\*\*\*

(12-21)Tektronix Mod-575 transistor curve tracer \$100; HP

Mod 170B dual trace, dual time base oscilloscope \$100 or best offer; scope card hvy duty \$25: Jack KI6RF 222 4209 after 6pm SD.

PLEASE LET ME KNOW IF YOU BUY OR SELL SO I CAN TAKE OUT THE AD!

XXXXXXXXXX W A N T E D XXXXXXXXXXXX  
"Did you see my PO picture?"

(6-16)Info on 30meter transmitter conversion to Yaesu FT-101E: John KD6TLF 747 9431 Escondido.

(6-8) To copy manual for MFJ-1278 Multi-mode Data Controller: Stan W9FQN 749 0276 for PARC.

(6-05) FT-243 crystals for 7.010 to 7.050 or somewhere near: Ron W6TUR 465 6129.

(6-2) EX SWAN tech does repair & refurbishing of Swan Xcvrs: John Bruchey, 4910 Verde Dr, Oceanside 92057.

(6-2) SWAN DIGITAL readout accesory DD-76; and circuit board vise: Nash W6HCD 940 1028 Fallbrook.

(2-15) FALLBROOK HIGH SCHOOL will take any and all donations of amateur radio equipment. We need radios, a Tri-band Beam, etc. (it's all tax deductible). Please contact Fritz Schattschneider, KE6EKY, at 723-6357 or Gayle Olson, KM6WF at 723-6402.

OLD WANTED PRINTED ODD MONTHS=PARC=

(3-2)All types of Collins speakers and accessories (old-new): Agent 4-W4ESQ, Stan W9FQN 749 0276 VC.

(03-10)A-36 triband beam; 15kw 100pf NPO doorknob capacitors, ICOM PS-35 or PS-740 pwr supply; B&W PROTAX antenna switch: Dennis N6KI 271-6079 Mira Mesa.

(01-08)Kenwood TS-140 & access.; Drake MN 2000 Tuner. Kenwood or Henry Amp.; Hal Tele-reader for mobile RTTY. for IOTA: Larry W7HKI 439 5855 Ocsd.

PLEASE REPORT UNWANTED ADS TO UR EDITOR! =PARC=

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
B U I L D I N G ? ? W9FQN  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

The following club members have volunteered to serve on the committee looking into the possibility of building a new block repeater

building:  
W6GCI, Sybil Albright  
KB6MCU, Bill Smith  
KD6VHI, Mike Pennington  
N6YSR, Jess Thieme  
.....(your name?).....

Stan-W9FQN was appointed chairman of the committee and of course, our club president, Art McBride, KC6UQH, is an ex-official member of all PARC committees.

We would still like to have a few more members to serve on the committee who have building experience or some time to help the committee. It needs to be remembered that this committee is not a group to BUILD a new repeater building but its main purpose is to see if we really need a new building and if so, what type of building should it be with estimations of its projected cost.

The committee will submit to PARC's Board several alternatives for the Board's discussion and decision along with possible funding plans. At that time, if the Board decides that a new building is necessary and practical, then the Board will probably appoint another committee to obtain the new building.

The committee will be looking into the following areas:

- 1)condition of all buildings for the next 15 years.
- 2)repeater needs for next 15 years.
- 3)buildings already available to PARC but not at the site.
- 4)impact of new bldg on neighbors.
- 5)construction cost of block bldg.
- 6)alternate buildings (Cargo Container.
- 7)impact of cost/effort on PARC. (ie, other projects not done?)
- 8)methods of financing a project.
- 9)problems with local construction permits for Palomar Mountain.
- 10)security and lightning probs.
- 11)fire and earthquake protection.
- 12)have we missed anything? Send your comments to W9FQN.

The purpose of this committee is to gather information so that PARC's Board can make an intelligent decision when the time comes. Members comments, suggestions,

# Gordon West, to Speak in August

## TOPIC: USING WEATHERFAX TO PREDICT TROPO OPENINGS TO HAWAII - THE WHY AND HOW

In tracking the tropospheric duct between California and Hawaii over the last 15 years, 72% of the time, the duct was accompanied by a hurricane south of the path. You can usually bank on long-haul tropo conditions to form when the hurricane begins to spin counter-clockwise south with the high pressure system up north with you and the other station in between! Come and hear this fascinating presentation on August 2, 1995 at the Palomar Amateur Club meeting. August is one of the better months for working tropo, too.

## AMATEUR RADIO and the INTERNET

Paul Williamson, KB5MU, will take us on a tour of the Amateur Radio sections of the Internet. If you have not yet been introduced to the Internet, come out on July 5 and learn about it.

criticisms, etc. will be appreciated at any time. Please express your views to a committee or Board member. =PARC=

\*\*\*\*\*  
F I E L D D A Y 1995 N6UWW  
\*\*\*\*\*

Since the SCOPE "goes to bed June 23rd (Friday) of Field Day Weekend, SCOPE coverage of the event will be limited to what can be typed in over the FD weekend and additional coverage will be in the August SCOPE.

A great crew arrived Friday afternoon and worked until late in the evening assembling the equipment needed for the 24 hour period of 11am Saturday to 11am Sunday.

Mike-KD6VHI and Chev-KE6URU laid 2500 feet of 0/1 and 0/2 electrical cable to run 110vac to each of the stations in our 1000' circle from a master 30kw generator at the N/E corner of the tank area. They did a tremendous amount of work laying and splicing the heavy cable.

Bill-KB6MCU, as usual, had all of the coax runs neatly rolled up on spools and laid out for easy pickup. He also had rotators and cable ready to go. Bill also helped distribute antennas to the proper stations and helped set up many of the club's crankup towers.

Brian-KF6C's group had the San Diego Bicycle group up to power a bicycle driven alternator which produced 12v to charge batteries. The batteries then powered a 12vdc to 110vac inverter allowing us to make many contacts using "human" power. Brian also had a very large

balloon filled with helium that held up the 300 foot tall 160 meter vertical.

Fred-KE6BGI was the master chef and served many hungry operators with his Early American style of cooking.

Jo-KB6NMK cleaned up all of the small trash from each of the operating positions so that we could leave the tank area cleaner than we found it.

Wayne-WD6AHX helped everyone with setup and almost all stations were on the air Friday evening for testing. Some stations found problems that needed to be corrected Saturday morning but the bulk of the stations were making "test" contacts Friday evening. He also was the last to leave Sunday afternoon when we closed up the area around 3pm.

Ellen-N6UWW, chief coordinator, saw to it that everyone got together and that the whole operation ran smoothly.

The WWV station(s) indicated that solar flux levels were low as well as the sun spots being at their lowest level in the 11 year sun spot cycle ..which accounts for the poor propagation conditions observed on all bands. The VHF/UHF station did observe a temporary 6m opening to the north and to Texas.

It appears as if the club was able to make 4,026 contacts during the 24 hours with a Morse Code (CW) station for the first time ever turning in the most raw contacts.

Novice/Tech 231 75 SSB 570  
20m SSB .... 737 20/80 CW 733

15/40 SSB ... 525 15/40 CW 776  
10/160 SSB .. 238 Satellite 16  
VHF/UHF ..... 200 EstTotal = 4,026

While 4,026 contacts is below our 1993 winning effort of 5,421 contacts, the lower sunspot cycle resulted in the higher bands not being open or for as long a period of time. Our 1992 winning effort was 4,110 contacts with a higher sunspot number and a lower CW mix.

Since our contact mix was weighted towards CW this year, it appears as though we will have a respectable score even after having laid off from contesting for the 1994 contest year. ARRL official results will be available for the November issue of the SCOPE.

Wait until next year! =PARC=  
\*\*\*\*\*  
- V O L U N T E E R S -  
\*\*\*\*\*

One of the big problems which committee heads have is that each one says to himself, "gee, here is a club of 875 members and I can't get anyone to volunteer to help me with my project ..or my net."

One would certainly think that with 875 members that a committee head should be able to get all of the volunteers he or she needs ..but that is usually not the case. So what is at work here?

For one thing, each of the 875 members probably says to himself, "gee, with a club of 875 members someone will volunteer and I won't be needed."

With the committee head and the prospective member both thinking that there will be lots of volun-

teers from 875 members, they all soon discover that no one volunteered ..and then the committee head says, "its really too bad that a club of 875 members can't find a few people to volunteer for MY PROJECT."

Well, past experience has shown that if you have a job to do that you call upon the general membership for help but YOU ALSO CALL upon your friends to help. And this is where a lot of the problem probably lies. Most people asking for help do not have many friends or very few club members know them.

It is very easy for a non-friend to not volunteer but it is difficult for a friend of yours to say NO when YOU ASK THEM for help.

It should also be noted that in volunteer organizations that really only a small percentage of people volunteer for things that need to be done and it really is unfair to compare ourselves with other clubs which are much smaller. After all, look at what we do. We conduct FCC VE exams every month. We have more nets and more net participation than all of the clubs in San Diego (and possibly the world) put together. We are really the only club in the area that has so many technical nets on their repeaters. We have free autopatches for members to all of San Diego County. We have had the best Field Day efforts over the years of any club in the San Diego area and we won the 5A classification 3 years in a row under Dennis-N6KI. We draw more amateurs EACH MONTH to club meetings than any club in San Diego County and for all we know, the world. We also support one of the largest pure CLUB repeater systems (not an association or high priced dictatorship) and all of this for a modest \$12 per year (\$21 for family). YOU help run PARC with your votes and input. We also have great participation in work parties at the repeater site and many people help with the production and mailing of the club newsletter, The SCOPE.

Dennis-N6KI is a great example

of a committee head who gets things done. Dennis will ask for help but he also goes out and beats the bushes for the best people that he can find to do the job that needs to be done.

Look at all of our club members who are involved quite heavily in RACES, ARES, Red Flag, EVAC, etc. Our club members participate in a lot of things and so if your are a committee head, you need to remember that you are not the only fish in the bowl and that you have to COMPETE with all of the other things going on in the club. If you are not getting volunteers, you need to ask yourself what you are doing wrong.

Just think of all of the hours spent by officers and board members who conduct the club's business. When you get right down to it, there are so many people in the club volunteering for other activities which you are probably not aware of that all you can see is 875 members and no one volunteering to help you.

Do you need volunteers? Its nice and correct to make announcements in the SCOPE and at club meetings to give club members an opportunity to volunteer but if you are really serious about getting members to help you with your committee, it is suggested that you develop a large number of friends that you can call upon personally to help you in your time of need.

It is easy for someone without personal contact to say "NO" but it is more difficult to say "NO" to a friend. Do you have friends? Do you have high visibility in the club? The higher the visibility the easier it is to get members to participate.

A big club has the problem of having its members know each other and it really takes a special effort on the part of each of us to make friends with other club members. At club meetings, introduce yourself to those around you and develop relationships. Ask what the other person's interests are. Show an interest. Who knows, you might

really find someone interesting. On the repeaters, don't be afraid to jump into conversations (give your call letters) where you can easily fit in and make sure that you jot down on a piece of paper the calls and names of those you talk to so that the next time you can surprise the other person by calling him by name immediately.

Friendships take effort!

PARC makes mistakes and fails in some areas but in spite of these short comings, we are one of the best true CLUBS (not associations) in the nation! You might find some group that does something better than PARC but you will have to look long and hard to find a group that does so many things well as we do. We are not perfect ..but you could help us become more perfect!

Despite what some might think, PARC is a democratic organization with a club elected board each year who work for the benefit of the club members. Its true that with this type of organization, that PARC moves slowly, but it is the fastest growing CLUB in the San Diego area. Dictatorships can move rapidly than PARC but who likes to be part of a dictatorship! PARC must be doing something correctly.

When someone asks for help, do not think that there will be millions of people jumping at the opportunity and that your participating is not needed. Remember, here is your opportunity to participate in the club beyond your \$12 club membership. Club success is not really determined by the number of members but by the participation that we have from EACH and EVERY club member.

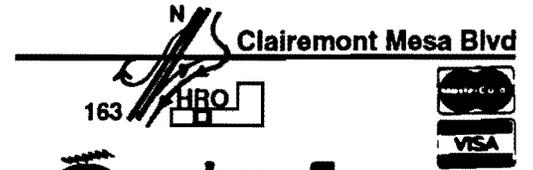
While it is true that you might be extra busy this year, possibly next year you will be able to volunteer to help out in some club activities. If you only know one or two club members or only one or two know you, then you are not participating and receiving the maximum enjoyment and learning that you can from PARC and amateur radio.

It is easy to complain and do



# HAM RADIO OUTLET

"LARGEST HAM OUTLET IN THE WORLD"  
ALL MAJOR BRANDS IN STOCK NOW!



ritconcept

DIAMOND ANTENNA

US TOWER

ICOM

K&Kantronics

KENWOOD

HUSTLER

COMET

BENCHER, INC.

MFJ

YAESU

Cushcraft CORPORATION

OUTBACKER

hy-gain

Astron

AMERITRON



Iri-Ex  
Larsen Antennas

TEN-TEC

Open: 10a.m. - 5:30p.m.  
Monday thru Saturday

560-4900  
or toll free 1-800-854-6046

**5375 KEARNY VILLA ROAD, SAN DIEGO**

## RADWARE: The PC Transceiver

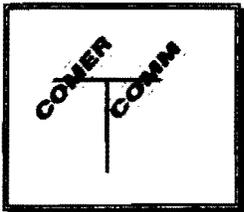
can now be extended to cover 6 Meters, 2 Meters,  
1 1/2 Meters and 70 Centimeters.

A set of components "RADCOMPS" has been developed that simply plug together to build converters, transverters and or the HF output stages for RADWARE.

Call the RADWARE BBS for more info 599-0185

The current introductory price of \$470 for both RADWARE and sound cards ends 5/20/95.

List price will be \$595 for both cards.



COMER COMMUNICATIONS, INC.  
2598 Fortune Way - Suite I  
Vista, CA 92083 (619) 599 - 0476



# PARC Membership Application

AMATEUR CALL
CLUB MEMBERSHIP? <input type="checkbox"/> NEW <input type="checkbox"/> RENEW
ARRL MEMBER? <input type="checkbox"/> YES <input type="checkbox"/> NO
LAST NAME
FIRST NAME
STREET ADDRESS
CITY
STATE ZIP
HOME PHONE
WORK OR OTHER PHONE
HAM LICENSE EXPIRES
FAMILY MEMBERSHIP (List other calls and names)
CLASS OF LICENSE N T T+ G A E

Mail this form with your check to PARC, P.O. Box 73, Vista, CA 92085-0073 or hand to membership chairman at club meetings. We prefer checks to cash, it's safer and you have a record. Dues are \$12 a year which includes \$3 for the Scope, or \$21 for a family all at the same address. Consider paying for two or three years at a time to reduce the work for the membership chairman.

Name, call and complete address are required. Telephone number is requested but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

nothing. It takes understanding and drive to make a name for yourself so that members come to you when you ask for help.

Life is give and take ..and those who give usually end of with more lasting relationships than those who just take ..and give nothing in return.

If you are a member of PARC and have not participated in the fun and learning that goes on, you really are missing out on what amateur radio is really all about.

=SK=

\*\*\*\*\*  
- P A R C B O A R D -  
Pres : Art McBride . KC6UQH 7418143  
VPres: Syb11A11bright W66IC 2784284  
Sec : David Doan . KC6YS0 2864888  
Treas: JenniferThieme KM6WG 5991134  
RptTec:John Kuivinen WB6IQS 7273876  
SCOPE :Stan Rohrer . W9FQN 7490276  
MemShp:Ralph Powell KC6WAN 7277415  
Member:Mike Doyle . AB6QT 7421573  
Member:MarvinMunster WB6PKK 7472223  
\*\*\*\*\*  
VE Program: Rusty . AA60M 7475872  
ATV/Edu. : Bill . KB6MCU 5822313  
PALBBS : Norbert KJ6ZD 6305538  
\*\*\*\*\*

JUN. SCOPE FOLD/STAPLE  
Editor:Stan Rohrer-W9FQN 30311 Cir.  
R.Ln.,Valley Center CA 92082  
KI6JM Jack Hanthorn,Folding Refresh  
WA6Y00 . Harry Hodges . Staples  
N6TCB . Jerry Carter . Sorting  
W6TFB Lloyd & Lisbeth Hunt,Folding  
KB6YHZ . Art Nye . Folding  
KB6YHY . Anita Nye . Labels  
N6WQR Bernice Rosenberg Folding  
KC6WAN,Ralph Powell,Printing,Labels  
\*\*\*\*\*

JUL.'95 S.Call?: \_\_\_\_\_  
(Sponsor's call not required)

\*\*\*\*\*  
S C O P E, US Post Office #076530  
Published monthly by: = PARC, Inc.=  
Membership \$12/yr including \$3 for  
SCOPE inside SDCo (outside \$4).

POSTMASTER: Return to -> S C O P E  
P.O.Box 73,Vista, CA 92085-0073

\*\*\*\*\*  
Pg.Yr I N T H I S I S S U E  
1-73 Last/Next Mtg, End of year, .  
2-74 AG060, Boart Meeting, . . . .  
3-75 President, Editor, . . . . .  
4-76 Membership, VE, Work Parties.  
5-77 Repeater Tech, Autopatches, .  
6-78 Repeater Ops, . . . . .  
7-79 For Sale, . . . . .  
8-80 Wanted, Building?, . . . . .  
9-81 Field Day 1995, VoLunteers, .  
10-82 VoLunteers Cont., . . . . .  
11-83 HAM RADIO OUTLET & COMER Ads  
\*\*\*\*\*

2nd Class Postage Pd  
Vista CA 92085-9998

# Scope

Vista	Mira Mesa	La Mesa	Fallbrook	Membership Expires	License Expires
Palomar	Mountain			PRC yy mm	LX yy mm

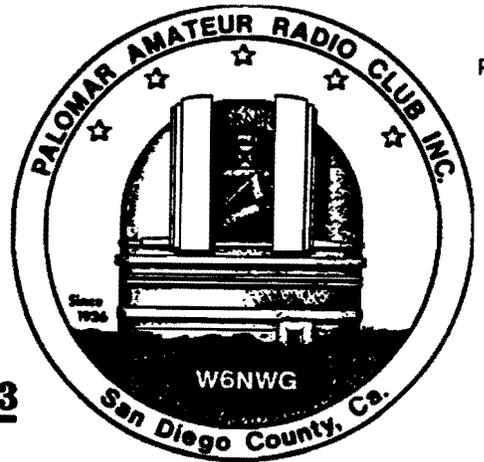
Phone Codes  
Deliver To

Amateur  
Radio  
Today

W6NWX W6NWX W6NWX W6NWX

# Scope

W6NWX



**Palomar Amateur Radio Club Inc.**  
**Post Office Box 73, Vista, California 92085-0073**

AUGUST \*\*\*\*\* 1995 \*\* 59 YEARS OLD  
Dues \$12, Volume XXI Number 8  
Coffee 7pm, Mtg. 7:30 pm @ Carlsbad  
Safety Center(CSC), Palomar Airport  
Rd.to N.on Camino Real(S11),east on  
Faraday .25 mi,left to CSC,TB 14F6.  
===== Talk-in 146.73 =====

\*\*\*\*\*  
OPEN REPEATERS / CLOSED AUTOPATCHES  
PARC PALOMAR MT.REPEATERS(W6NWX):

PARC Trustee of W6NWX: Ron,WI6B  
\*52.680- W6NWX,-.500 MHz(test)  
Autopatches(4): 146.730-, \*147.075+  
\*147.130+, \*449.425-

PKT: 145.050s PALMAR W6NWX-1 Open  
(linked PARC 9600 METROLINK)  
146.700(-) Duplex BBS/EMG use  
145.070/146.700 W6NWX-3/PALBBS  
KJ6ZD SYSOP(QTH Vista)

ATV IN:915 WBFM,919 AM,2441.25 WBFM  
Intercom: 146.430, PL 79.7 NBFM  
OUT: 1241.25 AM ///// \*=107.2Hz  
OTHER:\*224.380- KK6KD;\*224.9-WD6HFR  
\*146.175+ WA6IPD, FalbrkPatch

\*\*\*\*\* C A L E N D A R \*\*\*\*\*

AUG 1 Tue. N E W C L U B Y E A R  
--->>S E N D U R D U E S A S A P  
Aug 2 Wed.CLUB MEETING, T R O P O  
Aug10 Thu.PARC 7pm Board Mtg W9FQJ  
Aug12 Sat.PARC VE Tests Carlsbad SC  
Aug15 Need UR dues to get Sep.SCOPE  
Aug25 Fri.Deadline 4-SCOPE articles  
Aug29 Tue.SCOPE mailed at Vista PO  
Sep 1-3 ARRL SW DIVISION CONVENTION  
Sep11 GENERAL CLASS starts at CSC  
Sep17 PARC PICNIC DIXON LAKE-PRIZE\$

\*\*\*\*\*  
- R E N E W N O W -  
\*\*\*\*\*

RENEW NOW. PLEASE PAY BY CHECK.  
MOST MEMBERSHIP\$ END JULY 31\$T \$O  
\$END \$\$\$\$\$\$ TO CLUB ADDRESS\$ ASAP OR  
BRING TO THE AUGUST CLUB MEETING.  
T H E E N D I S N E A R I

**Gordon West to Speak in August**  
**TOPIC: USING WEATHERFAX TO PREDICT TROPO OPENINGS TO HAWAII - THE WHY AND HOW**  
Our speaker for the August meeting will be Gordon West, WB6NOA, educator, writer, and an excellent speaker. Gordon will be telling you how to use weatherfax (or weather reports) to predict tropospheric ducting to Hawaii, which usually happens in July or August. Tropo is different from sporadic E that is used for DXing on 6 meters. The layer between the ocean and the weather ceiling carries signals on 2 meters, 440, 1.2 Gig, and 10 gig and ATV to Hawaii. Come to the meeting on August 2 and learn all about it!!

\*\*\*\*\*  
L A S T M E E T I N G  
\*\*\*\*\*

Attendance was 127 members & 17 guests for a total of 144.  
Paul-KB5MU took us through the Internet and other "far out places" in his usual clear, logical manner showing us how the system is put together and what is available. Paul spends a great deal of preparation time on his talks and it shows.

SHOW & TELL had Pat-WA6MHZ showing FD video with Ellen-N6UWV giving FD raw scores; David-KE6YSO handing out ARES newsletters;

Bill-KB6MCU and his camera crew videoed the meeting and played it over PARC's ATV repeater July 9th.

Wayne-WD6AHX to be Field Day coordinator for 1996.

SHDW and TELL is an important part of PARC's meetings and if you can find at least one new thing to think about in Show & Tell your trip to Carlsbad was probably worthwhile. =PARC= .

\*\*\*\*\*  
N E X T M E E T I N G V P r e s . S y b i l - W 6 G I C  
\*\*\*\*\*

PLEASE COME EARLY and help set up chairs ..and STAY A FEW MINUTES to help put away the chairs. WE NEED HELP!

Club meetings start at 7:30pm but many of our members come at 7pm so that they are able to talk to friends, get a good seat, look at items on the junk table, see equipment as it is being set up, watch demos (ie. packet), and pick up some of the FREE magazines.

Those members that travel longer distances usually find someone in their area to share rides with which makes the longer drives seem shorter. PARC will try to help you by featuring "get-togethers" at some of our meetings.

The program for August 2nd will be Gordon West, WB6NOA, a nationally known writer for radio magazines, who will speak on USING WEATHERFAX TO PREDICT TROPO OPENINGS TO HAWAII (see box above).

SHOW & TELL: Please see me before the meeting to reserve time for your SHOW & TELL item(s).

WOW! 1995 GOAL OF 900 MEMBERS REACHED!  
On July 24th membership was 901!

\*\*\*\*\*  
- JUL. BOARD MEETING -  
\*\*\*\*\*

BOARD: KC6UQH W6GIC KC6YSO  
KM6WG\* WB6IQS W9FQN KC6WAN AB6QT\*  
WB6PKK (\*ABSENT).

OTHERS: KB6MCU (ATV & Training),  
Fred-KE6BGI (FD food), and Dennis-  
N6KI (Field Day scoring).

The 7pm meeting was at Sybil-  
W6GIC's QTH and started at 7:15+  
and ended at 9:30pm.

Sybil-W6GIC served cookies,  
drinks, to the group. There was a  
fight over the peanuts when W9FQN  
allowed them to all be eaten while  
he was talking.

- SECONDS -

DISCUSSED: Year 92% completed  
and most accounts near where they  
should be for this time of the  
year; \$3633 Equip. Bal, \$1166 Gen.  
Purpose, \$7943 Pre. Paid, \$110 Post  
Office, \$-0- ATV, \$135 PALBBS;  
Field Day scores Dennis-N6KI  
(12,816 est); Programs; Del Mar  
Fair report (W6GIC); PARC  
brochures; VOLUNTEER SCOPE article;  
work parties; TASMA; classes Bill-  
KB6MCU; bandpass cavity to PALBBS;  
KI6RF charger supplies; membership  
886; By-laws to AC6B0; FD noise;  
and building committee options (4).

APPROVED: Next board meeting at  
Marvin-WB6PKK's QTH in Escondido;  
Dixon Lake fee \$40; Ham for picnic;  
Picnic gift certif \$300 (W6GIC);  
Several small bills; FD food \$282;  
6m controller chip \$20; Accepted  
Charles-N6TEP's SDCTN resignation  
(letter); 500' drip hose \$50; tower  
guy wires \$500; climbing equip  
\$150; U-bolts and paint \$25.

Contact a board member 4-info or  
C Secretary 4-minutes. =PARC=  
\*\*\*\*\*

Thanks to:

\*\*\*\*\*  
All those manning the DEL MAR  
FAIR amateur radio booth this sum-  
mer: KE6SEH-Andrew, KE6BUE-Ione,  
AA6EE-Duane, KM6ON, N6URW-John,  
KE6VGI, KB6YHZ-Art, KB6YHY-Anita,  
KE6HRL-Tom, KE6EUM-Ryan, N6URW-John  
(again), & KE6MQC-Dennis.

You each received 1-PARC activ-  
ity point besides a chance at  
prizes specifically for those work-

ing the SANDARC booth this year.  
=SK=

NASH-W6HCD for donating a cab-  
inet and a lot of 19.5" rack panels  
which can be used at the repeater  
site. =SK=

CHARLES-N6TEP and "CAPPY",  
KC6MVG, for locating a garage full  
of donated goodies for PARC. =SK=

DENNIS-N6KI for more NASA maga-  
zines. =SK=

DIRK-KE6L6W for the donation of  
several scrounged up equipment cab-  
inets and aluminum plates and gave  
JOHN-WB6IQS permission to sell the  
cabinets to a local firm for \$250.  
The money went into the equipment  
fund. =SK=

DAVID FENDER-K6QL for the dona-  
tion of a large (heavy) tower base  
picked up by ART-KC6UQH and STAN-  
W9FQN on way to board meeting.  
David was quite active in SANDRA  
during the early 1970 repeater days  
in SDCo. =SK=

DAVID-KC6YSO for finding out  
that the frequency of the ARES  
packet on 146.630s was really  
145.630s. =SK=

ART-KB6YHZ & Anita-KB6YHY made  
the coffee and supervised the drink  
& goodies ..and members bringing  
goodies were: Duane-AA6EE, Bill-  
KM6PY, "J"-KD6PBH, and Jerry-N6TCB

THANKS TO THE GOODIE BRINGERS  
FOR HELPING MAKE THE CLUB MEETINGS  
A BIG SUCCESS.

Goodies were great and you were  
rewarded with ONE participation  
ticket. =SK=

If we miss anyone, please let  
your editor know WHO and WHEN.  
=PARC=  
\*\*\*\*\*

- AGOGO - K6HAV/KI6JM/W9FQN  
\*\*\*\*\*

(8-94)(1yr) ..SW Div Convention  
SD ..109 attended July meeting CBSC  
..Nash talked on Solar Cells  
..147.13 to be removed temporarily  
for minor changes (still out -Ed)  
..Bill-KB6MCU to have picture in  
Aug QST (Up Front) ..Article on  
PARC FINANCE ..Joey-NU6L installed  
100A circuit breaker at repeater  
site ..all time high of membership  
at 809 ..

(8-90)(5yr) ..Merit-W6NLO of

WestCom to talk about Diamond  
Antenna and AR-3000 10m xcvr ..info  
on August Club picnic ..info on  
Art-WA6IPD 146.175 repeater ..past  
FD scores by PARC ..FD thanks to  
members ..Eleanore-N6QJE consents  
to help with booths at SWDiv Con-  
vention ..Editor's request (Ralph-  
K6HAV) for new SCOPE editor because  
of move to Salt Lake City ..Dennis-  
N6KI to do annual auction ..club  
roster insert ..PARC & Marine Corps  
cooperate to run tanks over re-  
peater jammers .. =PARC=

\*\*\*\*\*  
V E T E S T I N G Rusty-AA6OM  
\*\*\*\*\*

Test results for July 8th:

Tested 14 candidates for 18  
elements with 15 passes & 0 no-  
shows.

ADV->EX: Brian-KC6LDN.  
GEN->ADV: George Chernish &  
Bill-KE6FUH.

TECH->GEN: Dennis-KE6FKU, Bob-  
KE6NAN, & Jon-KE6NAM.

TECH->Tech+: Martha-KE6UPR.

NONE->TECH: Bob Ottaviano.

Other: Bill-KN6RH(4B) and Susan-  
N6QDB(3B) (W9FQN's daughter).

TEST TEAM: Bob-KE6VX, Jack-  
KI6JM, Paul-KB5MU, Tim-N6ZUC,  
Duane-WB6R, & Rusty-AA6OM.

73, Rusty-AA6OM =PARC=  
\*\*\*\*\*

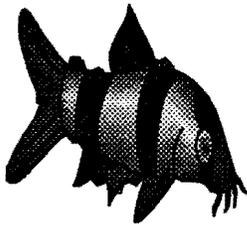
P I C N I C Mike-AB6QT  
\*\*\*\*\*

PARC's annual picnic will be at  
Dixon Lake on the north edge of  
Escondido on Sunday, September  
17th.

This will be a day of fun,  
fellowship, and games plus a  
drawing for prizes.

There will be many amateur radio  
related activities and a complete  
listing will be in the September  
SCOPE.

All club members during the  
1994-5 year receive activity  
tickets for approved club events  
and attendance at meetings up to a  
limit of 20 tickets which will be  
dropped into a hat. Winners will  
receive amateur radio books, gift  
certificates (\$100, 50, 50, 25, 25,  
25, and 25) that can be used at  
HRO.



## SPORTFISHING

ON THE WINDSONG  
Oscar Olson KE6EDC, Captain  
619-673-9201

ONLY CURRENT CLUB MEMBERS ON SEPTEMBER 17TH WILL RECEIVE THEIR 1994-5 ACTIVITY TICKETS!

Dixon lake is a large area and there is plenty of space for fun for the entire family.

I do need some help. If anyone has a source of good ham (not the amateur type), please give Barbara-KA6FPS a call at 749-0276.

I am also looking for an insulated 5 gal drinking container in which to bring some of that fresh Palomar Mountain water to the picnic. =PARC=

SK-\*\*\*\*\*-SK-\*\*\*\*\*-SK  
ROBERT J. UTSCHIG K 6 Q J P

SK-\*\*\*\*\*-SK-\*\*\*\*\*-SK

Ellen-N6UWV's father, a former club member, passed away July 7th. Our sympathy to Ellen and her family. We know he will be missed. =PARC=

\*\*\*\*\*  
PRESIDENT'S WAVELENGTH, Art-KC6UQH  
\*\*\*\*\*

We had a very successful Field Day. Considering two years had past since our Club worked 5A, we did exceptionally well with a final score of over 13,000 points. Everyone worked together with a minimum of problems. We did miss some opportunities to gain more contacts, but there is always next year. We had several new operators including myself on satellite and this was a positive learning experience for many of us this year.

We worked under adverse conditions. 20 Meters did not remain open during the night. There were fewer stations operating on 160 Meters than we planned for and the power line noise was ferocious on the lower frequency bands. The satellite station suffered from local 2 Meter interference, and a number of other stations running too much power which reduced the signals being sent back from the satellite. Under these conditions, bigger antennas and a 2 Meter cavity type filter are a must for next year.

The large diesel generator worked flawlessly, the Novice/Tech station did better than ever this year and most of their contacts were on CW. Our highest scoring station was the 15/40 CW Station. Setup and tear-down went very well with no insurmountable problems. Most important was the fact that there were very few complaints and most everyone was enthusiastic about participating in our Field Day next year.

The Board of Directors approved the sale of our old HF equipment and the purchase of a late model HF transceiver for the Emergency trailer. The trailer, equipment and the site of Stan's QTH are available for individual and small groups of members to work all contests except Field Day when it will be part of PARC's Field Day activities. This is an excellent opportunity for Club members to refine their operating skills between now and next Field Day. Please contact Stan, W9FQN for reservations.

I want to thank everyone who participated in our Field Day this year and regardless of our final standing we did a fantastic job, one that we can all be proud of. Learning to work together and solve problems as they occur is what makes Emergency Communications work in Amateur Radio. This year with new operators on many stations we did just that.

It is with regret that I accepted the resignation of Charles, N6TEP as net manager for the San Diego County Traffic Net.

Tim, WAIZEN also resigned his position of Monday night net control. Charles and Tim are very dedicated volunteers who have put in an extra special effort in handling traffic reliably for many years. Ruf, KR6K, has supplied us with MARS Traffic in the past, and through no fault of his own, the MARS group has decided to not allow him to refile MARS traffic through a non MARS Net. We need to generate more traffic for our Net, and we need more participants to make the Net meet its primary objective, which is an Operator training net, for origination and delivering of written ARRL messages.

We need to develop these skills for Emergency training. If an Emergency should occur E-Mail and Cellular Phones most likely will not function to full capacity, if they function at all. Just as the Navy has insisted on keeping the OMEGA Navigation System, even though it is antiquated compared to the Global Positioning System (GPS), because it is global in nature and it's signals are transmitted from secure land positions. Satellites are considered vulnerable in time of war and are more easily interfered with than VLF Stations operating at 10-13 KHZ. Being able to take and transmit a message and receive and deliver a message while not hi-tech, is like OMEGA, an important National resource.

Like using the auto-patch message handling requires routine practice. If you are asked in an Emergency to send or deliver a message can you remember how? Where are the instructions? Do you have the time to find them? What is the priority of the message? A check of ?? Does the sender wish a reply? Reply to where? If you do not have a form, can you write out one accurately? Real Emergencies are not the time for operator training.

I have appointed Wayne, WD6AHX, as acting Net Manager for the San Diego County Traffic Net to replace Charles, N6TEP, effective August 1, 1995. Wayne will work on getting

more traffic for the Net, as well as more people to operate and participate in the nightly Net. Wayne will be looking for a permanent Net Manager as well as ideas on making the Net a larger activity for the Club. PARC, during Operation Desert Storm, handled a large volume of Health and Welfare traffic for Military dependents in the San Diego area. Much of this effort can be attributed to the efforts of Charles, Tim, Ruf and many others. I hope they will continue their participation in the San Diego County Traffic Net in the future.

I have asked Stan, W9FQN, to rerun the "HOW TO FILL AN ARRL MESSAGE FORM" that Jo, KB6NMK did a few years ago in this months issue of the Scope. This is being done to inform new and old members of the basics in handling traffic. Please try to originate a message using this form and bring it to the San Diego County Traffic Net on 146.730 at 8:00 PM any night of the week. The National Traffic System can deliver the message anywhere in the U.S. via an Amateur Radio operator in the local area of the message destination.

Note: We lost 100 points because we did not originate 10 messages at Field Day this year. We do need to practice for Field Day next year.

73, Art, KC6UQH

=PARC=

\*\*\*\*\*

EDITOR  
W9FQN



\*\*\*\*\*

PARC would like to welcome its newest advertiser, GRACE-N6WPA (The NiCad Lady). Grace lives in Wildomar and has been attending many of our club meetings. Please give her a call or talk to her at meetings about your nicad problems. Ralph-KC6WAN had Grace make up a special battery pack for his portable computer and its working better than orginally since Grace used the newer cells which have a higher Ahr rating.

Another fairly new advertiser is OSCAR-KE6EDC who is captain of the WINDSONG. If you are interested in

fishing, Oscar makes almost daily trips out of San Diego to the fishing grounds off the San Diego and Mexican shores. He takes individuals as well as groups. Contact Oscar or his wife, GAYLE-KM6WF for more information on charters.

Be sure to tell our advertisers that you "saw their ad" in the SCOPE.

If you would like to advertise in the SCOPE, contact me at meetings or at my address on the address page. =SK=

Every FIELD DAY I am always impressed with how the stations we contact react to the "non-standard" phonetics of W6NWG (nothing-works-good or nothing-working-good). It must say something about the frustrations of Field Day that many groups encounter. =SK=

There was a question about the AUTHORSHIP of one of the articles (VOLUNTEERS) in the July 95 SCOPE by one of our club members. Your editor takes the ultimate responsibility for all items published in the SCOPE except where credit is given ..and even then I take responsibility for errors in typing or errors in translating the copy given to me ..written or verbal.

At each board meeting I ask board members if there is anything that they feel should be "pushed" and some of the articles come from these suggestions. Articles that are uncredited can be assumed to come from the pen of your editor and many times reflect the sentiment of the Board as well as your editor. =SK=

I have just finished typing in almost 2,000 call signs for ATTENDANCE POINTS which everyone receives for attending a meeting or club function ..and provided that they PRINT their call CLEARLY! Now I only have to type in the calls of those participating in committees, nets, work parties, etc. before the club picnic in September.

Fortunately, I learned to type (yes, I know some of you don't think so) on my mother's old black 1924 Remington Portable with flip-up keys and hand (finger) paper

advance and carriage return. Those were the days! No dead disks. No hard drive off in never-never land ..no magical jiberish to install a program ..just plain old finger power which worked without even a kerosene lantern ..EVERY time you opened it up.

And the HORSE and BUGGY (with whip antenna) above remind me of my childhood days in Wakarusa (Indian for "knee-deep-in-mud", Indiana. Were those the good old days? 73, Stan-W9FQN, =PARC=

\*\*\*\*\*  
MEMBERSHIP Ralph-KC6WAN  
\*\*\*\*\*

Well over 200 memberships come due for renewal at the end of July. Those of you intending to pay at the next two meetings should bring a check. Having 100 members trying to hand me cash at the meeting would be chaos ..just a check with your name and call sign on it please ..no other paperwork is needed unless you have modifications to your address, phone number, or license expiration date.

NEW CLUB MEMBERS wanting confirmation of their membership and/or an autopatch information sheet and/or FCC 610 form should send to me at the club's address a (S)elf-(A)ddressed (S)tamped (E)nvelope (SASE) requesting same or see me at the next meeting.

3yrs= K6YK-George KD6FKP-Tom.

2yrs= W9AOX-Don KA6QBH-L.J.  
N6QQF-Norm KD6VND-Bill.

1yr= KE6PUU-Mat KE6SLK-Tim  
KD6PPM-Tony KC6CZO-Mark KC6QXU-Joe  
W3ARU-Pete WA6GPW-Nick W6XE-David  
K6PUN-Doug KUIY-Bruce N6RBS-Ken  
W6HC-Charles KE6IX-John WA6HQM-Dave  
W6CGY-LeRoy N6UZN-Joe N6MYN-Steve  
AF7M-Gary WB6TBA-Bob K6II-Ed K6UL-  
Mitch WI6B-Ron N6RA0-Loreen KE6CDN-  
Peter & Nancy KE6HZF-Dennis KE6HZC-  
Susan & W6TET-Ivan.

To receive a point for sponsoring a new club member you will need to instruct the potential new member to write on his application that you are the sponsor. Otherwise, your editor is not aware of points to be awarded to members.

73, Ralph 727-7415 =PARC=



If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate! Radio systems installation, repair and removal, and interference resolution.

**Edward Ross, N6GZI**  
**Antenna 542-1405**  
**Specialties**

**The NiCad Lady**  
**N6WPA**

*Battery Pack biting the dust?  
 Get your power source rebuilt  
 with NEW higher quality cells!*

*Up to a 50% Savings over the  
 cost of a new pack!*

- Radios
- Laptops/Notebooks
- Test Equipment
- Camcorders
- Any Special Application

**(909) 678-0943**



**Rhō**  
*Flexible Staffing Solutions™*

**The PREMIER source for  
 Contract Engineering &  
 Technical Services.**

- Long or Short Term
- Direct Placement
- Payroll Services
- Employee Leasing

**Steve Grant, N6RUV**  
 Division General Manager  
**(619) 565-4992**

\*\*\*\*\*  
 Jerry-WB6FMT PATCHES Stan-W9FQN  
 \*\*\*\*\*

Jerry-WB6FMT is now back with us after spending six months in the Denver area. =SK=

REMINDER: Autopatch privileges are for club members and only those club members who use the patch correctly. =SK=

The PARC computers are programmed using the prefixes listed at each phone entry point (VSTA, MMSA, & LMSA) since these are the only numbers available to us. We suspect that there are other prefixes out there "floating" around but we are not aware of them. Possibly some "cell" prefixes are active ..but again, we do not know what they are since they are not listed in the phone book. Probably some cellular phones are part of these unlisted prefixes.

We are anticipating problems with the autopatches when the new area codes come into being in early 1997. The new 619 area would start at the Mexican border and include the following cities and communities: Chula Vista, National City, Coronado, Del Mar, Solana Beach, Rancho Santa Fe, Poway, LA MESA, Lemon Grove and all of the city of San Diego, except the San Pasqual Valley. The new 760 area code would include Encinitas, Carlsbad, Oceanside, VISTA, San Marcos, Escondido, Ramona, Santee, El Cajon, Rancho San Diego and all the other communities in San Diego County.

Because of our autopatch entry points being in Vista, Mira Mesa, and La Mesa, you can see that some of you will have to dial a 1-619 or a 1-760 before your regular dialed area since each autopatch entry point will have 619/760 area codes within its normal dialing area. Our present autopatch number filters cannot handle the extra 4-digits required for "out of area" numbers. =SK=

NOTICE #1, our tape monitor system for the autopatch is indicating that we still have a few members who are failing to get

their call letters on the tape recorder at TWO LOCATIONS on the tape:

1st - Your call must be AFTER the 3-digit access code.

2nd - Your call must be BEFORE the "#" shut off of the patch.

Some members are identifying BEFORE the access code and after the "#" shut down of the patch (old method) ..which is not now correct. =SK=

PARC will soon have the capability of AUTOMATIC COMPUTER "dumping" of certain improperly used phone patches so that control operators will not have to exercise their manual control options:

- 1)business calls(what PARC thinks).
- 2)music(answering machine/business)
- 3)un-approved language.
- 4)improper use of the autopatch.
- 5)non-approved answering machines.
- 6)callsigns not at proper location.
- 7)non-important call (chit-chat).
- 8)expired membership.

PARC's definition of business and language is stronger than the FCC's definition. An exception to #7 would be a "demonstration" call.

The computer is being programmed to deal with the above in several ways. The call can be DUMPED immediately (within several rings), DUMPED in 20 seconds, or DUMPED in 30 seconds depending upon the problem(s) previously observed. A "re-dial" of the dumped number would result in an immediate DUMP even if the first DUMP was for 30 seconds! Normal timeout is about 100+ seconds.

PARC's autopatch system is for emergency, semi-emergency, and important advisory calls: 911, stuck in traffic, can't pick up the kids in time, etc.

If you are going to use the patches during emergencies, you are going to have to practice using them and it is for this reason that PARC permits short "mundane" calls to be made ..to keep in practice. =SK=

The 147.075 autopatch was turned off several days this month because an Autopatch Control Operator (ACO) was not available to monitor the

calls. It usually is turned back on later during the evening when the regular ACO is available to monitor the calls although this is not always true. Please use 147.130 to make your calls during the day when the 075 patch is turned off. =PARC=

REPEATER TECHNICAL John-WB6IQS

PARC is looking for some rolls of copper flashing of various lengths which measure at least 1.5 inches and a thickness of .0159" (26AWG). In the past we have found rolls of this stuff in a local scrapyard 3" wide and 50' long and about .02 thick but this local source has "dried" up. The last roll was 6" wide so we cut it down the center to make 3".

The copper strap is used for grounding projects at the repeater site and we need quite a bit more to finish these projects. =SK=

The new six meter repeater built by Bill-KC6Y0X should be a good addition to our repeater systems on Palomar Mountain. Bill built the cavities and there are six of them 6' high. They take up the same space as the old 220 Club repeater that took up the space of almost four repeaters. =PARC=

S I X M E T E R S Bill-KC6Y0X

The new six meter repeater was installed, Sunday, July 9th, at the club's repeater site on Palomar Mt.

The antenna was mounted on a pine tree which had previously been cut off at the 30' level. A mast was lag bolted to the top (side) of the tree and the collinear antenna was mounted on the mast.

The repeater was burnt-in in my garage in Oceanside using my KC6Y0X call. The EPROM was replaced with a spare W6NWG EPROM and is now operating under that call during the test period at the site.

Six meters sometimes causes problems to TV's which have weak signal channel 2 signals. It will be interesting to see if we have any problems on Palomar Mt. running 7 watts to this antenna.

For the present we will be operating with a PL of 107.2 Hz although possibly in the future we might provide a touch-tone code to take it off of PL for 10-15 minutes for those that do not have PL in their rigs. For the test period it will remain on PL except possibly for nets.

If you have a 6m rig, try hitting the repeater and check its signal strength at your location. =PARC=

REPEATER OPERATIONS Stan-W9FQN

One of the main thrusts at the repeater site this year is to make sure that everything on the tower is secure ..mechanically and electrically.

All metal to metal joints are being looked at and insulated where needed. They will then all be tied together by ground strap for lightning protection (direction?).

All antenna systems are being looked at and joints inspected for potential problems.

The old guy wires are being replaced with new more flexible cable so that we can more accurately measure their tension which should be around 100 pounds in each line. We have six guy lines to replace. =PARC=

- E A R T H Q U A K E -

The BIG ONE IS COMING! It is not a question of IF but WHEN!

The BIG ONE that everyone talks about is a quake along the San Andreas Fault which is almost 60 miles east of L.A. and it probably is not the ONE that should scare us.

Because of the displacement on a East/West direction of the San Andreas Fault inland (to the East) it is shattering the ground to the west with underground faults which are not sliding faults like the San Andreas but are thrusting faults which uplift the ground.

Sliding faults leave slippage marks (horizontal) easily seen but thrust faults occur many miles

underground with some of the land sections sliding over other land sections resulting in an uplifting of the neighboring section.

Most earthquake engineering has dealt with "slippage" earthquakes while thrust faults were not known in the L.A. area.

During the past 10-15 years L.A. has been experiencing "thrust" quakes and while these are in the 6.5 range and not the 7.5-8.5 range (30-900) times more powerful) expected from the San Andreas, it should be noted that these thrust faults are UNDER L.A. and not 60 miles away.

Depending upon the time of day, a 6.5 quake downtown could cause 100 billion dollars of damage, kill 5-10,000 people, and leave 750,000 people homeless.

How does this affect San Diego County?

Our hospitals will probably be filled with the injured. Housing or shelter resources will be stretched to the limit. It will be a communications nightmare will people trying to get in contact with family and relatives throughout California and the entire United States. Emergency crews will need communications. And there is the possibility that SDCo could be affected by loss of water supplies and electricity.

Are we prepared for the "BIG ONE(S)" that are coming? They WILL COME and probably sooner than we now think. Earthquakes of the thrusting type relieve pressure in their immediate vicinity but add stress to those thrust faults adjacent to them. THEY ARE COMING! =PARC=

The C O M M U N I C A T O R

All ARRL members should now have received their July issue of The Communicator from Fried Heyn, WA6WZ0, our Southwestern Division Director. Please fill out and return the survey concerning the ARRL.

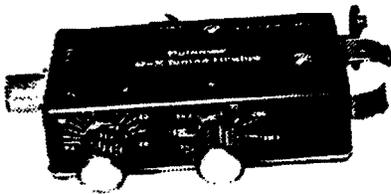
Non-ARRL members might be interested in some of the topics

Jennifer A. Thieme  
KM6WG

Bookkeeper  
Accountant

(619) 599-1134  
770 Sycamore Ave. #J-126  
Vista, California 92083

### R-X Noise Bridge



- Learn the truth about your antenna.
- Find its resonant frequency.
- Adjust it to your operating frequency quickly and easily.

If there is one place in your station where you cannot risk uncertain results it is in your antenna.

The price is \$79.95 in the U.S. and Canada. Add \$4.00 shipping/handling. California residents add sales tax.



Send for FREE catalog describing the R-X Noise Bridge and our complete line of SWR Meters, Preampifiers, Toroids, Baluns, VLF Converters, and Loop Antennas.

## PALOMAR ENGINEERS

Box 455, Escondido, CA 92025  
Phone: (619) 747-3343

covered:

Volunteer Counsel Program  
Volunteer Consulting Engineers  
Technical and Educational Advisors  
Antenna Ordinance Progress in SCAL  
RFI Problems  
Repeater-to-Repeater QRM  
Intentional Interference  
HAMCON'95 Convention (Queen Mary)

Contact Stan-W9FQN at the next club meeting to see a copy of the Communicator. =PARC=

\*\*\*\*\*

F O R E S A I L

\*\*\*\*\*



Port is for drinking!

Ph/send ads 2 W9FQN (C Ed's addr) B4 20th of mo. w/ur NAME, CALL, Ph #, & CITY. Personal ads FREE 2 members. Others cost 25c/col. line (35spaces). =SK=

Block ads: business card (1/3rd col.) \$5; 2/3rd col \$10; 1 col \$15; 4 card size (almost 1/2 horizontal page) is \$20 per issue. Billed Feb, May, Aug, & Nov.

Keven Sanders, KN6FQ, in Escondido is now handling PARC's extensive tube bank. Contact Keven at 432-8381 for availability and prices.

\*\*\*\*\* NEW ADS \*\*\*\*\*

(PARC) 10gal of hard to get parts you can carry home 4/\$1; 30-500MHZ MACAW range meter \$5; Large capacity filter for HTs and mobiles \$1; (will bring only to next meeting); Stan W9FQN 749 0276 for PARC.

(PARC) 3600ct (1800v) @ .4A pwr transformer + chokes (contesters dream); Other assorted HV transformers; TI computer with cards, games, etc \$M0; Radio Shack Mod I computer \$M0: Stan W9FQN 749 0276 for PARC.

### Who

bought a Realistic HTX-202 2 Meter FM Transceiver at the last PARC Auction? The manual was found on a table after everyone had gone home. I am still carrying it to every club meeting since then and I'd like to get rid of it! Jo, KB6NMK, 741-2560

(7-18) Sears 5kw alternator 115/230v gud condx used 13.5hrs w/wheel kit for EZ move \$300: Ivan

W6TET 276 7148 SD.

(7-18) Triaxe(?) Twr 52' crank-up ready to go w/new motor & orig paperwork \$575; Two Sony stereo reel-reels for station recording \$20ea; IBM Quietwriter printer/cut sheet feeder \$20; Call/fax for 1st assortment major software for Windows; Mark KC6CZ0 Escondido.

(7-6) Kenwood AT-230 ant tuner HF + WARC bands \$160; Pro-audio external CDROM kit (SCSI card, spkrs, etc/no CD drive) \$25; Tape backup 120MB \$30; Practical peripherals 9600 modem \$30; 2400 external modem \$15: Duane AA6EE 789 3674 Ramona.

(7-6) MFJ-1278 multi-mode data controller w/MFJ-1289 multicom new 4/94 \$180: Agen 4-KI66V Duane AA6EE 789 3674 Ramona.

(7-6) TEN-TEC 540 HF 100w xcvr w/CW filter & pwr sup \$325; Unadilla traps 20m & 40m new \$25/pair: Agent 4-W6XF Duane AA6EE 789 3674 Ramona.

(6-8) KW Amplifier 10-160m, Ameriton AL 80B (see May QST pg18) very few hours \$550; Hallicrafters SR400A xcvr with pwr supply & mike (mint) \$200; MFJ Versa 941C antenna tuner 10-160m 300watts with SWR bridge \$60; Mechanical code practice machine with 30 tapes FREE to 1st caller; Desk Mike Heil HM5 (like New) \$10; 811A tubes (9) @ \$3.50 each; Multi meter (50k/volt) Micronta 22-214A (like new) \$15; Antennas 10-15-20 mini quad HQ1(new) \$75 Butternut Vertical 10-160 (you take down) \$25; (free to 1st person who purchases either a new 12ft roof mount tower); Wayne W6RMV 724 0777 Vista.

(5-25) Yeasu FT-5200 dual band (2m/70cm) mobile ex/cond w/remote head and mobile mount \$395: Phil KC6TYT 944 7741 Carlsbad.

(5-25) Yeasu FT225RD 2m all mode \$275; Yeasu FT2400H 2m mobile \$225: Bill KC6Y0X 433 4626 Ocsd.

(5-17) Tempo 2020 w/extra VFO \$150; ICOM micro 2AT w/extra batteries, charger, mobile charger + accessories \$200: Alf WB6TAW 941 2428 Vista.

(5-16) Tandy TMP-105 printer w/man \$15; Apple II+ complete to go

2-drive 12" monitor, Epson 7-pin printer all manuals \$1000's worth software ed, games, etc \$75; Chuscraft triband \$100; Union Carbine RTTY \$10; MITA copy machine 600D w/paper needs adjustment \$10: Steve W6MRM 451 5690 R.Bernardo.

(5-14) HP-9872 plotter 11"x17" \$350: Tom K6MDG 789 0711.

(5-11) Kenwood TM-241A 2m xcvr 2-50watts \$376 new in '92 w/man like new \$250: Charlie KE6QU 433 1258 0cscd.

(4-27) (CORRECTED) Daiwa SWR/PWR meter CN-720 ex \$85 (or best offer): Larry WA6PLX 286 2829 SD.

\*\*\*\*\*-OLD ADS PRINTED ON ODD MONTHS  
\*\*\*\*\* W A N T E D \*\*\*\*\*  
"Where art thou?"

(7-25) PARC is looking for copper strap 3"-10 wide and ?? feet long. Thickness is .0159" or 26 AWG. See REPEATER TECH for more details. Stan W9FQN 749 0276 Vily Ctr.

(6-16)Info on 30meter transmitter conversion to Yaesu FT-101E: John KD6TLF 747 9431 Escondido.

(6-05) FT-243 crystals for 7.010 to 7.050 or somewhere near: Ron W6TUR 465 6129.

(6-2) EX SWAN tech does repair & refurbishing of Swan Xcvrs: John Bruchey, 4910 Verde Dr, Oceanside 92057.

(6-2) SWAN DIGITAL readout accesory DD-76; and circuit board vise: Nash W6HCD 940 1028 Fallbrook.

(2-15) FALLBROOK HIGH SCHOOL will take any and all donations of amateur radio equipment. We need radios, a Tri-band Beam, etc. (it's all tax deductible). Please contact Fritz Schattschneider, KE6EKY, at 723-6357 or Gayle Olson, KM6WF at 723-6402.

OLD WANTED PRINTED ODD MONTHS=PARC=  
=PARC=

\*\*\*\*\*  
W O R K P A R T I E S Stan-W9FQN  
\*\*\*\*\*

THE NEXT WORK PARTY WILL BE ON AUGUST 6th. MEET AT MOTHER'S KITCHEN PARKING LOT AT 10:30AM (leave your parking lights on if you don't have a Ham antenna on

your car). REGISTER WITH STAN-W9FQN AT THE NEXT MEETING OR CALL HIM AT 749-0276 so that if the work party is cancelled, you can receive proper notification.

SCHEDULED: more alarm work; watering the little trees; drip irrigation system; tower insulating; guy wire installation; tree trimming; fence installation; replace 224.38 antenna; and of course, painting.

A good time was had by all (right Andrea?). Of course, all new workers receive a FREE tour of the site and 2-participation tickets.

Be sure to bring old clothing, 5 gal of water (to water little trees), drinking water and something to eat at noon.

In addition, if you can stop by the side of the road near the 4,000' level on the way up the mountain and pick up 5-10 gallons of small rocks (1-3" dia), it would be greatly appreciated. Larger flat ones are fine too. The rocks will be put on the incoming road where we have erosion problems.

(7-09)#18 A beautiful day on Palomar Mountain.

John-WB6IQS replaced the duplex cavities on the 146.7 packet repeater with the new LARGE bottles and then connected them to the newer corner reflector. The SWR was low. John also helped Erik-KA6UAI with some of his problems plus handed out advice on other projects. He also took home the old duplexer for inspection.

Bill-KC6YOX installed the new 6m repeater (which he built) in the old block building with the cavities (6' tall) filling up the entire cabinet space of the old 224.9 repeater. Bill built his own cavities (6 cans) using LARGE diameter copper pipe.

David-KC6YSO assisted in the 6m installation, grounding, and story telling.

Art-KC6UQH worked on the SWR problems with the new 6m repeater, found some problems with two sections of coax, and adjusted the cavities so that the loss went from 10dB to approximately 2db. Final

SWR was 1:1 and receiver sensitivity was 0.5 micro volts. He also instructed David and Bill about the control functions and helped Erik who had problems with his 70cm repeater. Its nice to feel wanted!

Dale-KC6WZI, Andrea Simpson, and Tony-KC6YSP helped out where needed although Andrea, being the artistic one, painted on the freezer building and the trailer. She was assisted by Bill's daughter and by Juan's daughter ..such good looking assistants!

Dennis-KE6MQC and Zac-KE6MQB finished another section of the perimeter fence, checked out what was needed to irrigate all of the little trees starting to grow on the property, and worked on the 2nd generation intruder system which automatically sends ALARM information to monitors.

Mike-KD6VHI spent most of his time on the 80' tower checking for potential noise problems, inspecting antennas, and checking the heliack on the 449.425 repeater antenna.

Juan-KE6KNN and "J"-KD6PBH showed an interest in climbing and started the long job of insulating all metal-to-metal joints which could be noise makers or promote diode rectification. Their work was excellent and much appreciated.

Stan-W9FQN instructed the new climbers on safety and directed work done on the tower. He also installed a mast on a pine tree whose top had been cut off for the installation of the new 6m antenna. Stan brought the old (LARGE) 224.9 repeater home to store it temporarily in his garage. =PARC=

\*\*\*\*\*  
H A M R A D I O and M O R E  
\*\*\*\*\*

Ham Radio and More is a national talk radio show with Len Winkler, KB7LPW, with weekly co-hosts: John Moore, NJ7E, and Ned Stearns, AA7A weekly DX update with Lee Finkel, KY7M. The show is sponsored in part by ICOM.

Most of the radio affiliates are AM stations throughout the USA with the exception of California which

is not presently represented.

Ham Radio & More is on the Talk American Network. It can be heard via TVRO satellite on Spacenet 3, Transponder 9, 6.8 audio. Their toll-free listener call line is 1-800-298-TALK. The originating station number is 1-602-241-1510 for more information. Any radio station can air the show FREE OF CHARGE. For sponsorship information contact Ron Cohen at 602-241-0482.

Is there anyone in the club that would like to see if we can't get a station in the SD area to run the program? Someone suggested contacting a Talk Radio Station to see about getting this program on the air. If you think that you would like to pursue this project, please contact a club officer (Tnx Gayle-KM6WF). =PARC=

\*\*\*\*\*  
F I E L D D A Y 1995 N6UWW  
\*\*\*\*\*

We had 55 check-ins for Friday setup, 63 for Saturday setup and contest, and Sunday there were 35 check-ins for contest and take-down of equipment. Those who signed in (less some non-members) were-

Friday: N6UWW, KB6MCU, W9FQN, W6GIC, KZ6X, N6GZI, AA7GL, KC6UQH, WB6NBU, KD6VHI, KB6NMK, KC6QXU, KE6KNN, KK6LX, AA6TR, KH6TL, KC6YSO, WB9COY, KC6YOX, KF6BL, KD6CR, N6FYK, K3PXX, MIKRI, KE6MWD, KD6JXX, KF6C, KD6PBH, WD6AHX, N6URW, KE6MQB, KE6MQC, RICROS, TAMMY, CRYLOP, DIATYL, KE6YSP, NE60, W6BAW, KE6MRX, KE6BGI, N6YMD, KM6SM, AB6IU, SALLY, KE6BBX, WA6BKH, KD6LPO, KA6FPS, KB6QC, WB6IQS, N6FMK, KE6HRL, SUE, WD6FWE, KE6URV

Saturday: KI6LU, N6UWW, W9FQN, WA6MHZ, KB6NMK, KC6VDX, AF7M, KM6SN, KC6PVN, KE6BGI, W6BAW, AA6TR, KB6MCU, KD6BT, N6UZH, K06SI, KF6C, KA6PPC, KE6EUM, N6ZUC, KC6PVO, N6JQK, KE6KNN, KE6MWD, WB6JAR, WA6Y00, KC6UQH, N6KI, WD6AHX, KE6URR, KE6NXY, KM6XA, W6NLO, AB6ID, WD6FWE, KF6C, KA6PPC, KJ6NA, KE6JOJ, KE6URU, KC6AUX, KE6THZ, NATPIT, KA5Q, KC6YOX, KC6YSP, NE60, KN6NX, K3PXX, KC6YSO, KZ6X, KF6BL, WB9COY, AC60A, KD6VHI,

KB6MCU, KA6FPS

Sunday: KE6SQJ, KC6YSO, KZ6X, W9FQN, K06BT, KE6BGI, KC6UQN, WB9COY, KE6MQB, KE6MQC, N6UZH, KC6YOX, WD6FWE, KC6VDX, KB6QC, N6KVP, WD6AHX, KB6NMK, WB6IQS, WA6Y00, KH6TL, KE6ILN, K06SM, K06IQ, KE6MRX, AC60Q, KC6PVN, KC6PVO, N6URW, KE6URV, KD6VHI, KB6MCU, KA6FPS

Approximate FD contacts and points were:

	CW	PH	M	CW	PH
	160	12	40	6	1
	80	159	295	2	2
	40	542	349	220	2
	20	570	734	440	4
	10	-	207		6

-----  
CW QSO's 1529 PH QSO's 2016  
Novice 98 Novice 136  
Total 1627 Total 2154

QSO Pts 6,408 for 12,816 points

Extra points earned for: 100% emergency power, publicity, message to SM, WIAW FD message, Satellite, Natural Pwr, Packet Radio, & VHF/UHF.

Wait until next year! =PARC=  
\*\*\*\*\*  
- E N D O F Y E A R -  
\*\*\*\*\*

PLEASE RENEW NOW! SINGLE MEMBERSHIP IS STILL \$12 AND FAMILY \$21 (12+9). MAIL IN YOUR DUES ==NOW== RATHER THAN WAITING UNTIL YOUR AN'NIVERSARY DATE. Then you won't need to read the rest of this PEP TALK ..but some of you will do that anyway.

P L E A S E P A Y by C H E C K!

YOUR LAST NEWSLETTER IS SENT OUT JULY 25 FOR THOSE WITH LABELS OF 9507 AND YOU WILL NEED TO RENEW BEFORE AUGUST 10TH TO CONTINUE BEING A MEMBER OF PARC. YOUR NEWSLETTER (SCOPE) AND PHONE PATCH PRIVILEGES END AFTER YOUR LABEL DATE OF 9507.

IF YOUR LABEL READS AFTER 9507, YOU ARE SAFE UNTIL YOUR MEMBERSHIP EXPIRES on the label date ..but don't get it confused with your license expiration date!

\*\*\*\*\*  
- N E W S - etc.

\*\*\*\*\*

Contributions by the 20th)  
Please send "newsworthy" items 2-UR Editor Via PALBBS, letters, notes or at club meetings.

KE6LSX is hearing on his HT what sounds like a commercial network station on 437.745 giving "golf tips" (this could be cable leakage or intermod in the HT -Ed).

KJQY(FM), SD, is now KMKX (tnx CGC Communicator).

Dennis-N6KI hobbled around for a week after taking a spill at FD and spraining his ankle. =SK=

Past experiments with 60Hz magnetic fields are probably tainted because of iron oxide in flasks (Science News via CGC Communicator).

High intensity HF RF signals are being used to decontaminate soil without need for costly excavation (Radio World via CGC Communicator).

APRS operations are conducted on 144.990 MHz using GPS (Global Positioning System) units. Your GPS unit is connected to your packet and computer which allows your signal and all other GPS units to be displayed on your computer screen overlaid onto something like a Thomas Brother's map.

If you have packet but no GPS unit, you still can "see" what everyone else is sending on the frequency displayed on your map. Contact Stan-W9FQN BEFORE the next meeting for a copy of the 3.5" disk of programs. =SK=

Any one interested in helping with the Special Olympics, please contact Ken J. WA6BCC at 453-1829 (9am-12 noon). =SK=

The rope used by PARC at Field Day and at the Repeater Site is a double braided black DACRON/Polyester antenna rope.

- .. .3/32" 260+ pounds at 5c/ft
- .. .3/16" 770+ pounds at 8c/ft
- .. .5/16" 1790+ pounds at 13c/ft

The 3/32" is good for guying verticals. The 3/16" is good for guying most wire antennas while the 5/16" is good for heavier wire antennas and towers. We sell our surplus rope. =PARC=

# Traffic Handling

There is nothing frightening or mysterious about sending message traffic. The San Diego County Traffic Net is on 146.730 at eight o'clock every night. We are all learning and make many mistakes but listen before you jump in so you know the procedure. Send at least three messages a year and volunteer to deliver some in your area you'll find it quite rewarding. Tell your relatives and friends to ask for and keep the phone number of the ham delivering the message so they can send messages to you too.

E = emergency  
P = priority  
W = welfare  
R = routine

Call of station that first transmits the message

Number of words in the message including numbers

Date message first transmitted.

Name & address of receiving station only used if message not deliverable by phone and must be mailed.

Your message number

Handling instructions from Net Directory (E= asking for a message back)

Location of originating station or location of person if other than originating station.

Time message first transmitted. (not often used)



NUMBER	PRECEDENCE	MX	STATION OF ORIGIN	CHECK	PLACE OF ORIGIN	TIME FILED	DATE
--------	------------	----	-------------------	-------	-----------------	------------	------

TO

THIS RADIO MESSAGE WAS RECEIVED AT

AMATEUR STATION \_\_\_\_\_ PHONE \_\_\_\_\_  
 NAME \_\_\_\_\_  
 STREET ADDRESS \_\_\_\_\_  
 CITY AND STATE \_\_\_\_\_

TELEPHONE NUMBER

_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

REC'D	FROM	DATE	TIME	SENT	TO	DATE	TIME
-------	------	------	------	------	----	------	------

THIS MESSAGE WAS HANDLED FREE OF CHARGE BY A LICENSED AMATEUR RADIO OPERATOR, WHOSE ADDRESS IS SHOWN IN THE BOX AT RIGHT ABOVE. AS SUCH MESSAGES ARE HANDLED SOLELY FOR THE PLEASURE OF OPERATING. NO COMPENSATION CAN BE ACCEPTED BY A "HAM" OPERATOR A RETURN MESSAGE MAY BE FILED WITH THE "HAM" DELIVERING THIS MESSAGE TO YOU. FURTHER INFORMATION ON AMATEUR RADIO MAY BE OBTAINED FROM A.R.R.L. HEAD-QUARTERS, 225 MAIN STREET, NEWINGTON, CONN. 06111

THE AMERICAN RADIO RELAY LEAGUE, INC. IS THE NATIONAL MEMBERSHIP SOCIETY OF LICENSED RADIO AMATEURS AND THE PUBLISHER OF QST MAGAZINE. ONE OF ITS FUNCTIONS IS PROMOTION OF PUBLIC SERVICE COMMUNICATIONS AMONG AMATEUR OPERATORS TO THAT END THE LEAGUE HAS ORGANIZED THE NATIONAL TRAFFIC SYSTEM FOR DAILY NATION-WIDE MESSAGE HANDLING

PRINTED IN U.S.A.

Full name & address of person you are sending the message to.

MUST HAVE telephone number here, "break" after telephone number is transmitted.

Message try to keep under 25 words

Call of station you received the message from, and date and time received. If you received it from someone who is not a ham put their name, address and phone number on the back of the form.

Signature not counted in word count. Follows "break" at the end of message.

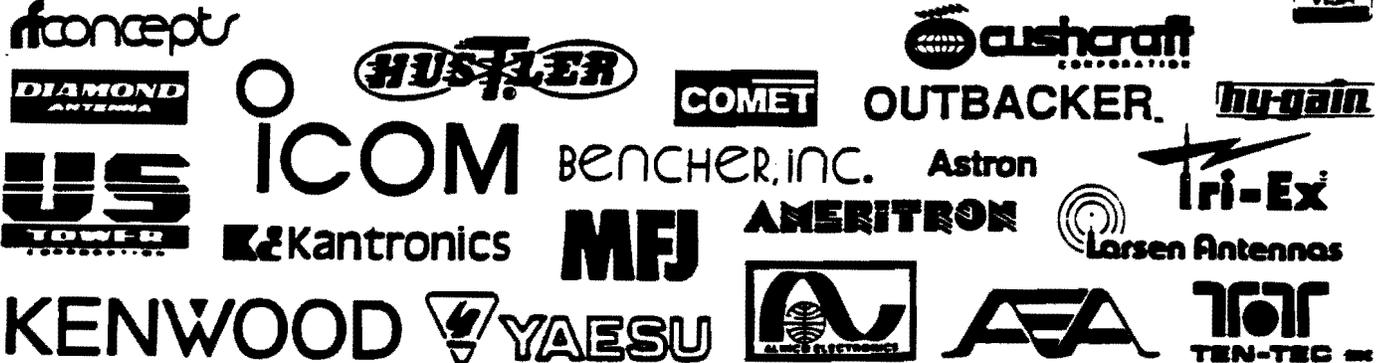
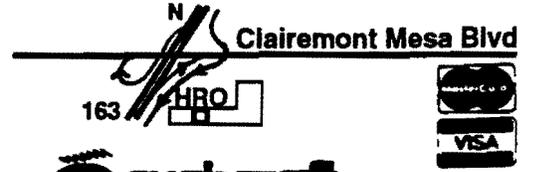
Call of station receiving if sent on radio, and date and time. Name of person receiving if delivered by phone. Could be a family member. If you are unsure leave a number and ask to be called back by addressee. Try again later. Date and time only when you finally deliver.

When sending traffic read slowly and clearly - visualize yourself writing the word as you say it. Only spell unusual words or names with unusual spelling. Use phonetics for call signs or if the receiving station asks for a fill on a word you have already spelled out.

The ARRL has some standard messages that can be used to shorten the word count, used: ARL forty six (word count = ARL 3) means: Greetings on your birthday and best wishes for many more to come. (word count = 12). This could be followed by an X-ray and up to 21 more words of message. Use X-ray to separate ideas or paragraphs but no other punctuation. See The ARRL Net Directory (\$1) for other ARL messages, handling instructions and other traffic information.



"LARGEST HAM OUTLET IN THE WORLD"  
ALL MAJOR BRANDS IN STOCK NOW!



Open: 10a.m. - 5:30p.m.  
Monday thru Saturday

560-4900  
or toll free 1-800-854-6046

**5375 KEARNY VILLA ROAD, SAN DIEGO**

# RADWARE: The PC Transceiver

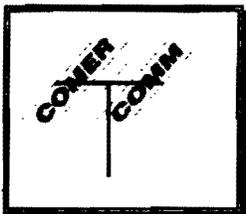
can now be extended to cover 6 Meters, 2 Meters,  
1 1/2 Meters and 70 Centimeters.

A set of components "RADCOMPS" has been developed that simply plug together to build converters, transverters and or the HF output stages for RADWARE.

**Call the RADWARE BBS for more info 599-0185**

The current introductory price of \$470 for both RADWARE and sound cards ends 5/20/95.

List price will be \$595 for both cards.



**COMER COMMUNICATIONS, INC.**  
2598 Fortune Way - Suite I  
Vista, CA 92083 (619) 599 - 0476



# PARC Membership Application

AMATEUR CALL
CLUB MEMBERSHIP? <input type="checkbox"/> NEW <input type="checkbox"/> RENEW
ARRL MEMBER? <input type="checkbox"/> YES <input type="checkbox"/> NO
LAST NAME
FIRST NAME
STREET ADDRESS
CITY
STATE ZIP
HOME PHONE
WORK OR OTHER PHONE
HAM LICENSE EXPIRES
FAMILY MEMBERSHIP (List other calls and names)
CLASS OF LICENSE <b>N T T+ G A E</b>

\*Mail this form with your check to PARC, P.O. Box 73, Vista, CA 92085-0073 or hand to membership chairman at club meetings. We prefer checks to cash, it's safer and you have a record. Dues are \$12 a year which includes \$3 for the Scope, or \$21 for a family all at the same address. Consider paying for two or three years at a time to reduce the work for the membership chairman. Name, call and complete address are required. Telephone number is requested but may be unlisted in roster if you prefer. For notification of acceptance and an autopatch information and code sheet send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

\*\*\*\*\*  
 - P A R C B O A R D -  
 Pres : Art McBride . KC6UQH 7418143  
 VPres: SybilAlbright W6GIC 2784284  
 Sec : David Doan . KC6YSO 2864888  
 Treas: JenniferThieme KM6WG 5991134  
 RptTec:John Kuivinen WB6IQS 7273876  
 SCOPE :Stan Rohrer . W9FQN 7490276  
 MemShp:Ralph Powell KC6WAN 7277415  
 Member:Mike Doyle . AB6QT 7421573  
 Member:MarvinMunster WB6PKK 7472223  
 \*\*\*\*\*  
 VE Program: Rusty . AA6OM 7475872  
 ATV/Edu. : Bill . KB6MCU 5822313  
 PALBBS : Norbert KJ6ZD 6305538  
 \*\*\*\*\*  
 JUL. SCOPE FOLD/STAPLE  
 Editor:Stan Rohrer-W9FQN 30311 Cir.  
 R.Ln.,Valley Center CA 92082  
 KI6JM Jack Hanthorn,Folding Refresh  
 WA6Y00 . Harry Hodges . Staples  
 W6TFB Lloyd & Lisbeth Hunt,Folding  
 WA6UTQ . Larry Ruegseger Folding  
 KB6YHZ . Art Nye . Folding  
 KB6YHY . Anita Nye . Labels  
 KB6NMK . Jo Ashley . Labels  
 N6WQR Bernice Rosenberg Folding  
 KC6WAN,Ralph Powell,Printing,Labels  
 \*\*\*\*\*

PICNIC —  
 PARC is looking for a five gallon container with faucet for drinks at the club picnic. Please contact Mike-AB6QT or Stan-W9FQN.



AUG. '95 S.Call?: \_\_\_\_\_  
 (Sponsor's call not required)  
 \*\*\*\*\*  
 S C O P E, US Post Office #076530  
 Published monthly by: = PARC, Inc.=  
 Membership \$12/yr including \$3 for  
 SCOPE inside SDCo (outside \$4).

POSTMASTER: Return to -> S C O P E  
 P.O.Box 73,Vista, CA 92085-0073

2nd Class Postage Pd  
 Vista CA 92085-9998

# SCOPE

\*\*\*\*\*  
 Pg.Yr IN THIS ISSUE  
 \*\*\*\*\*

1-85	Last/Next Mtg, DUES, . . .
	GORDON WEST SPEAKS
2-86	BoardMtg,TNX,AG060,VE, Picnic
3-87	K6QJP SK, Prsident, . . . . .
4-88	Editor, Membership, . . . . .
5-89	Autopatches, . . . . .
6-90	RptrTech/Oper, 6m,Quake,Comm.
7-91	Sale, . . . . .
8-92	Work Party, Ham Radio & More.
9-93	Field Day, Year End, News . .
10-94	National Traffic Message Info
11-95	HAM RADIO OUTLET & COMER Ads

\*\*\*\*\*

Vista	Mira Mesa	La Mesa	Fallbrook	Membership Expires	License Expires
Palomar	Mountain			PRC yy mm	LX yy mm

Phone Codes  
 Deliver To

W6NWG W6NWG W6NWG W6NWG

# Scope

W6NWG



**Palomar Amateur Radio Club Inc.**  
**Post Office Box 73, Vista, California 92085-0073**

SEPTEMBER \*\*\*\* 1995 \*\* 59 YEARS OLD  
Dues \$12, Volume XXI Number 9  
Coffee 7pm, Mtg. 7:30 pm @ Carlsbad  
Safety Center(CSC), Palomar Airport  
Rd.to N.on Camino Real(S11),east on  
Faraday .25 mi,left to CSC,TB 14F6.  
===== Talk-in 146.73 =====

\*\*\*\*\*  
OPEN REPEATERS / CLOSED AUTOPATCHES  
PARC PALOMAR MT.REPEATERS(W6NWG):  
PARC Trustee of W6NWG: Ron,WI6B  
\*52.680- W6NWG,-.500 MHz(test)  
Autopatches(4): 146.730-, \*147.075+  
\*147.130+, \*449.425-  
PKT: 145.050s PALMAR W6NWG-1 Open  
(linked PARC 9600 METROLINK)  
146.700(-) Duplex BBS/EMG use  
145.070/146.700 W6NWG-3/PALBBS  
KJ6ZD SYSOP(QTH Vista)  
ATV IN:915 WBFM,919 AM,2441.25 WBFM  
Intercom: 146.430, PL 79.7 NBFM  
OUT: 1241.25 AM ///// \*=107.2Hz  
OTHER:\*224.380- KK6KD;\*224.9-WD6HFR  
\*146.175+ WA6IPD, FalbrkPatch

\*\*\*\*\* C A L E N D A R \*\*\*\*\*

Sep 1-3 ARRL SW DIVISION CONVENTION  
Sep 6 Wed.CLUB MEETING, .....  
Sep 9 Sat.PARC VE Tests Carlsbad SC  
Sep9/10NorthIsland Special Olympics  
Sep11 GENERAL CLASS starts at CSC  
Sep Hidden Xmtr Hunt Ramona ROARS  
Sep14 Thu.PARC 7pm Board Mtg WB6PKK  
Sep16 Pacific Crest 50 mi Trail Run  
Sep16 Amateur Radio Awareness Day  
Sep16 Pacific Crest Trail 50 mi.Run  
569-9443 or Pkt KD6BF0-1 145.630

-----  
\$ep17 PARC PICNIC DIXON LAKE-PRIZES\$  
(participation ticket\$ at picnic)  
-----

Sep22/26 SCOPE (deadline/mailling)  
\*\*\*\*\*

L A S T M E E T I N G

ONE-HUNDRED-NINETY-ONE! WOW!  
This is a record that will be hard  
to beat!  
Gordon West, WB6NOA, gave us a

## JERRY MAN, K9AAH, FCC ENGINEER

just retired, will speak on THE FCC AND HOW IT  
INTERACTS WITH THE PUBLIC AND AMATEURS.  
Jerry has worked for the FCC for the last eight  
years. Earlier, he had his own Communications  
business. He also worked for Allied Radio as  
Chief Engineer designing the Knight Kits. His  
hobbies are reading non-fiction books, working  
with computers, and of course, Amateur Radio.  
Come to the meeting and hear all about the FCC.

most interesting program on the  
trapping of frequencies 2m and  
above by inversion layers resulting  
in a pipeline to Hawaii. His humor,  
knowledge, and expert delivery made  
this an outstanding meeting. Every  
seat was taken and it was "standing  
room only" in the rest of the big  
room.

Gordon recognized the Old Timers  
(OT) and was surprised by the  
number present. Earl, W6YV, (of  
course) was acknowledged as having  
a license the longest having been  
first licensed in 1926 when he was  
18 years old. Earl was given the  
opportunity to show his skill at  
sending Morse Code with Gordon's  
Spark Gap (or was it pickle gap?)  
transmitter.

Not only did Gordon present the  
meeting but he brought along many  
goodies for the club: books,  
license manuals, and loads of  
copper grounding strap for the  
repeater site (looks as if Gordon  
read the August SCOPE -Ed).

SHOW and TELL: Stan-W9FQN with  
battery voltage indicators for  
PARC's three autopatch centers;  
Ken-WA6BCC, Red Flag; Pat-WA6MHZ,  
Ham Radio Roundup Oct.29th; David-  
KC6YSO, ARES newsletter; John-

N6URW, RACES & new van; Jo-KB6NMK,  
N6ELP's moving to Norway; Art-  
KC6UQH, Charles-N6TEP's devotion to  
evening traffic net; & Ellen-N6UWW,  
latest FD results & praise for  
Dennis-N6KI for finishing the point  
tally sheet for ARRL.

Bill-KB6MCU and his camera crew  
made a video of the meeting. =PARC=

\*\*\*\*\*  
NEXT MEETING VPres. Sybil-W6GIC

PLEASE COME EARLY and help set  
up chairs ..and STAY A FEW MINUTES  
to help put away the chairs. WE  
NEED HELP!

Club meetings start at 7:30pm  
but many come at 7pm to talk to  
friends, get a good seat, look at  
items on the junk table, see equip-  
ment as it is being set up, watch  
demos (ie. packet), and pick up  
some of the FREE magazines.

SHOW & TELL: Please see me  
before the meeting to reserve time  
for your SHOW & TELL item(s).

\*\*\*\*\*  
P I C N I C Mike-AB6QT

PARC's annual picnic will again  
be at Dixon Lake on the north edge  
of Escondido on Sunday, September  
17th, within 100' of the entrance  
to the park (Poppy 1, 2, 3, & 4).

There will be PRIZES, SEMINARS,

**HIDDEN TRANSMITTER HUNTING, GOOD FOOD, TRANSMITTER CHECKING, and GOOD FELLOWSHIP.**

Take I-15 going north out of Escondido, east on El Norte Parkway (exit) several miles, north on La Honda, enter park (\$1/car unless you are a senior), turn right about 100 feet and the park area is on the left.

If you park just outside the park entrance, you can save \$1 per car and just walk into the first parking area where all the antennas are. The inside parking lots fill up early. Sometimes by 9:30am so come early.

The club will provide "ham" (eating kind) punch, Palomar Mountain Cool Clear Water, plates, and utensils but you can bring your own utensils if you don't like a picnic atmosphere.

**YOU WILL NEED TO BRING ADDITIONAL FOOD ACCORDING TO THE FIRST LETTER OF YOUR LAST NAME and since you are bringing ONLY ONE DISH, bring enough of the assigned food TO FEED YOUR FAMILY PLUS 6 MORE. Hams get hungry!**

**PLEASE NOTE THAT YOU CANNOT BRING (or buy) ANY ALCOHOLIC DRINKS: beer, wine, hard spirits, etc. This is a park rule enforced by the park rangers who are prepared to arrest you.**

- A->F, bring a hot dish
- G->M, bring a salad
- N->Z, bring a desert

If you have problems in bringing your assigned dish, we suggest that you pick another dish or bring chips, ice cream (iced), apples, etc.

**PLEASE take SMALL PORTIONS your FIRST TIME through the serving line so that everyone at least gets a chance at their favorite dish.**

Sometimes there are not enough places to sit except on the ground. If you are arriving late, we suggest that you might want to bring a folding chair along with a folding table and/or a blanket. PARC can reserve the small pavilions but not the tables next to them ..so you had better get there early to reserve "your spot."

**RULES ARE ABOUT THE SAME AS ALWAYS:**

1) participation tickets must be picked up AT THE PICNIC by YOU or by YOUR representative who must have a WRITTEN and SIGNED permission slip to pick up the tickets AND any prizes that you might win. A participation ticket list is on page 10.

2) you will receive tickets (MAXIMUM 20) for participation in designated club events from Aug.1st 1994 to Jul.31st 1995 (see ATTENDANCE article pg.9).

3) the drawing will be at the club picnic at 1:10pm.

4) you or your representative must be PRESENT to win by showing a MATCHING ticket stub with the winning CALLSIGN or member's name on it.

5) you are limited to winning only ONE PRIZE even though your ticket is drawn several times (sorry).

6) you must be a present member of PARC in good standing before tickets can be given to you. New members listed after July 31st '94 will not have tickets.

7) the prizes are-

**P R I Z E S**

- 1 ea - \$100 gift certificate
- 1 ea - \$ 50 gift certificate
- 4 ea - \$ 25 gift certificate
- 1 ea - \$ 5 Stamp Pin
- 1 ea - Radio Range Meter
- MANY assorted small items too humorous to mention

Children are welcome but you will need to watch and entertain them yourselves. There is a playground for them near the pavilion and there is a playing field for soccer, volley ball, softball, horse shoes, etc. but you will need to bring all of the equipment needed. There are also hiking trails down to the lake but someone should go with them. Its warm and the "little crawly" things are probably about. Rental boats at main dock.

**THE PROGRAM WILL BE -**

**TRANSCIVER CHECKING:** Mike-AB6QT will check frequency, deviation (voice and PL) of 70cm transceivers

and HT's while John-WB6IQS will do the same for 2m units. Here is your opportunity to see if your rig(s) are working properly. The results might explain why you might have problems getting into PARC's autopatches.

**AUTOPATCH:** instruction on how the autopatch systems works, how to use it, and problems you might be experiencing.

**DFING:** instruction on how to use your HT for locating hidden transmitters along with information on DFing beams. A hidden transmitter hunt will be held after the instruction. Jo-KB6NMK and Ellen-N6UWW, both noted DFers, will conduct the class and hunt.

**SAN DIEGO COUNTY TRAFFIC NET:** information on message handling, discussion of SDCTN problems, packet and BBS integration into the system, with suggestions and comments by those attending ..conducted by Stan-W9FQN, Tuck-KC6ZEC, Wayne-WD6AHX, Charles-N6TEP, Norbert-KJ6ZD & others.

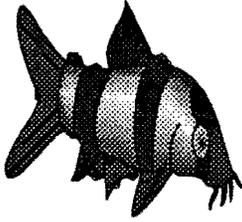
**ARES/RACES/EVAC:** Sign up with David-KC6YSO and/or Jo-KB6NMK.

**ARRL MEMBERSHIP INFO:** Harry-WA6Y00 and Ralph-KC6WAN.

**TICKETS:** 1994-95 participation tickets from Stan-W9FQN (yellow box) and crew.

- 9:00 Arrive and set up.
- 9:45->?HT/Mobile Health Check
- 9:45 ARES/RACES/EVAC signup
- 10:00 Traffic Handling Forum
- 11:15 Autopatch Instruction
- 11:30 Direction Finding(DFing)
- 12:00 Eats (low cal, low fat)
- 12:00-12:59 Pick up ur tickets
- 1:00 Pres. comments KC6UQH
- 1:05 Drawing of prize\$ \$\$\$\$\$
- 1:15 ARRL Membership Info by Harry-WA6Y00/Ralph-KC6WAN
- 1:30->? Hidden Xmtr Hunting
- 1:30->? PARC BOARD available for questions/comments

PARC hopes that many of you will be able to attend the club's picnic. It should be a lot of fun ..and you might learn something. The picnic is a great opportunity for you to talk to the board members and club officers, to know other club members and their



**SPORTFISHING**

ON THE WINDSONG  
Oscar Olson KE6EDC, Captain  
619-673-9201

families, and to learn more about your hobby in a more personal way ..and receive a PARTICIPATION ticket for next year!

SK-\*\*\*\*\*-SK-\*\*\*\*\*-SK  
FRANK RAMMEY, WB6HSZ

Died of cancer Aug13th. He was a long time member of PARC,RACES,ARES and contributed a large number of batteries to the club.

\*\*\*\*\*  
PRESIDENT'S WAVELENGTH, Art-KC6UQH

Congratulations to Kerry, N6IZW, for his contact to San Francisco on 10 GHz during the Microwave Contest on the weekend of August 19 & 20. I believe it might set a record for a contact within the State of California. Kerry has been active in getting several members in the San Diego Microwave Group operational on 10 GHz using SSB technology this year. The second part of the contest is scheduled in September. Check into the Microwave net on Monday nights at 9:00 P.M. on 146.730 for more information.

I would like to congratulate our Board of Directors for a job well done.

Sybil, W6GIC, has done an outstanding job bring us some fantastic speakers this year. Last Month 191 people signed in for our August meeting and I expect several forgot to sign our sign in sheet. Sybil is working on a new banner for our club to be used at our meetings and the Round Up at Missile park.

Jennifer, KM6WG, has done an outstanding job keeping our treasury even while having a Baby and moving to a New QTH all in a two week period.

Dave, KC6YSO, has done an outstanding job as secretary as well as helping Bill, KC6YOX with our 6 Meter repeater and being active in ARES. Dave is also a regular at our repeater work parties.

Ralph, KC6WAN, (The man in the white jump-suit) has done an outstanding job with our membership. Keeping track of 900 members is not an easy job. He also prints the address labels for the Scope, picks up the mail at our Post Office Box, and helps with the folding and stapling of the Scope each month. He has written a program Scroll.exe which allows members to have a computerized current membership roster in their computer. All this while keeping track of hats and badges.

Stan, W9FQN, has done an outstanding job with the many PARC activities he has taken on. He is the Editor of the Scope. He also is the Repeater Site Chairman. Stan organizes the site work parties, climbs the tower, in charge of all structures, does the calculations on the tower to make sure it is safe, and supervised the installation of the lightning protection. Stan keeps track of club owned equipment, and stores a lot of it at his QTH. He gives talks on Amateur Radio, and direction finding. He manages the autopatch system, is the Chief Control Operator, Net Control for the ARES Net on Sundays, and the PARC Code Practice. He has made his QTH available for many meetings, and Field Day. Stan has been a major contributor to PARC for over 13 years. He held the office of PARC President for seven years and has devoted more of his time to PARC than any other member I know. Stan has been and still is a major driving force in the growth of PARC.

John, WB6IQS, for many years has maintained and constructed many of the PARC repeaters. As Repeater

Technical Chairman he has delegated the responsibility of several of the PARC repeaters to other Club Members as our repeater site grew. John has done an outstanding job in overseeing the technical aspects of our repeater system. His efforts have spanned 18 years of service to PARC.

Mike, AB6QT, has spent many hours maintaining our repeaters has built two repeaters and is in charge of the PARC picnic this year. He is active as a Director and has done a outstanding job this year.

Marvin, WB6PKK, has evaluated the capabilities of our designated stations for emergency traffic, is working on new software for the 145.05 Packet Node He will also be in charge of the PARC Auction this year. Again a outstanding job.

Jack, KI6JM, is our Club Historian and Legal advisor. Although he does not hold an Office he is a valuable advisor to the Board of Directors. Jack is a past Vice President, put our Club Constitution in order, keeps me straight on my obligations as President, helps with VE Testing, usually leads the Flag Salute at our meetings, and opens his QTH for the folding and stapling of the Scope each Month. He is currently recovering from major surgery and we wish him a speedy recovery. Jack has done an outstanding job and is a well respected member of our Club.

While the President is the most visible Board member at the General Meetings, he can not be effective with out the help and support of the Board of Directors. I am very fortunate to have a very hard working and supportive Board of Directors. 73, Art, KC6UQH

\*\*\*\*\*  
- Aug. BOARD MEETING -  
BOARD: KC6UQH W6GIC KC6YSO  
KM6WG WB6IQS W9FQN KC6WAN AB6QT\*  
WB6PKK (\*ABSENT).

OTHERS: KB6MCU (ATV & Training), N6UWW (past FD Chair.), and Rod-KM6SN.

The 7pm meeting was at Marvin-

WB6PKK's QTH and started at 7:15+ and ended at 10:15pm.

Marvin served cookies & drink the group.

- SECONDS -

DISCUSSED: Year 100% completed and most accounts near where they should be for this time of the year; \$4003 Equip. Bal, \$824 Gen. Purpose, \$9612 Pre. Paid, \$ ? Post Office, \$-0- ATV, \$135 PALBBS; Field Day problems; TASMA; classes Bill-KB6MCU; membership 811; PARC banner; equipment inventory; insurance checking; nomination committee; FCC's Jerry Mann at PARC's site; Oct PARC auction; Nov two speakers; Dec Xmas program election; Jan Overbeck (VHF); SDCTN msg new PARC members; still using 147.13 emg rpt; WB6IQS 1270B TNC info; Tower agreement KM6SN-PARC; and need for charging DMV;

APPROVED: Next board meeting at Marvin-WB6PKK's QTH in Escondido; \$500 lightning protection; \$100 wire donation; \$40 Eproms and programming; \$35 trailer license; and \$35 70cm WB9COY beam;

Contact a board member 4-info or C Secretary 4-minutes. =PARC=

MEMBERSHIP Ralph-KC6WAN

I AM SORRY IF YOUR LAST SCOPE INDICATED YOUR DUES WERE NOT PAID WHEN THEY REALLY WERE PAID. AT THE END OF THE YEAR THERE IS A LAG BETWEEN WHEN I HAVE TIME TO POST THEM AND WHEN THEY ARE RECEIVED.

3yrs= KD6DPJ-Pat Leming, AA6UU-Vern Leming, K6YGK-George & KD6FKP-Tom

2yrs= WA6THC-Ray N5QLG-JA AC6HI-Joel WD6AHX-Wayne KE6GGP-Ernie N6YMD-Joe KE6RTQ-Larry KD6WEO-Joe KK6IL-John WB6MEI-John KK6CD-Bruce KC6TYV-Art N6KVY-Dennis WA3IHV-Bob K3DLC-Bob N6UIA-Steve W9AOX-Don KA6QBH-L.J. KD6PPM-Tony

1yr= KE6PUU-Mat KC6CZO-Mark NONDF-Chris K03W-Larry KE6NAN-Roger WAITWW-DJ KM6XA-Joel KE6HRL-Tom N6QJE-Eleanore AC6GV-Brian KD6AZU-Shawn Mike-Donavan Farschin-Samimi W6JLU-Don KM6PN-Stan W60LQ-John KN6IP-Mike KD6REU-James KD6KQJ-Conrad KK6RX-Salvator WA6MOS-Joe KK6NS-Phil KD6IAX-John N6CFY-AI

W6SAX-Marsh KB6PCF-Marni W6FXL-AI N6VDZ-Larry KD6TVL-Adrian N6NWR-Byron AB6WX-Chris KI6TG-Chuck KE6KNP-Curt KE6MDG-D.J. KBOFDU-Cathy WA9LFR-James WA6HYB-Dan KC6VDY-Greg KE6MWD-Remy WBOYCQ-Henry W6RGR-Charlie KF6QH-Jim WA6WTZ-Livia KE6TPP-John KE6PVV-Mat KE6SLK-Tim N6UZN-Joe N6MYN-Steve WB6TBA-Bob K6II-Ed K6UL-Mitch WI6B-Ron N6RAO-Loreen KE6CDN-Peter Nancy-Vollmer N6BA-Leo KC6QXU-Joe W3ARU-Pete WA6GPW-Nick W6XE-David K6PUN-Doug KU1Y-Bruce N6RBS-Ken W6HC-Charles KE6IX-John WA6HQM-Dave W6CGY-Leroy & W6TET-Ivan

CHANGES: Roger-KE6NAN from Tech to General; Susan Huggin upgraded from KD6PQS to K06DV (adv);

73, Ralph 727-7415 =PARC=

Thanks to:

ART-KB6YHZ & Anita-KB6YHY made the coffee and supervised the drink & goodies ..and members bringing goodies were: Duane-AA6EE, Bill-KM6PY, Lief-KE6BZP, Paul-N6ISC, Jerry-N6TCB and Norm-N6QQF.

THANKS TO THE GOODIE BRINGERS FOR HELPING MAKE THE CLUB MEETINGS A BIG SUCCESS.

Goodies were great and you were rewarded with ONE participation ticket. =SK=

If we miss anyone, please let your editor know WHO and WHEN. =SK= KE6MKT for donating two RS-232 "break-out" boxes. One was put to use immediately in a club autopatch project.

Pat-KC6VVT for helping Lee-KA6PSG when he ran out of gas on a Sunday evening.

Dale-KC6WZI for the donation of a level ..to keep work parties on the level. =PARC=

- AGOGO - K6HAV/KI6JM/W9FQN

(9-90)(5yr) ..meetings still at Lincoln Middle School ..Fred-KA6IXY on Mexican Off Road Races in Baja ..Stan-W9FQN now SCOPE editor after Ralph-K6HAV completed 17 years as the club's editor, repeater technical head two years, VE team leader 2+ years and VE examiner 4+ years, Field Day Chairman, official club Japanese translator, traffic

net manager for PARC, and club president '68 and '69 ..PL of 107.2 added to output of 146.73 ..new autopatch codes for 147.13 and 146.175 ..Art-KB6YHZ taking over coffee and eats table at meetings ..Rusty-AA6OM is now running PARC VE team ..

(9-85(10yr) ..Auction and social Sept meeting ..Marty, K6NS (no smoking) is in the hospital in intensive care ..two 2m antennas removed for repair ..replaced by two 3-e1 beams donated by Merit, W6NLO ..Ed-N6GZI did the tower work ..repaired bad joint in the stationmaster (present 145.05 pkt antenna -Ed) and broken dipole on the 4-stacked dipoles (present 146.73 antenna which was bought new in 1973? -Ed) ..antennas were returned to the tower and worked ..voted to install 145.05 pkt repeater if cost less than \$300 ..problems with KOJPK repeater on 146.73 located in L.A. ...

JACK HANTHORN KI6JM

KI6JM entered the Marine Corps hospital on Camp Pendleton Thursday, July 27th, and had a large basketball size schwannoma growth removed from his mid-section on the 28th. The operation was a success taking only four of the eight hours planned and by Saturday he was sitting up.

Jack is an "old time" member of PARC (one of our club historians) and is best known among the newer club members from his work at the Saturday morning VE test sessions in Carlsbad. He is also known for his leading of the "Pledge of Allegiance" at club meetings and his jokes about his size ...which has now been considerably reduced.

This newsletter, The SCOPE, is folded, stapled, labeled, and sorted at Jack's QTH each month although this month it will be held at xyz since Jack has a doctor's appoint on August 29th.

Jack is recuperating at home and is doing well. He thanks all of you who sent cards, prayers, and well wishes. =PARC=

xyz = KC6WAN's QTH



If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate!



Radio systems installation, repair and removal, and interference resolution.

**Edward Ross, N6GZI**  
**Antenna Specialties** 542-1405



**HAM HEAVEN**

High in the hills above San Marcos.  
 No antenna problems with close neighbors.  
 Charming home over 3100 sq. ft. on 2.24 acres of usable land.

**COLDWELL BANKER** Call Clara or Michael:  
 Expect the best.® **989-6759**



**Rhō**  
 Flexible Staffing Solutions™

The PREMIER source for  
**Contract Engineering & Technical Services.**

- Long or Short Term
- Direct Placement
- Payroll Services
- Employee Leasing

**Steve Grant, N6RUV**  
 Division General Manager  
**(619) 565-4992**

REPEATER TECHNICAL John-WB6IQS

The following amateurs work hard at keeping our repeaters on the air.

W6NWG Trustee : Ron W. WI6B  
 TECH. OPERATIONS : John K. WB6IQS  
 52.680 6 meters: Bill B. KC6YOX  
 145.050 Packet : John K. WB6IQS  
 146.700 RTTY : John Q. WB6IQS  
 146.730 Repeater: Mike D. AB6QT  
 147.075 Repeater: Art M. KC6UQH  
 147.130 Repeater: Art M. KC6UQH  
 70c METRO Packet: Paul W. KB5MU  
 449.425 Repeater: Mike D. AB6QT  
 AmateurTV System: Bill S. KB6MCU  
 Autopatch Sys(4): Jerry H. WB6FMT  
 Simplex Repeater: Larry R. AB6LY  
 Pwr.Distribution: Mike P. KD6VHI  
 Batteries, Gen. : David T. KD6EBY  
 Site Operations : Stan R. W9FQN  
 WA6IPD Trustee : Art R. WA6IPD  
 146.175 Repeater: Art R. WA6IPD  
 KK6KD Trustee : Geo R. KK6KD  
 224.380 Repeater: Geo R. KK6KD  
 WD6HFR Trustee : Paul T. N6PC  
 224.900 Repeater: Paul T. N6PC

The 146.730(-) repeater went off the air mid-day, Monday the 14th. On the last work party the cover door was replaced and it could be that the repeater is heating up during the day with insufficient air circulation. This repeater shut down once before when it became too hot. Later in the day after having cooled off, it once again came "to life" and has stayed working.

Mike-AB6QT has removed the cover door to 146.73 and is going to install a fan to reduce temperatures. =PARC=

Jerry-WB6FMT PATCHES Stan-W9FQN

**CORRECTION:** Members who have requested the AUTOPATCH INFORMATION sheet should note that there is at least one ERROR. Section 3 has 990-9 listed which should really be in section No.2. It is listed correctly on the small wallet size card which some of you might have (Txn to Paul-WD6BRX for helping locate the error -Ed). =SK=

If you fail to bring up a patch with your access code, there are several things you might check on:

1)when you release your Push-To-TALK (PTT), you hear the repeater drop out (should be up).

2)when you release your PTT, you hear no DIAL TONE.

3)after successfully getting a dial tone and dialing your 7-diget number, you are returned to a DIAL TONE or a HIGH PITCHED continuous tone.

4)after dialing the access code, you hear a busy signal.

In #1 you possibly had the wrong CODE for the repeater being used, or the autopatch has been turned off. Try 147.13 to see if you get the same results.

In #2 see #1 answer.

In #3 you have dialed the wrong section number and need to try the section next to the one you last used. Within the next 3-4 months it might also mean that the computer did not like the number you were calling and did an automatic "dump" of the phone you dialed. This will be automatic and you will hear NO shutdown tone over the repeater.

In #4 this means that the patch is being used on one of the four other repeaters that it is monitoring. Wait 2 minutes and try your call again. =SK=

Autopatch Section #3, in a garage in La Mesa, has had weak transmit audio (low deviation) around 8-13-95 and we were hampered in its repair for several reasons:

1)no one told us about it and  
 2)when we found about it we discovered that the owners of the garage were on vacation. On the Aug.15th it was sounding normal. Then around Aug.18 it again went low and was repaired on Aug.21.

There are 4 autopatch transmitters and 4 receivers (total 8) in the system since 1992 and we have had almost no problems with the equipment. Section #1 had a transmitter problem, Sections #2 & #3 had a control operator problem with the "filter" computers, and now section #3 had a cable problem and low deviation.

These transmitters and receivers are on 24 hours a day for almost 200,000 hours of continuous

operation so we can expect to see some problems from time to time ..and the equipment is getting older (aren't we all -Ed).

We cannot repair problems we are not aware of so please give us a call when you suspect a problem. =SK=

Autopatches were turned off around 8pm, 8-14-95, because of a member twice timing out the patch within minutes with non-important use. They were returned to use around 11pm although 147.13 was monitored for emergency calls. =SK=

Our computer monitor listed the following sequence of events (minus repeater codes and person making the call) on August 7:

#	/date/time/sec/sect/ph#	down
580	07 10:01 10 1 727-152....#	
581	07 10:01 42 1 727-1535....#	
582	07 10:02 40 1 727-155....#	
583	07 10:03 61 1 271-535....#	
584	07 10:05 58 1 727-3515....#	

#580 failed because of improper sequence due to not having (or remembering) the number being called. Possibly this was realized since the sequence was stopped.

#581 has all of the proper digits but two pairs are reversed and they got the wrong number.

#582 dialed wrong number and never completed the sequence. There is the possibility that instead of an incomplete number that they did not hit the (3) between the two fives properly or a fade in signal dropped it. None of these things is the fault of the autopatch. Besides, it was the wrong number being attempted.

#583 could have skipped a digit (1st 7) and then reversed two pairs.

#584 was a successful call and the sequence was remembered properly. To someone just listening, they might be inclined to believe there was a problem with the autopatch when in fact none of the problems were associated with the autopatch equipment.

Problems are usually associated with: 1)incorrect area being called, 2)incorrect dialed phone number, 3)poor signal with "missed

digits", 4)no PL on 146.73, 5)BIG FINGERS punching small key pads, and 6)improperly cleared (with a "#") failed patch attempt. =PARC=

WORK PARTIES Stan-W9FQN

REPEATER SITE WORK PARTIES, IF HELD, ARE USUALLY SCHEDULED THE SUNDAY IMMEDIATELY FOLLOWING THE CLUB MEETING ..and as needed. We meet at MOTHER'S KITCHEN on PMT at 10:30am. Please bring a lunch, drinking water, & 5-10gal of water for our little tree seedlings."

THE NEXT WORK PARTY WILL BE SUNDAY, SEPTEMBER 10th. MEET AT MOTHER'S KITCHEN PARKING LOT AT 10:30AM (leave your parking lights on if you don't have a Ham antenna on your car). REGISTER WITH STAN-W9FQN AT THE NEXT MEETING OR CALL HIM AT 749-0276 so that if the work party is cancelled, you can receive proper notification.

SCHEDULED: more alarm work; watering the little trees; drip irrigation system; more tower insulating; guy wire installation; tree trimming; replace 224.38 antenna; and of course, painting everything that doesn't move ...and some things that do!

We certainly could use your HELP. If you are new to amateur radio or an old timer who has never been to the site ...or were there years ago, pack up your things and come up an enjoy the mountain air with us ...and check out the repeater site. We promise you it will be educational and you will receive a personal tour of the site.

(8-06)#19 Another great day on PMT ..a little warm but cooler than most of SDCo!

David-KC6YSO, Joe-KE6WEO, and crew replaced the previous 6m antenna on the xyz tree with one of Gene-WB9COY's 6m antennas. SWR was 1:1. Joe did all of the climbing. David also replaced the repeater's 12vdc 6A supply with one of the club's 12A units. There still needs to be some additional work done to "harden" the antenna & coax before bad weather sets in this winter.

Zac-KE6MQB and Dennis-KE6MQC

finished the fence work and continued working on the "additional" alarm system.

Art-KC6UQH replaced the 147.075 receiver strip with a new one and aligned one of our drifting receivers.

John-WB6IQS acted as a consultant to those working on the alarm and provided equipment and advice for the work being done on the new 6m repeater.

Tony-KC6YSP and his friend, Kurt Habetler, moved the 55gal water system drum to a new higher location so that we can drip irrigate our little trees. They also helped out as needed.

Dale-KC6WZI was our general handi-man and also prepared the new vacant metal building for repeater shelves.

Tom-KN6BN and his wife, Robin, did an excellent job of painting more of our "green" buildings battle ship gray. We still have some more painting to do. Tom and Robin also found out that a cubic foot of soil at the site weights 79 lbs/cu.ft. and not 100 lbs/cu.ft. which was originally used for all of our tower and guy calculations.

Stan-W9FQN kept busy helping out where needed after having brought up a truck load of items for the site.

Many thanks to Mike-KC6VHI for seeing to it that we had plenty of scrap tower insulating material but we ended up not using it for a lack of climbers.

(8-21)#20 Art-KC6UQH visited patch #3 in La Mesa and found an intermittent mic connector cord which was repaired. One of the two emergency batteries showed leakage and was removed. The transmitter was found to be 1kc low in frequency and was adjusted.

(8-22)#21 Mike-AB6QT visited the repeater site for several hours to inspect the 146.73 repeater. The repeater was off the air for several hours while it was being inspected. =PARC=

## The NiCad Lady N6WPA

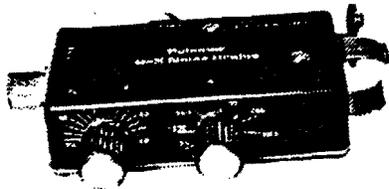
Battery Pack biting the dust?  
Get your power source rebuilt  
with NEW higher quality cells!

Up to a 50% Savings over the  
cost of a new pack!

- Radios
- Laptops/Notebooks
- Test Equipment
- Camcorders
- Any Special Application

(909) 678-0943

## R-X Noise Bridge



- Learn the truth about your antenna.
- Find its resonant frequency.
- Adjust it to your operating frequency quickly and easily.

If there is one place in your station where you cannot risk uncertain results it is in your antenna.

The price is \$79.95 in the U.S. and Canada. Add \$4.00 shipping/handling. California residents add sales tax.



Send for FREE catalog describing the R-X Noise Bridge and our complete line of SWR Meters, Preampifiers, Toroids, Baluns, VLF Converters, and Loop Antennas.

# PALOMAR ENGINEERS

Box 455, Escondido, CA 92025  
Phone: (619) 747-3343

\*\*\*\*\*

### FORESAIL

Star aboard!

Ph/send ads 2 W9FQN (C Ed's addr) B4 20th of mo. w/ur NAME, CALL, Ph #, & CITY. Personal ads FREE 2 members. Others cost 25c/col. line (35spaces). =SK=

Block ads: business card (1/3rd col.) \$5; 2/3rd col \$10; 1 col \$15; 4 card size (almost 1/2 horizontal page) is \$20 per issue. Billed Feb, May, Aug, & Nov.

Keven Sanders, KN6FQ, in Escondido is now handling PARC's extensive tube bank. Contact Keven at 432-8381 for availability and prices.

#### \*\*\*\*\* NEW ADS \*\*\*\*\*

(PARC) 3600ct (1800v) @ .4A pwr transformer + chokes (contesters dream); Other assorted HV transformers \$M0; Stan W9FQN 749 0276 for PARC.

(8-26) HP-2631B serial dot matrix printer wide carriage + stand: Jo-KB6NMK 741 2560 Escondido. (8-8) Baycom modem \$30; Wilson DB-43 Duoband beam (4-e1 15M + 3-e1 10M) \$125; Duane AA6EE 789 3674 Ramona.

(8-7) ICOM 730 HF mobile rig 10-80 meters, gud base also, manual, pwr, mic & mobile mic \$600 or best offer: Curtis N6XXU 599 0178 Vista.

(8-5) ICOM BC-30 rapid charger new \$25; Radio Engineers Vector Finder VHF/FM DF unit new \$25; Ivan W6TET 276 7148 SD.

(7-28) SBE-34 transceiver: Nash W6HCD 940 1028 Bonsall.

(7-18) Triaxe(?) Twr 52' crank-up ready to go w/new motor & orig paperwork \$575; Two Sony stereo reel-reels for station recording \$20ea; IBM Quietwriter printer/cut sheet feeder \$20; Call/fax for list assortment major software for Windows; Mark KC6CZO Escondido.

(7-6) Near new Colorado internal tape backup 120MB \$25; Duane AA6EE 789 3674 Ramona.

(7-6) TEN-TEC Triton 4 HF 100w xcvr w/CW filter & 262G pwr sup \$295; Duane AA6EE 789 3674 Ramona.

(6-8) Hallicrafters SR 400a transceiver 550w 80-10m with pwr sup & mic mint \$200; Antenna tuner

10-160m 300w with swr bridge (MFJ Versa 941c) \$60; KW Amplifier 10-160m, Ameriton AL 80B (see May QST pg18) very few hours \$550; "free" Mechanical code practice machine with 30 tapes FREE to 1st caller; Multi meter (50k/volt) Micronta 22-214A (like new) \$15; Desk Mike Heil HM5 (like New) \$10; 811A tubes (9) @ \$3.50 each; Antennas 10-15-20 mini quad HQ1(new) \$75 Butternut Vertical 10-160 (you take down) \$25 (free 12ft roof mount tower to 1st person who purchases either antenna: Wayne W6RWV 724 0777 Vista.

(5-25) Yeasu FT-5200 dual band (2m/70cm) mobile ex/cond w/remot head and mobile mount \$395: Phil KC6TYT 944 7741 Carlsbad.

(5-17) Tempo 2020 w/extra VFO \$150; ICOM micro 2AT w/extra batteries, charger, mobile charger + accessories \$200: Alf WB6TAW 941 2428 Vista.

(5-16) Heath Oscilloscope 10-18 5MHz \$20; Chuscrafft triband \$100; Union Carbine RTTY \$10; MITA copy machine 600D w/paper needs adjustment \$10: Steve W2MRM 451 5690 R.Bernardo.

\*\*\*\*\*-OLD ADS PRINTED ON ODD MONTHS  
\*\*\*\*\* WANTED \*\*\*\*\*  
"Any old boat anchor"

(6-05) FT-243 crystals for 7.010 to 7.050 or somewhere near: Ron W6TUR 465 6129.

(6-2) EX SWAN tech does repair & refurbishing of Swan Xcvrs: John Bruchey, 4910 Verde Dr, Oceanside 92057.

(6-2) SWAN DIGITAL readout accesory DD-76; and circuit board vise: Nash W6HCD 940 1028 Fallbrook.

#### OLD WANTED PRINTED ODD MONTHS

(3-2) All types of Collins speakers and accessories (old-new): Agent 4-W4ESQ, Stan W9FQN 749 0276 VC.

(2-15) FALLBROOK HIGH SCHOOL will take any and all donations of amateur radio equipment. We need radios, a Tri-band Beam, etc. (it's all tax deductible). Please contact Fritz Schattschneider, KE6EKY, at 723-6357 or Gayle Olson, KM6WF at 723-6402.

PLEASE REPORT UNWANTED ADS TO UR EDITOR! =PARC=

W E E K E N D NO-CODE C L A S S

On September 29, 30, and October 1st, at the San Diego West Marine, Gordon West, WB6NOA, will be conducting a no-code Technician class with the FCC examination being given Sunday afternoon.

Featured will be live equipment demonstrations, talks on repeater systems, tests for kids 7-14, Mexican XE2 licenses, ship grounding, testing for the disabled, Saturday night workshop (6-9pm), how to choose and install your new radio sets, etc. (your editor several years ago talked to one of his classes on repeater systems -Ed).

The cost is \$195 which includes the Saturday night seminar, Gordon West textbook, study manual, 3-ring binder, charts, maps, \$50 in equipment discount coupons, snacks and beverages.

To register send your check payable to RADIO SCHOOL INC, 2414 College Dr, Costa Mesa, CA 92626 (714-549-5000 days).

Needed is your full name, day & evening phone, address, city, and ZIP code. =SK=

(..AND DON'T FORGET KB6MCU's GENERAL CLASS STARTING SEPT.11th AT CARLSBAD SAFETY CENTER -Ed). =PARC=

L E T T E R S to the E D I T O R

UR editor and the board reserve the right to publish/edit all letters.

Reference Aug95 SCOPE, President's Wavelength ..there is an unfortunate error which I think should be corrected ..it reads "Ruf, KR6K, has supplied us with MARS Traffic in the past, and through no fault of his own, the MARS group has decided to not allow him to refile MARS traffic through a non MARS Net."

MARS operations are governed by a Naval Telecommunications Procedures Manual, NTP 8(B). Paragraph 629 therein provides specific instructions to the MARS operators how to accept NTS (National Traffic System of which PARC's SDCTN is a

member -Ed) traffic and reformat it to MARS requirements and paragraph 630 provides similar instructions on how to refile MARS messages into the Amateur Radio Services (NTS).

Paragraph 420 ...says: "Only personal messages may be refiled into the amateur radio service. Messages are to be refiled into the amateur radio service only when it is impracticable to effect delivery via MARS channels without undue delay. Before refile is effected, it is necessary that the message be converted into the proper (NTS) format. Under no circumstances will a MARS message be refiled in the military format."

Simply stated, that language has been interpreted to mean that if a MARS operator receives a message for delivery to a phone number in his local calling area, he or she should deliver the message by phone. If it is outside his/her local calling area, it may be refiled into NTS. MARS has written a program that takes a MARS message and converts it into NTS format and that program is available to MARS operators. We also know that there are some locations in San Diego county which are outside the local calling area of any MARS operators. Very shortly, those message will be segregated and can be pulled off a MARS AMTOR mailbox for immediate refiling into NTS.

MARS recognizes that NTS plays an important role in its mission to effectuate timely delivery of personal messages and I hope that this clears up any misunderstanding of MARS policy and procedures in this area.

Should you have any questions, please do not hesitate to contact me (Signed: G.W. Roos, K06BU, MARS Callsigns: NNNOHUI & NNNOASE THIRTEEN). =PARC=

1 4 6 . 7 0 0 (-) P A C K E T

The past problems with the 146.7- duplex packet repeater appear to have not been the repeater (XMTR/RCVR) but after leaving the repeater (antenna & duplexer).

The new duplexer for 146.7- has the following test results:

INSERTION LOSS:

Tx to Ant 1.4dB, Rx to Ant 1.4dB TX to RX ISOLATION:

At 146.7 88dB, At 146.1 90dB We hope that most of these problems are now behind us and that club members (and others) will enter PALBBS thru 146.7- rather than thru one of the available nodes on .07 so that packets are not lost at PALBBS due to "desense" of KJ6ZD's equipment.

Recent reports on 146.7- have been very good ..so give it a try.

Remember, 146.7- is not connected to any NODE or DIGI so you are limited to connections with:

- a)PALBBS run by Norbert-KJ6ZD-Vista (just issue a ..... 'C PALBBS')
- b)Station-to-Station contacts. (ie W9FQN to N6YZZ ...'C N6YZZ')

Be sure to set your TX Delay to about 550ms. When PALBBS is busy you might want to issue a few CARRAGE RETURNS to keep the circuit active. This should keep you from getting TIMED OUT by PALBBS or by YOUR TNC. =PARC=

RADIO COMMUNICATIONS de KD6PZB

During the past year I have had the good fortune to provide radio communications for "Special Event Activities".

As an Amateur Radio Operator, most of us would agree that the main purpose for our hobby is to provide emergency and/or routine radio communications, in time of need. There are many organizations within our area that would benefit from our skills as radio operators. Some of the groups that I have worked with are:

- ELITE RACING
- Tour de North County - Vista Oct
- Tour de S. Co.- Chula Vista July
- GUACAMOLE GRANDE
- Bicycle Ride thru North Co. . May
- LOST BOYS 50 MILE TRAIL RUN
- Anza Borrego to Cuyamacas . . May
- VISTA HIGH SCHOOL . . . . . May
- Martin Luther King Walk for Peace
- In the past I have called friends that I know to help with

these events but sometimes at the last minute I am not able to come up with enough communicators when these individuals have a change in plans.

Therefore, I would like to get a minimum of fifty operators that would consider volunteering for various events that I could call when I come up short.

The majority of these events require less than ten operators per event. Therefore, you might be asked to work one or two events per year ..or if you wanted, you could volunteer to work all of them. I want this to be fun and enjoyable for you.

Please consider filling out the AMATEUR RADIO COMMUNICATIONS form and return it to me ASAP. If you know of anyone else that might be interest, please include their call and phone number if you know it.

Call: \_\_\_\_\_ Expires \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Addr: \_\_\_\_\_  
 City: \_\_\_\_\_ Zip \_\_\_\_\_  
 HmPh \_\_\_\_\_ WrkPh \_\_\_\_\_  
 Best time to call: \_\_\_\_\_ AM / PM  
 Circle: PACKET ATV 2-M 220 440  
 HF Other \_\_\_\_\_  
 Previous event experience yes / no  
 Available to work:AM / PM / Anytime  
 Weekdays / Weekends / \_\_\_\_\_  
 Freq monitored: \_\_\_\_\_ P1 \_\_\_\_\_  
 P1 \_\_\_\_\_ P1 \_\_\_\_\_  
 Member of: ARES RACES EVAC REACT  
 Comments: \_\_\_\_\_

Send to: Pat McDonald, POB 393  
Vista CA 92085-0393

=PARC=

A T T E N D A N C E W9FQN

Attendance at approved functions are awarded with PARTICIPATION points and are recorded in the GIANT PARC COMPUTER by me the day following the meeting.

We would like to give credit where credit is due and sometimes that is difficult. If you do not print your call in capital letters and very plainly, your call will likely go into the computer with some of the following changes:

R<=>P, U<=>V, I<=>T, O<=>Q, and almost any other combinations you can think of writing down. Please check for variations of your call.

We also have problems with associate members getting their new call letters and then they are in the data base under two calls. For example, LINDA ROHRER with no license would have the call ROHLIN and when she received N6YZZ it was recorded that way on the sign-in sheets. If I know of the change, a "word search" can easily replace all ROHLIN's with N6YZZ in less than a second ..if I know about it.

Reporting your new or changed call to Ralph-KC6WAN, the club's membership chairman will not correct the loss of points but it will correct HIS records. BUT not mine, since I record ONLY what you write on the sign-in sheets.

If you have changed your call or now have a new call, please write in the margin of the sign-in sheet your old call or indicate you were an associate without a call ...and everything will be changed immediately.

PLEASE CHECK PAGE 10 AND SEE IF YOU CAN SPOT ANY PROBLEMS WHICH NEED TO BE REPORTED TO ME BEFORE THE PICNIC ON SEPTEMBER 17TH.

LEFT SHEET: 12mtgs + last year's picnic = 13pts (our year ran from Aug1'94 to Jul31'95).

RIGHT SHEET: Left sheet totals + participation points in approved club activities: nets, construction, work parties, Field Day, Del Mar Fair, committee head, board meetings, goodies, VE program, sponsor of new member, technician, and other things too humorous to mention.

If you feel there has been an error made, please contact me ASAP. =PARC=

- D O N A T I O N S -

The Palomar Amateur Radio Club has been very fortunate to have members who look out for the club in various ways.

TOM KADIEN, KC6ZVI, for the donation of a Meirick 1,120 watt Mod 1400 UPS unit which is in

working order but needs 6v or 12v batteries to be fully functional. Stan-W9FQN has removed the 4Ahr batteries and installed an outside connection for two 12v batteries in series for the 24v required by the unit. It is now in service with the club's autopatch computer. =SK=

BILL BOWEN-N6FMK located three more UPS power supplies (not working) which he has donated to the club for its use on Field Day and for several other projects. Stan-W9FQN now has all three working and one will probably be used with the proposed ARES DATA and PALBBS backup computer.

IVAN SIMPSON-W6TET donated a FM-2016A 2m base to the club to be used with PALEMG (ARES BBS). He also donated two non-working commercial ICOM IC H-2's, and six tape recorders which will be used on club projects. =PARC=

- N E W S - etc.

Contributions by the 20th

Please send "newsworthy" items 2-UR Editor Via PALBBS, letters, notes, or hand them to me at club meetings.

Chuck Inskeep-W6IRM is still "inspecting 4-miles" of the Oceanside waterfront each morning and can be found on 146.730 talking to his sons and acting as "net control" for the morning "commute" group. =SK=

Gene-N6SAN "horses" around showing off his horses at shows. He and Jim-KF6QH ought to get together sometime. =SK=

Some commercial VHF HT's are marked with colored dots:

- ....Red Dot 151.625 MHz
- ....Blue Dot 154.570 MHz
- ....Green Dot 154.600 MHz
- ....Black Dot 167.730 MHz

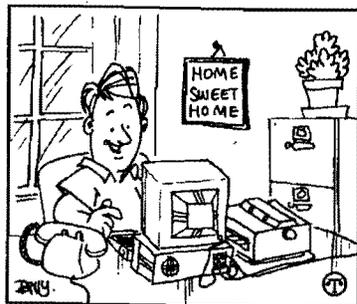
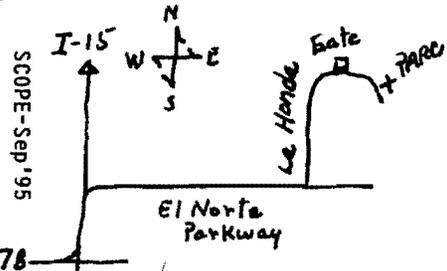
=SK=

- de A R R L L E T T E R -

If you are anxiously awaiting a brand new (first) call sign, you may call the ARRL at 800-326-3942, between 8 AM and 4 PM Eastern Time, to easily and quickly find out the status of your license. Please wait at least seven days after your exam before calling.

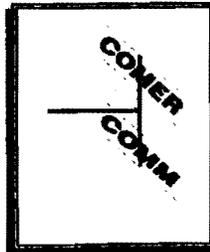
Listing is by (### CALL###), find ### and we will then give you your TOTAL tickets = \$\$\$ Attendance PTS= 1334 .

1	AAGEE	11	57	KA6URU	3	113	KD6FVS	1	169	KE6GXP	8	225	KE6OHX	1	281	KM6WG	1	337	N6QJE	3	393	WA3JHV	1
2	AAGDM	1	58	KABZIM	1	114	KD6HYS	1	170	KE6HRL	7	226	KE6OSM	1	282	KM6XA	1	338	N6QFQ	4	394	WA3WOD	4
3	AAGTR	12	59	KBSMU	2	115	KD6HYS	2	171	KE6HZE	1	227	KE6DXX	1	283	KM6AB	2	339	N6QW	1	395	WA5BNH	5
4	AAGTL	2	60	KB6GAS	1	116	KD6JRU	1	172	KE6IEE	2	228	KE6OZT	1	284	KM6BN	4	340	N6RHS	1	396	WA5BVH	1
5	AB5XE	1	61	KB6CKM	1	117	KD6JXY	2	173	KE6IOW	1	229	KE6PHU	1	285	KM6FQ	1	341	N6SMW	4	397	WA6AUG	3
6	AB6IU	5	62	KB6CPA	1	118	KD6K1R	3	174	KE6ILM	4	230	KE6PTR	1	286	KM61P	2	342	N6TCB	2	398	WA6BEJ	4
7	AB6PU	1	63	KB6CPS	1	119	KD6KXJ	3	175	KE6ILP	6	231	KE6PTX	1	287	KM6JP	1	343	N6TEP	9	399	WA6BLT	2
8	AB6QT	1	64	KB6CPZ	8	120	KD6LPO	4	176	KE6IQL	1	232	KE6PTZ	1	288	KM6DL	2	344	N6URW	8	400	WA6HYX	8
9	AB6VX	3	65	KB6MCU	11	121	KD6LQY	1	177	KE6IQQ	1	233	KE6PIA	1	289	KM6NQ	1	345	N6UW	13	401	WA6JXE	1
10	AB6XE	1	66	KB6NWK	13	122	KD6LUK	1	178	KE6IQV	3	234	KE6PY	1	290	KM6TX	4	346	N6UZH	1	402	WA6MHS	9
11	AC6EA	2	67	KB6NML	1	123	KD6LUO	3	179	KE6JOR	1	235	KE6PZD	1	291	KM6ZD	2	347	N6YOZ	1	403	WA6Q1S	1
12	AC6FM	4	68	KB6OC	3	124	KD6OBG	7	180	KE6JGJ	7	236	KE6QIM	3	292	KO3W	5	348	N6WPA	3	404	WA6THC	1
13	AC6HI	4	69	KB6RY	4	125	KD6PBH	7	181	KE6JJK	3	237	KE6Q1Q	4	293	KO6BT	11	349	N6WRW	5	405	WA6TKL	1
14	AC6JG	1	70	KB6YHY	7	126	KD6PTZ	1	182	KE6J01	3	238	KE6QV	1	294	KO6BU	6	350	N6XCC	2	406	WA6U1S	5
15	AC6KR	1	71	KB6YHZ	12	127	KD6PZB	2	183	KE6J0J	2	239	KE6QXM	4	295	KO6BX	4	351	N6XXV	1	407	WA6UTQ	1
16	AC6OA	1	72	KB7RAG	2	128	KD6QMA	2	184	KE6J0K	7	240	KE6RKG	1	296	KO6BY	1	352	N6YMU	5	408	WA6UTZ	1
17	AC6V	5	73	KC4QAA	1	129	KD6QK	1	185	KE6J0S	1	241	KE6RTP	2	297	KO6CR	4	353	N6ZUC	3	409	WA6VKL	1
18	AF7M	5	74	KC6BJM	5	130	KD6RFM	4	186	KE6J0X	1	242	KE6RTO	2	298	KO6OV	3	354	N7USR	3	410	WA6Y00	9
19	BOXLN	3	75	KC6GVY	1	131	KD6RFQ	2	187	KE6K0J	5	243	KE6RTR	1	299	KO61Q	2	355	N7VSR	1	411	WA6YUN	1
20	CHEALL	1	76	KC61CG	1	132	KD6SPB	7	188	KE6KDP	1	244	KE6SEN	4	300	KO6SI	2	356	N9PYF	1	412	WA9LFR	5
21	COMJEA	1	77	KC6JBJ	1	133	KD6SXF	1	189	KE6KML	1	245	KE6SQT	1	301	KO6SM	9	357	N9YJW	5	413	WATODN	2
22	COREST	3	78	KC6MWJ	2	134	KD6VAM	1	190	KE6KMM	1	246	KE6TEA	2	302	KO6WY	5	414	N6DQC	4	414	WBOYCO	4
23	CORMAR	1	79	KC6MWR	1	135	KD6VH1	4	191	KE6KNN	4	247	KE6TEC	1	303	KULY	1	359	NW6W	1	415	WBOYXQ	1
24	CORROB	4	80	KC6PVM	4	136	KD6VMZ	3	192	KE6KNP	1	248	KE6TIA	1	304	KZ6X	1	360	P1NDR	1	416	WB2K1H	1
25	CURROG	1	81	KC6PVD	1	137	KD6WDE	5	193	KE6KTC	1	249	KE6TIQ	1	305	MAGBRI	3	361	SILLES	1	417	WB65JY	1
26	OIAJES	1	82	KC6QHQ	1	138	KD6YJB	8	194	KE6LBY	2	250	KE6TZO	2	306	MARDEN	2	362	SMITER	1	418	WB6AIX	3
27	DIFLOU	1	83	KC6QHT	1	139	KD6ZSH	1	195	KE6LGM	1	251	KE6URT	1	307	MARZAC	2	363	VE2EQ	1	419	WB6BKR	10
28	DNWNR	1	84	KC6QXU	3	140	KE6B8X	1	196	KE6LGV	3	252	KE6URU	1	308	MASJUD	1	364	VE6RGP	1	420	WB6GXR	5
29	GALJAN	1	85	KC6TCL	1	141	KE6B81	8	197	KE6LGV	1	253	KE6VJF	1	309	MIRMAR	1	365	W1FM	1	421	WB61QS	10
30	GARRRG	1	86	KC6TXN	1	142	KE6BUB	3	198	KE6LGX	5	254	KE6VJL	1	310	MIRVER	1	366	W2DCA	1	422	WB6JAR	2
31	GUMROG	1	87	KC6TYT	1	143	KE6BUE	8	199	KE6LME	2	255	KE6VAG	1	311	NOHWB	1	367	W3ARU	7	423	WB6JVS	3
32	GURROD	1	88	KC6UQH	9	144	KE6BZ1	1	200	KE6LGO	1	256	KE6YSD	1	312	N2OCA	8	368	W6BAM	1	424	WB6LEH	2
33	HAMBIL	1	89	KC6UWH	1	145	KE6BZJ	1	201	KE6LSI	1	257	KE6YDA	1	313	NSQLG	5	369	W6OVZ	3	425	WB6MEI	1
34	HARBIL	2	90	KC6VOX	10	146	KE6BZM	1	202	KE6LZS	2	258	KF6BL	1	314	N6AFB	1	370	W6EYP	4	426	WB6NBU	1
35	JONGER	8	91	KC6VYT	9	147	KE6BZP	1	203	KE6MQB	9	259	KF6C	12	315	N6ALA	5	371	W6G1C	13	427	WB6PKK	12
36	K3PXX	4	92	KC6WAN	11	148	KE6CBK	2	204	KE6MOC	9	260	KF6OH	1	316	N6CDU	1	372	W6HCO	8	428	WB6R	7
37	K61CG	7	93	KC6WOH	2	149	KE6CBX	1	205	KE6MRW	1	261	KH6TL	5	317	N6ELK	1	373	W6IRM	2	429	WB6TAW	1
38	K6LJN	1	94	KC6WQ1	1	150	KE6COH	7	206	KE6MTT	5	262	K16CP	1	318	N6ELP	3	374	W6MK	5	430	WB6WDA	3
39	K6LYL	1	95	KC6WZ1	9	151	KE6C0J	4	207	KE6MY	5	263	K16GO	4	319	N6ELW	2	375	W6MY	9	431	WB6YLT	3
40	K6PGF	1	96	KC6YDX	1	152	KE6CCK	8	208	KE6MWA	4	264	K16JM	1	320	N6FLW	1	376	W6NKB	9	432	WB8EJ1	1
41	K6QJP	1	97	KC6Y0X	11	153	KE6FOA	2	209	KE6MWB	4	265	K16M	1	321	N6FMK	7	377	W6NLO	1	433	WB9COY	3
42	K6QL	3	98	KC6YSO	11	154	KE6GHP	1	210	KE6MNG	2	266	K16RF	1	322	N6GNY	1	378	W6NY	1	434	WB6AFJ	1
43	K6RTO	1	99	KC6ZSR	1	155	KE6DRA	1	211	KE6MYE	2	267	K16YG	7	323	N6GZ1	4	379	W6ODU	1	435	WB6AHW	7
44	K6YGE	2	100	KC6ZRV	1	156	KE6DZT	1	212	KE6MYH	1	268	K16JLS	1	324	N61SC	9	380	W6OLQ	7	436	WB6AHX	1
45	K6YK	9	101	KC6ZVI	1	157	KE6DZK	1	213	KE6NAD	1	269	KJ6NA	3	325	N61ZW	1	381	W6OJY	1	437	WB6BRX	1
46	K6ZST	2	102	KC9LV	3	158	KE6DZR	1	214	KE6NAN	3	270	KJ6ZD	3	326	N6JQK	3	382	W6PQD	1	438	WB6FME	10
47	K9OH	1	103	KD6GEE	1	159	KE6EDR	1	215	KE6NAQ	2	271	KK6GO	3	327	N6K1	2	383	W6RVV	4	439	W168	1
48	KA2EVE	1	104	KD6AKT	7	160	KE6EJF	1	216	KE6NLX	1	272	KK6LX	8	328	N6NN1	2	384	W6TCC	10	440	WN6K	4
49	KA3ZYP	2	105	KD6BFT	1	161	KE6EJG	1	217	KE6NLV	4	273	KK6NS	1	329	N6DE1	1	385	W6TFB	5	441	WN6S	1
50	KA6DXH	11	106	KD6BFR	1	162	KE6EUE	2	218	KE6NLI	1	274	KK6TV	5	330	N6OPP	1	386	W6TKX	1	442	WV6Z	2
51	KA6FFS	4	107	KD6BU	1	163	KE6EUM	1	219	KE6NPN	1	275	KK6YB	3	331	N6OYG	1	387	W6YVY	9	443	WZ3P	2
52	KA6GRG	3	108	KD6CKT	9	164	KE6EZZ	1	220	KE6NZ	1	276	KM6MW	8	332	N6PDZ	1	388	W7HK1	2	444	ZZZZZ1	1
53	KA6LFN	1	109	KD6CYH	2	165	KE6FHS	1	221	KE6OCC	2	277	KM6PY	11	333	N6PEA	1	389	W8MOF	1	445		0
54	KA6OLZ	3	110	KD6DO	1	166	KE6F1L	1	222	KE6OHT	1	278	KM6SX	1	334	N6PXA	1	390	W9BZE	1	446		0
55	KA6PSG	1	111	KD6EBY	1	167	KE6GGP	1	223	KE6OHT	5	279	KM6TNI	1	335	N6QOB	1	391	W9FQN	13	447		0
56	KA6TNI	5	112	KD6EFQ	2	168	KE6GSK	1	224	KE6OHV	1	280	KM6WF	3	336	N6QHE	1	392	WADIAK	3	448		0



Listing is by (### CALL###), find ### and we will then give you your TOTAL tickets = \$\$\$ Attendance PTS= 1740 .

1	AAGEE	14	66	KA6URU	3	131	KD60PJ	5	196	KE6GXP	8	261	KE6OSM	1	326	KM6TNI	1	391	N6QQF	9	456		
2	AAGOM	14	67	KABZIM	1	132	KD6EBC	21	197	KE6HRL	10	262	KE6OXX	1	327	KM6WF	11	392	N6QW	1	457	WADIAK	3
3	AAGTR	16	68	KBSMU	14	133	KD6EDC	1	198	KE6HZE	1	263	KE6OZT	1	328	KM6WG	19	393	N6RHS	1	458	WA3JHV	1
4	AAGUQ	1	69	KB6AQS	1	134	KD6EFC	2	199	KE6HZF	2	264	KE6PHU	1	329	KM6XG	3	394	N6RUV	1	459	WA3WOD	4
5	AAGUW	5	70	KB6CKM	1	135	KD6FGS	1	200	KE6IEE	2	265	KE6PTR	1	330	KM6AB	2	395	N6SMW	4	460	WA5BNH	5
6	AA7GL	3	71	KB6CPA	1	136	KD6GHV	1	201	KE6IOW	1	266	KE6PTX	1	331	KM6BN	4	396	N6TCB	15	461	WA5BVH	1
7	AB5XE	1	72	KB6CPS	1	137	KD6HYS	2	202	KE6ILM	5	267	KE6PTZ	1	332	KM6FQ	1	397	N6TEP	19	462	WA6AUG	3
8	AB6IU	1	73	KB6CPZ	8	138	KD6JRU	1	203	KE6IQL	6	268	KE6PIA	1	333	KM61P	2	398	N6URW	10	463	WA6BEJ	4
9	AB6PU	6	74	KB6JGG	2	139	KD6JXY	1	204	KE6IQL	1	269	KE6PY	1	334	KM6JP	1	399	N6UW	32	464	WA6BK1	



**COMER COMMUNICATIONS, INC.**  
 2598 Fortune Way - Suite I  
 Vista, CA 92083 (619) 599-0476

A set of components "RADCOMPS" has been developed that simply plug together to build converters, transverters and or the HF output stages for RADWARE. Call the RADWARE BBS for more info 599-0185  
 The current introductory price of \$470 for both RADWARE and sound cards ends 5/20/95. List price will be \$595 for both cards.

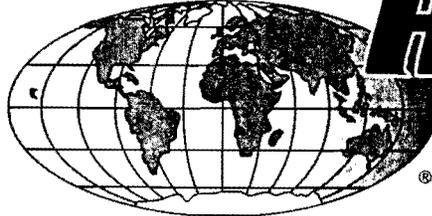
can now be extended to cover 6 Meters, 2 Meters, 1 1/2 Meters and 70 Centimeters.

# RADWARE: The PC Transceiver

## > 12 STORE BUYING POWER! <

Watch for HRO Home Page on Internet World Wide Web  
 HTTP://WWW.HAMRADIO.COM

On-Line Ordering  
 On Internet!



# HAM RADIO OUTLET

WORLDWIDE DISTRIBUTION

**SAN DIEGO, CA 92103**  
 5375 Kearny Villa Rd.  
 (619) 560-4900  
 (800) 854-6046

Phone Hours:  
 9:30 AM to 5:30 PM  
 Store Walk-In Hours:  
 10:00 AM - 5:30 PM • Closed Sundays

Call/Write for your HRO Catalog!

**ANAHEIM, CA 92801**  
 933 N. Euclid St  
 (714) 533-7373  
**(800) 854-6046**  
 Janet WA7WMB Mgr  
 Near Disneyland

**BURBANK, CA 91506**  
 2452 W. Victory Blvd  
 (818) 842-1786  
**(800) 854-6046**  
 Jon KB6ZBI Mgr  
 Victory Blvd. at Buena Vista  
 1 mi. west I-5

**OAKLAND, CA 94606**  
 2210 Livingston St  
 (510) 534-5757  
**(800) 854-6046**  
 Mach K6KAP Mgr  
 I-880 at 23rd Ave. ramp

**SAN DIEGO, CA 92123**  
 5375 Kearny Villa Rd  
 (619) 560-4900  
**(800) 854-6046**  
 Tom K6MG Mgr  
 Hwy 163 &  
 Claremont Mesa

**SUNNYVALE, CA 94086**  
 510 Lawrence Expwy #102  
 (408) 735-9496  
**(800) 854-6046**  
 Ken K1ZKM Mgr  
 NKM@HAMRADIO.COM  
 Lawrence Expwy  
 So. from Hwy 101

**NEW CASTLE, DE 19720**  
 1505 N. DuPont Hwy  
 (302) 322-7092  
**(800) 644-4476**  
 John N1UFL Mgr  
 RT 13 1/4 mi. So. I-295  
 AZ CA CO GA VA residents add sales tax  
 Prices specifications descriptions subject  
 to change without notice

**PORTLAND, OR 97223**  
 11705 S.W. Pacific Hwy  
 (503) 598-0555  
**(800) 854-6046**  
 Earl KE7DA Mgr  
 Tigard-99W exit  
 from Hwy. 5 & 217

**DENVER, CO 80231**  
 8400 E. 10th Ave #9  
 (303) 745-7373  
**(800) 444-9476**  
 Joe KD0GA Mgr

**PHOENIX, AZ 85015**  
 1702 W. Camelback Rd  
 (602) 242-2515  
**(800) 444-9476**  
 Gary WB7SLY Mgr  
 East of Highway 17

**ATLANTA, GA 30340**  
 6071 Buford Highway  
 (404) 263-0700  
**(800) 444-7927**  
 John KB4NUC Mgr  
 Doraville 1 mi. no. at I-285

**WOODBRIDGE, VA 22191**  
 Washington D.C. area  
 14803 Build America Dr  
 (703) 843-1063  
**(800) 444-4799**  
 Jerry WA2GV Mgr  
 Exit 161 I-95 So. to US 1

**SALEM, NH 03079**  
 Boston MA area  
 224 N. Broadway  
 (603) 898-3750  
**(800) 444-0047**  
 Chuck K4WAZ Mgr  
 CW4@HAMRADIO.COM  
 Exit 1 I-93  
 28 mi. No. of Boston

### ALINCO

#### DJ-G5T



2M/40  
 Dual Band  
 200 Mems. Cloneable  
 Dual Rx. (V/V or U/U)  
 Built-in CTCSS  
 Auto-Dialer memories  
 Channel Scope  
 4.5w w/optional battery  
**CALL NOW FOR  
 LOW INTRO PRICE!**

### YAESU

#### DUAL BAND HANDHELDS



**FT-51R**  
 2M/40MHz HT  
 2W standard  
 5W Optional  
 Alpha Numeric  
 120 Memories  
 Spectroscope  
 DTMF Paging  
 Coded SGL  
 Built-in  
**Call For  
 Intro Pricing!**



**FT-530**  
 2M/40MHz  
 2W standard 5W opt  
 82 Mems  
 Dual in-band Rx  
 DTMF paging  
 + coded SGL std  
 Built-in VOK & CTCSS  
 Auto tone search  
 Built-in clock  
 Backlit keyboard

### KENWOOD

#### TS - 50S/TS - 60S

HF Transceiver 6M



**TS-50S** - World's smallest HF Transceiver  
 100W out (90W TS-60S 50MHz only)  
 SSB, CW, AM, FM  
 12V Gen. Cov. RX. 6.4 lbs., 7.16 x 2.4 x 9.32"  
 105db dynamic range, 100 Mems  
 Opt. ext. ant. tuners available (TS-50S only)

**CALL NOW FOR OUR LOW PRICING!**

### ICOM

#### IC - 706\*

HF/VHF Transceiver



100W HF  
 100W 6 Meters  
 10W 2 Meters

**Call For Introductory Pricing!**

This device has not been approved by the Federal Communications Commission. This device is not to be used for sale or lease or sold or leased under the authority of the FCC has been obtained

### ALINCO

#### DX-70T

HF Transceiver



100W 160-10 Mtrs. • 10W 6M. GenCov. Rx  
 Full QSK, 100 Mems. • Compact. Removable  
 Dual VFO 12VDC • 6.2 lbs.

### YAESU

#### FT - 990



100W HF Gen. Cov. Transceiver  
 DDS OSK • 500Hz CW Filter Included

**CALL FOR OUR LOW PRICE!**

### KENWOOD

#### HANDHELDS

##### TH-79A(D)

2M/40HT



2.7W 2M 2W 440  
 5W Optional  
 DTSS Built In  
 B2 Memories  
 DTMF Memories  
 Built In CTCSS Encr./Dec  
 User-Friendly Menu Sys

**CALL NOW FOR  
 INTRO SPECIAL!**

### ICOM

#### IC - 775/DSP

HF Transceiver



200W HF Transceiver • 101 memories  
 DSP built-in • Digital noise reduction  
 Digital automatic notch • Digital LPF and HPF  
 QSK Digital CW filter • Built-in AC supply  
 Twin PBT • Dual watch

**Call Now For The Ultimate Radio!**

# PARC Membership Application

AMATEUR CALL
CLUB MEMBERSHIP? <input type="checkbox"/> NEW <input type="checkbox"/> RENEW
ARRL MEMBER? <input type="checkbox"/> YES <input type="checkbox"/> NO
LAST NAME
FIRST NAME
STREET ADDRESS
CITY
STATE ZIP
HOME PHONE
WORK OR OTHER PHONE
HAM LICENSE EXPIRES
FAMILY MEMBERSHIP (List other calls and names)
CLASS OF LICENSE N T T+ G A E

Mail this form with your check to PARC, P.O. Box 73, Vista, CA 92085-0073 or hand to membership chairman at club meetings. We prefer checks to cash, it's safer and you have a record. Dues are \$12 a year which includes \$3 for the Scope, or \$21 for a family all at the same address. Consider paying for two or three years at a time to reduce the work for the membership chairman. Name, call and complete address are required. Telephone number is requested but may be unlisted in roster if you prefer. For notification of acceptance and an autopatch information and code sheet send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

The new ARRL North American Repeater Atlas is out and features repeater maps for every US state, Canadian province, Mexico, Central America, and the Caribbean! (Dealers have it, or it's available direct from ARRL HQ). North Korea has been added to the ARRL DXCC Countries List. =PARC=

\*\*\*\*\*  
 - P A R C B O A R D -  
 Pres : Art McBride . KC6UQH 7418143  
 VPres: SybilAllbright W6GIC 2784284  
 Sec : David Doan . KC6YSO 2864888  
 Treas: JenniferThieme KM6WG 5991134  
 RptTec:John Kuivinen WB6IQS 7273876  
 SCOPE :Stan Rohrer . W9FQN 7490276  
 MemShp:Ralph Powell KC6WAN 7277415  
 Member:Mike Doyle . AB6QT 7421573  
 Member:MarvinMunster WB6PKK 7472223  
 \*\*\*\*\*  
 VE Program: Rusty . AA6OM 7475872  
 ATV/Edu. : Bill . KB6MCU 5822313  
 PALBBS : Norbert KJ6ZD 6305538  
 \*\*\*\*\*  
 Aug. SCOPE FOLD/STAPLE  
 Editor:Stan Rohrer-W9FQN 30311 Cir.  
 R.Ln.,Valley Center CA 92082  
 KI6JM Jack Hanthorn,Folding Refresh  
 WA6Y00 . Harry Hodges . Staples  
 W6TFB Lloyd & Lisbeth Hunt,Folding  
 WA6UTQ . Larry Ruegseger Folding  
 KB6YHZ . Art Nye . Folding  
 KB6YHY . Anita Nye . Labels  
 KB6NMK . Jo Ashley . Labels  
 N6WQR Bernice Rosenberg Folding  
 KC6WAN,Ralph Powell,Printing,Labels  
 \*\*\*\*\*

Sep.'95 S.Call?:  
 (Sponsor's call not required)  
 \*\*\*\*\*  
 S C O P E, US Post Office #076530  
 Published monthly by: = PARC, Inc.=  
 Membership \$12/yr including \$3 for  
 SCOPE inside SDCo (outside \$4).

*Picnic  
 Sept. 17th*

POSTMASTER: Return to -> S C O P E  
 P.O.Box 73,Vista, CA 92085-0073

2nd Class Postage Pd  
 Vista CA 92085-9998

**Amateur  
 Radio Today**

Pg.Yr	I N	T H I S	I S S U E
1-97	Last/Next Mtg, Picnic . . . .		
2-98	Picnic . . . . .		
3-99	President, Board Meeting . .		
4-100	Member, Tnx, AGOGO, KI6JM .		
5-101	Rptr.Technical, Patches . .		
6-102	Work Parties . . . . .		
7-103	For Sale . . . . .		
8-104	Classes, Letter, Pkt, KD6PZB		
9-105	Participation, Donation, News		
10-106	Participation Points . . . .		
11-107	HAM RADIO OUTLET & COMER Ads		

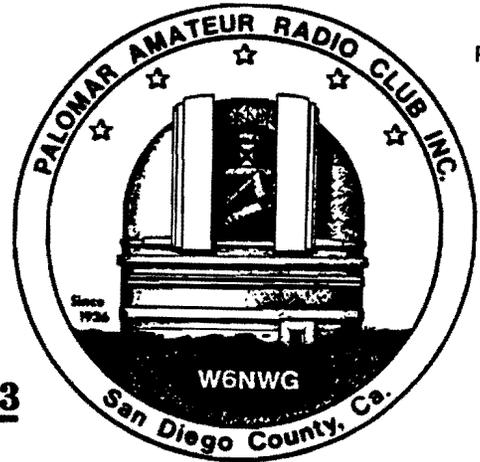
Phone Codes  
 Deliver To

Vista	Mira Mesa	La Mesa	Fallbrook	Membership Expires PRC yy mm	License Expires LX yy mm
Palomar	Mountain				

W6NWX W6NWX W6NWX W6NWX

# Scope

W6NWX



**Palomar Amateur Radio Club Inc.**  
**Post Office Box 73, Vista, California 92085-0073**

OCTOBER \*\*\*\*\* 1995 \*\* 59 YEARS OLD

Dues \$12, Volume XXI Number 10  
Coffee 7pm, Mtg. 7:30 pm @ Carlsbad  
Safety Center(CSC), Palomar Airport  
Rd.to N.on Camino Real(S11),east on  
Faraday .25 mi,left to CSC,TB 14F6.  
===== Talk-in 146.73 =====

OPEN REPEATERS / CLOSED AUTOPATCHES  
PARC PALOMAR MT.REPEATERS(W6NWX):

PARC Trustee of W6NWX: Ron,WI6B  
\*52.680- W6NWX,-.500 MHz(test)  
Autopatches(4): 146.730-, \*147.075+  
\*147.130+, \*449.425-

PKT: 145.050s PALMAR W6NWX-1 Open  
(linked PARC 9600 METROLINK)  
146.700(-) Duplex BBS/EMG use  
145.070/146.700 W6NWX-3/PALBBS  
KJ6ZD SYSOP(QTH Vista)

ATV IN:915 WBFM,919 AM,2441.25 WBFM  
Intercom: 146.430, PL 79.7 NBFM

OUT: 1241.25 AM // // \*107.2Hz  
OTHER:\*224.380- KK6KD;\*224.9-WD6HFR  
\*146.175+ WA6IPD, FalbrkPatch

\*\*\*\*\* C A L E N D A R \*\*\*\*\*

- Sep30 Special Olympic Event Miramar
- Oct 1 Sun.C.A.R.E.S. MS150 146.730
- Oct 4 Wed.CLUB MEETING, ==AUCTION==
- Oct 8 Sun.Rptr Site Work Party Pmt.
- Oct12 Thu.PARC 7pm Board Mtg WB6PKK
- Oct14 Sat.PARC VE Tests Carlsbad SC
- Oct20/24 SCOPE (deadline/mailling)
- Oct21-22 ARRL Simulated Emergency
- Oct23 C.D.F. Wildland Training
- Oct29 Sun. HR ROUND UP Missile Park
- Oct30 Mon.FacetiousCOCO's6pmEncinit
- Feb'96 === 60th Anniversary ===

LAST MEETING

Attendance was 134 members & 17 guests for a total of 151.

We were very pleased to have Jack-KI6JM attend the meeting and lead us in the Pledge after having had a very serious operation last month.

Jerry Man, K9AAH, a former FCC

Engineer at the San Diego Office gave a most entertaining talk about FCC matters and enforcement ..it was almost a "laugh-a-minute" during most of his talk and now that he is no longer with the FCC, we hope to see him on the amateur bands.

SHOW and TELL: Talk on ARES by Stan-KM6PN, & Brian-KF6C with 10GHZ 1w output rig,

Bill-K86MCU and his camera crew, Duane-K06BT and Paul-KD6CKT, made a video of the meeting. =PARC=

NEXT MEETING VPres. Sybil-W6GIC  
PLEASE COME EARLY and help set up chairs ..and STAY A FEW MINUTES to help put away the chairs. WE NEED HELP!

Club meetings start at 7:30pm but many come at 7pm to talk to friends, get a good seat, look at items on the junk table, see equipment as it is being set up, watch demos (ie. packet), and pick up some of the FREE magazines.

SHOW & TELL: Please see me before the meeting to reserve time for your SHOW & TELL item(s).

C. A. R. E. S.

On October 1st, The Costal Amateur Radio Emergency Service (CARES), will again be using PARC's 146.730 from 7:30am until mid afternoon for the MS150 Bike Tour from the LA area to Kellog Park in La Jolla where Marcia, N6ISW, primary Net Control operator will be located.

There will be approximately 700 riders along with support vehicles. They are aware of the 8:30am ARES net and will work around it.

PARC members should know that CARES use of the repeater is

secondary except for emergencies.  
=PARC=

\*\*\*\*\*  
- A U C T I O N -  
\*\*\*\*\*  
loud, silent and otherwise  
-- the humor is free --

The October 4th meeting will be the club's annual auction. High priced items don't usually sell well at these auctions, so be prepared to carry them home if they don't sell. Items selling for \$1 to \$100 usually go more quickly. Don't forget to bring \$\$ and/or your checkbook to take advantage of the great buys that traditionally accompany these auction.

Please change your bids in \$\$ increments ..not by 25c, 50c, etc.

See state of the art items of 10-30yr ago and watch sellers cry as they part with their beloved treasures ..and buyers eyes light up with glee with each new purchase as they successfully buy something they can't live without ..and bring back next year!

Marvin-WB6PKK, hanch (e1 jeffe), is promising dancing girls which Dennis-N6KI, former auction chairman, never produced ..promises, promises!

Steve Kerrin-WA6CDU of the Escondido EARS Club has consented to again be our AUCTIONEER and will be assisted by Art and others too humorous to mention. The word of the AUCTIONEER is the final decision.

Auction rules have again been approved by PARC's Board and are essentially the same as last year:

1)6:30pm, SELLERS sign-in, tag equipment. Decide and mark if they are to be sold individually or sold as a lot.

2)7:00pm, BIDDERS must sign-in and receive identification flags. Inspect equipment before the auction so you know what you are bidding on.

3)PARC receives 10% of the sale price and there is no fee for buyers or sellers. Donations to PARC are accepted and will be marked with a pink tag marked DONATION and with the donors call.

5)All monies R paid to PARC.

6)Seller(s) may set a minimum bid on their items.

7)Seller is responsible for removing any items not sold. PARC is not a "dump site."

8)PARC does not guarantee the condition of any items sold.

9)You don't have to be a PARC member to participate in the Auction so invite your friends to join in on the fun.

10)Sellers will not be paid their money until all monies have been collected that evening so bring an SASE (Self-Adressed-Stamped-Envelope) if you want the check mailed to you the next day ..or pick it up at the next club meeting. Those wishing to hang around until the "bitter end" can leave with their check "in hand."

PARC assumes no responsibility for items you place on the table so make sure they are tagged or well marked with your call. SEE YOU AT THE AUCTION.

\*\*\* PARC SILENT AUCTION \*\*\*

PARC will have a special table(s) for their SILENT auction. Marked items will have tags for you to write your bid on but you will need to keep checking since someone after you might write down a higher bid. At the end of the auction the highest bidder gets the item.

\*\*\*\*\*  
P I C N I C Mike-AB6QT

Another good picnic with 68 club members, 13 guests, and 81 enjoying plenty of good food.

Art-KB6YHZ and Anita-KB6YHY served the coffee (it takes a car load to do it), helped with everything they could, Barbara-KA6FPS brought the ham and drink, helped with the food and clean-up

along with Jerry-N6TCB. Barbara-KD6ECD brought lots of Palomar Mountain water and and ran after missing plates. And MANY THANKS to all of you good people who brought quantities of good food for us all to enjoy.

Jo-KB6NMK discussed hidden transmitter hunting in the morning and Susan-N6QDB and Bob-KC6VDX hid the transmitter for the afternoon hunt. The winner was PARC's representative to Wimbledon, Zac-KE6MQB, with Ellen-N6UWW coming in first for the ladies. Horizontal radiation is harder to find!

Stan-W9FQN had a seminar on the autopatches and traffic handling. He also handed out participation tickets for the drawing which took his computer (RS) "7" hours to compile the totals 1700 callsigns during the club year.

President Art-KC6UQH conducted the drawing after eating and handed out the prizes. Winners were: KC6YSO(\$100), KB6YHZ(\$50), KC6YOX(\$50), KD6EBY(\$25), KB6YHY(\$25), W6HCD(\$25), N6UWW(\$25), K06ZK(Stamp pin), KE6JQL(Range finder), KE6DFA(Rptr directory), W6TFB(Rprt directory), KB6MCU(DFing unit), N6ALA(Salad For Spoon), and books donated by Gordon West (KE6KNN, WA6Y00, AA6TR, KE6BGI & WA6UTQ).

It was a pleasant day and a good opportunity to enjoy the outdoors with friends.

We were especially pleased to have Tuck Miller, KC6ZEC, the new editor of the ARES information sheet and the "mover" behind the SOBARS BBS at the picnic. PARC has always supported ARES and we hope that we will be even able to support them more in the future thru 146.7(-) packet, Emergency ARES-BBS, and possibly an emergency repeater.

Suggestions were made that next year we might plan for some activities for the spouses and for the large group of young people that we seem to be collecting (younger group of hams with children?).

All club members received "1"

participation for the 1995-6 club year. =PARC=

\*\*\*\*\*

- Sep. BOARD MEETING -  
BOARD: KC6UQH W6GIC KC6YSO  
KM6WG WB6IQS W9FQN KC6WAN AB6QT  
WB6PKK

OTHERS: KB6MCU (ATV & Training), and KI6JM-Jack (advisor).

The 7pm meeting was at Marvin-WB6PKK's QTH and started at 7:06 and ended at 10:35pm.

Marvin & wife served cookies & drink the group (in religious glasses).

- SECONDS -

DISCUSSED: Year 08% completed and most accounts near where they should be for this time of the year; \$ 4,472 Equip. Bal, \$ 7,477 Gen. Purpose, \$ 2,865 Pre. Paid, \$ 135 Post Office, \$ -0- ATV, \$ 135 PALBBS; TASMA coordination group problems and new group being formed; treasurer's position and helpers; possible portable repeater; ATV linking progress; meeting programs; club history in SCOPE; Jack-KI6JM turned club's history file over to W9FQN; picnic; Merrit-W6LNO's donation of two antennas to the repeater site; club banner; RADAR; wind profilers in RB in December; letter to SCRUBA; brochures; KD6REG rptr on 147.075 Auction details; and controllers to be ordered;

APPROVED: Next board meeting at John-WB6IQS's QTH in Vista; Americus United autopatch use of PARC's phone line; 1,000 members drive; SCOPE to students under 18 (with restrictions) from remainder of SK memberships; prizes for recruiting members; KC6YSO SANDARC ARES rep; and ARES use of PARC's simplex repeater;

Contact a board member 4-info or C Secretary 4-minutes. =PARC=

\*\*\*\*\*

- AGOGO - K6HAV/KI6JM/W9FQN  
(10-90)(5yrs) ..Lincoln Middle school with new lighting system ..annual auction hosted by Dennis-N6KI ..accepted WA6QQQ metal shed ..sold \$240 worth of ham stamp pins at SWDiv Convention ..Larry-AB6LY announces his communications repair

# WE NEED YOUR HELP!

business ..auction rules ..Bill-KB6MCU appointed SANDARC interference committee head replacing Ed-N6GZI former PARC president ..Eric-KB6EPO aboard USS Independence in Persian Gulf ..KB6EPO QSL card ..

(10-85)(10yrs) ..Marty Cornell, Jr., K6NS (no smoking), 1st PARC VE Examiner, died of emphysema ..Sept Mtg in GFS Bldg with Dick-W6IUG showing 20min film on F-16 ..WF6L showed 4el 2m quad ..great Sept. picnic ..rebuilt dB Products working great on 146.73 ..packet TNC for 145.05 digi ordered ..block building insulated by Ron-WI6B, Lloyd-W6TFB, and Stan-W9FQN ..Jim Faughn-WD6ENK died 9-18 ..he was the source of the \$18,000 "loan" money which started PARC on road to buying the repeater site ..Pat-N6INN now PARC VE Examiner ..FD pictures ..pict N6GZI on PARC rpt tower .. =PARC=

The September SCOPE carried the notice of the death of Frank Ramme, WB6HFE, which was incorrectly listed with the call of WB6HSZ who is very much alive.

SK-\*\*\*\*\*-SK-\*\*\*\*\*-SK  
FRANK RAMME, WB6HFE

Died of cancer Aug13th. He was a long time member of PARC, RACES, ARES and supported the Carlsbad Safety Center station with his time and his own equipment.

SK-\*\*\*\*\*-SK-\*\*\*\*\*-SK  
KERNEIL BERNARDINI, K6UV

Died sometime in 1994. He will be missed by all who knew him.

SK-\*\*\*\*\*-SK-\*\*\*\*\*-SK  
JOHN BENDER, W6ABT

Died August 28th. He was a former club member.

=SK=

The Board has approved the sending of the SCOPE to young people for the remainder of SK club member's membership in the name of the SK member.

== PARC ==

\*\*\*\*\*  
PRESIDENT'S WAVELENGTH, Art-KC6UQH

I received a surprise visit from Jim, KJ7NT (EX KD6YKX) now living in Idaho. He left with me a copy of the Evergreen Repeater Intertie

which covers British Columbia, Washington, parts of Oregon, Idaho, and Wyoming. He also left several copies of an Idaho Repeater map and rejoined PARC so that he could keep up with Club news. If anyone is interested in this information please contact me and I will try to get a copy to you. He will be listening on 14.240 around 6:00 PM for those of you who would like to talk to him.

I have appointed Jack, KI6JM Jennifer, KM6WG and Jo, KB6NMK for the Nominating Committee for our Election General Meeting in December. Jennifer is resigning as Treasurer and we will need a new Treasurer for next year. If you have an interest in serving on the Board of Directors please contact one of the Committee members above. They will announce their recommendations at the November General Meeting. We also will open Nominations from the floor at the November Meeting.

I am still looking for someone to lead the refurbishing of our Communications Trailer project. I am hoping that this will be a multi-member task and will provide PARC with a Communications trailer we can be proud of. When finished it will serve us well for Field Day, Emergencies, Demonstrations, and Contesting by Club Members. The effort includes fixing, painting, installing a 3.5 KW electric start generator, HF, Vhf, and Packet equipment. My Goal is to have this done by PARC 60th Birthday in February of 1996. There is not much time left and if everyone would donate a weekend to the project the work still could be completed by February. Please contact me or Stan, W9FQN, if you are interested in helping with this project.

Ivan, N6OLE, is doing a great job with the Ham/License Theory net. The Ham Help net still needs a net control for the fifth Thursday. We also could use more check in's to the Net. We try to answer all Questions and the only stupid question is the one that was not asked. The Net is there for all

Amateur Operators and is a service to our community. Please do not be bashful, check in and help us answer the questions. Remember many Amateurs and prospective Amateurs listen to the Net and we need participation to keep it running. Answering Questions is also a help in retaining what we have learned and all of the questions are not technical. Many questions are on equipment selection and different bands that are in use. One of the best exchanges I can remember started on what features to look for when selecting a transceiver.

Dee, N6ELP, is moving out of the area and is our ARRL WAS VHF award Chairwoman. If anyone would like to serve in that capacity and is a League member please contact me. Thank-You Dee. Best of luck on your overseas move.

The Scope will be carrying from time to time a list of "EXPERTS" to help Members get started in specialized areas of Amateur Radio. I hope this will be useful to new and old Amateurs who want to explore the different aspects of Amateur Radio. I will be using the San Diego County Traffic Net beginning this month to send a welcome message to new members. I will be referencing this EXPERTS list in my welcome message to help them find other members with similar interests in Amateur Radio. I hope that EXPERTS will help them get started, and will perhaps rekindle interest of our current membership in a different facet of Amateur Radio. If you would like to be listed in this column please contact Stan, W9FQN, our Scope Editor.

Remember the San Diego County Traffic Net needs traffic and we all need the practice. Please plan to use it for some of your Holiday Greetings this year.

I really enjoyed the PARC Picnic this year. I had time to converse with everyone on a relaxed schedule and I was not under the usual pressure to put together a tight meeting schedule with the last minute announcements as I must before the General Meetings. It was the larg-

est turnout to a Picnic we have had. The weather was perfect, the food delicious, the seminars, and radio clinic were excellent. Thank You Mike-AB6QT, Barb-KD6ECD, Art-KB6YHZ, Anita-KB6YHY, Barbara-KA6FPS, Susan-N6QDB, Jerry-N6TCB, Bob-KC6VDX, Jo-KB6NMK, John-WB6IQS, Sibyl-W6GIC and Stan-W9FQN for a great job well done.

73, Art, KC6UQH

\*\*\*\*\*

- E X P E R T S -

"Loco and OtherWise"

One of the advantages of a large club is that we have a large number of eXperts in many areas.

The following club members have considerable knowledge in the areas listed. If you have questions, please feel free to contact them:

- FCC 610 forms: KB6NMK, W9FQN, AA6OM
- Accounting/bookeeping . . . \$KM6WG
- Alligators: . . . . . AA6TR
- AMTOR/RTTY: . . . . . WA6Y00
- Antennas: . . . . . KC6UQH WB9COY KB6MCU
- Antennas,BoatElect: . . . . . KC6UQH
- ARES: . . . . . KC6YSO K7DCG WA6Y00
- ARRL: . . . . . WA6Y00
- ATV: . . . . . KD6TLF KC6UQH KB6MCU WB9COY
- Autopatches: . . . . . WB6FMT W9FQN
- Badges, PARC: . . . . . W60LQ KC6WAN
- Beams,HF: . . . . . N6KI KB6MCU
- Beams,VHF/UHF:KC6UQH \$WB9COY KB6MCU
- Bilingual Ed: . . . . . KA6FPS
- Boating: . . . . . W6QCA AA6TR W6EYP
- Camping: . . . . . KM6MW KC6TYT AB6QT
- Cars (old): . . . . . W6QCA AC6V
- China: . . . . . WA6Y00
- Coast Guard Aux: . . . . . N6TEP
- Computers, C-64: . . . . . WD6FWE
- Computers,IBM: WB9RKN W6QCA N6ZUC
- Computers,MAC: . . . . . AC6V
- Computer,TRS-80, Mod3/4: . . . . . W9FQN
- Dancing: . . . . . AC6V KM6MW
- DeskTopPublish:KE6J0J,KC6CZ0,KB6NMK
- DirectionFinding:KB6NMK W9FQN N6UWW
- DXing,CW: . . . . . KA5Q AA6TR WA6Y00
- DXing,SSB: . . . . . WA6Y00 KA5Q N6KI AC6V
- DXing,RTTY: . . . . . WA6Y00
- Earthquakes: . . . . . KN6TX, W9FQN
- EmergencyVolunteerAirCorps: KH6TL
- Fishing: . . . \$KE6EDC \$W7HKI \$W7HKL
- Fire Patrols(Red Flag): . . . . . W6HCD
- Flying Samaritans: . . . . . W6HCD
- FM Deviation Cks: . . . . . AB6LY WB6FMT
- German: . . . . . N6TEP KJ6ZD
- Graphics: . . . . . \$KB6NMK

- Heathkits: . . . . . WB6IQS
  - Horses: . . . . . KF6QH
  - Interference: . . . . . KB6MCU N6GZI
  - Korea: . . . . . WA6Y00 W9FQN N6IE
  - Lighting: . . . . . \$AA6TR
  - Marine Electronics: . . . . . \$KC6UQH
  - Membership PARC: . . . . . KC6WAN W9FQN
  - Mexican License: W9FQN N6UWW WB6PKK
  - Mexican Road Races: . . . . . WB6PKK N6UWW
  - Mexico: . . . . . W9FQN KA6FPS
  - Mexico, Baja: . . . . . WB6PKK KM6WF
  - Microwave: . . . . . N6IZW
  - Mobile noise filters: . . . . . KI6RF
  - Nets PARC: . . . . . W9FQN
  - Nets, Traffic: . . . . . N6TEP W9FQN
  - Pacific Crest Trail: . . . . . KF6QH W9FQN
  - Packet: . . . . . KB5MU N6ZUC AC6V KD6AKT
  - Ping-pong: . . . . . W60LQ W9FQN KA6FPS
  - Planes, Gliders: . . . . . KC6Y0X
  - Planes, History: . . . . . AC6V
  - Planes, Model: . . . . . N6UWW WB6FMT
  - VE Testing . . . . . WA6Y00 AA6OM
- (\$ = they sell their services)

If anyone would like to be added or deleted from this list or you have suggestions of others that might be added, please contact your editor.

\*\*\*\*\*

M E M B E R S H I P Ralph-KC6WAN

NEW CLUB MEMBERS wanting confirmation of their membership and/or an autopatch information sheet and/or FCC 610 form should send to me at the club's address a (S)elf-(A)ddressed (S)tamped (E)nvelope (SASE) requesting same or see me at the next meeting.

The Board has authorized me to take "surplus" or "un-used" years from club members who have died and apply them to YOUNG hams under 18 who have no other ham in the immediate family. For example, Franke Ramme's (WB6HFE) membership was good till 1998 and it will be used to SPONSOR one or two YOUNG hams in the San Diego area.

The Board has authorized me to sell members for non-commercial use a disk with membership information. The disk sells for \$1 and I will provide FREE updates with a return of the ORIGINAL disk bought from me. A short program will be on the disk allowing you to access club information.

4yrs= KD6WDE-Ed

3yrs= KE6MWB-Ted K06ZK-Vic  
KC6MLM-Gary KD6GFK-Chris K6YGK-George & KD6FKP-Tom

2yrs= N6OPP-Bill N6KVN-Mary  
KE6SDC-David KE6URQ-Jim KE6UPV-Bill  
KE6URR-Dwight WB6FMT-Jerry KC6LRH-Jan WB6IOV-Russ KA6UEA-George  
KE6MRP-Troy WA3ET0-Gary KE6W0E-Frank KE6W0G-Jason KM6SN-Rod AH8AD-Lionel KC6ZVI-Tom W60YJ-Ed W6EYP-Warren KD6JPN-E.R. KD6DKI-Lee  
KE6CJS-Raiford KD6PPM-Tony N6QQF-Norman KD6VND-Bill KE6HZF-Dennis  
KE6HZC-Susan W9A0X-Don KA6QBH-L.J.

1yr= KE6WYE-Ron KE60SM-Kierstin  
N6VOX-Laura KA6NZN-Leslie KC6TXN-Bill KJ6SK-Walt KD6YJB-Marvin  
Gerrry-Jones KD6JXY-Paul KE6GSK-Lorie KC6QXU-Joe N6BA-Leo W3ARU-Pete WA6GPW-Nick W6XE-David K6PUN-Doug KUIY-Bruce N6RBS-Ken W6HC-Chuck KE6IX-John WA6HQM-Dave W6CGY-Leroy W6TET-Ivan N6UZN-Joe N6MYN-Steve AF7M-Gary WB6TBA-Bob K6II-Ed  
K6UL-Mitch WI6B-Ron N6RA0-Loreen  
KE6CDN-Pete KE6CDM-Nancy KE6SLK-Tim  
KE6PUU-Mat KC6CZ0-Mark KE6BZK-Duane  
WH6MC-Ted KM6LF-Chas AB4PG-Bill  
KD6JXW-Clinton KM6WG-Jennifer  
N6YRS-Jess K6HAV-Ralph N6INN-Pat  
NU6L-Joe KD6VFZ-Alice KW6Z-Ed KY6B-Shirley George-Jones KD6TB-Mark  
N5MCJ-Gerald KE6TPP-John N6TUR-Leo  
KE6AWN-Jim KE6BZK-Duane KM6LF-Chuck  
N6TUR-Leo KE6ILN-Sydney AB4PG-Bill  
WB0BMY-Karl KH6TL-Scottie N6UZH-Teresa KE6MRW-Wally KK6CA-Ray AC6V-Rod W6TXK-Scott W6TXK-Ron KC6WRI-Jeannie KC6WRK-Scott W6QQA-Russ  
WB6YZR-Bob WF6L-Phil KC6ZVG-Jay  
KE6J0J-Mario KD6CYH-Ron AC6KR-Bill  
KM6WF-Gayle KE6EDC-Oscar W6MMO-Jack  
W6HLB-Joe WB6AKM-Howard KA5ECR-John  
W6GHD-Dick Steve-Pearce Peggy-Pearce Cameron-Pearce Spencer-Pearce KE6UPS-Nigel KE6WEP-Bob  
KE6TYH-Ray W60DG-Aubrey KD6LP0-Art  
KE6W0K-Ted KD6JIG-Rodolfo KD6JIG-Rod KD6WS0-Elsie KD6NHH-Sherwin  
AH6CW-Phil KD6YDI-Roy WA1CS0-Joe  
(when you coming back, Joe?) & KD6KXH-Dick

CHANGES: none

If U didn't C UR name/call here but U received UR SCOPE, then U R A MEMBER!

To receive a point for sponsoring a new club member you will need

## The NiCad Lady N6WPA

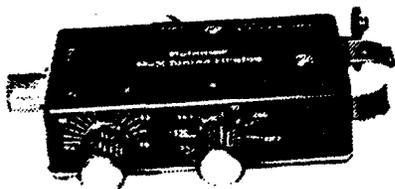
Battery Pack biting the dust?  
Get your power source rebuilt  
with NEW higher quality cells!

Up to a 50% Savings over the  
cost of a new pack!

- Radios
- Laptops/Notebooks
- Test Equipment
- Camcorders
- Any Special Application

(909) 678-0943

## R-X Noise Bridge



- Learn the truth about your antenna.
- Find its resonant frequency.
- Adjust it to your operating frequency quickly and easily.

If there is one place in your station where you cannot risk uncertain results it is in your antenna.

The price is \$78.95 in the U.S. and Canada. Add \$4.00 shipping/handling. California residents add sales tax.



Send for FREE catalog describing the R-X Noise Bridge and our complete line of SWR Meters, Preamplifiers, Toroids, Baluns, VLF Converters, and Loop Antennas.

# PALOMAR ENGINEERS

Box 455, Escondido, CA 92025  
Phone: (619) 747-3343

to instruct the potential new member to write on his application that you are the sponsor. Otherwise, your editor is not aware of points to be awarded to members.

Extra point to KE6NXY for recruiting KE6URR. =PARC=

\*\*\*\*\*  
REPEATER TECHNICAL John-WB6IQS

Stan-W9FQN is using a donated club KDK with analog meter to record relative signal strengths from our 2m repeaters at his Valley Center location. Recent results with the 146.7 packet used as the standard are -

146.700	146.730	147.075	147.130
0 dB	17 dB	2 dB	17 dB
* 1 w	<64 w	< 2 w	<64 w

\*=assume 146.7 is 1watt (its not)

Remember that for each 3dB change in power you double the power so 18dB/3dB = a doubling of power 6 times (ie, 2w, 4w, 8w, 16w, 32w, 64w). The increase in power gain is also somewhat indicative of its receiving ability but that was not measured during this test.

The 147.075 and 146.7 antennas are the lowest on the tower and there might be some absorption in the path to W9FQN's QTH or reflective nulls so these results are only valid at W9FQN's QTH.

These numbers with repeated periodic tests will be used to determine if any changes are taking place with our transmitters, feedlines, and antennas. =PARC=

\*\*\*\*\*  
Jerry-WB6FMT PATCHES Stan-W9FQN

In running an autopatch for a stranded motorist, do not hand the mike to them to talk unless it is absolutely necessary. YOU are the experience communicator. Get the data first and then YOU give it to the person on the other end. YOU know what important information is needed (location). YOU know that you will be timed out of the patch in 120 seconds. YOU understand the way the patch works. DON't turn the mic over to someone who does not have your knowledge of what is needed and how things work. =SK=

Patch section #3 had a "glitch"

on the telephone line for 24 hours resulting in a cycle of ((tick-tick-tick (normal), dial tone)), then ((tick-tick-tick (not normal), dial tone)), with this being an "endless" cycle. The next day everything was "normal."

Then on Sep21-24th again #3 was down. There appears to be a "loose" connection in the telephone connection. =PARC=

\*\*\*\*\*  
WORK PARTIES Stan-W9FQN

REPEATER SITE WORK PARTIES, IF HELD, ARE USUALLY SCHEDULED THE SUNDAY IMMEDIATELY FOLLOWING THE CLUB MEETING ..and as needed. We meet at MOTHER'S KITCHEN on PMt at 10:30am. Please bring:

- lunch, snacks, drinks,
- 5-10gal of water for our little tree seedlings."

THE NEXT WORK PARTY WILL BE SUNDAY, OCTOBER 8th. MEET AT MOTHER'S KITCHEN PARKING LOT AT

10:30AM (leave your parking lights on if you don't have a Ham antenna on your car). REGISTER WITH STAN-W9FQN AT THE NEXT MEETING OR CALL HIM AT 749-0276 so that if the work party is cancelled, you can receive proper notification.

SCHEDULED: guy wire installation; tree trimming; more tower insulating; more alarm work; cleaning of buildings; and of course, painting everything that doesn't move ...and some things that do!

#22(9-1) Bill-KB6MCU and Sybil-W6GIC worked on the 147.13 which has been down in power. They cleaned connections which caused the last problem like this but were not able to make much of a change.

#23(9-2) Stan-W9FQN and Barbara-KA6FPS visited the site to take up bulky items for the next workparty on Sept.10th. They stayed overnight and had good conversations with our immediate neighbors (public relations).

#24(9-4) Bill-KB6MCU and Sybil-W6GIC took items up to the site to repair the 147.13 final which has been running about 1.5 watts this past week. The final transistors were replaced and the operation was a success.

#25(9-10) Mike-KC6VHI and Joe-KE6WEO worked on the tower all day. The upper guy was insulated, the old 224.38 antenna was removed and replaced with a new one which had its phasing harness inside rather than outside. They also replace a control yaggi with a 3-el one from WB9COY.

Joe replaced some heliax ties which secured the heliax to the tower. He has also consented to take a look at a packet "data" system started by PARC several years ago which needs to be installed at the site. The system would allow PARC (and possibly members) to find out the battery voltages, locate open doors, check temperatures (buildings, outside, transmitter, etc), measure wind velocity and direction, plus anything else you can think of to be measured.

Changing antennas is a lot of work since in almost all cases it involves the cutting open of two well-taped-gunked heliax connector joints and then re-sealing them. Water was found in the control antenna connector coax jumper.

Art-KC6UQH investigated some possible mixing problems that might be responsible for some of the "grunge" we have been hearing on our repeaters ..especially 147.075 and the two 220 repeaters from time to time. He also tuned several cavities and checked SWRs.

John-WB6IQS was not feeling too well but helped Art with several projects inside the repeater buildings and was a "consultant" to several more.

David-KC6YSO and Bill-KC6YOX did some work on the new 6m repeater and helped others with their projects.

Dennis-KE6MQC and Zac-KE6MQB finished the rope fence project and continued on with the new security system.

Jorge-KK6KD, assisted by Alfredo-XE2TBC and Daniel-KD6DKM, put together the new 224.38 antenna (SWR excellent), connected up a telephone to the 224.38 repeater, and assisted with the antenna

exchange on the 80' tower.

Les-KE6QIM as always was a "jack of all trades" helping with the irrigation project, cutting weeds, fixing an entrance walk way, installing a rain gage, etc.

Bill-KB6MCU and Sybil-W6GIC visited the site and discussed several projects.

Stan-W9FQN kept everyone busy. Started the organization of the trailer items, worked on the irrigation project (abt 80% completed), checked out the new metal building to see if two 2m repeaters and two 70cm repeaters would fit in it (they can) and did some publicity with several of the neighbors.

#26(9-24) Kerry-N6IZW checked out patch #3, moved some wires, and everything worked. We still do not know what the problem is with #3. =PARC=

\*\*\*\*\*  
V E T E S T I N G Rusty-AA60M  
Test results for August 12th  
Tested 19 candidates for 37 elements with 26 passes & 1 no-show.

TO ADVANCED: Bruce-KE6HQT  
TO TECH+: Bill-KC6YOX, Allen-KE6WOL, Bob-KE6WEP, Troy-KE6MRP, Ted-WE6WOK, Ron Dicarlo, Mark Fontaine, Lacey Heflin, and Mike Stelmach.

TO TECH: Bob Fritz & Ivan Lesnik.

TO NOVICE: John Phillips.  
Other: Shaun-KD6AZU(3B), Zac Halbrunner(2), & Melinda Robertson(2).

TEST TEAM: AA6UQ-Jack, K06IQ-Eric, AA60M-Rusty, WB6R-Duane, and KE6VX-Bob.

Test results for September 15th were:

TO ADVANCED: KE6NAM-Jonathan  
TO GENERAL: KD6KIR-Leon  
TO TECH+: Thomas Uter & David Smith.

TO TECH: Monica Cowan, Travis McIlnay, & John-KE6WYI.

TEST TEAM: KI6JM-Jack, N6ZUC-Tim, AA60M-Rusty, KB5MU-Paul, and WA6HYC-Bill.

The September testing was the

first computer generated submission in the county by our PARC SANDARC VE Test team.

73, Rusty-AA60M =PARC=  
\*\*\*\*\*  
= VE TEST TEAM NEEDS EQUIPMENT =

With the new testing format for our VE Test sessions at the Carlsbad Safety Center, our team needs the following items for the new electronic filing of test sessions:

- 1)small portable computer with HD 110v operation ok.
- 2)small portable dot matrix printer

Please contact Rusty if you have any of these items to donate or at low cost (747-5872). =PARC=

\*\*\*\*\*

Thanks to:  
ART-KB6YHZ & Anita-KB6YHY made the coffee and supervised the drink & goodies ..and members bringing goodies were: KE6BZP-Lief, AA6EE-Duane, WB6GXR-MAC, N6ISC-Paul, KD6JXY-Paul, KM6MW-Ron, KM6PY-Bill, N6TCB-Jerry, KE6WLQ-Jess, and K6YGK-George.

THANKS TO THE GOODIE BRINGERS FOR HELPING MAKE THE CLUB MEETINGS A BIG SUCCESS.

Goodies were great and you were rewarded with ONE participation ticket. =SK=

George-K6YGK for R&D and COLD FUSION magazines ..as an old physics teacher your editor enjoys reading electronic and physics type magazines.

Gayle-KM6WF, Larry-WA6UTQ & Duane-AA6EE for information from the ARRL convention in L.A. with each supplying different items. =SK=

If we miss anyone, please let your editor know WHO and WHEN. =PARC=

\*\*\*\*\*

- D O N A T I O N S -  
James-KA60LZ donated some monitors, several Tandy (Radio Shack) 1000 computers, and a RS DMP 130A printer. Printer will probably end up in a club project soon.

Fred-KE6BGI is always on the lookout for items the club might use. This time he found 150' of 5/16" steel cable which the club



If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate!



Radio systems installation, repair and removal, and interference resolution.

**Edward Ross, N6GZI**  
542-1405  
**Antenna Specialties**

## HAM HEAVEN

High in the hills above San Marcos.

No antenna problems with close neighbors.

Charming home over 3100 sq. ft. on 2.24 acres of usable land.

**COLDWELL BANKER**

Call Clara or Michael:  
**989-6759**

Expect the best.™



# Rhō

Flexible Staffing Solutions™

The PREMIER source for  
**Contract Engineering & Technical Services.**

- Long or Short Term
- Direct Placement
- Payroll Services
- Employee Leasing

**Steve Grant, N6RUV**  
Division General Manager  
**(619) 565-4992**

might use. This time he found 150' of 5/16" steel cable which the club needs for the lower tower guys we are replacing. =PARC=  
\*\*\*\*\*

**FORE SAIL**

Don't Go Overboard!



Ph/send ads 2 W9FQN (C Ed's addr) B4 20th of mo. w/ur NAME, CALL, Ph #, & CITY. PERSONAL ads FREE 2 members. Others cost 25c/col. line (35spaces). =SK=

Block ads: business card (1/3rd col.) \$5; 2/3rd col \$10; 1 col \$15; 4 card size (almost 1/2 horizontal page) is \$20 per issue. Billed Feb, May, Aug, & Nov.

Keven Sanders, KN6FQ, in Escondido is now handling PARC's extensive tube bank. Contact Keven at 432-8381 for availability and prices.

\*\*\*\*\* NEW ADS \*\*\*\*\*

(PARC) (contesters dream & "worked all neighbors" xfmrs); 3750-CT-@10, 700WV; 3600ct (1800v) @ .4A pwr transformer + chokes; 2000-1500-CT-@.8A (or more); 1500-1250-1000-CT-@.5A; 623-CT-@.5A; and others too humorous to calcify; plus HF chokes (some swinging) for those gasping for more power: Stan W9FQN 749 0276 for PARC.

(9-23) UNIDEN HR-2510 10m xcvr all modes (mod for 11m & "black-hole") \$200 080: Gayle KM6WF 673 9201 Poway.

(9-20) DRAKE 1kw HF VT STN R-4B, T-4XB, L-4B, include Heath HD-15 patch, AM-2 SWR, SB-610 monitor scope, dumm load, gud cond demo available \$1,000: Ivan W6TET 276 7148 SD.

(9-16) 286 Computer w/color monitor & 20mb HD gud for packet: Rusty AA60M 747 5872 Escondido.

(9-13) To person buying two Tandy 1000EX computers and video monitor. We have several books on their operation and use. They will be at the October meeting: See John WB6IQS or call 727 3876 Vista.

(9-12) ICOM IC220 XCVR with mic, mobile mt, pwr cord & manual - needs work: Dan WA6HYB 433 4445 Oceanside.

(9-06) Hayes 1200 modum \$15; Dove FAX 1200 modum \$10; Steve

W2MRM 451 5690 R.Bernardo.

(8-26) HP-2631B serial dot matrix printer wide carriage + stand: Jo-KB6NMK 741 2560 Escondido.

(8-7) ICOM 730 HF mobile rig 10-80 meters, gud base also, manual, pwr, mic & mobile mic \$600 or best offer: Curtis N6XXU 599 0178 Vista.

(8-5) ICOM BC-30 rapid charger new \$25; Radio Engineers Vector Finder VHF/FM DF unit new \$25: Ivan W6TET 276 7148 SD.

(7-18) Triaxe(?) Twr 52' crank-up ready to go w/new motor & orig paperwork \$575; Two Sony stereo reel-reels for station recording \$20ea; IBM Quietwriter printer/cut sheet feeder \$20; Call/fax for list assortment major software for Windows; Mark KC6CZO Escondido.

(6-8) Hallicrafters SR 400a transceiver 550w 80-10m with pwr sup & mic mint \$200; Antenna tuner 10-160m 300w with swr bridge (MFJ Versa 941c) \$60; KW Amplifier 10-160m, Ameriton AL 80B (see May QST pg18) very few hours \$550; "free" Mechanical code practice machine with 30 tapes FREE to 1st caller; Multi meter (50k/volt) Micronta 22-214A (like new) \$15; 811A tubes (9) @ \$3.50 each; Antennas 10-15-20 mini quad HQ1(new) \$75 Butternut Vertical 10-160 (you take down) \$25 (free 12ft roof mount tower to 1st person who purchases either antenna: Wayne W6RWV 724 0777 Vista.

(5-25) Yeasu FT-5200 dual band (2m/70cm) mobile ex/cond w/remote head and mobile mount \$395: Phil KC6TYT 944 7741 Carlsbad.

(5-17) Tempo 2020 w/extra VFO \$150; ICOM micro 2AT w/extra batteries, charger, mobile charger + accessories \$200: Alf WB6TAW 941 2428 Vista.

(5-16) Chuscrafft triband \$100; Union Carbine RTTY \$10; MITA copy machine 600D w/paper needs adjustment \$10: Steve W2MRM 451 5690 R.Bernardo.

\*\*\*\*\*-OLD ADS PRINTED ON ODD MONTHS \*\*\*\*\*  
\*\*\*\*\* W A N T E D \*\*\*\*\*

"A radio in every port"

(9-15) Need to copy manuals for Heathkit IG-1271 pulse generator

and AM-1 antenna impedance meter: John WB6IQS 727 3876 Vista.

(9-13) Color monitors which have video and sound inputs to be used in five medical clinics in Mexico. VCR's will be used to play "health topics" to patients as they are waiting to be seen by the doctors: Nash W6HCD 940 1028 Bonsall.

(9-2) BENCHER paddle: Dan WA6HYB 433 4445 Ocsd.

(6-05) FT-243 crystals for 7.010 to 7.050 or somewhere near: Ron W6TUR 465 6129.

(6-2) EX SWAN tech does repair & refurbishing of Swan Xcvrs: John Bruchey, 4910 Verde Dr, Oceanside 92057.

(6-2) SWAN DIGITAL readout accessory DD-76; and circuit board vice: Nash W6HCD 940 1028 Fallbrook.

OLD WANTED PRINTED ODD MONTHS

(3-2) All types of Collins speakers and accessories (old-new): Agent 4-W4ESQ, Stan W9FQN 749 0276 VC.

(2-15) FALLBROOK HIGH SCHOOL will take any and all donations of amateur radio equipment. We need radios, a Tri-band Beam, etc. (it's all tax deductible). Please contact Fritz Schattschneider, KE6EKY, at 723-6357 or Gayle Olson, KM6WF at 723-6402.

PLEASE REPORT UNWANTED ADS TO UR EDITOR! =PARC=

\*\*\*\*\*  
LETTERS to the EDITOR  
UR editor and the board reserve the right to publish/edit all letters.

-----

A nice one page letter was received from Bill-WD6BKC suggesting that net controls announce two minutes before their net that there will be a net coming on frequency in two minutes. The suggestion is a good one. It is even more important that those running the MORSE CODE nets follow this procedure and also make sure that they do not come up on frequency and interfere with a conversation on the frequency without notice.

Nets have preference on our repeaters except for emergency communications but it is not our

intention to be rude (-Ed).

-----

Two letters were received from Charles-N6TEP one covering problems with the PARC evening SDCTN traffic net and the other objecting to the July article, VOLUNTEERS.

The letter on the traffic net was used as part of the picnic seminar on SDCTN. The second on VOLUNTEERS was "tabled" by the PARC Board. A third is printed here.

-----

PSYCHOLOGY of VOLUNTEERS- As the economy progressively continues to deteriorate, and funds to pay people for their services are facing deeper and deeper cuts, volunteers become more and more valuable. In the business world, some people are forced to take on responsibility for boring or otherwise distasteful tasks because they need the money. If they refuse, they can quit or get fired.

The leadership of a volunteer organization has no such power to coerce its members. This is why it takes a different approach to motivate volunteers. Such concepts of goodwill, pride, dedication to a cause, patriotism, altruism, gratitude, kindness, willingness to share, a wish to be needed, receive public recognition, fame, or just the personal satisfaction of being useful, may be the driving forces. The crucial difference between business and volunteer work is that volunteers are self-motivated rather than management-motivated. They must have or be given a personal reason to be volunteers.

Any volunteer-based organization that tries to use cajolery, deceptive mind games, coaxing, sweet talk, snow jobs, humoring, flattery, or any such blandishings, or worse, reproach, debasement, aspersion, derogation or disrespect, to shame members into performing, is destined to failure. Members may stick around for the sake of benefits bestowed by the organization, but will slip into general apathy when it comes to giving something back to the organization.

So it is with Amateur radio. If we can consistently and repeatedly promulgate the enjoyable aspects of serving a useful purpose in amateur radio, we can open up a lot of pathways toward accomplishing our goals in serving the community, or even the Country. One way is to publicize the needs of the community for radio amateur expertise and services, not only in the glamorous field or emergency communications and saving the crews of sinking ships, but in day to day communications. There are many ways. ARES, RACES, MARS, NTS, to mention just a few. The important thing is to make sure our members KNOW about these needs, so they can seek their own activity level in whatever mission area(s) they choose.

It is incumbent upon each of us, particularly those in leadership positions, to ensure that all members have the opportunity to do what it is they ENJOY doing. After all, they are VOLUNTEERS, and as a component force of an experienced radio team, have a lot to offer. Help them and show them, on the air and personally, how much fun it can be to participate in a useful net. Teach them the satisfaction of being the sole carriers of good and important news between family members separated by thousand of miles. Let them experience the tears of joy in the voices of wives and sweethearts who have waited for weeks to hear anything from their loved ones. Let them carry the most often repeated message "I love you and miss you" by landline in person, by answering machine, or autopatch, and let them experience feeling like Santa Claus any day of the year. Then, and only then, I believe, will we really begin to position our organization for the challenges that lie ahead. (de Charles-N6TEP).

-----

I am please to inform you that I have ended my military service and a 2 year separation from my wife and son. However, in moving from the San Diego area, I am leaving a fantastic group of hams. Even tho I

# Amateur Radio Today

COMER  
COMM

DSP 100

## The PC Transceiver

\*General Coverage Receiver 450 KHz to 30 MHz.

\*-10 dBm exciter output for all HF amateur bands. Simple no solder components available to raise power output to 50 or 100 Watts.

\* High Dynamic Range Direct Conversion Architecture with full DSP.

\* Two ISA bus card system, uses an Analog front-end Card and a DSP card for all passband filters and modulation / demodulation.

\* FREE software upgrades.

Call our BBS on (619) 744 4032 for more info and FREE demo software.

Receiver/Exciter + DSP \$695 +tax

COMER COMMUNICATIONS INC.,  
609 Washington Drive,  
San Marcos, CA. 92069.  
Tel (619) 744 7266 Fax (619)744 4745

didn't meet any of you personally, I enjoyed talking to several of you.

Even tho I will be unable to participate in any club events or nets, I would still enjoy reading the SCOPE so please change my mailing address for the remainder of my membership in PARC: Phil Fichte, KD6UAF, Rt #5, Box 963, Blanchard, OK 73010.

I was within 3 miles of the bomb in OKC at the time of the explosion. I ran out to get the HT from the car and instantly heard the locals go into action. An emergency help net sprang into action coordinating help and rescue efforts and has stayed there around the clock directing people and equipment to the most needed areas.

Even tho few hams here like to do much rag chewing, they were all willing to come out of the wood work to help ..Hams are Hams where ever they may be! (73, KD6UAF/5).

-----  
(Dave-KE6PHU) ..greetings from N. Illinois ..have a new house & moved in on day of an ice storm ..now unpacked except for my side of the garage ..now scraping ice off my car.

Ham radio is nowhere near as fun here as back in SDCo ..tallest repeater at 150' ..and operators are not as professional and courteous as you all are ..haven't had my radio on in 2-weeks ..at least I still have my PARC badge.

Let George#2 (AC6HZ) know that my Dad tossed out all of my old tubes. Look for a guy named Stan with a "9" call to pop up one evening in the 1st week of April while he is visiting ..told him about the round table(s) (146.73 & 147.13??) ..best to George #1 and the rest of the group and the club ..73 Dave (de King Henry, WBOYCQ). =SK=

-----  
(Dick-N6QBD) Hello to everyone - and greetings from New Mexico!! It doesn't seem like we've been gone from Oceanside for over 18 months - but time flies when your're as senior as I am.

I sure enjoy reading the SCOPE every month. It's great to keep up with efforts the club is making and real nice to read the name or call sign of a good friend.

Best wishes to the "UnderWater Woman" and the entire field day gang. I'll sure be looking for you all. Maybe Joe, KC6QXU will be on that gang again this year. Best 73's to everyone, Dick Gearhart, KC6QBD. (Dick renewed for 2 years! -Ed) (these last two were found in a seldom visited file ..hence, late -Ed). =SK=

(Cappy-KC6MVG) I intend to keep my Sbct. to SCOPE as I will be flying to North Island Navel Air Station to run special ships for the U.S. Navy. Also North Dakota is my retirement home I have 20 acres

there to grow horz. beams HA HA and I want to know what is going on down here. Here is my new BBS 2m BBS call, SP KC6MVG @ WCOM.#RL.ND.U.S.A.NOAM. CUL Cappy. =SK=

-----  
(James-N6IAP) To all hams of PARC, I have enjoyed the association for the last few years. As usual, I wish I could have done more with the club. Now that I have been relocated to Atlanta, I am going to let my membership lapse. I'll talk to you on the bands, 73, James (it looks as if his address is docjim @ atlanta.com or James Melton, 168 Howell Pointe, Duluth, GA 30136 -Ed). =PARC=

\*\*\*\*\*  
= A T V = de John KD6TLF  
ATV - How to get started with as little as \$140.

See all the fast scan full color action on the Palomar ATV repeater at the club's repeater site. You can watch the PARC meetings, space shuttle missions, see and talk to (via 2m intercom) ATV hams in San Diego, Riverside, LA, Orange and San Bernardino counties. The very active Santiago ATV repeater downlink is on 24 hours a day.

If you have a TV and 2m FM rig, all you need is a down converter, some 9913 coax, and an antenna. For simple homebrew antenna plans and other resources, call me at 747.9431 between 8am-8pm. I am more than willing to help you get started. Contact club member Gene-WB9COY (the antenna man) for commercial converters and antennas or Bill-KB6MCU at club meetings. For a free catalog with more info, call PC ELECTRONICS 818.447.4565

With a 2m rig and a converter working into a TV set, you will be able to see the pictures, talk to those on the ATV repeater, but without a camera and transmitter, you will not be able to send pictures to PARC's TV station ..that comes later if you have an interest in being able to transmit your own pictures.

You can still have a lot of fun because this minimal equipment will

allow you to see other stations. You can talk to those stations that you see using your 2m FM HT or base station on the intercom frequency of 146.430. You can ask the other station to show you his shack and his equipment. Your voice will be broadcast over the PARC ATV repeater on Palomar Mountain even though you are not sending a picture.

(This is the first in a series of articles by John on ATV -Ed). =PARC=

\*\*\*\*\*

### 1 4 6 . 7 0 0 (-) P A C K E T

PARC's packet duplex repeater seems to be working just great. Chev-KD6GURU in University City used his HT Y-530 running 0.5w with a MFJ expandable antenna to work Mike-KD6VHI in Valley Center. There conversation lasted 45 minutes without a "drop-out."

PARC hopes that in cases of emergencies that portable packet stations (stationed at hospitals, command centers, and evacuation centers) will be able to use 146.7 for their communications since it should be one of the clearest DIRECT methods of communicating in the county by packet. =PARC=

\*\*\*\*\*

### S I X T Y Y E A R S

February of 1996 will be the anniversary of the Palomar Amateur Radio Club's 60th birthday having been founded in Escondido in February of 1936.

The club over the past few years has been growing at the rate of almost 80-100 members by July 31st each year and this July 31st we were up to 901 members ..but then on August 1st we dropped because of "end of year" membership expirations (moving, forgot, no longer interested, etc) and we are now only back to 831 members.

Without any new efforts we will probably reach 1000 members sometime within 1996 and it would be really nice to make it 1000 for our 60th birthday celebration.

In addition to our normal recruitment activities of brochures and sample SCOPES (let me know who wants one -Ed), we would have to

institute several new procedures to force the 1000 earlier into February 1996.

The following are some possible suggestions for recruitment:

- 1) Encourage family and friends to become amateurs ..& club members.
- 2) Make sure new/old hams you talk to on the repeaters are invited to club meetings and membership.
- 3) Encourage your amateur friends to sign up. We are much more than a repeater association and we have a full club program.
- 4) Special 1000 recruitment posters that can be posted at work and at public places.

There is also the possibility of going through old membership lists and calling up former club members. There are probably 100's of old members just waiting to be asked to rejoin.

We have access to a data base of hams that we could call or contact.

We could assign club members to monitor our repeaters and pick up the calls and address of potential new members.

You can easily find out if someone is a member by asking him if he receives the SCOPE or saw "something" in the SCOPE? The ARRL says, "If you use a repeater, you should support its operation."

How about 1000 pennies to anyone signing up 10 new members and 1000 more to the person with the highest new member count?

If we accept the challenge and are going to get 1000 members by February 1996, we will have to really start working. We only have October, November, December, January and several days in February to make our MARK. We need 42 members per month or almost 1.5 new members per day. CAN WE DO IT BY FEBRUARY?

Can you give us the names and calls of amateurs you know or who live near you that we could contact?

Is there anyone out there who would like to head up a group for their own local area and "mine" this potential membership. Contact a Board Member if you would like to

help.

WE ARE GOING TO HAVE A THOUSAND MEMBERS SOON! WHY NOT MAKE IT BY FEBRUARY 1996! =831.PARC.1000=

\*\*\*\*\*

### - N E T S -

Net controls should remove the ATV time of 9:30pm on their preambles. Contacts can be made with hams in SDCo and LA at any time during the day. =SK=

THURSDAY HAM HELP NET: Ivan-N6OLE has indicated that he needs someone to run the 4th Thursday of the month Ham Help Net and could use several backup controls. A HH net control should probably have some experience in electronics, with PARC's many nets, but most importantly, be able to direct the net in such a way that the person asking the question is matched up with someone on the net who can answer the question.

The SAN DIEGO COUNTY TRAFFIC NET (SDCTN) also needs net controls as well as net members to deliver traffic throughout SDCo.

CONTACT ANY NET CONTROL AFTER THE NET OF INTEREST TO YOU TO VOLUNTEER. =SK=

It has been reported that Gordon Fritts, W6MYV, who conducts that Friday evening 147.075 code net, had a light stroke around the middle of August. =SK=

ALL NET CONTROLS should consider coming on several minutes before their net to announce that there will be a net on frequency in a few minutes. This is especially important with the CW NETS since those stations come on frequency in the KEY DOWN MODE for long periods of time while sending the code.

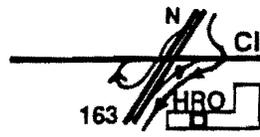
NET CONTROLS ARE NOT TO BROADCAST ON TOP of another station even though they are scheduled for a specific time-slot. BREAK the conversation, announce the upcoming net, and give them time to pick another club or simplex frequency. Of course, emergency communications always TAKES PRIORITY! =SK=

Net controls are reminded that when they hear "NO BEEP" at the end of a transmission that it means that the "TIME OUT" timer has been



# HAM RADIO OUTLET

"LARGEST HAM OUTLET IN THE WORLD"  
ALL MAJOR BRANDS IN STOCK NOW!

163  Clairemont Mesa Blvd  
HRO  
VISA







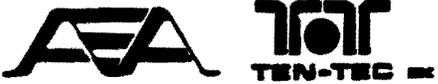










Open: 10a.m. - 5:30p.m. Monday thru Saturday 560-4900  
or toll free 1-800-854-6046

## 5375 KEARNY VILLA ROAD, SAN DIEGO

turned off. Sometimes the timer is turned off under interference conditions. =SK=

PARC is looking to spread out net control loads so that more club members can receive the joy of participating. =SK=

If a net helps ONE person, the net has been worthwhile. =PARC=

\*\*\*\*\*  
**- NEWS -** etc.

Contributions by the 20th  
Please send "newsworthy" items 2-UR Editor Via PALBBS, letters, notes, or hand them to me at club meetings.

Larry Ruegseger, WA6UTQ, participated in the ARRL Educational Workshop at the recent ARRL SW Div Convention and chaired a roundtable. =SK=

The Facetious Net members will have supper at the Encinitas COCO's, Monday, October 30th, at 6pm. All PARC club members are welcome. Henry-WBOYCQ will answer any questions you might have. =SK=

The National Weather Service will be moving its office from downtown San Diego to Rancho Bernardo in October at 11440 W.

Bernardo Court.

They will be starting up a doppler radar station at Scripps Ranch that will allow it to monitor actual rainfall and wind patterns at specific locations. Th is radar station, one of 120 all over the country, willbe functioning by Christmas (and will probably clobber some of our repeaters?? - Ed). (de Valley Roadrunner Sep13'95). =SK=

\*\*\*\* Duane Heise, AA6EE, sent in the following AP release:

Date	\$/oz	%	yrs
07-01-85	2c		
10-03-17	3c	+50	32
08-01-19	2c	-33	2
08-06-32	3c	+50	13
09-01-58	4c	+33	26
01-07-63	5c	+25	5
01-07-68	6c	+20	5
05-16-71	8c	+33	3
03-02-74	10c	+25	3
12-31-75	13c	+30	1
05-29-78	15c	+15	3
03-22-81	18c	+20	3
11-22-81	20c	+11	0
02-17-85	22c	+10	4
04-03-88	25c	+14	3
02-03-91	29c	+16	3
01-01-95	32c	+10	4
??-??-??	??c	??	??

If PARC would have sent the December SCO in January it would have cost us about \$3.50 more to mail the 800+ SCOPES or about .5c per SCOPE which is about a 5% increase in the cost of mailing for us. =SK=

The rope used by PARC at Field Day and at the Repeater Site is a double braided black DACRON/Polyester antenna rope.

- .. .3/32" 260+ pounds at 5c/ft
- .. .3/16" 770+ pounds at 8c/ft
- .. .5/16" 1790+ pounds at 13c/ft

The 3/32" is good for guying verticals. The 3/16" is good for guying most wire antennas while the 5/16" is good for heavier wire antennas and towers. We sell our surplus rope.

RFI: BMW(Jun92) RF effects not tested. Warranty coverage void if non-BMW approved accessories cause damage (ARRL).

RFI: ALFA ROMEO(Sep92) No info available. Contact Fiat Auto R&D USA, 39300 Country Club Dr, Farmington Hills, MI 48331-3473 (ARRL).

RFI: Chrysler(Ju192) RFI resistant mods are available if EMC problems arise. 92-3 vehicles with "JLW" sales code have suppression

# PARC Membership Application

AMATEUR CALL
CLUB MEMBERSHIP? <input type="checkbox"/> NEW <input type="checkbox"/> RENEW
ARRL MEMBER? <input type="checkbox"/> YES <input type="checkbox"/> NO
LAST NAME
FIRST NAME
STREET ADDRESS
CITY
STATE ZIP
HOME PHONE
WORK OR OTHER PHONE
HAM LICENSE EXPIRES
FAMILY MEMBERSHIP (List other calls and names)
CLASS OF LICENSE N T T+ G A E

Mail this form with your check to PARC, P.O. Box 73, Vista, CA 92085-0073 or hand to membership chairman at club meetings. We prefer checks to cash, it's safer and you have a record. Dues are \$12 a year which includes \$3 for the Scope, or \$21 for a family all at the same address. Consider paying for two or three years at a time to reduce the work for the membership chairman.

Name, call and complete address are required. Telephone number is requested but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

included. Installation of non-Chrysler equip may void coverage of damage caused by such equip (ARRL).

RFI: ISUZU(Ju192) No info available from SE Regional Office. Better check (ARRL).

RFI: Mercedes-Benz(Ju192) Extensive EMI tests conducted in labs. Service Info MBNA 54/35 provides installation guidelines. Moderate pwr is suggested (100w below 30Mhz, 50w 30-500Mhz, 10w above 500Mhz). Dealers ready to deal with problems (ARRL).

=PARC=

\*\*\*\*\*  
- P A R C B O A R D -  
Pres : Art McBride . KC6UQH 7418143  
VPres: SybilA11bright W6GIC 2784284  
Sec : David Doan . KC6YSO 2864888  
Treas: JenniferThieme KM6WG 5991134  
RptTec:John Kuivinen WB6IQS 7273876  
SCOPE :Stan Rohrer . W9FQN 7490276  
MemShp:Ralph Powell KC6WAN 7277415  
Member:Mike Doyle . AB6QT 7421573  
Member:MarvinMunster WB6PKK 7472223

\*\*\*\*\*  
VE Program: Rusty . AA6OM 7475872  
ATV/Edu. : Bill . KB6MCU 5822313  
PALBBS : Norbert KJ6ZD 6305538  
\*\*\*\*\*

Sep. SCOPE FOLD/STAPLE  
Editor:Stan Rohrer-W9FQN 30311 Cir.  
R.Ln.,Villy Ctr CA 92082 . Forms  
KC6WAN,Ralph Powell,Printing,Labels  
and Refreshments.

WA6UTQ . Larry Ruegseger Folding  
N6WQR Bernice Rosenberg Folding  
WA6Y00 . Harry Hodges . Staples  
N6TCB . Jerry Carter . Labels  
KB6NMK . Jo Ashley . Labels  
Started at 12pm, ended at 1.45pm  
\*\*\*\*\*

Oct.'95 S.Call?: \_\_\_\_\_  
(Sponsor's call not required)

\*\*\*\*\*  
S C O P E, US Post Office #076530  
Published monthly by: = PARC, Inc.=  
Membership \$12/yr including \$3 for  
SCOPE inside SDCo (outside \$4).

POSTMASTER: Return to -> S C O P E  
P.O.Box 73,Vista, CA 92085-0073

2nd Class Postage Pd  
Vista CA 92085-9998

\*\*\*\*\*  
Pg.Yr IN THIS ISSUE  
\*\*\*\*\*

1-109 Meetings, CARES, AUCTION . .
2-110 Picnic, Board Mtg, AGOGO . .
3-111 SK's-WB6HFE-K6UV-W6ABT, Pres
4-112 Experts, Membership . . . .
5-113 Repeater, Patches, Work Party
6-114 VE Test & Request,TNX,Donate
7-115 ForSa1l, Wanted . . . . .
8-116 Letters . . . . .
9-117 Letters, ATV . . . . .
10-118 146.7(-), Sixty Yrs, Nets .
11-119 News . . . . .

\*\*\*\*\*

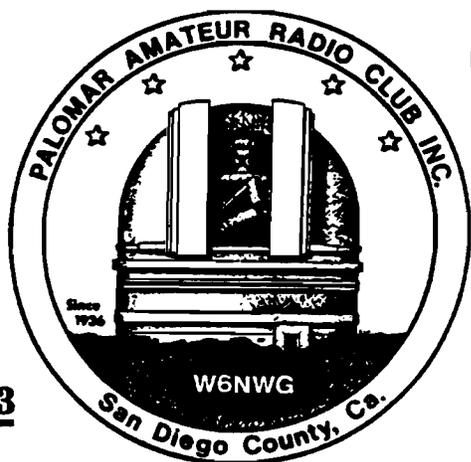
Phone Codes  
Deliver To

Vista	Mira Mesa	La Mesa	Fallbrook	Membership Expires	License Expires
Palomar	Mountain			PRC yy mm	LX yy mm

W6NWX W6NWX W6NWX W6NWX

# Scope

## W6NWX



### Palomar Amateur Radio Club Inc.

Post Office Box 73, Vista, California 92085-0073

NOVEMBER \*\*\*\*\* 1995 \*\* 59 YEARS OLD  
Dues \$12, Volume XXI Number 11  
Coffee 7pm, Mtg. 7:30 pm @ Carlsbad  
Safety Center(CSC), Palomar Airport  
Rd.to N.on Camino Real(S11),east on  
Faraday .25 mi,left to CSC,TB 14F6.  
===== Talk-in 146.73 =====

OPEN REPEATERS / CLOSED AUTOPATCHES  
PARC PALOMAR MT.REPEATERS(W6NWX):  
PARC Trustee of W6NWX: Ron,WI6B  
\*52.680- W6NWX,-.500 MHz(test)  
Autopatches(4): 146.730-, \*147.075+  
\*147.130+, \*449.425-  
PKT: 145.050s PALMAR W6NWX-1 Open  
(linked PARC 9600 METROLINK)  
146.700(-) Duplex BBS/EMG use  
145.070/146.700 W6NWX-3/PALBBS  
KJ6ZD SYSOP(QTH Vista)  
ATV IN:915 WBFM,919 AM,2441.25 WBFM  
Intercom: 146.430, PL 79.7 NBFM  
OUT: 1241.25 AM ///// \*=107.2Hz  
OTHER:\*224.380- KK6KD;\*224.9-WD6HFR  
\*146.175+ WA6IPD, FalbrkPatch

\*\*\*\*\* C A L E N D A R \*\*\*\*\*  
Nov 1 Wed.CLUB MEETING 7:30pm CBSC.  
Nov 5 Sun.Rptr Site Work Party PMt.  
Nov 9 Thu.PARC 7pm Board Mtg WB6IQS  
Nov11 Sat.PARC VE Tests Carlsbad SC  
Nov24/28 SCOPE (deadline/mailling)  
Oct29 Sun. HR ROUND UP Missile Park  
Oct30 Mon.FacetiousCOCO's6pmEncinit  
Feb'96 === 60th Anniversary ===

\*\*\*\*\*  
LAST MEETING  
Me=Members Gu=Guests To=Total  
'95 Oct Sep Aug Jul Jun May Apr Feb  
Me= 117 134 158 127 113 131 106 98  
Gu= 21 17 33 17 18 9 14 9  
To= 138 151 191 144 131 140 120 107  
(Bring or invite a friend)

A great time was had by all with  
over \$1,200 changing hands. PARC  
came out with approximately \$366 as  
their share from 10% of the sales  
and donated equipment. An addi-  
tional \$160 came in B4 the auction

for a total of \$526.  
Thanks to Marvin-WB6PKK and his  
crew for a job well done: Ellen-  
N6UWN, Jennifer-KM6WG, Art-KC6UQH,  
David-KC6YSO, and John-WB6IQS  
(still no dancing girls).  
And of course, Steve Kerwin-  
WA6CDU of Escondido, did a  
fantastic job running through 5-  
rows of tables (4-wide) of  
equipment at break-neck speed with  
his humorous remarks. It is really  
difficult selling so much equipment  
in 2.5 hours. =PARC=

\*\*\*\*\*  
N O M I N A T I O N S -  
The Nominating Committee will  
give its report at the November  
meeting.  
Nominations will be accepted  
from the floor but you must have  
the approval of the person you nom-  
inate.

Elections will be held at the  
December meeting. =PARC=  
\*\*\*\*\*  
NEXT MEETING VPres. Sybil-W6GIC  
PLEASE COME EARLY and help set  
up chairs ..and STAY A FEW MINUTES  
to help put away the chairs. WE  
NEED HELP!

Club meetings start at 7:30pm  
but many come at 7pm to talk to  
friends, get a good seat, look at  
items on the junk table, see equip-  
ment as it is being set up, watch  
demos (ie. packet), and pick up  
some of the FREE magazines.

The program for November will be  
Fried Heyn, WA6WZO, talking on ARRL  
matters, October meeting in St.  
Louis, and answering questions. As  
always, Sandy Heyn, WA6WZN, will  
assist.

John Tyler, N6URW, will talk on  
RACES and will have the new RACES  
van there for our inspection.

SHOW & TELL: Please see me  
before the meeting to reserve time  
for your SHOW & TELL item(s).

\*\*\*\*\*  
A U D I T KC6WAN WI6B KK6LX  
Every 2-4 years the PARC  
requests an audit of the trea-  
surer's books. This year the audit  
was done by Ralph-KC6WAN, Ron-WI6B,  
and Benton-KK6LX. Ron and Benton  
were previous club treasurers and  
Ralph has had considerable  
financial experience with a large  
company.

The following is the result of  
our Treasurer conducted on October  
6, 1995.

- - - -
- Among other things we did the  
following:
- 1.Verified that prenumbered checks  
have been and are used.
  - 2.Verified that bank balances  
reported on the July 1995 statement  
presented to the Board reconciled  
to the Bank statements.
  - 3.Reviewed the cancelled checks as  
to whether the payees and the  
amounts were reasonable considering  
the nature of the Club's activ-  
ities.
  - 4.Determined that a bank reconcili-  
ation has been done for each month.
  - 5.Verified that insurance premiums,  
property tax payments, post office  
box rental and payment to the State  
have been paid at appropriate  
times.

Further we discussed the follow-  
ing subjects and concluded as  
indicated:

- 1.Should we maintain an accounts  
payable ledger? NO, NOT ENOUGH  
TRANSACTIONS.
- 2.Should we maintain an accounts  
receivable ledger? YES, BUT NOT  
NECESSARILY IN THE GENERAL LEDGER.

3.Since significant facts about our property and equipment are a matter of institutional memory and are not periodically reported to the Board, should we carry such assets in our books and report them monthly in the financial statements presented to the Board? NO. NO PARTICULAR ADVANTAGES OBVIOUS.

4.Should prepayments be booked as such? NO. TOO FEW TO BE OF SIGNIFICANT VALUE.

5.Procedures respecting billing and collecting from advertisers: SEE #2 ABOVE.

6.Procedures respecting handling money for coffee table, annual auction, monthly equipment sales, badges, caps, membership dues, and petty cash. DEEMED OKAY AS NOW PRACTICED.

7.Should more emphasis be placed on insurance matters, our status under law respecting the magnitude of our revenues, and exposure to possible income tax assessments? YES.

8.The processing of expense statements; the delegation of authority to individuals to spend money. WE RECOMMEND THE BOARD DELEGATE SPECIFIC AUTHORITY TO SPECIFIED POSITIONS TO SPEND MONEY ONCE A PROJECT HAS BEEN AUTHORIZED AND FURTHER THAT SPECIFIC AUTHORITY BE GIVEN THE TREASURER RESPECTING REIMBURSING FOR CERTAIN KINDS OF EXPENDITURES.

9.Is our policy respecting investments appropriate? POSSIBLY NOT. IT MAY BE PRUDENT TO INVEST A GREATER PERCENT OF THE CLUB'S CASH.

We thank our treasurer, Jennifer Thieme, for her cooperation. She had her records well organized and in excellent condition and was able quickly to place her hands on any piece of information we asked for.

(A complete copy of the audit can be seen at the next club meeting. The board will discuss the audit at the November Board meeting which club members may attend and receive (1) activity point -Ed). =PARC=

Oct. BOARD MEETING - BOARD: KC6UQH W6GIC KC6YSO

KM6WG WB6IQS W9FQN KC6WAN \*AB6QT WB6PKK (\*ABSENT).

OTHERS: KE6KNN, KB6MCU (ATV & Training), N6UWW (past FD Chair.), and KI6JM-Jack (advisor).

The 7pm meeting was at John-WB6IQS's QTH and started at 7:10 and ended at 9:59pm.

John served an apple drink and delicious cookies.

- SECONDS -

DISCUSSED: Year 17% completed and most accounts near where they should be for this time of the year; \$ 4,900 Equip. Bal, \$ 5,900 Gen. Purpose, \$ 3,000 Pre. Paid, \$ ??? Post Office, \$ -0- ATV, \$ 100 PALBBS; TASMA coordination group problems and new group being formed; 1st reading of treasurer's audit; FD equipment problems; donation of SS guy cable, commercial grade tower and possible metal buildings; ATV linking progress; meeting programs; club history in SCOPE; received \$160 de sale donated transistors; letter to Palomar Mt. Fire Dept; some loan sheets signed; rptr site phone line problems; rock on drive at rptr site (\$350); parking problems at rptr site; membership 825; new 147.130 repeater construction offer (KB6MCU); 146.7(-) off the air; trailer modification (KB6NML & KE6KNN); ARRL tapes; brochures; Auction details; ??? for PARC brochure being printed; 1,000 members drive; simplex repeater use; and sale of HXL-1 amplifier problems.

APPROVED: Next board meeting at Ralph-KC6WAN's QTH in Vista; \$20 PALBBS CALLSIGN LOOKUP; \$25 for trailer rental; \$135 W9FQN's expenses (patch phone, misc, repeater); and \$400 for two new 2m WACOM pass cavities;

Contact a board member 4-info or C Secretary 4-minutes. =PARC=

- AGOGO - K6HAV/KI6JM/W9FQN (11-90) ..at Lincoln Middle School ..Fried-WA6QXO (WA6WZO -Ed) SMDiv Director talk on ARRL ..59 members and 27 guests attended October meeting ..repeater site zoned RR-35 ..comments on KOJPK on

146.73 ..AJ-KB6NML gave stirring rendition of Star Spangled Banner on Flugle Horn at SWDiv Convention banquet ..

(11-85) ..Mexico City earthquake with Larry-KB6DNR (WQ6V) and Dennis-N6KI handling HF traffic (others WB6ZJA, WA6IPF, N6INN & WB6HMY) ..Ralph-K6HAV's station is PARC emergency station ..Oct mtg authorized Packet Radio Voice Net on 146.73 .. spur oscillation from Mexico jams 146.73 rptr ..145.05 pkt digi to be put up soon ..initiated equipment fund within PARC budget ..looking into activities for 50yr year birthday ..statement of ownership .. =PARC=

STATEMENT of OWNERSHIP, MAN., & CIR.

1A. SCOPE		
1B. # 0 7 6 5 3 0		
2. 09 - 25 - 95		
3. Monthly (12 issues/yr)		
4. PARC Inc., 30311 Circle R Lane Valley Center CA 92082-4806		
5. PARC Inc., 30311 Circle R Lane Valley Center CA 92082-4806		
6. Pub:Stan Rohrer,30311 Cir. R Ln. Valley Center CA 92082-4806 Ed: Stan Rohrer,30311 Cir. R Ln. Valley Center CA 92082-4806 Managing Ed: Stan Rohrer (above)		
7. Palomar Amateur Radio Club, Inc. P.O. Box 73, Vista CA 92082-0073		
8. No Bondholders, mortgagages,etc.		
9. Status has not changed in 12 Mo. X= Ave # Cpy ea. issue last 12 No. Y= Actual Cpy last issue (Sept 94)		
10.Extent of Circulation X Y		
A. TOTAL COPIES(net)	840	835
B. 1. Paid/requested	0	0
2. Mail Subscription	776	785
C. TOTAL PD and/or Req.	776	785
D. Free Distribution(mail)	34	32
E. " "(outside the mail)	30	18
F. TOTAL Free Dist.	64	50
G. TOTAL DISTRIBUTION	840	835
H. Copies not distributed		
1. Office	0	0
2. Returned	0	0
I. TOTAL	840	835
% Pd and/or Requested	92%	94%

Statement printed Nov.95 SCOPE Editor: Stan Rohrer W 9 F Q N Signed: Stan Rohrer =PARC=

\*\*\*\*\*  
PRESIDENT's WAVELENGTH, Art-KC6UQH

The long awaited Field Day results are in. PARC is Number Three, Category 5A. Being number three in the Nation is not what we wanted but it does give us some room to move up. Looking at the scores however is somewhat depressing. First place went to W0IN with 5608 raw contacts (Q'S) and a total of 16154 points. Our old rival Huntsville, K4BFT with 5304 Q'S and 15892 points was second. Our score was 3773 Q'S and 12510 points. K7TR was fourth with 3671 Q'S and 12012 points.

In analyzing the data it appears that the top two stations made many more phone contacts than we did and I suspect most of those contacts were on VHF as the HF bands were in the bottom of the Sun spot cycle this year. Of the four above mentioned stations we had the best Q'S to point ratio of 3.315 points per Q. W0IN had the lowest ratio of 2.880 points per Q. Could we have done better? Yes. Would it have made a difference? Probably not. The Eastern part of the U.S. has many population centers within VHF range. We have one, Los Angles. They do not have the clutter from foreign broadcast stations in the 40 Meter phone band to deal with, and this year the West coast experienced a one way propagation phenomena on 20 Meters in the early evening where no contacts to California stations were heard. We did hear many stations working other stations east of California. In view of the band conditions and our geographic location I feel we did very well. Our high point to Q'S ratio suggests that our C.W. stations performed well (each C.W. contact counts as 2 points under Field Day rules). I reviewed the data with Dennis, N6KI and we both agree that even if every station performed at 100 percent, we would still be in third place.

Considering as we had many new operators, I think we did an outstanding job and I hope H.F. conditions will give us a level playing

field next year. The issue of population density within VHF range needs to be addressed, as the current rules favor the Eastern part of the U.S. I would feel much better if we had a level playing field in future years. If mother nature delivers us a bad hand we can except that, but their is no way we can create another Los Angles 40 miles out into the Pacific Ocean!

I dislike the lid's that run enough power on satellite to be two full "S" units above the beacon and the TRW station who besides running excess power was rag-chewing before the end of Field Day for 20 minutes while I was waiting to make a contact. That had to be the most frustrating contact I made on Field Day. Perhaps a rule change on ERP for satellite operation might help, but the maximum contacts that can be made with the current satellites is about 100 Q'S and that difference will not do much for winning Field Day. I propose that AMSAT create a lid of the year award for the worst offending station. I would be happy to nominate W6TRW for 1995.

Juan, KE6KNN and A.J., KB6NML have offered to help refurbish the PARC trailer. I hope to get this project under way soon and I am looking for additional people to help Juan and A.J. Juan has agreed to oversee the project and we will all have an opportunity to see the RACES Communications van at our November General Meeting. This will give us some ideas on how to set up operating positions and the arrangement of the radio equipment in our trailer. I sure hope we have less antennas.

TASMA, The group that coordinates our 2 Meter repeaters has again gone into the fission mode. Records lost, new Officers, and a new Technical Committee, Etc. Our Board of Directors will be monitoring the problems and welcomes all comments on this or any other issue from our membership. I anticipate all of us will hear more than we want to about the problems of TASMA via NEWSLINE and articles

written in Amateur Radio publications. I encourage all PARC members to use all of our repeaters as much as possible during this period of instability. We need to show usage in order to not lose the coordination of our 2 Meter repeaters. Using 146.730 to meet, and then move to one of our other 2 Meter repeaters is a good suggestion and will give our other repeaters more use.

As a reminder, the San Diego County Traffic Net needs traffic and we all need the practice. Please plan to use it for some of your Holiday Greetings this year. Happy Thanksgiving to all and C U November First.

73, Art, KC6UQH

\*\*\*\*\*

- N E T S -

Net controls should remove the ATV time of 9:30pm on their preambles. Contacts can be made with hams in SDCo and LA at any time during the day. =SK=

The SAN DIEGO COUNTY TRAFFIC NET (SDCTN) also needs net controls as well as net members to deliver traffic throughout SDCo by voice and packet.

CONTACT ANY NET CONTROL AFTER THE NET OF INTEREST TO YOU TO VOLUNTEER. =SK=

It has been reported that Gordon Fritts, W6MYV, who conducts that Friday evening 147.075 code net, had a light stroke around the middle of August. Eric-K06IQ has consented to take over the Friday net but we still need Net Controls who can send CW via computer once a week so that we have "spare" NCs when we need them. =SK=

ALL NET CONTROLS should consider coming on several minutes before their net to announce that there will be a net on frequency in a few minutes. This is especially important with the CW NETS since those stations come on frequency in the KEY DOWN MODE for long periods of time while sending the code.

NET CONTROLS ARE NOT TO BROADCAST ON TOP of another station even though they are scheduled for a specific time-slot. BREAK the

conversation, announce the upcoming net, and give them time to pick another club or simplex frequency. Of course, emergency communications always TAKES PRIORITY! =SK=

Net controls are reminded that when they hear "NO BEEP" at the end of a transmission that it means that the "TIME OUT" timer has been turned off and there is NO PL REQUIRED. Sometimes the timer is turned off under interference conditions. =SK=

PARC is looking to spread out net control loads so that more club members can receive the joy of participating. =SK=

If a net helps ONE person, the net has been worthwhile. =SK=

Your editor receives many newsletters from all over California and sees other newsletters from other states. Most clubs operate 0-3 nets with possibly 3-7 net controls while PARC is able to operate 13 nets with approximately 42+ net controls. Of course, having a membership of over 900 helps along with the operation of four repeaters with all of the nets being on three of them. There are no nets on the 449.425 repeater. =SK=

PARC's nets are ONE of the reasons that our membership has increased so rapidly these past few years while other clubs have lost members or have just held their own. =SK=

SAN DIEGO COUNTY TRAFFIC NET (SDCTN): Charles-N6TEP and Stan-W9FQN will act as co-managers until the "dust" settles.

Charles has devoted a lot of time, effort, and expense to PARC's SDCTN over the time he was net manager, and as a net control he has delivered large numbers of messages by phone, autopatch, and by cards in some cases. He has probably delivered more messages in any equivalent time of any PARC message handler in the history of PARC. There have been times when the PARC autopatch computer would have the whole screen filled with "NATIONAL TRAFFIC SYSTEM MESSAGE" notations from Charles's SDCTN autopatch

calls. SDCTN net controls should be prepared to "step in" and take the net if the regular net control is unable to conduct the net. THE TRAFFIC MUST GET THROUGH!

Club members are reminded that there is the possibility of RTTY being on the 146.730 repeater after the 8pm SDCTN Net each evening when there is a lot of traffic that needs to be passed. RTTY is approved for SDCTN messages after the net up until 8:55pm. =SK=

The following is an attempt to bring our net controls up to date. If there are any changes or corrections, please let your editor know about them ASAP so that corrections can be made:

SDC TRAFFIC NET(SDCTN) 8pm 146.730  
Mon Pat Ryan, Chula Vista KC6VVT  
Tue. Bob Byrnes, Ramona KE6MTT  
Wed. Juan Lopez, Oceanside KE6KNN  
Thu. Warren Lincoln, San Marc. W6EYP  
Fri. Paul Merrell, San Marcos KD6JXY  
Sat. \_\_\_\_\_ open \_\_\_\_\_  
Sun. Charles Miele, San Marcos N6TEP  
Co-Managers: N6TEP and W9FQN

MORSE CODE NET 7-8pm ..... 147.075  
Monday Ed Moore ..... KE6WDE  
Tuesday Harry Hodges ..... WA6Y00  
Wednesday Paul Christensen . WA6TIL  
Thursday Duane Naugle ..... K06BT  
Friday Eric Tillery ..... K06IQ  
Managers-- Paul-WA6TIL / Stan W9FQN

SUN(AR)(E)MERCENCY (S)ERVICE 146.73  
Jo Ashley ..... KB6NPK  
Frank & Mary Lee Lowden ... N6WEF/G  
Nash Williams ..... W6HCD  
Stan Rohrer ..... W9FQN  
Others: W6JSP, AA6UU, KK60T, N6QQF  
WA6UTQ, KE6DFA, K06DV  
Manager---Stan Rohrer ..... W9FQN

SUNDAY SAILORS NET 10am ... 146.730  
Larry Davis ..... W6QCA  
Mark Moskowitz ..... (alt).... AA6TR  
Manager---Larry Davis ..... W6QCA

SUNDAY MARA EMERG.SERV.8:30p147.130  
Cathy Mendez ..... KE6IQU  
(alt) Blackie Blackstock .. KE6IQQ  
Manager---Bob Squires ..... N6AFB

SUNDAY THIS WEEK IN SD 9pm 146.730  
Manager---Paul Merrell ..... KD6JXY

MONDAY EVAC NET 6:45pm .... 147.130  
Vern Leming ..... AA6UU  
Patty Leming ..... KD6DPJ  
Scotty Haskell ..... KH6TL  
Nash Williams ..... W6HCD  
Manager---Scotty Haskell .... KH6TL

MONDAY MICROWAVE NET 9pm .. 146.730  
Kerry Banke ..... N6IZW  
Ed Munn ..... (alt)..... W60YJ  
Manager---Kerry Banke ..... N6IZW

TUESDAY VOICE PKT NET 9pm . 146.730  
Paul Williamson ..... KB5MU  
Roy Davis ..... (alt).... WB9RKN  
Manager---Paul Williamson ... KB5MU

WEDNESDAY SPANISH NET 9pm . 146.730  
2nd Wed Nash Williams ..... W6HCD  
4th Wed Stan Rohrer ..... W9FQN  
Manager---Stan Rohrer ..... W9FQN

THURSDAY HAM HELP NET 8:15p 147.075  
(includes the license theory net)  
1st Thur David Doan..... KC6YSO  
2nd Thur Joe Lapine..... N6YMD  
3rd Thur Mike Doyle..... AB6QT  
5th Thur Ivan Kemper(open). N60LE  
Manager---Ivan Kemper..... N60LE

THUR. COMPUTER HELP NET 9pm 146.730  
1st Thur. ....open.....  
2nd Thur. ....open.....  
3rd Thur. Paul Merrell ..... KD6JXY  
4th Thur. ....open.....  
5th Thur. ....open.....  
Manager---.....open.....

KING HENRY's FACETOUS NET . 147.130  
(every evening after 10:15pm)  
Henry Kirschner ..... WBOYQC  
George Uminski ..... K6Y6K  
Manager---Henry Kirschner .. WBOYQC  
- - - - -  
=PARC=

\*\*\*\*\*  
= A T V = #2 de John KD6TLF  
Here are some more things you can see and participate in on the PARC ATV repeater with a minimum of equipment.

Now included with L.A. is San Bernardino, Riverside, San Diego, and Orange counties. Las Vegas is also now linked to the system. Along with ragchewing much of the

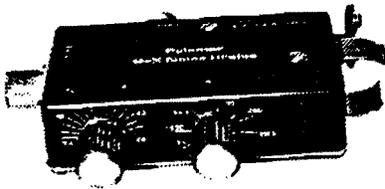
# Radio and Test Equipment Repair

All Makes Reasonable Rates

# Lou de Beer

ND6W  
(619) 437-8351

## R-X Noise Bridge



- Learn the truth about your antenna.
- Find its resonant frequency.
- Adjust it to your operating frequency quickly and easily.

If there is one place in your station where you cannot risk uncertain results it is in your antenna.

The price is \$79.95 in the U.S. and Canada. Add \$4.00 shipping/handling. California residents add sales tax.



Send for FREE catalog describing the R-X Noise Bridge and our complete line of SWR Meters, Preampifiers, Toroids, Baluns, VLF Converters, and Loop Antennas.

# PALOMAR ENGINEERS

Box 455, Escondido, CA 92025  
Phone: (619) 747-3343

ATV activity is technical help (lots!) and project Show and Tell.

Repeater work party videos are shown on a regular basis as the system grows.

Weekly ATV nets-  
8:00pm Monday Mt. Wilson  
8:00pm Tuesday Santiago Pk (includes Newsline video)

Weekly morning coffee nets are held every Sunday, Monday, Tuesday, and Thursday mornings at 8:00am. The Thursday A.M. nets also include a video version of Newsline.

All that is needed is-  
1.2GHz antenna & 1.2GHz converter  
VCR with output on Chan??  
Video monitor (color/B or W) or a TV set (computer monitor)  
2m transceiver on 146.430s + PL

Contact Gene-WB9COY for converters & antennas and PC ELECTRONICS at 818-447-4565 for a free catalog with information on PARC's ATV repeater. See Nov'95 QST magazine pg.71 for more info.

With this simple equipment you will be able to see the ATV pictures and talk to those sending the pictures. Sometime in the future you might want to consider getting a camera and transmitter ..but with simple equipment you can have a ball seeing and talking to other ATVers.

If you have questions, give me a call at 747-9431 between 8a-8p.  
=PARC=

### REPEATER TECHNICAL John-WB6IQS

The 146.7(-) packet repeater was off the air for almost a week and the cause is unknown. Mike-AB6QT took a quick look at it when he was working on the 146.730 repeater and thought that it might be a connector plug problem which he tried to fix.

After looking at the repeater and the TNC, I ran a check of the two tones being used and set them to the proper level and deviation. A "hard" reset was done and everything seemed to work fine after the tone checks and the reset.

The next day 146.7 packet again stopped working.

There has been some talk of

building up an emergency 146.7 which can easily be put on the air when there are problems such as we have just experienced. =PARC=

Jerry-WB6FMT PATCHES Stan-W9FQN

In running an autopatch for a stranded motorist, do not hand the mike to them to talk unless it is absolutely necessary. YOU are the experience communicator. Get the data first and then YOU give it to the person on the other end. YOU know what important information is needed (location). YOU know that you will be timed out of the patch in 120 seconds. YOU understand the way the patch works. DON't turn the mic over to someone who does not have your knowledge of what is needed and how things work. =SK=

Patch section #3 had a "gliche" on the telephone line for 24 hours resulting in a cycle of ((tick-tick-tick (normal), dial tone)), then ((tick-tick-tick (not normal), dial tone)), with this being an "endless" cycle. The next day everything was "normal."

Then on Sep21-24th again #3 was down. There appears to be a "loose" connection in the telephone connection. At the end of Sept it was down again for 24 hours and now it appears to be a mic cable or radio connector problem. =PARC=

### WORK PARTIES Stan-W9FQN

THE NEXT WORK PARTY WILL BE SUNDAY, NOVEMBER 5th. MEET AT MOTHER'S KITCHEN PARKING LOT AT 10:30AM (leave your parking lights on if you don't have a Ham antenna on your car). REGISTER WITH STAN-W9FQN AT THE NEXT MEETING OR CALL HIM AT 749-0276 so that if the work party is cancelled, you can receive proper notification. Please bring:

- a) lunch, snacks, drinks,
- b) 5-10gal of water for our little tree seedlings."

The weather could be bad so make sure you check with Stan-W9FQN 749-0276 before running up the mountain. We could have rain, wind, or cold in November.

SCHEDULED: tree trimming; more tower insulating; more alarm work;

cleaning buildings; and of course, painting everything that doesn't move ...and some things that do!

There is also the possibility of more tower guying.

#27(10-08) Another great day on the mountain some workers arriving at 10am and leaving at 7pm with a beautiful full moon coming up over the mountain.

Randy-KE6YPQ helped check out the irrigation system, vacuumed the block repeater building, assisted with the new wire cable, and helped where needed. Randy (10 years old) was a great help.

Bill-KC6YOX checked out the 6m repeater and was a HELPER.

Zac-KE6MQB and Dennis-KE6MQC were again on the NEW security project and with all of the activity around the repeaters they were not able to make final connections so we will have to be content with the old system for a while longer.

Dale-KC6WZI again showed his talents by repairing a ladder, installing three new emergency antenna supports on the freezer building (one was used almost immediately), and as a HELPER with the new guys.

Bill-KB6MCU checked out the 147.13 repeater problem(s) and found a "high-resistance" fuse holder which was dropping the power to the repeater. He thinks the current problems have been repaired. Bill also checked out the new 6m vertical and helped AB6QT unsolder some Motorola parts.

David-KC6YSO HELPED with almost everything.

Matt-KE6PUU who just returned to SD aboard his Navy ship (boat, vessel, barco or whatever they are called these days) was able to hit our repeaters from 40 miles off the coast of Ensenada. Matt visited the site with his wife and son and were given a tour by David.

John-WB6IQS helped with the repeater projects and handed out advice as needed to those working in the repeater buildings.

Art-KC6UQH was heavily involved with testing the repairs of the repeaters being worked on and we

think that we have most of the problems solved.

AMERICUS UNITED installed a 2m beam for a possible link to a Mexican repeater near Mexicali. The link works between 224.38 and 2m but needs to be tested at PARC's site. The link is not turned on without permission from PARC since the required filters have not been installed nor has the technical committee run intermod and desense tests. Jorge-KK6KD was assisted by Raphael-KE6MRR, Alfredo-KD6IYX, and Daniel-KD6DKM.

Joe-KE6WEO worked all afternoon on the tower re-attaching three guy wires to a lower level so that they were not in front of antennas. He then removed the three upper guys at the 70' level made of wire and rope and replaced them with three stainless steel guy wires at the 42' level.

The cable is 1/4th inch SS rated at 9,800 lbs (or above) if we can believe the cheaper cables listed at HOME DEPOT. Unfortunately the holding power of our anchors because of the poor soil are rated at about 3,000 pounds each.

With more help we would have been able to complete the insulating of the two remaining cross-arms and check the cable clamps going up the tower. Because of the type of work being done, W9FQN had to work on the ground supervising the attaching of the six cables to the ground anchors.

HELPERS are workers that drop everything they are doing to help someone with their special project.

Stan-W9FQN, as usual, was kept busy for 9 hours keeping others busy ..plus a short trip up the tower (and back).

PARC is still looking for additional tower climbers so that we have at least two available for each work party in addition to W9FQN.

The only ones permitted on the tower at present are:

N6GZI - Ed Ross ... (Sr. Climber)  
 KI6TG - Chuck Dowling(Sr. Climber)  
 KD6VHI - Mike Pennington(SrClimber)  
 W9FQN - Stan Rohrer (Sr. Climber)

KE6WEO - Joe Carvalho ... (New)  
 KE6KNN - Juan Lopez ... (In Ck out)  
 KD6PBH - "J" (needs Ck out)  
 ? - (your call and name?)

N6GZI, KI6TG, and KD6VHI are not always available and the recent climbing duties have fallen mostly on KE6WEO and W9FQN.

We like to see climbers who have worked for the military (KE6KNN), SOG&E, a Telephone Co. (ie. N6GZI & KD6VHI), or rock climbers (ie. KI6TG & KE6WEO). Or if you are athletic, not afraid of heights and can "chin" yourself, you can apply. We have had only one YL that qualified in the past. Contact W9FQN if you are a climber and would be willing to go through a short climbing training program.

#28(10-9) Bill-KB6MCU went to the site and installed a UPS (batteries & DC to AC inverter) on the ATV repeater so that it does not reset during temporary power outages.

#29(10-11) Mike-AB6QT visited the site to find out what the autopatch was not working properly on 146.73 after the Sunday work party. A switch was left in the wrong position. He also looked at the 146.7 packet repeater which has also been off the air. The repeater is working but the packet setup is not. An intermittent on the TNC power line was looked at but the problems still exist.

#30(10-11) Art-KC6UQH and Stan-W9FQN visited with Norbert-KJ6ZD at his QTH to look at the PALBBS transceiver system.

#31(10-12) Juan-KE6KNN and Stan-W9FQN picked up one 20' section of a donated HEAVY DUTY 60' tower (210#) and hauled it back to FQN's QTH. We have 40' more to go. This is an exchange for one of PARC's light duty crankup towers.

#32(10-14) Mike-AB6QT repaired the 146.73 repeater which had been off the air for 1.5 days. The problem was found in the new (old) exciter board installed during last Sunday's workparty.

#33(10-15) Jerry-WB6FMT and Stan-W9FQN visited the La Messa autopatch outlet to find the inter-



If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate!



Radio systems installation, repair and removal, and interference resolution.

**Edward Ross, N6GZI**  
**542-1405**  
**Antenna**  
**Specialties**

### The NiCad Lady N6WPA

*Battery Pack biting the dust?  
Get your power source rebuilt  
with NEW higher quality cells!*

*Up to a 50% Savings over the  
cost of a new pack!*

- Radios
- Laptops/Notebooks
- Test Equipment
- Camcorders
- Any Special Application

**(909) 678-0943**



The PREMIER source for  
**Contract Engineering &  
Technical Services.**

- Long or Short Term
- Direct Placement
- Payroll Services
- Employee Leasing

**Steve Grant, N6RUV**  
Division General Manager  
**(619) 565-4992**

mittent in the audio line which sometimes shows up until the audio input cord is moved. While there they also installed a replacement 38Ahr (total 76Ahr) battery and a visual voltage indicator (LEDs) so that the status of the batteries and their charge can be easily seen while walking thru the garage.

RED shows overcharge, GREEN being charged, and four YELLOW to show the battery is being discharge. The modification was also made at the Mira Mesa autopatch outlet.

#34(10-17) John-WB6IQS, after work, rushed to the mountain and spent part of the evening checking out the 146.7 packet repeater problems with several thousands dollars worth of equipment. The problem was not located but setting tones and their levels plus a "hard" reset on the TNC got things working like normal. Many thanks to Norbert-KJ6ZD and Rod-AC6V for helping by sending up packets for test purposes.

#35(10-20) Juan-KE6KNN after MANY problems and a long trip was able to bring another 20' of tower (263#) to W9FQN's QTH where they unloaded it. One Sec more to go. =PARC=

\*\*\*\*\*  
F O R E S A I L  
Knot so gud?



Ph/send ads 2 W9FQN (C Ed's addr) B4 20th of mo. w/ur NAME, CALL, Ph #, & CITY. PERSONAL ads FREE 2 members. Others cost 25c/col. line (35spaces). =SK=

Block ads: business card (1/3rd col.) \$5; 2/3rd col \$10; 1 col \$15; 4 card size (almost 1/2 horizontal page) is \$20 per issue. Billed Feb, May, Aug, & Nov.

Keven Sanders, KN6FQ, in Escondido is now handling PARC's extensive tube bank. Contact Keven at 432-8381 for availability and prices.

\*\*\*\*\* N E W A D S \*\*\*\*\*

(PARC) (contesters dream & "worked all neighbors" xfms); 3750-CT-@10, 700WV; 3600ct (1800v) @ .4A pwr transformer + chokes; 2000-1500-CT-@.8A (or more); 1500-

1250-1000-CT-@.5A; 623-CT-@.5A; and others too humorous to calcify; plus HF chokes (some swinging) for those gasping for more power: Stan W9FQN 749 0276 for PARC.

(10-19) Heathkit SB-100 100w tube transceiver. Great first rig. Call for price. Stan W9FQN for PARC 749 0276 Villy Ctr.

(10-03) Power supplies 5v@2A-35A \$5-\$35: Mike (mountain) AB6QT 742 1573 Pa1Mt.

(10-03) Compudyne modum 2400 \$20: Steve W2MRM 451 5690 R.Bernardo.

(9-23) UNIDEN HR-2510 10m xcvr all modes (mod for 11m & "black-hole") \$200 0B0: Gayle KM6WF 673 9201 Poway.

(9-20) DRAKE 1kw HF VT STN R-4B, T-4XB, L-4B, include Heath HD-15 patch, AM-2 SWR, SB-610 monitor scope, dumm load, gud cond demo available \$1,000: Ivan W6TET 276 7148 SD.

(9-16) 286 Computer w/color monitor & 20mb HD gud for packet: Rusty AA60M 747 5872 Escondido.

(9-13) To person buying two Tandy 1000EX computers and video monitor. We have several books on their operation and use. They will be at the October meeting: See John WB6IQS or call 727 3876 Vista.

(8-26) HP-2631B serial dot matrix printer wide carriage + stand: Jo-KB6NMK 741 2560 Escondido.

(8-7) ICOM 730 HF mobile rig 10-80 meters, gud base also, manual, pwr, mic & mobile mic \$600 or best offer: Curtis N6XXU 599 0178 Vista.

(7-18) Triaxe(?) Twr 52' crank-up ready to go w/new motor & orig paperwork \$575; Two Sony stereo reel-reels for station recording \$20ea; IBM Quietwriter printer/cut sheet feeder \$20; Call/fax for list assortment major software for Windows; Mark KC6CZO Escondido.

(6-8) Hallicrafters SR 400a transceiver 550w 80-10m with pwr sup & mic mint \$200; Antenna tuner 10-160m 300w with swr bridge (MFJ Versa 941c) \$60; KW Amplifier 10-160m, Ameriton AL 80B (see May QST pg18) very few hours \$550; "free" Mechanical code practice machine





# DSP 100

## The PC Transceiver

\*General Coverage Receiver 450 KHz to 30 MHz.

\*-10 dBm exciter output for all HF amateur bands. Simple no solder components available to raise power output to 50 or 100 Watts.

\* High Dynamic Range Direct Conversion Architecture with full DSP.

\* Two ISA bus card system, uses an Analog front-end Card and a DSP card for all passband filters and modulation / demodulation.

\* FREE software upgrades.

**Call our BBS on (619) 744 4032 for more info and FREE demo software.**

**Receiver/Exciter + DSP \$695 +tax**

COMER COMMUNICATIONS INC.,  
609 Washingtonia Drive,  
San Marcos, CA. 92069.  
Tel (619) 744 7266 Fax (619)744 4745

If U didn't C UR name/call here but U received UR SCOPE, then U R A MEMBER!

To receive a point for sponsoring a new club member you will need to instruct the potential new member to write on his application that you are the sponsor. Otherwise, your editor is not aware of points to be awarded to members.

Extra point to W6GIC(1) for recruiting KC6ZEC, KA6OLZ(1) for KB6CQA, and KC6VVT(1) for KE6JGF.

73, Ralph 727-7415 =PARC=

Thanks to:

Steve-KE6SQI for the donation of six Motorola Microprocessor Radio-Telephone interconnect units. Now all we have to do is find out what they do and how they do it.

Roland-KE6NPN for the donation of a SB-100, books, and an Elmac unit.

Ted-KD6AKT for finding an AT computer for use in an autopatch project at the repeater site. It will be used in an attempt to have

AUTOMATIC section routing for all sections of SDCo. Anyone interested in helping with this project?

Rod-KM6SN for the donation to the club of an IBM computer.

George-K6YGK for the most recent DESIGN NEWS (and other Magazines) ..always find something of interest in them. Also a big thanks for the article on AVOIDING LIGHTNING STRIKES (RADIO WORLD) where they kept their repeaters in metal cargo containers which has been under discussion for the past five years by PARC. PARC has only one small metal building for repeaters but possibly we will soon have several more if the board approves. Also a desalination method (\$.007/gal) and turning a sphere inside out using a "smooth" motion were very interesting.

Harry-WA6Y00 for a MUG catalog.

ART-KB6YHZ & Anita-KB6YHY made the coffee and supervised the drink & goodies ..and members bringing goodies were: AAGEE-Duane, N6ISC-Paul, KM6PY-Bill, K6YGK-George, and N6QQF-Norm.

THANKS TO THE GOODIE BRINGERS FOR HELPING MAKE THE CLUB MEETINGS A BIG SUCCESS.

Goodies were great and you were rewarded with ONE participation ticket. =SK=

If we miss anyone, please let your editor know WHO and WHEN. =PARC=

- FIRE FIRE FIRE -

For the 2nd time within 11 years Palomar Mountain was burning ..and that meant serious implications for PARC who has ALL of its repeaters located on Palomar Mountain with the exception of PARC's autopatch phone entry stations on the floor of SDCo.

Eleven years ago the fire started on the northwest side of the mountain and burned for almost 11 days. PARC was able to keep ALL of its repeaters on the air the entire period while all other repeaters were forced off the air within 24 hours. Even governmental repeaters were off the air.

That fire severed all telephone

lines and electrical connections to Palomar Mt. and PARC was able to keep on the air using emergency battery power and AC generators.

PARC provided communication for residents and for fire crews located all over Palomar Mt.

As the fire closed in on PARC's repeater site a crew was dispatched to the site to maintain the generator and to move the equipment out of the site if it became evident that the site was going to be burned.

When decision time arrived PARC decided that if the repeaters save one life before being burned that we could absorb the loss. =PARC=

- NEWS - etc.

Contributions by the 20th

Please send "newsworthy" items 2-UR Editor Via PALBBS, letters, notes, or hand them to me at club meetings. =SK=

Sorry to hear that Chuck-W6IRM (one of the morning "net controls" for the commute gang) fell and now has back problems. We all hope he will be out on his morning walks soon to keep the "morning rotation" on schedule. =SK=

Roland Gaebert, KE6NPN, of the Search and Rescue group in SDCo. is a always looking for qualified amateurs who have wilderness experience. Anyone wanting more information about this specialized rescue group should contact Roland at 728-2468, Escondido. =SK=

The person who bought a Radio Shack CB tester, Cat.21-526, has a RF-pwr meter that works from 2-175MHz. W9FQN has a manual for it 749-0276.

Does anyone have instructions for a SWAN SWR-1 swr meter with two meter faces? Contact W9FQN. =SK=

Kenwood will be on the World Wide Web at:

<http://www/kenwood.net>

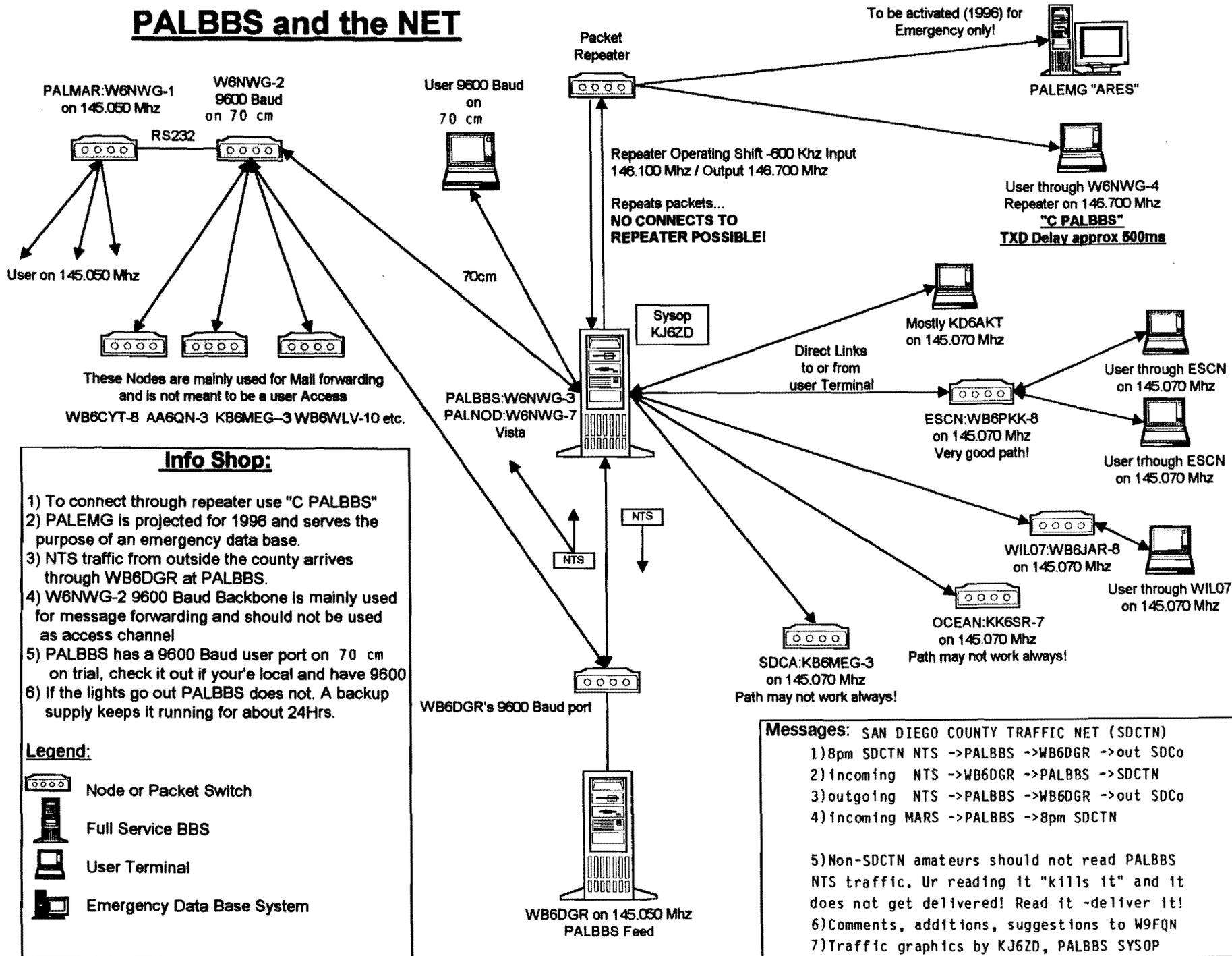
Their current address is:

<http://www.accessnv.com/kenwood/amateur.html>

Check with W9FQN at meetings for copies of the KENWOOD REPORT. =SK=

Amateurs with Internet access may wish to read the Restrictive

# PALBBS and the NET



### Info Shop:

- 1) To connect through repeater use "C PALBBS"
- 2) PALEMG is projected for 1996 and serves the purpose of an emergency data base.
- 3) NTS traffic from outside the county arrives through WB6DGR at PALBBS.
- 4) W6NWX-2 9600 Baud Backbone is mainly used for message forwarding and should not be used as access channel
- 5) PALBBS has a 9600 Baud user port on 70 cm on trial, check it out if your'e local and have 9600
- 6) If the lights go out PALBBS does not. A backup supply keeps it running for about 24Hrs.

### Legend:

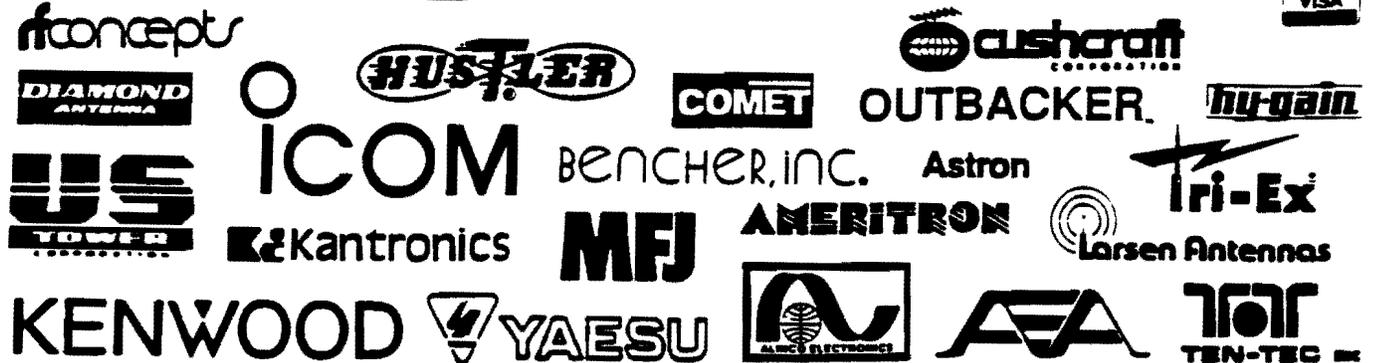
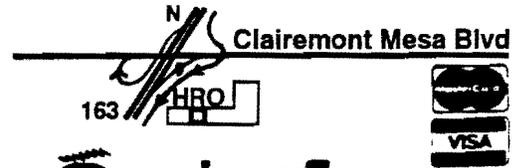
-  Node or Packet Switch
-  Full Service BBS
-  User Terminal
-  Emergency Data Base System

- ### Messages: SAN DIEGO COUNTY TRAFFIC NET (SDCTN)
- 1) 8pm SDCTN NTS ->PALBBS ->WB6DGR ->out SDCo
  - 2) incoming NTS ->WB6DGR ->PALBBS ->SDCTN
  - 3) outgoing NTS ->PALBBS ->WB6DGR ->out SDCo
  - 4) incoming MARS ->PALBBS ->8pm SDCTN
- 5) Non-SDCTN amateurs should not read PALBBS NTS traffic. Ur reading it "kills it" and it does not get delivered! Read it -deliver it!
- 6) Comments, additions, suggestions to W9FQN
- 7) Traffic graphics by KJ6ZD, PALBBS SYSOP



# HAM RADIO OUTLET

"LARGEST HAM OUTLET IN THE WORLD"  
ALL MAJOR BRANDS IN STOCK NOW!



Open: 10a.m. - 5:30p.m.  
Monday thru Saturday

560-4900  
or toll free 1-800-854-6046

**5375 KEARNY VILLA ROAD, SAN DIEGO**

Antenna Covenants Home Page, maintained by Don Stoner, W6TNS. It features not only information on Stoner's own battle with his condominium association in Clearwater, Florida, but also lists other resources for information of interest to radio amateurs.

Stoner's home page is at: <http://www.hamweb.com/sj1/STONER/ANTENNA.html>. =SK=

RFI: Mitsubishi(Jul92) If equip causes MMSA part to fail, repair costs would not be covered (ARRL).

RFI: Oldsmobile(Mar92) Ham radio may have an adverse effect. Do not recommend operation a 50w transceiver. Contact RFI Div GM (313) 685-6150 (ARRL).

RFI: Pontiac(May92) Ham radio will not affect warranty. RF immunity is extensively tested on and off vehicle. Minimal problems (ARRL).

RFI: Porsche(Jul92) Transceiver installation prohibited (ARRL).

RFI: Toyota(Oct92) Max pwr 100w, restrictions on cables and antenna (ARRL).

RFI: Volkswagen(Aug92) EMC chamber tests. Should be no ham problems. Will work with you (ARRL). =PARC=

\*\*\*\*\*  
LETTERS to the EDITOR  
UR editor and the board reserve the right to publish/edit all letters.

Dear Nash (W6HCD) ..I am reminded I was a member/secretary of the Palomar Amateur Radio Club when it was in Oceanside. I did their newsletter and I was one of 20 members who each contributed \$20 to put the first 2-meter repeater on Palomar Mountain ...(signed, Nell-NB6A).

(Ed comments) ..PARC has held its meetings all over North County and it is assumed that Nell is talking about when the club had meetings in Oceanside. Since sometime in the early 70's, PARC has met at the Glendale Savings and Loan and Lincoln Middle School in Vista.)

Received a note from Ivan, W6TET, which had a 13c ALEXANDER GRAHM BELL stamp, a 15c PROGRESS IN ELECTRONICS, and a 5c AMATEUR RADIO stamp like the PARC 5c stamp pin which PARC sells for \$5. This envelope is a real collectors item (Ed).

Jim Tusov, WA9LFR, was born in 1910 and worked for the Naval Research Lab in Philadelphia during WW II as a tech rep installing radar systems in the Pacific theater. Although he was active in amateur radio before the war, he got his WA9LFR license in 1964. His picture appeared in QST in 1991 as one of the oldest (81) amateurs to get his extra class license. He was very active on 80 meters and was an early member and past president of the Midwest Country Cousins net, and a regular check in for over 20 years. He also belonged to the Western Country Cousins, Breakfast Club, the QCWA, the Argonne ARC (IL) and York ARC (IL). He became a member of PARC just over 2 years ago after he joined his son-in-law, AB6IU in Carlsbad (de AB6IU).

Dear Ralph ..I thought I would help you and Stan, W9FQN, get to the magic number of one thousand members by signing up my daughter, Beverly, N6LCM, who lives in Chicgo. Please sign her up for three years. Check for \$36 enclosed ..it would be nice for the club to be able to "crack" the 1K mark. 73 de Bill Bowen, N6FMK (tnx Bill -

# PARC Membership Application

AMATEUR CALL
CLUB MEMBERSHIP? <input type="checkbox"/> NEW <input type="checkbox"/> RENEW
ARRL MEMBER? <input type="checkbox"/> YES <input type="checkbox"/> NO
LAST NAME
FIRST NAME
STREET ADDRESS
CITY
STATE ZIP
HOME PHONE
WORK OR OTHER PHONE
HAM LICENSE EXPIRES
FAMILY MEMBERSHIP (List other calls and names)
CLASS OF LICENSE <b>N T T+ G A E</b>

Nov. '95 S.Call?: \_\_\_\_\_  
(Sponsor's call not required)

Mail this form with your check to PARC, P.O. Box 73, Vista, CA 92085-0073 or hand to membership chairman at club meetings. We prefer checks to cash, it's safer and you have a record. Dues are \$12 a year which includes \$3 for the Scope, or \$21 for a family all at the same address. Consider paying for two or three years at a time to reduce the work for the membership chairman.

Name, call and complete address are required. Telephone number is requested but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

\*\*\*\*\*

## - P A R C B O A R D -

PRES : Art McBride . KC6UQH 7418143  
 VPRES: Sybil Albright W6GIC 2784284  
 SEC : David Doan . KC6YSO 2864888  
 TREAS: Jennifer Thieme KM6WG 5991134  
 RPTTEC: John Kuivinen WB6IQS 7273876  
 SCOPE : Stan Rohrer . W9FQN 7490276  
 MEMSH: Ralph Powell KC6WAN 7277415  
 MEMBER: Mike Doyle . AB6QT 7421573  
 MEMBER: Marvin Munster WB6PKK 7472223

\*\*\*\*\*

VE Program: Rusty . AA6OM 7475872  
 ATV/Edu. : Bill . KB6MCU 5822313  
 PALBBS : Norbert KJ6ZD 6305538

\*\*\*\*\*

Oct. SCOPE FOLD/STAPLE  
 Editor: Stan Rohrer-W9FQN 30311 Cir.  
 R.Ln., Villy Ctr CA 92082 . Forms  
 KC6WAN, Ralph Powell, Printing, Labels  
 KI6JM Jack Hanthorn, Folding Refresh  
 WA6UTQ . Larry Ruegseger Folding  
 KB6YHZ . Art Nye . Folding  
 KB6YHY . Anita Nye . Labels  
 N6WQR Bernice Rosenberg Folding  
 WA6Y00 . Harry Hodges . Staples  
 KB6NMK . Jo Ashley . Labels

Started at 12pm, ended at 1:45pm  
 \*\*\*\*\*

## Nov 1995

- 1-121 Mtgs, Calendar, Nominate, Audit
- 2-122 Board Mtg, AG060, Postal State.
- 3-123 President Wavelength, Nets .
- 4-124 Nets Cont., ATV#2 . . . . .
- 5-125 Repeater Tech, Work Parties.
- 6-126 Work Parties cont. . . . .
- 7-127 For Sale . . . . .
- 8-128 VE Testing/Equip, Membership
- 9-129 Thanks, Fire-Fire, News . .
- 10-130 Packet Diagram . . . . .
- 11-131 Letters . . . . .
- 12-132 ARRL Letter, Application . .

\*\*\*\*\*

(continued from page 11)  
 Ed). =PARC=

\*\*\*\*\*

## - A R R L L E T T E R -

De recent ARRL Letters:

A visitor to the US from a "reciprocal country" may obtain a permit valid for one year by sending a completed FCC Form 610-A application and a copy of his license to the FCC's Gettysburg, Pennsylvania, office.

(The call, ONIKKR, presently being used on 146.730 (HT has no PL) by someone in SDCo is probably not a valid call since the person using it knows nothing about amateur radio and is now using a call with someone else's name attached to it. When he first came on the air he erroneously used a call such as 052395 which he probably did not recognize was the date of his new commercial license! He recently has admitted to using the call of a friend of his over the air. Club members should refrain from talking to him until further notice -Ed). =SK=

STS-74 shuttle mission scheduled for middle of November launch. =SK=

FCC begins license EXPIRATION NOTICES starting with December 1995. These will be sent out 90 days before your license expires. =SK=

Amateurs with Internet access may wish to read the Restrictive Antenna Covenants Home Page, maintained by Don Stoner, W6TNS. It features not only information on Stoner's own battle with his condominium association in Clearwater, Florida, but also lists other resources for information of interest to radio amateurs.

S C O P E, US Post Office #076530  
 Published monthly by: = PARC, Inc.=  
 Membership \$12/yr including \$3 for SCOPE inside SDCo (outside \$4).

2nd Class Postage Paid  
 Vista CA 92085-9998

Vista	Mira Mesa	La Mesa	Fallbrook	Membership Expires PRC yy mm	License Expires LX yy mm
Palomar Mountain					

Phone Codes

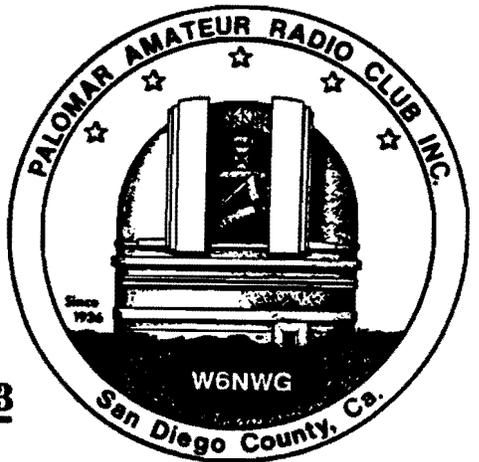
Deliver To

POSTMASTER: Return to -> S C O P E  
 P.O. Box 73, Vista, CA 92085-0073

W6NWX W6NWX W6NWX W6NWX

# Scope

W6NWX



**Palomar Amateur Radio Club Inc.**  
**Post Office Box 73, Vista, California 92085-0073**

DECEMBER \*\*\*\*\* 1995 \*\* 59 YEARS OLD  
Dues \$12, Volume XXI Number 12  
Coffee 7pm, Mtg. 7:30 pm @ Carlsbad  
Safety Center(CSC), Palomar Airport  
Rd.to N.on Camino Real(S11),east on  
Faraday .25 mi,left to CSC,TB 14F6.  
===== Talk-in 146.73 =====

**OPEN REPEATERS / CLOSED AUTOPATCHES**  
**PARC PALOMAR MT.REPEATERS(W6NWX):**

PARC Trustee of W6NWX: Ron,WI6B  
\*52.680- W6NWX,-.500 MHz(test)  
Autopatches(4): 146.730-, \*147.075+  
\*147.130+, \*449.425-  
PKT: 145.050s PALMAR W6NWX-1 Open  
(linked PARC 9600 METROLINK)  
146.700(-) Duplex BBS/EMG use  
145.070/146.700 W6NWX-3/PALBBS  
KJ6ZD SYSOP(QTH Vista)  
ATV IN:915 WBFM,919 AM,2441.25 WBFM  
Intercom: 146.430, PL 79.7 NBFM  
OUT: 1241.25 AM /\*\*\*\* \*=107.2HZ  
OTHER:\*224.380- KK6KD;\*224.9-WD6HFR  
\*146.175+ WA6IPD, FalbrkPatch

\*\*\*\*\* C A L E N D A R \*\*\*\*\*  
Dec 5 Tue.CLUB MEETING 7:30p @ C.SC  
Dec 9 Sat.PARC VE Tests Carlsbad SC  
Dec10 Sun.Rptr Site WrkParty PMt.??  
Dec14 Thu.PARC 7pm Board Mtg WB6IQS  
Dec20/22 SCOPE (deadline/mailling)  
Jan 3 Wed.CLUB MEETING 7:30pm CBSC.  
Feb'96 == PARC 60th Anniversary ==  
\*\*\*\*\*

**TRUSTEE of W6NWX**

At the November board meeting  
the Board accepted the resignation  
of Ron Wilhelmy, WI6B, who has been  
the TRUSTEE of W6NWX for the past  
9-10 years. Ron was also the club's  
treasurer from 1986-1989 and a mem-  
ber of 1995 Audit Committee.

The Board also voted to appoint  
Mike Doyle, AB6QT, as the new W6NWX  
trustee. Mike has been a PARC board  
member for two years and has been  
active at the repeater site having  
put together the 449.425 repeater

and the 146.73 repeater. He is also  
one of PARC's control operators.  
=PARC=

\*\*\*\*\*  
NEXT MEETING VPres. Sybil-W6GIC  
PLEASE COME EARLY and help set  
up chairs ..and STAY A FEW MINUTES  
to help put away the chairs. WE  
NEED HELP!

Club meetings start at 7:30pm  
but many come at 7pm to talk to  
friends, get a good seat, look at  
items on the junk table, see equip-  
ment as it is being set up, watch  
demos (ie. packet), and pick up  
some of the FREE magazines.

**N E X T M E E T I N G W I L L**  
**B E O N T U E S D A Y Dec 5th**

Unfortunately PARC's use of the  
Carlsbad Safety Center is on a  
"secondary" basic and every few  
years we get "moved" to another  
date. Sorry about that!

The program for December 5th  
will be PARC's ELECTION of officers  
for 1996 and the club's annual  
CHRISTMAS PARTY with many  
manufacturers present to show and  
talk about their goodies. See page  
7 for manufacturer listing.

Since this is our Christmas  
program, please bring in Christmas  
goodies for the coffee table.

SHOW & TELL: Please see me  
before the meeting to reserve time  
for your SHOW & TELL item(s).

\*\*\*\*\*  
**H O L L I D A Y M E S S A G E S**

Juan-KE6KNN will again be taking  
Holliday amateur radio messages at  
the next meeting to be sent to  
friends and loved ones so be sure  
to bring their name, address, and  
telephone number to the meeting.

You will have your choice of  
several "stock" messages and you  
can add a few of your own words if  
you like.

These messages will be sent via  
the San Diego County Traffic Net  
(SDCTN) at the appropriate time via  
voice or packet. =PARC=

\*\*\*\*\*

**F I E L D D A Y 1 9 9 5**  
Field Day is a test of the  
club's ability to set up and  
operate efficiently emergency  
stations in case of a disaster  
..AND THE BIG ONE IS COMING!!

After laying off Field Day  
operations for a year PARC was able  
to make a very respectable "come-  
back" showing of 3rd in the USA in  
CLASS 5A. Our competition over the  
past few years was K4BFT  
(Huntsville ARC) and they came in  
2nd with a new kid on the block,  
W01N (BillERICA ARS), taking 1st  
place.

PARC was 13th in the USA for all  
classes (2,032 groups).

PARC won class 5A in 1991, 1992,  
and 1993.

WAIT 'TILL NEXT YEAR! =PARC=  
\*\*\*\*\*

**- N O M I N A T I O N S -**

The Nominations Committee  
contacted each present officer to  
make sure they were willing to  
continue in their current position  
and we asked if they had any  
suggestions for a person to  
nominate for Treasurer. We also  
asked other people for suggestions  
and came up with names ourselves.

Elections will be held at the  
December meeting.

At the November club meeting the  
Nomination Committee presented the  
following slate of officers for  
1996, our 60th year:



==== P R I Z E S ====

The board has approved awarding prizes for members recruiting new member before the February 60th anniversary meeting. You will get your choice of one the following prizes for each group of five that you sign up (as long as they last):  
a) NEW-BLUE-BADGE, d) HAM-STAMP-PIN,  
b) RF-RANGE-FINDER e) PARC HAT,  
c) OLD PARC BADGE. f) leather HTcover  
(your pick)

Your CALL LETTERS must appear on the application blank and the membership must be at least a \$12 individual membership or \$21 for a family. The maximum credit for a family membership is two (2) even if there are more in the family. Associates ARE club members.

In addition with five or more new members you will receive recognition at the February meeting as a PARC 60th year BOOSTER and your call letters will be a part of PARC history.

There even has been some talk of an "overall" prize for the person getting the MOST members to sign up by the February '96 meeting.

The first group of prizes will be awarded at the February '96 60th anniversary meeting. =PARC=

~~\*\*\*\*\*~~  
- Nov. BOARD MEETING -  
BOARD: KC6UQH W6GIC KC6YSO  
\*KM6WG WB6IQS W9FQN KC6WAN AB6QT  
\*WB6PKK (\*ABSENT).

OTHERS: KB6MCU (ATV & Training),  
N6ALA-Ken (ATV interest), and  
KI6JM-Jack (advisor).

The 7pm meeting was at Ralph-KC6WAN's QTH and started at 7:11 and ended at 9:58pm.

Ralph served delicious cookies.

- SECONDS -

DISCUSSED: Year 25% completed and most accounts near where they should be for this time of the year; \$ 5,860 Equip. Bal; \$ 6,393 Gen. Purpose; \$ 3,000 Pre. Paid; \$ 400 Post Office; \$ -0- PARC ATV; \$ 135 PALBBS; \$

(A)pproved/(D)iscussed

Sold Drake \$400-A, Bought ICOM-735 \$550-A, invoice \$35-A, investments-D, construct emergency GE packet rig for 145.05 & 146.7

\$400-A, anchors etc \$300-A, insurance for equipment-D, audit report accepted-A, Santa B. interference on 147.075-D, N6ALA construct DC transfer switches-A, programs-D, 60th Birthday party-D, Franklin 146.73 letter-D, SCOPE input-D, membership 838 and goal-D, Young People's Net-A, donated metal building acceptance-A, K6RTD request-D, AA6EE-A/D, donated antennas-D, SANDARC rep needed-D, WI6B Trustee resignation accepted-A, AB6QT Trustee assignment-A, ATV problems-D, General Class progress-D, Alternate meeting site-D, and a good time was had by all.

Next board meeting at Ralph-KC6WAN's QTH in Vista;

Contact a board member 4-info or C Secretary 4-minutes at meetings.  
=PARC=

~~\*\*\*\*\*~~  
PRESIDENT's WAVELENGTH, Art-KC6UQH

Having been at the helm of the Palomar Amateur Radio Club for one year, I will devote this months column to my time on the Bridge. We have had a banner year. Gordon West drew a record crowd of 192 members to our General Meeting, we had a successful Field Day, we are video taping our General Meetings, access to the PALBBS has improved with the new packet repeater and we added a new 6 Meter repeater this year including a home brew duplexer. I have been very fortunate to have a very cooperative Board of Directors who have worked hard and supported me through the entire year. As in most volunteer organizations a small number of members do most of the work. I am very fortunate to have many helpful members outside of the Board of Directors who have made contributions of time and energy to make our Club a Full Service Club. Our Membership has grown and the seas have been kind to me this year. That is not to say I have not experienced some rough weather, but that comes with the territory of my office and is necessary to determine the seaworthiness of the ship.

Just as a ship has a compass to maintain a steady course, I have

found my compass to guide our Club in the Five Purposes of the Amateur Radio Service as stated in Part 97.1 of the FCC Rules and Regulations. \* (A) Our repeaters are dedicated to Emergency service groups during an emergency and we hold several nets for several Emergency Service Groups. \* (B) Improving the state of the Radio Art requires innovation and experimentation. I have tried to promote both. \* (C) We learn by doing. Those who claim there is only one way to do something, forget that we as Amateurs must learn from our mistakes and experimentation. \* (D) In the short time I have been an Amateur, I have seen growth in the skills of myself and many others, making for a larger pool of operators, technicians, and electronic experts in the Amateur Radio field. \* (E) "Continuation and extension of the amateur's unique ability to enhance international goodwill." I prefer to apply this to all areas Locally and Nationally as well as International. Our Club has done well in this regard, and I am pleased that we have some of the most friendly repeaters in the County.

The founders of Our Club had the wisdom to choose Five Stars for our Logo to represent the Five Purposes of the Amateur Radio Service. I am sure this was their way of reminding new Captains like me, that a Compass has been provided for.

We have several events and projects for the coming year.

\* February is our Sixtieth Birthday for P.A.R.C. and our goal is to have 1000 members by then.

\* We have purchased a ICOM-735 for the trailer project. Our goal is to have the Emergency Trailer ready by February so that members can practice operating this coming year during contests before Field Day. Contact Juan-KE6KNN or A.J.-KB6NML if you can help us refurbish the PARC trailer.

\* Field Day was a great success this year and it is our goal to

regain our previous position of number one in 5A.

\* Continue to improve our repeater site with all voice repeaters on battery backup next year.

\* Continue to promote experimentation and construction projects for self improvement.

I want to thank Ken N6ALA, Dave K6QL, Konrad N6UKO and Bill KD6BFR for their support and assistance on Saturday November 18th at Coronado Hills. This was a mini Field Day for us and I was able to receive a 1 Watt 22 MHz Bandwidth FM ATV signal from Ray N6RE operating portable in San Pedro on 10,400 MHz using home brew equipment. The path was approximately 80 Miles.

The San Diego County Traffic Net needs traffic and we all need the practice. Please use the net for some of your Holiday Greetings this year.

C U December 5th for our TUESDAY Christmas General Meeting.

Seasons Greetings & 73,

Art, KC6UQH

=PARC=

MEMBERSHIP Ralph-KC6WAN

NEW CLUB MEMBERS wanting confirmation of their membership and/or an autopatch information sheet and/or FCC 610 form should send to me at the club's address a (S)elf-(A)ddressed (S)tamped (E)nvelope (SASE) requesting same or see me at the next meeting.

ERROR: last month N6LCM should have been shown as joining for three (3) years! Beverly lives in Chicago (the windy city) ..and probably hears one of our repeaters ..when the wind is blowing easterly ..or possibly she has packet and talks to her father, Bill-N6FMK, in Vista (in 1953 I took my 1st amateur test at the FCC office in Chicago -Ed).

3yrs= N6LCM-Beverly

2yrs= N6NNI-Mark

1yr= DOUG-Anderson KB6MWH-

Leonard KE6JNB-Ken KD6WQK-Mark

KD6PZE-John KE6ZAL-W111 PAUL-Barnum

N6WHE-James KE6ZAM-Luyun KJ6SN-Dick

KD6PTZ-Ken N6WEF-MaryLee W6WEG-

Frank K06SM-Kenan KE6BZD-Ron  
KE6YPN-David JOHN-Harris WB60KO-  
Norm KT6A-Warren KE6MTS-Glenn  
KE6YXE-Nina & N6UN-Ken

CHANGES: none received.

If U didn't C UR name/call here but U received UR SCOPE, then U R A MEMBER!

To receive a point for sponsoring a new club member you will need to instruct the potential new member to write on his application that you are the sponsor. Otherwise, your editor is not aware of points to be awarded to members.

Extra point(s) to Sybil-W6GIC(5/6) for recruiting N6UN, WB60KU, KT6A, KE6MTS, & KE6YXE.

Also Bill-N6FMK(1/1) for N6LCM. 73, Ralph 727-7415 =PARC=

\*\*\*\*\*

- AGOGO - K6HAV/KI6JM/W9FQN

(12-90) ..62 members and 14 guests at Nov meeting ..Jo-KB6NMK

ran Cystic Fibrosis bicycle event ..Larry-AB6LY consents to help with

HAM HELP nets ..Walt-W6UZL SK ..battery shed worked on by Jack-

KI6JM, Art-KB6YHZ, and Stan-W9FQN ..Jerry-WB6FMT working on 2nd

autopatch ..Dennis-N6KI used W6NWX for Sweepstakes from his QTH and

worked 867 stations ..PARC used WR6AII in '73 and W6NWX in '74 with

familiar NOTHING WORKS GOOD phonetics of Melvin Bacon, W6NWX,

who described his QTH as Oceanside "where there's miles and miles of

pretty white sand." ..Field Day, PARC placed 2nd in the USA in 5A

and 1st in California ..Bob-W6NZX moving to Salt Lake City ..

(12-85) ..expect membership of 300 by January ..90 coming to club

meetings ..nominating committee report ..program on Disaster

Preparedness ..145.05 pkt digi in operation PMT ..PARC places FIRST

in county in class 4A ARRL FD contest, 1,911 contacts (5,218 pts)

..policy on use of PARC repeaters ..club membership list. =PARC=

\*\*\*\*\*

H A M R A D I O R O U N D U P

The 3rd HAM RADIO ROUNDUP (HRR) was held Oct'29 and a good time was

had by all. PARC had a great booth setup

engineered by Sybil-W6GIC with pictures of PARC activities: Field Day, Meetings, PARC tower on Palomar Mt, etc. It was also PARC's first use of the new light blue table covering with PARC's large logo and name. It was a 1st rate display and Sybil was able to sign up some new members.

Art-KC6UQH had a PARC ATV demo with video of many ATV activities including shots from a radio controlled airplane.

If you missed this HRR, don't miss the next one since there is a lot of emergency equipment on display: emergency vans, trailers, antenna trailers (KD6QK), Red Cross Van, RACES van, etc.

There was also a demonstration on APRS to locate latitude and longitude, a 32 wire element 20dB gain 2m rope beam, and portable packet units all over the place. =PARC=

\*\*\*\*\*

E D I T O R

W 9 F Q N



The January SCOPE will have to be mailed on December 19th and the "cutoff" date for ads and articles will be the 15th. These dates are a week earlier than normal since Christmas is the 25th and the mail system is sure to be jammed with Holiday traffic.

The SCOPE in 1996 will have many historical articles since we are entering the club's 60th anniversary year. =SK=

73, Stan-W9FQN, =PARC=

\*\*\*\*\* SK \*\*\*\*\*

D O R A T U T T L E, K E 7 D R

Dora died in her sleep in a nursing home in Arizona after an earlier fall from her bed.

Before leaving Escondido she was a regular member of PARC's SDCo Traffic Net handling countless messages despite being blind and having polio. She will be missed by all who knew her. Dora was a "grand lady" of amateur radio. =SK==PARC=

SK \*\*\*\*\* SK \*\*\*\*\* SK



If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate!



Radio systems installation, repair and removal, and interference resolution.

**Edward Ross, N6GZI**  
542-1405

**Antenna**  
**Specialties**

**Radio and Test Equipment Repair**

All Makes  
Reasonable Rates

**Lou de Beer**  
ND6W  
(619) 437-8351



**Rhō**  
Flexible Staffing Solutions™

The PREMIER source for  
**Contract Engineering & Technical Services.**

- Long or Short Term
- Direct Placement
- Payroll Services
- Employee Leasing

**Steve Grant, N6RUV**  
Division General Manager  
(619) 565-4992

REPEATER TECHNICAL John-WB6IQS

The original 147.13 repeater is back on the hill replacing the "failed" replacement repeater. The old repeater had a "pass through" PL which caused problems on autopatches. Some of you probably experience problems with the autopatch for almost a week because you had your PL DECODE turned ON preventing you from hearing the dial tone and the person answering the autopatch.

On November 5th Art-KC6UQH changed the repeater so that we stripped off the 107.2Hz PL and then added PARC's 107.2Hz PL to the output so that this repeater functions the same as all PARC repeaters.

Those of you who turned your PL DECODE OFF because of W9FQN's comments at the November meeting can now turn you PL DECODE back ON. =SK=

The "motor-boating" heard on the 146.73 Oct17th was caused by a Tech (not Mike-AB6QT whose responsibility is 146.73) getting into the repeater, disconnecting an audio interface board, and forgetting to put the screws back in resulting in an improper grounding of the board. This resulted in a "floating" ground loop. That evening Mike-AB6QT put the screws to it and the problem is gone. =PARC=

Jerry-WB6FMT PATCHES Stan-W9FQN

As the weather gets worse there will be more and more delays in getting to work. Remember that you are NOT ALLOWED to use the autopatch to call into your work place LATE. That is a business call!

A control operator (if he gets to the call in time) will turn off all of the autopatches or he/she can recommend that that telephone number called be put into the GIANT COMPUTER to be always dropped automatically.

You can call home and THEY can make the call for you on the LL but YOU CANNOT MAKE THE CALL over the patch (FCC & PARC ruling). Some

patch users have a standing arrangement with their spouses that when they call on the patch reporting terrible traffic that this is their signal to call the office reporting that you are being held up in traffic. =SK=

The AUTOPATCH COMPUTER records all sorts of information about the call being made in addition to the PARC expiration date with a special flag for those using the autopatch after their expiration date. =SK=

If there are times when the person on the LL tells you that they cannot understand you because your signal is distorted, it might be due to your signal being marginal into the repeater. If you feel that because of your location, your high power level, and your good antenna that you should be 5x5, then please report this incident to W9FQN or WB6FMT ASAP with access code used, time of day and date of the problem. We cannot solve things we are not aware of in a timely manner. It is important that you give as much information about the problem call ASAP.

Possible PARC equipment problems might be-

- 1)link receiver off frequency.
- 2)PMT transmitter off frequency.
- 3)poor telephone connection.

After years of system operation we have observed the following problems:

- 1)patch #3 accidentally turned off
- 2)patch #3 mic connector short(2T)
- 3)patch #2 programming error
- 4)patch #1 transmitter failure

Equipment problems seem to be few and far between considering the tremendous usage the system sees each month and the fact that the system must function as 12 autopatches (each repeater "sees" three outlets and there are four repeaters using the system).

Control Operators have heard from time to time comments about distortion by the LL contact but in most cases it appeared that it was due to extremely poor signals coming from an HT in a hole. In other cases the COP hears both sides per-

fectly clear and wonders where the problem might be. =SK=

We are sure that PARC's autopatch system is the only one of its type in the world and everything is "home" designed and built. It came about because we:

- 1)wanted several phone entry pts
- 2)did not want to pay long dist.
- 3)wanted redundancy
- 4)saw commercial too expensive
- 5)wanted "easy" system control
- 6)saw the challenge

The next PHASE of the system is to add computer AUTOMATIC "look up" and dialing from the repeater site with a simple code so that you do not have to know in which section the telephone number is located. It will probably also allow you to use your MEMORY dialing for the whole code sequence.

The inputs were all designed into the last upgrade to the system done by Jerry-WB6FMT and John-WB6IQS. The computer touch tone generator was constructed by Stan-W9FQN and he has been doing the programming needed for its operation. Ted-KD6AKT has donated an IBM AT to the project and it will just take some time to make all of the hardware connections and finish the programming of the computer.

We hope to have everything up and running during early 1996. If you would like to help with the project, contact W9FQN. =PARC=

~~REPEATER OPERATIONS Stan-W9FQN~~

REPEATER OPERATIONS Stan-W9FQN  
The following is a current listing of Control Operators (COPs) for the repeaters listed on the front page of the SCOPE:

- G= all Rptrs/Patch less 146.175
- L= all Rptrs less 6m, ATV & 146.175
- V= ATV Rptr Equip.<- only -> S= 6m
- T1= 224.38 <-- only --> T2= 224.90
- A= autopatch P= packet only

C O N T R O L O P E R A T O R S

WI6B	Ron Wilhelmy(Tr)756-3133	G
AB6QT	Mike Doyle **** 742-1573	G
.W9FQN	Stan Rohrer, . 749-0276	G
KC6UQH	Art McBride, . 741-8143	G
WB6IQS	John Kuivinen, 727-3876	G
WB6FMT	Jerry Houser, . 758-4388	G
AB6LY	Larry Gugle, . 439-9761	L
KB5MU	Paul Williamson,571-8585	P

KB6MCU	Bill Smith, . . 582-2313	V
KD6TLF	John Williams, 747-9431	V
.N6ZUC	Tim Low, . . . 735-9125	L
KC6YOX	Bill Bennett, . 433-4626	S
KC6YSO	David Doan, . . 286-4888	S
KK6KD	George Rios(Tr) 691-1155	T1
.N6JZE	Del Radnt(Tr) . 279-7692	T2

Mike-AB6QT has been appointed by the PARC Board to become the new FARC trustee of its repeaters as soon as the change (FCC paperwork) can be made from Ron-WI6B who has served so faithfully for many years.

COPs have different levels of control assignments depending upon the number of frequencies normally monitored by the COP and the level of involvement with our repeaters. The 220 repeaters are non-PARC.

COPs do not normally answer if you ask for them on a repeater. We do no discuss interference problems over the air. If you have a problem, phone a COP or a Board member.

A COP will probably come up on frequency when a newcomer to the area asks for information ..but NEVER to discuss interference.

If you are on the repeater when someone is using bad language -GET OFF IMMEDIATELY! Do not make any comments to the offending station or to anyone else. JUST DISAPPEAR.

COPs are reluctant to turn off the repeaters and probably do so only several times per year per repeater but only under unusual circumstances. We do not like to REWARD the BAD GUY by talking to him, mentioning him or what he is doing, or to acknowledge him by turning off the repeater.

If a COP hears interference on a repeater, many times he will turn off the time out timer (and don't YOU say, THE BEEP IS GONE!) so that the interfering station cannot time out the repeater and so that you can QUICK-KEY to drown out the interference. =SK=

When someone is trying to interfere with your conversation and a COP is in a position to turn off the time-out timer, he/she will do so. This will allow you to QUICK-KEY so that you cover up the offending station and what they are

saying without timing out the repeater. Do not allow the offending station the opportunity to be heard ..because this is what he wants. He wants attention and you are part of the problem if you allow him to have it! Of course, if you signal is weaker than the jammer, you will have problems COMMUNICATING so you might as well "pull the plug" or move to another pre-arranged frequency.

Jammers get tired of jamming if they are not acknowledged and praised for their efforts ..and there are still a few club members who don't understand this! =PARC=

~~WORK PARTIES~~ Stan-W9FQN

It has not been decided if there will be a work party on December 10th because of the possibility of bad weather. We still have several "outside" projects that need to be finished before winter arrives. An announcement will be made at the TUESDAY DECEMBER 5th club meeting ..or contact W9FQN. =SK=

(11-05) Another great day on the mountain with the weather being a little on the cool side ..but if you are working, its great.

Art-KC6UQH and John-WB6IQS worked inside the buildings most of the day.

John modified the battery charger systems so that charging current could be read with a digital voltmeter rather than the analog meters we were using. He also reconnected the preamp to the 146.7 packet repeater.

Art modified the old 147.13 repeater and added a "real" PL to the output of the repeater rather than the "pass through" PL that it originally had. Now you can use your PL Decode for autopatches and general listening.

Brian-KE6QBW, one of our Navy members, was a first time worker and was promptly put to work digging a deep hole for one of the three new guy anchors being added to the tower system. Brian also helped with other small jobs. Brian even had a small tree he transplanted named after him.

# The NiCad Lady N6WPA

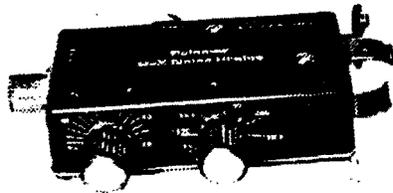
Battery Pack biting the dust?  
Get your power source rebuilt  
with NEW higher quality cells!

Up to a 50% Savings over the  
cost of a new pack!

- Radios
- Laptops/Notebooks
- Test Equipment
- Camcorders
- Any Special Application

(909) 678-0943

## R-X Noise Bridge



- Learn the truth about your antenna.
- Find its resonant frequency.
- Adjust it to your operating frequency quickly and easily.

If there is one place in your station where you cannot risk uncertain results it is in your antenna.

The price is \$79.95 in the U.S. and Canada. Add \$4.00 shipping/handling. California residents add sales tax.



Send for FREE catalog describing the R-X Noise Bridge and our complete line of SWR Meters, Preampifiers, Toroids, Baluns, VLF Converters, and Loop Antennas.

# PALOMAR ENGINEERS

Box 455, Escondido, CA 92025  
Phone: (619) 747-3343

Les-KE6QIM cleared out brush, trimmed trees, and cut down a tree that looked like it might fall on a guy line.

When we cut down trees, they are stumped about two feet off the ground so that the tree will come back more as a "bush" helping to shield the PARC buildings. Until we can find bushes that will grow on Palomar Mountain, we will continue this practice. If anyone has a "green thumb" and can help us with suggestions for plants and trees that will help "cover" up our presence, please contact W9FQN or another Board Member.

David-KC6YSO supported Stan-W9FQN while he was on the tower attaching the new guy wires. On the ground it was a nice day but 50' up it was windy and cold. David made measurements of anchor points and adjusted all guys to their proper tension with our tension meter (100 lbs). =SK=

(11-17-95) Mike-AB6QT, who has responsibility for the 146.73 and 449.425 repeaters, fixed a "HARLEY-DAVIDSON" feedback loop in 146.73 which was caused by a Tech forgetting to reconnect an audio interface board properly. The problem was quickly fixed. =PARC=

### DECEMBER BUSINESS

The following manufacturers, companies and publishers have been invited to display their products and services at the TUESDAY

December 5th meeting:

- ANTENNA OPTIMIZERS- Brian Beasley  
Antenna programs, predictions
- ATLAS RADIO CO- Herb Johnson-W6QKL  
Atlas Radio Repair
- AZTEC RF-
- BROCK PUBLICATIONS-
- COMER COMMUNICATIONS- Brian Comer  
Computer operated Transceivers
- DUANE HEISE- Callbooks, publications  
ARRL publications, etc.
- HAM RADIO OUTLET- The Candy Store  
(The) NICAD LADY- See SCOPE Ad  
Nicad batteries for all needs  
(Call to bring special items)
- PALOMAR ENGINEERS- Jack Althouse  
All sorts of electronic gages
- RADIO CONTROL SYSTEMS INC-

- Radio Control projects
- RADIO ENGINEERS- Direction Finders
- RF PARTS- Merrit Arnold  
Antennas, transistors, tubes, etc
- SMILEY ANTENNAS- Antennas & stuff
- SOLAR ELECTRIC- get UR son working
- SWIECH COMMUNICATIONS- Gene Swiech  
Antennas (beams, Converters, etc)
- (The) WIRE MAN- wire and cable  
Don't forget your check book  
..or credit card!
- In addition, PARC will have a booth with STAMP PINS, BADGES, HATS, MEMBERSHIP, etc. =PARC=

SAVE BIG ON '96 CALLBOOKS  
North American or International  
(retail \$35) \$27.95; Both \$52.95

NEW: Radio Amateur Callbook  
CDROM '96 (retail \$50) 39.95  
QRZ! HAM RADIO CDROM vol.5) 15.95

'96 ARRL Handbook w/s.w(\$38)35.95  
'95 ARRL Handbook (\$30) 25.95  
ARRL Antenna Book 17ed(\$30) 26.95

ARRL Repeater Directory (\$7) 5.95  
North American Repeater Atlas 9.95  
ARRL Operating Manual vol.5 20.95  
FCC Rule Book ('95) (\$12) 10.95

Now You're Talking (\$19) 15.95  
Gen. or Adv. License Manuals 11.95  
Any other ARRL publication . call  
POSTPAID. Add 7% tax(CA orders)  
Duane Heise, AA6EE (pd ad)  
16832 Whirlwind / PARC12  
Ramona, CA 92065 Ph.789-3674

FORESAIL  
Junk = Security

Ph/send ads 2 W9FQN (C Ed's  
addr) B4 20th of mo. w/ur NAME,  
CALL, Ph #, & CITY. PERSONAL ads  
FREE 2 members. Others cost  
25c/col. line (35spaces). =SK=

Block ads: business card (1/3rd  
col.) \$5; 2/3rd col \$10; 1 col \$15;  
4 card size (almost 1/2 horizontal  
page) is \$20 per issue. Billed Feb,  
May, Aug, & Nov.

Keven Sanders, KN6FQ, in  
Escondido is now handling PARC's  
extensive tube bank. Contact Keven  
at 432-8381 for availability and  
prices.

\*\*\*\*\* N E W A D S \*\*\*\*\*

(11-21) ICOM-735 HF xcvr w/ICOM PS-55 PwrS mint cond \$700; HENRY TEMPO 2000 HF 2kw amp \$400: Dennis N6KI 271 6079.

(11-09) IBM compatible OKIDATA 192+ NLQ dot matrix printer, stand, paper, parallel cable & manuals \$49: Howard WB6AKM 453 3156N or 642 2400 x 1201 Days (SD).

(11-2) ICOM IC-720A all band + mic \$250 OBO; WESTCOM RS-20A 20A/16A cont. reg pwr sup 13.8vdc \$75 OBO; SWAN 1200x linear amp \$125 OBO; MFJ DELUX VERSATUNER II mod MFJ-949c dual ant and xmtr tuner \$75 OBO; DIGALOG Freq Counter FM-30b \$10; COBRA CB base 2000 GTL with 10m xtal + other extr xtals \$120; and PALAMAR BASE STATION RF TESTER PW-5000 \$50 OBO: Lee 744 4609 or Al N6GNB 741 1840 Esc.

(10-23) KWM-2+pwr supply ex cond: Joey-NU6L 749 0276 VC.

(10-19) Heathkit SB-100 100w tube transceiver. Great first rig. Call for price. Stan W9FQN for PARC 749 0276 Villy Ctr.

(10-03) Power supplies 5v@2A-35A \$5-\$35: Mike (mountain) AB6QT 742 1573 PalMt.

(10-03) Compudyne modum 2400 \$20: Steve W2MRM 451 5690 R.Bernardo.

(9-23) UNIDEN HR-2510 10m xcvr all modes (mod for 11m & "black-hole") \$200 OBO: Gayle KM6WF 673 9201 Poway.

(9-20) DRAKE 1kw HF VT STN R-4B, T-4XB, L-4B, include Heath HD-15 patch, AM-2 SWR, SB-610 monitor scope, dump load, gud cond demo available \$1,000: Ivan W6TET 276 7148 SD.

(9-16) 286 Computer w/color monitor & 20mb HD gud for packet: Rusty AA60M 747 5872 Escondido.

(9-13) To person buying two Tandy 1000EX computers and video monitor. We have several books on their operation and use. They will be at the October meeting: See John WB6IQS or call 727 3876 Vista.

(8-26) HP-2631B serial dot matrix printer wide carriage + stand: Jo-KB6NMK 741 2560 Escondido.

(8-7) ICOM 730 HF mobile rig 10-

80 meters, gud base also, manual, pwr, mic & mobile mic \$600 or best offer: Curtis N6XXU 599 0178 Vista.

(7-18) Triaxe(?) Twr 52' crank-up ready to go w/new motor & orig paperwork \$575; Two Sony stereo reel-reels for station recording \$20ea; IBM Quietwriter printer/cut sheet feeder \$20; Call/fax for list assortment major software for Windows; Mark KC6CZO Escondido.

(5-17) Tempo 2020 w/extra VFO \$150; ICOM micro 2AT w/extra batteries, charger, mobile charger + accessories \$200: Alf WB6TAW 941 2428 Vista.

\*\*\*\*\*-OLD ADS PRINTED ON ODD MONTHS  
\*\*\*\*\* W A N T E D \*\*\*\*\*  
"A larger storage shed"

(11-21) KENWOOD TS-850s w/cw filts also 5000hz filts for KENWOOD 940/850: Dennis N6KI 271 6079.

(10-25) Daisy Wheel printer that can do graphics: Bill IM2NUT 122 1004

(10-20) 220 mobile with PL: Bill N6FMK 941 9492 Vista.

(9-15) Need to copy manuals for Heathkit IG-1271 pulse generator and AM-1 antenna impedance meter: John WB6IQS 727 3876 Vista.

(9-13) Color monitors which have video and sound inputs to be used in five medical clinics in Mexico. VCR's will be used to play "health topics" to patients as they are waiting to be seen by the doctors: Nash W6HCD 940 1028 Bonsall.

OLD WANTED PRINTED ODD MONTHS =PARC=

- N E T S -

The MARA EMERGENCY SERVICE NET meets on 147.075 at 8:30pm and NOT on 147.130 as listed in the November SCOPE (I was told no one reads the SCOPE! -Ed). =SK=

Paul-KD6JXY is looking for an older 2m rig that can be used on the 146.73 THIS WEEK IN SAN DIEGO on Sunday evenings at 9pm. It does not need PL but does need to run for about 45 minutes on low power.

He is also looking for help with the 9pm Thursday evening Computer Net which could include World Wide Web, FTP, Email, Newsgroups, provider info, etc. =SK=

\*\*\*\*\* 15 NETS \*\*\*\*\*  
EVERY DAY TRAFFIC NET ... 8p 146.73  
SUN.AR EMERGENCY SERV . 8:30 146.73  
SUN.SAILORS NET ..... 10am 146.73  
SUN.MARA Emerg Serv . 8:30p 147.075  
SUN.THIS WEEK IN SD ..... 9p 146.73  
MON.EVAC NET(2/4th) .. 6:45p 147.13  
(M->F) MORSE CODE .... 7-8p 147.075  
MON.SUB RACES NET .... 7:15p 146.73  
MON.MICROWAVE NET ..... 9p 146.73  
TUE.VOICE PKT NET ..... 9p 146.73  
WED.SPANISH NET(2/4th) .. 9p 146.73  
THU.ALL SCHOOL NET ..... 7p 146.73  
THU.HAM HELP NET .... 8:15p 147.075  
THU.COMPUTER HELP NET ... 9p 146.73  
KING HENRY'S FACETOUS N. 10p 147.13  
\*\*\*\*\* 28/week \*\*\*\*\*  
=PARC=

\*\*\*\*\* Y O U N G P E O P L E N E T S \*\*\*\*\*

There is a YOUNG PEOPLE's net on Fallbrook 147.175 (PL-107.2) repeater every Tuesday evening at 7:15pm and all young amateurs in the North County area who can hit the .175 repeater are invited to join in on their net. This net meets immediately after the ARES net at 7pm net on .175 and does accept 3rd party check-ins.

Contact: KE6W0G Jason ...731-6209 Fallbrook =SK=

Recently there has been interest in re-activating the Young People's Net (YPN) which used to be on the 147.13 repeater on Saturday evenings.

They have now suggested 146.73 since several of the YP's do not have PL's in their rigs. Thursday evenings at 7:00pm has been selected to start the net and it will go into operation on December 7th. This net would cover all of San Diego County and has been approved by the PARC Board on a trial basis.

They will accept "third party" check-ins from young people without licenses but operating under the direct supervision of a licensed operator.

If you know of anyone else, please contact Jason-KE6ZIB (747-9172) in Escondido or Kyle-KE6ZYI in Ramona.

Each of PARC's nets have a

  
**DSP 100**  
**The PC Transceiver**

**\*General Coverage Receiver 450 KHz to 30 MHz.**  
**\*-10 dBm exciter output for all HF amateur bands. Simple no solder components available to raise power output to 50 or 100 Watts.**  
**\* High Dynamic Range Direct Conversion Architecture with full DSP.**  
**\* Two ISA bus card system, uses an Analog front-end Card and a DSP card for all passband filters and modulation / demodulation.**  
**\* FREE software upgrades.**  
**Call our BBS on (619) 744 4032 for more info and FREE demo software.**  
**Receiver/Exciter + DSP \$695 +tax**

**COMER COMMUNICATIONS INC.,**  
**609 Washingtonia Drive,**  
**San Marcos, CA. 92069.**  
**Tel (619) 744 7266 Fax (619)744 4745**

stated purpose. For example: Packet, Microwave, Spanish, Traffic, etc. One of the problems with a Youth Net is to have something of interest for the majority of the members which will hold their interest despite age and interest differences. To keep interest high, the net needs to be interesting most of the time and to provide all with an opportunity to participate in some way.

These Nets might want to consider some of the following areas for net participation:

- 1)what classes are you taking?
- 2)discussion of monthly trips.
- 3)problems with any of your lessons
- 4)problems with any radio items
- 5)places you have visited
- 6)interesting things at school
- 7)best class and why
- 8)..... (ideas?) .....

If anyone can come up with more suggestions. Please send them to one of the previously listed youth members or to W9FQN who will see that they get to the youth net con-

trols.

It has been suggested that the group have some Saturday or Sunday activities every other month where they would be able to "eye-ball" each other.

Some of the suggested activities are:

- Ant. building workshop (J-pole)
- Hidden transmitter inst/hunting
- Amateur Radio Camping weekend
- Gnd. Position Station Operation
- Visit to the PARC repeater site
- Visit to Palomar Observatory
- Visit to PARC's PALBBS in Vista
- Visit amateur stations: HF,ATV, packet, HF packet, DX, RTTY, CW, MARS, etc.

- How a repeater is put together
- Contest weekend(s)
- Rose Parade weekend
- Mexican XE operation(s)
- (other suggestions?)

If any "older" ham would like to help this group in one or more activities, please contact W9FQN at the next meeting or call him at 749-0276 Villy Ctr.

This means that Thursdays on 146.73 there will be the following nets:

- 7:00pm YOUNG PEOPLE's NET
- 8:00pm N.COUNTY TRAFFIC NET
- 9:00pm COMPUTER HELP NET

Each net has about 55 minutes set aside for its operation although most nets take only 15-30 minutes depending upon net participation.

If you hear a net on 146.73, we suggest that you move to 147.075 or 147.13 which do not have nets at these times except for the 7-8pm CW net on 147.075. =PARC=

Thanks to:

Harry-WB6JVS for a copy of the SWAN SWR-1 swr meter manual. =SK=

Bernece-N6WQR for the donation of an 11-el 2m beam to the RACES Van with James-N8NHV cleaning it before installation. =SK=

Dennis-N6KI for the multitude of "interesting" magazines which I always look through. =SK=

Milt-W6MK for more W5YI reports. =SK=

Duane-AA6EE for RCA "Transis-

tors" booklet ..learned a few new things and for the SCANNER news publication which had good articles on "Cloning Ham HTs" and a San Onofre Site Map. =SK=

George-K6YGK for R&D and COLD FUSION magazines ..as an old physics teacher your editor enjoys reading electronic and physics type magazines.

Gayle-KM6WF, Larry-WA6UTQ & Duane-AA6EE for information from the ARRL convention in L.A. with each supplying different items. =SK=

ART-KB6YHZ & Anita-KB6YHY made the coffee and supervised the drink & goodies ..and members bringing goodies were: KE6MRW-Wally, KM6PY-Bill, AA6EE-Duane, N6ISC-Paul, N6XCC-Jim, K6YGK-George, and N6TCB.

THANKS TO THE GOODIE BRINGERS FOR HELPING MAKE THE CLUB MEETINGS A BIG SUCCESS.

Goodies were great and you were rewarded with ONE participation ticket. =SK=

If we miss anyone, please let your editor know WHO and WHEN. =PARC=

\*\*\*\*\*  
 - N E W S - etc.

Contributions by the 20th) Please send "newsworthy" items 2-UR Editor Via PALBBS, letters, notes, or hand them to me at club meetings. =SK=

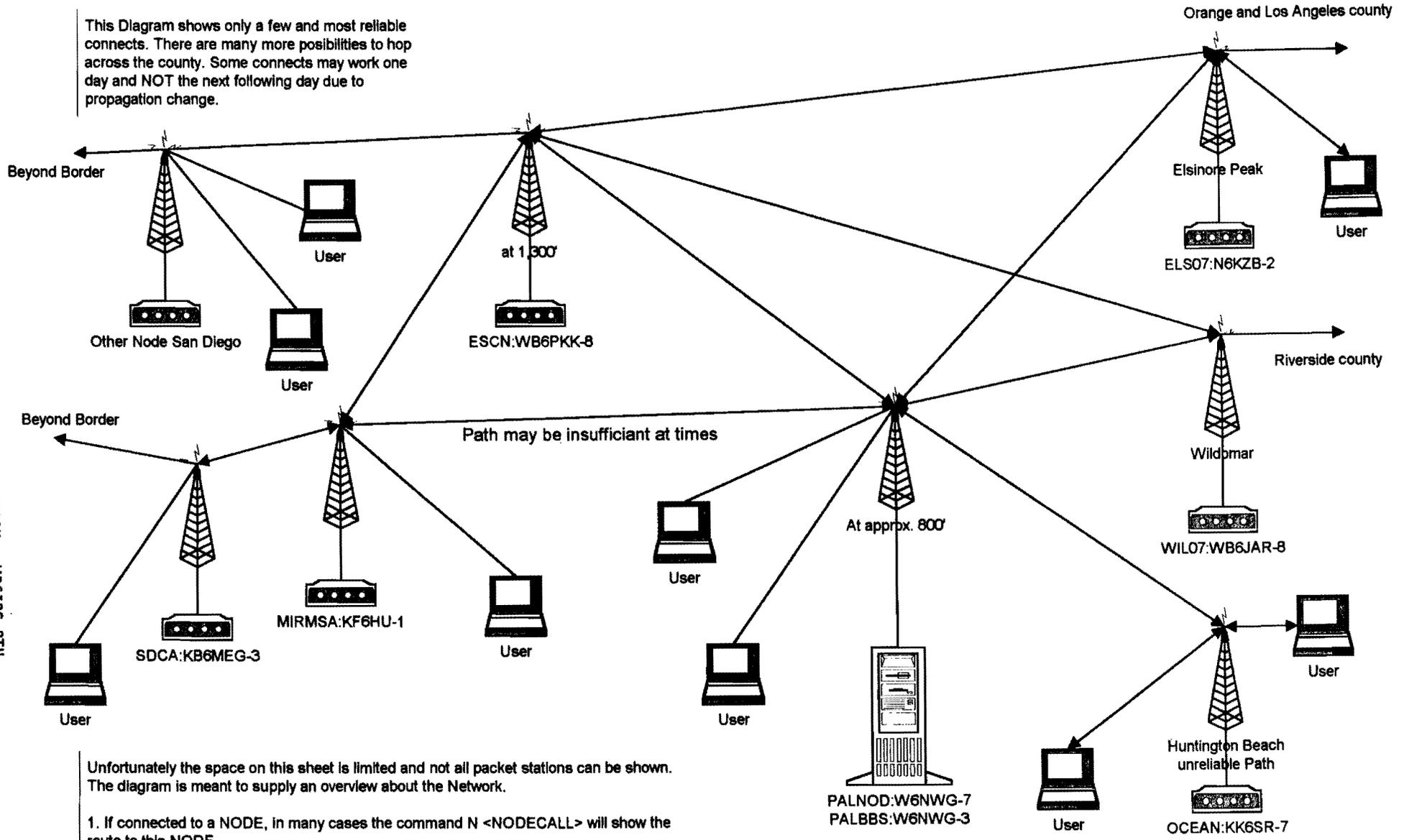
An Escondido Radio Shack reports someone calling them and asking if the 2m HT which they bought at a swap meet required a ham license ..sooo those in Escondido should be looking for unauthorized operation soon ..along with several boys who already have access to an HT. =SK=

Be on the "LOOK OUT" for Dick-KC6QBD. He was last heard in his motorhome traveling from El Cajon to Escondido for a stay at a motor home park. =SK=

Recently there have been coments about "repair" times for various makes of electronic equipment heard on our repeaters. Please contact W9FQN and let him know if you were satisfied or not satisfied with the work being done. We will publish this information so that those

# PALNOD Connect Diagram on 145.070 Mhz

This Diagram shows only a few and most reliable connects. There are many more possibilities to hop across the county. Some connects may work one day and NOT the next following day due to propagation change.



Unfortunately the space on this sheet is limited and not all packet stations can be shown. The diagram is meant to supply an overview about the Network.

1. If connected to a NODE, in many cases the command N <NODECALL> will show the route to this NODE.
2. Typing I at the command prompt will in many cases give the information about the connected NODE.
3. Many NET/ROM stations have gateways attached i.e. re-route you to another frequency. This can be very confusing at times because the connect you made is re-routed possibly even to another BAND.

**Legend:**

User Terminal

NODE & PBBS

NODE

Dec. '95 Pg.142yr-77010f.

BOARD MTG THUR, Dec.14th, 1900hr, WB6IQS QTH

SCOPE-Dec '95

# HAM RADIO OUTLET

"LARGEST HAM OUTLET IN THE WORLD"  
ALL MAJOR BRANDS IN STOCK NOW!

163 Clairmont Mesa Blvd  
HRO  
VISA

rfconcept

DIAMOND ANTENNA

US TOWER

KENWOOD

HUSTLER  
ICOM

K&Kantronics

BENCHER, INC.

MFJ

YAESU

COMET

Cushcraft

OUTBACKER

hy-gain

Astron

AMERITRON



Larsen Antennas

Tri-Ex



AEA

TEN-TEC

Open: 10a.m. - 5:30p.m.  
Monday thru Saturday

560-4900  
or toll free 1-800-854-6046

## 5375 KEARNY VILLA ROAD, SAN DIEGO

stated purpose. For example: Packet, Microwave, Spanish, Traffic, etc. One of the problems with a Youth Net is to have something of interest for the majority of the members which will hold their interest despite age and interest differences. To keep interest high, the net needs to be interesting most of the time and to provide all with an opportunity to participate in some way.

These Nets might want to consider some of the following areas for net participation:

- 1)what classes are you taking?
- 2)discussion of monthly trips.
- 3)problems with any of your lessons
- 4)problems with any radio items
- 5)places you have visited
- 6)interesting things at school
- 7)best class and why
- 8)..... (ideas?) .....

If anyone can come up with more suggestions. Please send them to one of the previously listed youth members or to W9FQN who will see that they get to the youth net controls.

It has been suggested that the group have some Saturday or Sunday activities every other month where they would be able to "eye-ball"

each other.

Some of the suggested activities are:

- Ant. building workshop (J-pole)
- Hidden transmitter inst/hunting
- Amateur Radio Camping weekend
- Gnd. Position Station Operation
- Visit to the PARC repeater site
- Visit to Palomar Observatory
- Visit to PARC's PALBBS in Vista
- Visit amateur stations: HF,ATV, packet, HF packet, DX, RTTY, CW, MARS, etc.

How a repeater is put together  
Contest weekend(s)

- Rose Parade weekend
- Mexican XE operation(s)
- (other suggestions?)

If any "older" ham would like to help this group in one or more activities, please contact W9FQN at the next meeting or call him at 749-0276 Villy Ctr.

This means that Thursdays on 146.73 there will be the following nets:

- 7:00pm YOUNG PEOPLE's NET
- 8:00pm N.COUNTY TRAFFIC NET
- 9:00pm COMPUTER HELP NET

Each net has about 55 minutes set aside for its operation although most nets take only 15-30 minutes depending upon net partici-

pation.

If you hear a net on 146.73, we suggest that you move to 147.075 or 147.13 which do not have nets at these times except for the 7-8pm CW net on 147.075. =PARC=

\*\*\*\*\*  
L E T T E R S to the E D I T O R  
UR editor and the board reserve the right to publish/edit all letters.

-----  
(31Oct95) Good afternoon from Cappy at Mylo N. Dakato ..temp -5 below zero and snowing. Please say hello to everyone. Enclosing membership dues. Now have BBS: SP KC6MVG@WCOM.#RL.ND.NOAM

(Cappy has been (and is) Captain of many commercial boats in and around the SD/LA area and operates all modes -Ed).

=SK=  
(de Tony-K3UKW) ..hello ..wanted to let you know that I'm still going strong with my used gear business but haven't heard much from SCOPE PARC members. Thought some calls would follow but none did. Some month back I did sell one fellow an antenna tuner ..anyway for now 73! (Tony runs a used Ham Gear business, 1609 So. Iseminger St, Phila. PA. 19148-1010 and your

# PARC Membership Application

AMATEUR CALL
CLUB MEMBERSHIP? <input type="checkbox"/> NEW <input type="checkbox"/> RENEW
ARRL MEMBER? <input type="checkbox"/> YES <input type="checkbox"/> NO
LAST NAME
FIRST NAME
STREET ADDRESS
CITY
STATE ZIP
HOME PHONE
WORK OR OTHER PHONE
HAM LICENSE EXPIRES
FAMILY MEMBERSHIP (List other calls and names)
CLASS OF LICENSE <b>N T T+ G A E</b>

\*\*\*\*\*  
 - P A R C B O A R D -  
 Pres : Art McBride . KC6UQH 7418143  
 VPres: SybilAlbright W6GIC 2784284  
 Sec : David Doan . KC6YSO 2864888  
 Treas: JenniferThieme KM6WG 5991134  
 RptTec:John Kuivinen WB6IQS 7273876  
 SCOPE :Stan Rohrer . W9FQN 7490276  
 MemShp:Ralph Powell KC6WAN 7277415  
 Member:Mike Doyle . AB6QT 7421573  
 Member:MarvinMunster WB6PKK 7472223  
 \*\*\*\*\*  
 VE Program: Rusty . AA6OM 7475872  
 ATV/Edu. : Bill . KB6MCU 5822313  
 PALBBS : Norbert KJ6ZD 6305538  
 \*\*\*\*\*

Nov. SCOPE FOLD/STAPLE  
 Editor:Stan Rohrer-W9FQN 30311 Cir.  
 R.Ln.,Villy Ctr CA 92082 . Forms  
 KC6WAN,Ralph Powell,Printing,Labels  
 KI6JM Jack Hanthorn,Folding Refresh  
 W6TFB Lloyd & Lisbeth Hunt,Folding  
 WA6UTQ . Larry Ruegseger Folding  
 N6WQR Bernice Rosenberg Folding  
 WA6Y00 . Harry Hodges . Staples  
 KB6NMK . Jo Ashley . Labels  
 Started at 12pm, ended at 1:45pm  
 \*\*\*\*\*

(continued from page 11)  
 editor has made available his "used  
 equipment" lists (when available)  
 for members inspection at club  
 meetings .Tony, Ad rates U  
 requested are always on page 7 -  
 Ed).  
 =PARC=

\*\*\*\*\*  
 - A R R L L E T T E R -  
 De recent ARRL Letters:  
 FCC sets VE test fees at \$6.07.  
 They were \$5.90.  
 PARC supports SANDARC which  
 charges \$0.00! =SK=  
 Telephone area code for ARRL Hdq  
 has been changed to 860. The main  
 switchboard number is now 594-0200  
 and other numbers are-  
 594-0259 - fax  
 0300 - ARRL/VEC  
 0301 - Educational  
 0214 - Technical Info  
 0234 - DXCC  
 0252 - Contests  
 0274 - QSL Service  
 0288 - Awards  
 =SK=

Dec. '95 S.Call?:

(Sponsor's call not required)

Mail this form with your check to PARC,  
 P.O. Box 73, Vista, CA 92085-0073 or hand  
 to membership chairman at club meetings.  
 We prefer checks to cash, it's safer and you  
 have a record. Dues are \$12 a year which  
 includes \$3 for the Scope, or \$21 for a family  
 all at the same address. Consider paying for  
 two or three years at a time to reduce the  
 work for the membership chairman.

Name, call and complete address are re-  
 quired. Telephone number is requested but  
 may be unlisted in roster if you prefer.

For notification of acceptance and an  
 autopatch information and code sheet send  
 SASE with application or the receipt of the  
 next newsletter mailed the last week of each  
 month will be your only notification.

- Dec 1995
- 1-133 Trustee,Msgs,FD,Nominations
  - 2-134 LastMtg, 1000 members, . . .
  - 3-135 Prizes, Board, President, .
  - 4-136 Membership, H.R. Roundup, SK
  - 5-137 Repeater Tech, Patches, . .
  - 6-138 Repeater Ops, Work Parties .
  - 7-139 Dec Business, Ads, Sale, . .
  - 8-140 Wanted, Nets, Young Nets, .
  - 9-141 Thanks, News, . . . . .
  - 10-142 Packet Diagram, . . . . .
  - 11-143 Letters, . . . . .

INTERNET has a section called "Boatanchors."

The ARRL home page on the INTERNET is-

<HTTP://WWW.ARRL.ORG/>

=PARC=

# Amateur Radio Today

*Note* ↘

S C O P E, US Post Office #076530  
 Published monthly by: = PARC, Inc.=  
 Membership \$12/yr including \$3 for  
 SCOPE inside SDCo (outside \$4).

\*\*\*\*\*  
 =====  
 THE WEDNESDAY CLUB MEETING WILL BE Vista CA 92085-9998  
 2nd Class Postage Paid

ON TUESDAY AT 7:30PM

Vista	Mira M	La Mesa	Fallbrook	Membership Expires PRC yy mm	License Expires LX yy mm
Palomar Mountain					

POSTMASTER: Return to -> S C O P E  
 P.O.Box 73,Vista, CA 92085-0073

Phone Codes  
 Deliver To

*Tues.*  
 Meeting 1st ~~Wed~~ of Dec. at 7:30pm in the Carlsbad Safety Center

C U There!