



Palomar Amateur Radio Club

January 2004

January Meeting

Wednesday January 7, 2004

Carlsbad Safety Center

Emergency preparedness and the response to firestorm 2003 by AC6V, WB6BFG, and other hams involved. Come at 7:00 for refreshments and chat.

PARC Repeaters

Palomar Mt. Repeaters (W6NWX)

PARC Trustee: AB6QT

*52.680- W6NWX, -0.5 MHz.

Autopatches:

146.730-, *147.075+

* 147.130+, *447.000-

PKT:

145.050s (PALMAR/W6NWX-1)

146.700- (Duplex Pkt) PALBBS/
EMG use

145.070/146.7 - (W6NWX-3/PALBBS)

ATV "OUTPUT":

1241.25 MHz. am

ATV "IN":

915 wbfm, 919 am, 2441.25 wbfm

Intercom:

146.415 PL 79.7 nbfm

Affiliated:

*224.38- & *224.94 KK6KD (HARS)

*447.05- & *145.26 KK6KD (HARS)

*146.175+ N6FQ(FalbrkARC) linked to

*445.600 MHz (-)

*224.90- WD6HFR (Convair/220 ARC);

446.14- WB6FMT(123.0)Vista;

* = 107.2 Hz. PL Tone

President's Message

On behalf of the PARC Board of Directors, please accept my best wishes that you enjoyed a very Merry Christmas, and that the New Year is already proving to be one of success and health for you.

Last month it was a pleasure to introduce the new Board of Directors to you. In case you missed the meeting, please welcome KD6TUJ (Dennis), AD6VI (Steve), and K6KAL (Dick) to their new roles as Vice-President, Director #2, and Secretary of PARC. With me (NN3V), KB6NMK (Jo), KR6BT (Merle), W6GNI (Al), AB6QT (Mike), KD6VHI (Mike), and KG6EQU (John), they round out your PARC Board for 2004. John is a member "ex-officio", appointed to the Board to represent the new hams, but is a non-voting member.

I am compelled to thank KB5MU (Paul), KF6WTN (Mark), and NE6O (Jim) for the support and time they gave the Board during their service. They played key roles in many of the actions taken over the past several years in establishing a strong position for the Club's ongoing efforts, and they deserve the thanks from each member of the Club.

In the minutes of the December Board meeting, you will find a se-

ries of topics we discussed addressing ideas Board members have as to the direction the Club should take over the next twelve months. I wonder if you have given thought to any of those directions?

One aspect of the Club that the Board sees as a concern is the maintenance of the technical support level for continued repeater operation. We need to grow our technical support staff. The repeater technical committee is looking for new technically inclined members who are willing to dedicate some time to familiarizing themselves with the repeaters, and in some cases, to learn the intricacies of equipment maintenance and repair. We - PARC - must face the fact that the existing support staff has been involved for many years, and several have indicated they are preparing to go on to other phases of their lives, including moving from the area.

So, if you have a desire to become technically active in supporting the PARC infrastructure, now is the time to take action. Please communicate your willingness to help, either via email, on the repeaters, or by talking with any of the Board members.

73 de NN3V

Minutes

Palomar Amateur Radio Club Board of Directors

December 10, 2003

The meeting was called to order at 7:00 PM by NN3V at the home of KR6BT. Present were:

President, Charles Ristorcelli, NN3V
Secretary, Dick Kalkofen, K6KAL
Director Stephen Early, AD6VI
Treasurer, Jo Ashley, KB6NMK

Vice President, Dennis Baca, KD6TUJ
Director, Merle Risdon, KR6BT
Membership Chairman, Al Donlevy, W6GNI
New Member, John Earnest, KG6WQU

Treasurer's Report

KB6NMK distributed the Treasurer's Report. It was noted that this month's report was not balanced, as the statement was not received from the bank. A **Motion** by K6KAL to accept the Treasurer's Report as distributed was **Seconded** by Steve AD6VI, with the provision to review the balanced report at next board meeting. The **amended** motion was **Seconded** by Merle KR6BT. Motion **passed** unanimously.

Secretary's Report

The Minutes of the Nov 12th board meeting from KB5MU, distributed at the November board meeting and in the Scope was not reviewed at this meeting. The minutes of Nov 12th meeting will be in voted upon at the next meeting.

New Business

Charlie NN3V officially welcomed Dick K6KAL as Secretary, John W6GNI as Director and , John KG6WQU as the New Member Chair.

There was a discussion

prompted by the by-laws as it relates to the responsibilities of the board to ratify the Board Membership. A **Motion** by Steve AD6VI, to accept the selection of the board members in accordance with the by-laws was made, and **Seconded** by Jo KB6NMK.

Duties if various PARC representatives.

The Directors Merle KR6BT and Steve AD6VI will decide between themselves as to which will be the lead for the 'Picnic' and the 'Auction'. Charlie NN3v and Steve AD6VI will be reviewing the list published in the Scope with those listed to see if they are willing to continue with eth duties as listed.

Membership

AL W6GNI reported that the club membership is now at 468.

A list of members that had expired fro Jan to Sept 2003 was used in a club renewal mailing by Al. After 'Working' the list, Al came up with 63 possible renewals, and received 12 responses with 'Renewal' enclosed.

Club Equipment Container

Dennis KD6TUJ, reviewed the 'Container Protocol' for access to the club equipment, on and off hours.

Carlsbad Safety Center

Charlie NN3V and Dennis KD6TUJ will complete and submit the necessary paperwork to continue to use the Carlsbad facilities for club meetings.

General Meeting (Special Election)

Dick K6KAL distributed notes on Election.

A View to the Future.

In a roundtable discussion the board came up with some 'Food for thought' for the future. The collective list is as follows:

- Advanced publishing of meeting programs
- A Linked repeater in Vista to add additional coverage for PARC members
- Enhanced use of current repeaters, IRLP, Echolink, Etc.

- Advanced notice of work parties
- Advertising the club to promote membership, new hams
- Regular scheduled HF nets / Rag Chews
- Field day, members who can't attend, make contact, and exchange QSL cards
- Technical projects with any and all club member welcome

General Meeting Agenda Jan – Apr 2004

January General review of Amateur Radio support during the 'Fire Storm 2003' in San Diego County.

Presenters: Rod AC6V, Bill WB6BFG, and other members/contributors.

February A Discussion / Presentation of Modern Radio Transceiver Design and Production

Presenter: Achim Soelter AD5FS

March Armature Radio Support to San Diego County Animal Rescue Services

Presenter: TERRY RUNYON K3PXX

April A Journey into the Wonderful World of Magic

Presenter: TERRY RUNYON K3PXX

Steve AD6VI tendered a request on behalf of 'TASMA' to use the PARC 147.075 repeater on March 27th from 8:00 am to 12:00 am local time for their semi-annual

Treasurer \$\$\$\$\$

Jo Ashley **KB6NMK@amsat.org**
ASSETS November 30, 2003

Cash and Bank Accounts	
CD	2,827.13
CD	2,681.01
CD	3,385.83
CD	2,829.45
Checking	3,050.85
Post Office	97.15
TOTAL ASSETS	\$14,871.42
LIABILITIES	
Pre-paid dues	7,336.00
Prop. Insurance	1,800.00
LIABILITES	\$9,136.00
EQUITY	5,735.42
TOTAL LIABILITIES & EQUITY	\$14,871.42

'Mapping' exercise. Steve also reported that TASMA is looking for someone from the 'north county' to be a representative as the meetings are held in 'Orange county'.

Next Board Meeting

The November Board meeting will be held at the home of KR6BT at 7:00 pm on January 14.

The meeting was adjourned at 8:35 PM.

Respectfully submitted,
Dick Kalkofen, K6KAL, Secretary

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PARC Pre-Meeting Meeting

All PARC members, and any hams planning to attend the PARC meeting, are invited to congregate early in the Carlsbad area and enjoy dinner with the many meeting attendees who relax and enjoy socializing before the PARC meeting. Listen to the 146.730 MHz repeater starting around 5:00 PM, and you will hear members driving to various restaurants for dinner, and an "eye ball" with fellow hams. **A GREAT WAY TO ENJOY THE HOBBY!** See you there.

Free Tubes

PARC North County Tube Bank offers free tubes for club members. I will deliver tubes to meetings for personal repairs (not for commercial/resale). We have a good assortment of common types (1935-1970).

E-mail WB6IQS@juno.com or call evenings 760-727-3876.

Committee Chairmen

AREInfo.	-Dennis S	K7DCG@amsat.org
Attendance	-Al	W6GNI@amsat.org
ATV	-Art	KC6UQH@amsat.org
Auction	-Jim C.	NE6O@amsat.org
Badges new	-Al	W6GNI@amsat.org
Batteries	-David	KD6EBY DAT@Gerry.Palomar.caltech.edu
BBS Monitor	-Bill B	N6FMK@amsat.org
Billing:Ads/etc	-Lyell K	K6GVM@arrl.net
Contest Info	-Dennis V	N6KI@amsat.org
ControlOps.	-filled	W6NWG@amsat.org
D.Mar Fair-		
Emergency QTH's (Emergency Com. Centers)		
HarryH	-W6YOO	W6YOO@amsat.org
DennisV	-N6KI	N6KI@amsat.org
Field Day	-Charlie R	NN3V@ARRL.net
FDTech.	-John K	WB6IQS@Juno.com
Inventory	-Dennis B	KD6TUIJ@juno.com
New Members	-John E.	KG6EQU@amsat.org
Nets	-	
Newsletter	-Ron S	NA6RS@amsat.org
PALBBSpkt	-Bruno H	KF6QDP@amsat.org
Patch Info	-Stan R	W9FQN@amsat.org
PatchETronics	-Jerry H	WB6FMT@amsat.org
Picnic	-Paul D	NN6X@amsat.org
PowerAC/DC	-Mike P	KD6VHI@amsat.org
Programs	-Dennis B.	KD6TUIJ@amsat.org
Publicity	-	
QSL Cards	-Merle R	KR6BT@Juno.com
RACESinfo	-Jo A	KB6NMK@amsat.org
Red Flag	-	
Rptr Site	-Mike P	KD6VHI@amsat.org
Rptr Skeds	-	
SANDARC	-	
SellerTable	-John K	WB6IQS@Juno.com
AstSWDivDir	-	
TechSite	-Mike D	AB6QT@amsat.org
TestingVE	-Rusty M,	DuneDancer@cox.net
Training	-	W6NWG@amsat.org
TrusteeW6NWG-Mike D		AB6QT@amsat.org

(Net Managers) (see pg.12)

ARES Sun	-	
Staff Net	-David D	KC6YSO@amsat.org
ARES 6m	-David D	KC6YSO@amsat.org
Ham Help	-David D	KC6YSO@amsat.org
Hiking	-Ed	KF6DXX@Juno.com
	-Glenn P	KE6ZLY@Juno.com
MARA	-Cathy	KE6IQU W6NWG@amsat.org
Microwave	-Kerry B	
Off Road	-Jerry A	jwak6pfp@cts.com
	-Dick W	KA7AYT rwilimek@home.com
Sailors	-Paul/Rod	NN6X@amsat.org / AC6V@amsat.org
Traffic(SDCTN)-Charles		N6TEP cmiele@juno.com

Questions about club policy or for information can be addressed to **W6NWG@amsat.org** or P. O. Box 73, Vista, CA 92085-0073.

EMAIL address for Website is **webmaster@palomararc.org**

Other addresses of interest:

Scope@palomararc.org
Board@palomararc.org
Membership@palomararc.org

Club Membership

New Members Joining PARC:

WB6TWL, KG6LYK, WI6M, NC6K, KR6BL, KA6UDA, K6UNZ, KG6TBF,

And, William Groscup, and Dan Musick, both awaiting their licenses.

In response to my request two months ago, for comments on how we can retain members, I received only two e-mails, and one letter. The suggestions were shared with the new board at the last meeting. We continue to have concerns on how to maintain memberships from year to year. **SUGGESTIONS WELCOME!**

On the brighter side, we recently had a substantial number of members renewing their membership after two or more months passed by. KE6GNH renewed for 10 years! Perhaps we need more notice than just printing the expiration date on the mailing label. In January we will print the e-mail address of record on the label instead of the expiration date. (A sneaky way of not admitting that I have a Y2K problem with the database program the first month of the year!)

Al, W6GNI

Bacon Drippings

Hamhock notes 'twas the season to be merry, and Hamhock hopes you did not "pork-out" on too much ham :=))

Ham radio in space has reached another milestone with the successful installation and checkout of the first Amateur Radio on the International Space Station (ARISS) Phase 2 equipment. The ISS now sports a new Kenwood TM-D700E dual-band transceiver in the Zvezda Service Module--the crew's living quarters. ISS Expedition 8 Commander Mike Foale, KB5UAC, set up the new transceiver at NAISS earlier this month. Only official approval is needed to begin operations. Activation of the new gear will mean a power boost for the NAISS downlink signal, which could prove especially helpful in school group contacts. The additional equipment--which soon will include a slow-scan television (SSTV) system--also opens up new operational possibilities.

Antenna Ordnance review: Hamhock is impressed by the opportunity offered amateurs residing in Poway. K7DCG, NN3V, and W6GDK have been invited to participate in a review of a draft amateur radio antenna ordnance the Poway City Planning commission intends to make effective for Poway. W6GDK is sponsoring a news group room on Yahoo that can be found by searching Yahoo for PowayAntennas. Hamhock hopes that San Diego County

hams will be supportive of the actions the Poway hams may need support for, such as willingness to attend Poway City Council meetings when this matter is discussed in public.

Logbook Of The World: Discussions on the repeaters have opened up the subject of "Logbook Of The World". For those unfamiliar, the following quote from QST magazine offers some insight (and time frame) to the origin of Logbook Of The World:

"NEWINGTON, CT, Mar 7, 2002--ARRL's "Logbook of the World" (LOTW) electronic contact-verification program will spark "a culture change" when it's introduced later this year, predicts Project Manager Wayne Mills, N7NG. Once LOTW is operational, participants will be able to qualify for awards such as DXCC or WAS without having to first secure verification in the form of hard-copy QSL cards. But Mills--who heads ARRL's Membership Services Department--is quick to add that LOTW will complement the conventional exchange of QSL cards, not replace it.

"We will not do away with accepting QSL cards in the traditional manner," Mills says. "We're not replacing the whole paper QSL scheme with Logbook of the World."

For more information, visit www.arrl.org, and search for Logbook Of The World to learn the latest about the development of this service.

73 de Hamhock

CLUB PROGRAMS

by NN3V

I've volunteered (once again) to serve as **your** Club Program coordinator.

I underline "**your**" because that indeed is what this function is about. And since the emphasis on Programs is to bring presentations to the Club n matters that interest you, **you** must get involved.

I solicit your ideas on topics, and more importantly, I solicit that **you** arrange a program and coordinate it's presentation. You ask "**How?**" Simple brown cow!

Talk about what interests you on one of the repeaters, and talk with fellow hams. Whether or not you have noticed, the majority of the programs arrange for the Club come from repeater discussions. **But!** Like everyone else, I have a range of matters that interest me that you may find boring. And if you leave it to me alone, I can assure you a long series of programs concerning CW, the fun of Field day, and then we will start at CW again.

So.....**get involved in selecting topics for programs!**

I know I am difficult to get hold of. I am always either on the repeaters, or you can reach me at nn3v@amsat.org

Meanwhile, here is a selection of topics that are already lined up for the next few months.

January 2004: A presentation on emergency preparedness, and the response to the Firestorm 2003 events, organized by AC6V, WB6BFG, and several other hams.

February 2004: Design considerations in modern transceivers. Presented by AD5FS (Achim). Achim is a design engineer, specializing in modern solid-state transceivers. He is going to initiate a series on the topic of modern hardware. This will be the first in a series of some 3 programs to be presented over the year.

March 2004: Ham radio and San Diego County animal rescue services. Organized by K3PXX (Terry), this program will be dedicated to the varied uses of amateur radio, as needed in local County animal services. You will be amazed how much you can do with a handy-talky.

April 2004: An evening of magic. Presented by K3PXX (Terry). Terry's friends will enthral you. A great evening to bring the kids along for a great fun filled evening.

73 de NN3V

Bad News

I am very sad to report the passing of Ken, N6ALA. Ken was active with the Palomar Club for several years and also active on ATV until 1997. Ken was the first to video tape our General Meetings for delayed showing on ATV. Ken built the receive side of his ATV station and also constructed a 1W 10.4 GHz transmitter and companion receiver, which he showed at our picnic one year.

Ken had a heart of gold, always ready to help others and pass along his technical skills. He was active on the WIN system and helped with its maintenance. He was working for GTE who contracted with Chevron for the maintenance of Chevron's two way radio system in El Segundo. Ken spent 5 hours a day commuting to and from work, and used the WIN system during his commute to stay alert on his long commutes.

He will be missed by all.

Art, KC6UQH

Ham Radio Technology

==>HIGH SPEED MULTIMEDIA HAMMING COULD BE THE NEXT BIG THING

High-speed multimedia hamming via the "Hinternet" could be the next big thing for Amateur Radio. That's the hope of the ARRL High Speed Multimedia (HSMM) Working Group, which is adapting the highly popular IEEE 802.11b Part 15 wireless Internet protocol

to Part 97 amateur operating.

"We expect it to be nothing less than revolutionary!" says John Champa, K8OCL, who chairs the ARRL HSMM Working Group--a subset of the League's Technology Task Force. The Working Group's new "High-Speed Digital Networks and Multimedia" page <<http://www.arrl.org/hsmm/>> recently premiered on the ARRL Web site.

Champa's team is calling the specific techniques, software and hardware involved "the ARRL 802.11b protocol" to distinguish it from the unlicensed, commercial protocol. Systems employ direct-sequence spread spectrum techniques and operate in the 2.4 GHz range. The term "Hinternet" (ham + Internet), Champa says, is a user-friendly way to refer to the development of high-speed Radio Local Area Networks (RLANs) capable of simultaneously carrying audio, video and data signals.

"The development of the ARRL 802.11b protocol will significantly enhance Amateur Radio, especially with respect to emergency communication and support of public service activities," Champa predicted. He and his HSMM Working Group colleagues also expect that it will attract many technically oriented users of the Internet and wireless LANs to get their amateur tickets.

In addition to emergency communication, Hinternet applications could include two-way streaming video, full-duplex streaming audio, Voice over Internet Protocol (VoIP) applications such as eQSO, EchoLink, iLink and IRLP, and digital voice. As on the wired Internet, communication can be point-to-point, point-to-multipoint

Contest Coral

Dec 31 ARRL Straight Key Night
 Jan 3 ARRL RTTY Roundup
 Jan 3 Kids Day, SSB
 Jan 10 Hunting Lions In The Air, SSB
 Jan 10 North American QSO Party, CW
 Jan 10 Midwinter Contest, CW
 Jan 11 Midwinter Contest, SSB
 Jan 17 North American QSO Party, SSB
 Jan 17 070 Club PSKFest
 Jan 24 CQ WW 160M Contest, CW
 Jan 24 BARTG RTTY Sprint Contest
 Jan 31 UBA (Belgian) DX Contest, SSB
 Feb 1 NH and VT QSO Parties, All Mode
 Feb 2 10-10 Int'l Winter QSO Party, SSB

We have a mixed bag of contests this time: SSB, CW, RTTY and even PSK31. Some our sprints, some 24 hours, and some 48 hours. Something for every taste. Complete rules may be found in QST, CQ, NCJ and Worldradio magazines. CU in the contest.

73, Harry, W6YOO

and multicast at high bandwidth.

"An emergency volunteer equipped with a laptop or a wireless PDA (personal digital assistant) with a microphone and a small video camera now has the tools to be a mobile set of eyes and ears in the midst of a communications emergency," says Working Group member Kris Mraz, N5KM.

In Michigan, the Livingston County HSMM Experimenters Team already has three HSMM access points--called "APs" in the commercial world--and about a dozen stations on the air centered on 2437 MHz. Another group of Amateur Radio 802.11b enthusiasts has recently organized in the San Antonio, Texas, area.

Continued Page 8

P.A.R.C. Inc (2004 Board)

Pres: Charlie Ristorcelli **NN3V**
 858.676.3307 NN3V@amsat.org

VP: Dennis Baca **KD6TUJ**
 ? KD6TUJ@amsat.org

Sec: Dick Kalkofen **K6KAL**
 ? K6KAL@amsat.org

Treas: Jo Ashley **KB6NMK**
 760.741.2560 KB6NMK@amsat.org

Dir#1: Merle Risdon **KR6BT**
 ? KR6BT@amsat.org

Dir#2: Steve Early **AD6VII**
 ? AD6VI@amsat.org

Repeater Site:

Mike Pennington **KD6VHI**
 760.749-8888 KD6VHI@amsat.org

New Member:

John Earnest **KG6EQU**
 ? KG6EQU@amsat.org

Repeater Technical:

Mike Doyle **AB6QT**
 760.742.1573 AB6QT@amsat.org

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(11.29) Tubes, chokes, transformers, capacitors, etc. for sale. I anticipate moving and all things must go! Please contact for a detailed inventory. Call: NI6N. Email: pat_osullivan_email@yahoo.com. Phone: (760) 940-8355."

(11.23) **Yaseu, FT-1500M** with DC cable, Mic, mounting bracket, manual and original box. Never used mobile. Non Smoker. \$90.00. 1 year old. Jim WB6YXY 760-758-7655 jkeller@cox.net.

(10.13) **Yaesu FT-817** package - includes the FT-817 and microphone, 500 Hz Collins filter, LDG Z-11 auto tuner and balun, W4RT One Plug Power battery, original battery and battery door, dry cell holder, Buxcom Rascal soundcard interface and software, Waters and Stanton AT80 portable antenna and Hf-project 30 watt amplifier (needs work), manual. \$600.00. **SGC 2020 HF** trans-

***Personal equipment ads** are free to members and could be "bumped" after 3 months. Make up your ad like the ones on this page. Send to Scope before the 18th of each month.*

***Commercial Ads** in big boxes: \$2/col. inch/mo. We will "squash" your copy to the number of inches bought.*

SCOPE@palomararc.org

ceiver with ADSP2 and microphone-\$450.00 Gary, W6GDK at (858) 679-0578 or w6gdk@arrl.net

(9.18) **29' Ericson Sailboat**, Auto-pilot, radio, depth sounder, TV, Microwave, Sleeps 6, Head, Galley, **Transformer**, (CV Solar, Input 115v 60cyc, Out, 120v, 25 amp.) **Transformer** (75KVA, 50% Duty Cycle, Primayr 440v, Sec. Parallel Low 5.37,5.88,6.2,6.57 — Hi 7.22,8.15,8.8,9.59 or Series Low 10.74,11.72,12.40,13.14 or Hi, 14.22,16.3,17.6,19.14v, Call Art Nye KB6YHZ, 760-758-0234

(6.19) 10' Satellite System free to user.

Ron, NA6RS@amsat.org or 760-822-5170

(2.22) **Alliance Heavy Duty Rotator, HD73**, new, unpacked, \$100, **Kenpro KR-400 Rotor**,used, new control box, \$50, **Honda portable gen. EM-400**, 300w, 120v, 12v, \$200, **Koolatron 12v thermal electric cooler/warmer**, \$30, Ivan, W6TET, 619-276-7148, 858-273-0219

(2.22) **4 El 10 Meter Yagi Beam** All stainless hardware w/W2DU Beam 50 Ohm Balun. Only up for short time, Very clean, Works very well. \$75.00 OBO Bayard K6GAO 858-755-5507

(10.25) Radio Shack 300-Channel **Hand-held Trunk Tracker Scanner,Pro-90**, Like new in box 80.00. Louie KF6QBS.760-727-0846. kf6qbs@amsat.org.

(10.3) **Bencher Paddle Keyer** and **MFJ automatic keyer** (curtis chip). Like New! \$75 Bob AC6JG 760 207-9045.

WANTED:

(8.15) Looking for a Kenwood TH-79(A)

(AD) LCD module to repair my handie-talkie. W6/VE7CQA (858) 942-5502

Ham Technology cont.

Although other amateur allocations also would be appropriate for Hinternet operation, the use of 2.4 GHz was an easy choice, since Part 15 WiFi (wireless fidelity) devices already operate in that part of the spectrum, and inexpensive commercial equipment is widely available. Acting on an ARRL petition, the FCC has proposed elevating amateurs to primary at 2400 to 2402 MHz.

The ARRL publications catalog now includes the book 802.11 Wireless Networks: The Definitive Guide <<http://www.arrl.org/catalog/category=&words=802.11>> by Matthew S. Gast. The book covers the topics of creating and administering wireless networks.

Champa says that taken in a nationwide context, the meaning of the term Hinternet goes deeper than just an amalgamation of words. "In nautical terms the word hinterland is 'the land beyond the coast,'" he said. "And so it is with us. 'The Hinternet' is the radio net beyond the Internet."

Editor's Note

Please report any errors when found to scope@palomararc.org. If you are a board or committee member, please check your address and phone number as listed. Have a great New Year and let's get involved in your club. 73 de Ron, NA6RS

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Sunday	0830	146.730	ARES
Sunday	1000	146.730	Sailor's Net
Sunday	2045	147.075	MARA Emergency Services
Monday	1915	146.730	RACES Sub-Net
Monday	2100	146.730	Microwave Net
Tuesday	2100	146.730	Off-Road Net
2nd Wed	2100	146.730	PARC Board Net
Thursday	1930	147.075	Young Hams Net
Thursday	2100	146.730	Ham Help Net
Friday	2100	146.730	Hiker's Net
Saturday	2000	52.680	6 Meter ARES Net
Tue/Thu/Sat	2000	146.730	NTS Traffic Net (SDCTN)

PARC Testing

Carlsbad - 2nd. Saturday at 9:30 am in the Carlsbad Safety center.

Contact Rusty **AA6OM**
760-747-5872 or dunedancer@cox.net

EARS Testing

Escondido - LAST Saturday at 9:00 am
Chamber of Commerce
720 N. Broadway, Esc 92025

Contact Harry **W6YOO**
760-743-4212 or W6YOO@amsat.org

Register 5-7 days in advance for tests.

Repeater Status

146.730-	: Normal
147.075+	: Normal
147.130+	: Normal
447.000-	: Normal
52.680-	: Normal
146.700-	: Packet Repeater Normal
145.050	: Packet Digi Normal
PALBBS	: Bulletin Board Normal
AutoPatch	: Normal
ATV	: Upgrading

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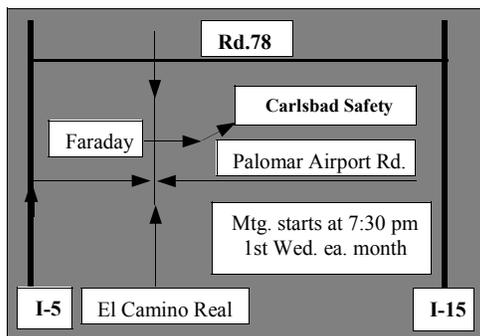
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Palomar Amateur Radio Club Inc.

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Scope address for newsletter: scope@palomararc.org

146.73-, 147.13+, 147.075+, 447.000-, 52.68-; Pkt 146.7-, 145.05 & ATV, 4 Autopatches



President's Message. -

Well, **I got busted this month!** As you can see, this message is an insert. When I usually say it is a busy time, I mean busy. This past month has been **pure hectic!** To the point that I missed the deadline for Scope, but of course, the Fold & Staple Party crew agreed to hold up for my late entry, only if I submitted to a wet noodle lashing. **OUCH!**

The good news in all that is that part of the busy events was a trip to Mexico (Cancun) with the YL to celebrate a 32nd year anniversary, and in the process to do some VHF/UHF hamming. Those of you who travel as hams know the result. **FANTASTIC!** There is nothing like meeting the locals, and getting to see the *real sites* without a tourist guide. We had the pleasure of a wonderful series of adventures around the Chichen-Itza Maya ruins, and I know we would never have seen them that way were it not for the local hams. The same can be said for finding genuine local food, as opposed to the tourist hotel concept of Mexican food for the gringo palate.

On the local front, this month inaugurates our technical program series for 2004. I believe you will be very pleased with NC6X (former AD5FS), Achim, and his presentation on modern transceiver design concepts. This topic will be addressed over a series of meetings, but not all in a row! See the program guide and you will note that there is a change of focus throughout the year's programs.

As your "program chair", I am trying to mix-it-up in response to several requests that we cover topics in greater depth, while also giving you a variety of topic areas. If you have suggestions, you know how to reach me.

Likewise on the local front, the Poway hams are continuing their interaction with the Poway City Council in an attempt to encourage a lessening of the very restrictive antenna considerations faced in the City. More on this as it develops, but on behalf of the Poway hams (and of course "I are one"), please keep informed on this because I am quite certain there will be an opportunity to request PARC member support in a Poway City Council meeting. The desire will be to have a large representation of San Diego hams at one of the meetings in order to show that there are many of us who are involved in this exciting amateur radio hobby, and we have a constituency that benefits all of San Diego. I will try to advise you well in advance of when that opportunity may present itself.

And speaking of Exciting Amateur Radio, have you planned your trip to the **Dayton Hamvention?**

73 de NN3V

February Program: This month inaugurates a series of technical presentations regarding Modern Transceiver Design. NC6X (Until recently AD5FS), Achim, a modern commercial transceiver design engineer, has graciously agreed to prepare a series on this topic.

This month will concentrate on Components. Ever wonder how it is that, you now get an all-band, all-mode transceiver that operates at 100 Watts? Well, come to the PARC February meeting and you will hear all about it!.

Below is a list of upcoming programs. The program topics are identified, and the tentative dates of presentation are also shown though these might change to accommodate the schedule of presenters.

73 de NN3V

Month	Topic	Presenter
Feb 04	Modern Transceiver Design I	NC6X (Achim)
Mar 04	Ham Radio & San Diego County Animal Rescue Svcs.	K3PXX (Terry) Coordinating Presentation
April 04	A Wonderful Evening Of Magic (Bring Guests. This will be fun and non-technical)	K3PXX (Terry)
May 04	Antenna Design, Construction, and Measurements I	KC6UQH & AC6V (Art & Rod)



Palomar Amateur Radio Club

February 2004

February Meeting

Wednesday February 4, 2004

Carlsbad Safety Center

PARC Repeaters

Palomar Mt. Repeaters (W6NWX)

PARC Trustee: AB6QT

*52.680- W6NWX, -0.5 MHz.

Autopatches:

146.730-, *147.075+

* 147.130+, *447.000-

PKT:

145.050s (PALMAR/W6NWX-1)

146.700- (Duplex Pkt) PALBBS/
EMG use

145.070/146.7 - (W6NWX-3/PALBBS)

ATV "OUTPUT":

1241.25 MHz. am

ATV "IN":

915 wbfm, 919 am, 2441.25 wbfm

Intercom:

146.415 PL 79.7 nbfm

Affiliated:

*224.38- & *224.94 KK6KD (HARS)

*447.05- & *145.26 KK6KD (HARS)

*146.175+ N6FQ(FalbrkARC) linked to

*445.600 MHz (-)

*224.90- WD6HFR (Convair/220 ARC);

446.14- WB6FMT(123.0)Vista;

* = 107.2 Hz. PL Tone

REPEATER OPERATION

de AC6V —Part 1

FINDING REPEATERS

One can set their receiver to scan the band and listen for repeaters, but a repeater may not be transmitting or seldom used, so it is catch as catch can. To find repeaters in your area, ARRL repeater Guides are published and guides are also available free on the Internet -- see Web Repeater Guides. <http://ac6v.com/repeaters.htm> Many are open repeaters -- open to all licensed hams. Others are closed for members only and require membership. Some are specialty repeaters such as Emergency or DX repeaters and not amenable to other uses. The repeater guides usually specify this. In large metropolitan areas, coverage of repeaters sometimes overlap and it is hard to avoid hearing two repeaters in certain locations. Tone Squelch may help in some cases.

Most radios offer a Scan function that allows repeater bands to be scanned. Either VFO (continuous) or memory scan can be used. When a signal is encountered, the radio either pauses for a bit or stops on the encountered signal (see manual for options). Using PL seek (if available) will allow you to lock on the PL frequency used by the repeater. This is great for traveling when you don't have a repeater

guide or are too busy driving to fool with radio settings. Since modern radios have in excess of 100 channel memories, some users program their radios for all standard repeater pairs. For typical HF/VHF/SHF Standard pairs -- see Repeater Pairs. <http://ac6v.com/repeaters.htm> In San Diego and Southern California Hams are directed to SoCal Repeaters. Here the TASMA and JPL links are especially well done <http://www.tasma.org/> and <http://rprrlist.w6jpl.ampr.org/>

For the traveling ham, USA Repeaters and indeed World Wide Repeaters -- See World Wide Repeaters. From Austria to Turkey! From Alaska to Wyoming! ac6v.com/repeaters.htm#WWW For San Diego Hams -- some great full color maps showing major highways and where the repeaters are located can be found at the Ramona Outback Amateur Radio Society. 2M, 220MHz, 440MHz roars.net/repeaters.htm For Hams traveling, the ARRL has a CD ROM -- TravelPlus for Repeaters™ CD-ROM Includes User Definable Maps. Repeater List Advanced Search. GPS Tracking Automatic List Refresh -- Automatic list display of all repeaters within defined range during GPS Tracking. www.arrl.org/catalog/travelplus/.

Stay Tuned for Future Parts.

Minutes

Palomar Amateur Radio Club Board of Directors

January 14, 2004

The meeting was called to order at 7:06 PM by KD6TUIJ at the home of KR6BT. Present were:

Vice President, Dennis Baca, KD6TUIJ

Treasurer, Jo Ashley, KB6NMK

Membership Chairman, Al Donlevy, W6GNI

Secretary, Dick Kalkofen, K6KAL

Director, Merle Risdon, KR6BT

Repeater Technical, Mike Doyle, AB6QT

Treasurer's Report of 1/12/2004

Jo, KB6NMK submitted the Treasurer's Report and noted that she has arranged with the bank to provide the statements at an earlier time. The report showed all the CD's with current amounts. It was noted that one CD is up for renewal, and will be renewed for 1 Year. Al, W6GNI moved the report as distributed be accepted, and was seconded by Merle, KR6BT.

Secretaries Report

A correction was noted by Steve AD6VI and should read as follows:

Steve AD6VI tendered a request on behalf of 'MARA' (Not TASMA) to use the PARC 147.075 repeater on March 27th from 8:00 am to 12:00 am local time for their semi-annual 'Mapping' exercise.

Al, W6GNI moved the secretaries report with the corrections as noted be accepted, and was seconded by Jo, KB6NMK.

Discussion Items

Dennis, KD6TUIJ reported having a discussion with Dan Rawson, our contact with the City of Carlsbad Emergency Services Coordinator, regarding the use of the meeting room. He initially checked with Parks and Recreations as to a 'use agreement', and they indicated one was not required. Dennis will follow up on receiving written formal agreement through Dan.

Steve, AD6VI submitted an e-mail draft of his review to the board, of the names and 'Chairs' as listed in the Scope. He anticipates having it completed by the next board meeting.

There was a discussion of a formal work party at the repeater site to clean out the container, and move the 'good stuff' to the trailer. This is anticipated to be in 'March' when the 'snow' is gone.

Jo, KB6NMK indicated that 'George Rios' who was renting space for his 2 meter repeater is not current with his payments. Dennis, KD6TUIJ will follow up

with Mike AB6QT, if it is still "on". If the repeater is still desired, Lyell, K6GVM will put him back in the billing cycle to bring him current.

There was a discussion about the club acquiring a laptop computer, and LCD projector, for use by presenters. Dick, K6KAL will check on the projector prices/rentals, and Dennis, KD6TUIJ will check at laptops plus. (a business in carlsbad).

Al, W6GNI will begin giving Dennis, KD6TUIJ copies of the club membership database as a 'Backup' should anything happen to Al's PC.

There was a meeting suggestion submitted by 'Wild Bill'. The topic would be 'APRS Basics and Demonstration'. (Automatic Position Reporting System). The board members will be looking for a presenter for this topic.

The club will be looking for someone to Chair the clubs participation at this years Del Mar Fair (June 11 - July 4). Anyone interested should contact Dennis, KD6TUIJ.

Jo, KB6NMK noted that some of the ad sizes in the Scope were different than being paid for. She will follow up with the editor.

There was a brief discussion on a site for this year's picnic. One primary requirement is water, and restroom facilities.

The 'RF' black holes in north county were briefly discussed, and methods to 'Link' to the palomar repeaters.

Membership report

Al, W6GNI notes that the club now has 481 members. Two more responses were received as a result of the renewal mailing.

Repeater Technical

Mike, AB6QT submitted his report by phone to Dennis, KD6TUJ and all systems were working, no problems mentioned.

Next Board Meeting

The November Board meeting will be held at the home of K6KAL at 7:00 PM on February 11.

The meeting was adjourned at 8:42 PM.

Respectfully submitted,

Dick Kalkofen, K6KAL, Secretary

Technical Report

Dec. 6, 03: de AB6QT

THANKS! to all who came to the work party that resulted in a lot of things getting done. (Mark started it). The original intent was to get the new battery bank hooked up, however this did not get done due to some other tasks that need to be finished first. During our time at the site, we held a technical meeting to discuss the future plan for the new battery bank. We now know what we want to do and we need to take some more equipment to the site and do some tests before we can make our final decision as to how we want to configure the new battery bank. We worked on the old battery bank to get it operational again. As you may remember, during the recent fires we had some trouble with the DC power at the site. One of the problems was that there was a dead cell on one of the banks which was keeping the bank from working at all since they are in a series string. The problems on the other bank were limited to bad connections which we repaired. Mark KF6WTN, Jim NE6O, Valley Mike KD6VHI, Mt Mike AB6QT, and the club Battery Maintenance engineer Dave KD6EBY worked hard to get the dead cell removed (roughly 250 pounds). Then they all made a joint effort to repair the connections and replace connectors as needed. A lot of BAKING SODA was used during the project. We went through about half of a 12 pound bag. The battery banks were both back online by the end of the day. Also at the site, Art

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PARC Pre-Meeting Meeting

All PARC members, and any hams planning to attend the PARC meeting, are invited to congregate early in the Carlsbad area and enjoy dinner with the many meeting attendees who relax and enjoy socializing before the PARC meeting. Listen to the 146.730 MHz repeater starting around 5:00 PM, and you will hear members driving to various restaurants for dinner, and an "eye ball" with fellow hams. **A GREAT WAY TO ENJOY THE HOBBY!** See you there.

Free Tubes

PARC North County Tube Bank offers free tubes for club members. I will deliver tubes to meetings for personal repairs (not for commercial/resale). We have a good assortment of common types (1935-1970).

**E-mail WB6IQS@juno.com or
call evenings 760-727-3876.**

Committee Chairmen

AREInfo.	-Dennis S	K7DCG@amsat.org
Attendance	-Al	W6GNI@amsat.org
ATV	-Art	KC6UQH@amsat.org
Auction	-Jim C.	NE6O@amsat.org
Badges new	-Al	W6GNI@amsat.org
Batteries	-David	KD6EBY DAT@Gerry.Palomar.caltech.edu
BBS Monitor	-Bill B	N6FMK@amsat.org
Billing:Ads/etc	-Lyell K	K6GVM@arrl.net
Contest Info	-Dennis V	N6KI@amsat.org
ControlOps.	-filled	W6NWG@amsat.org
D.Mar Fair-		
Emergency QTH's (Emergency Com. Centers)		
HarryH	-W6YOO	W6YOO@amsat.org
DennisV	-N6KI	N6KI@amsat.org
Field Day	-Charlie R	NN3V@ARRL.net
FDTech.	-John K	WB6IQS@Juno.com
Inventory	-Dennis B	KD6TUI@juno.com
New Members	-John E.	KG6EQU@amsat.org
Nets	-	
Newsletter	-Ron S	NA6RS@amsat.org
PALBBSpkt	-Bruno H	KF6QDP@amsat.org
Patch Info	-Stan R	W9FQN@amsat.org
PatchETronics	-Jerry H	WB6FMT@amsat.org
Picnic	-Paul D	NN6X@amsat.org
PowerAC/DC	-Mike P	KD6VHI@amsat.org
Programs	-Dennis B.	KD6TUI@amsat.org
Publicity	-	
QSL Cards	-Merle R	KR6BT@Juno.com
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Red Flag	-	
Rptr Site	-Mike P	KD6VHI@amsat.org
Rptr Skeds	-	
SANDARC	-	
SellerTable	-John K	WB6IQS@Juno.com
AstSWDivDir	-	
TechSite	-Mike D	AB6QT@amsat.org
TestingVE	-Rusty M,	DuneDancer@cox.net
Training	-	W6NWG@amsat.org
TrusteeW6NWG-Mike D		AB6QT@amsat.org

(Net Managers) (see pg.12)

ARES Sun	-	
Staff Net	-David D	KC6YSO@amsat.org
ARES 6m	-David D	KC6YSO@amsat.org
Ham Help	-David D	KC6YSO@amsat.org
Hiking	-Ed	KF6DXX@Juno.com
	-Glenn P	KE6ZLY@Juno.com
MARA	-Cathy	KE6IQU W6NWG@amsat.org
Microwave	-Kerry B	
Off Road	-Jerry A	jwak6pfp@cts.com
	-Dick W	KA7AYT rwilimek@home.com
Sailors	-Paul/Rod	NN6X@amsat.org / AC6V@amsat.org
Traffic(SDCTN)-Charles		N6TEP cmiele@juno.com

Questions about club policy or for information can be addressed to **W6NWG@amsat.org** or P. O. Box 73, Vista, CA 92085-0073.

EMAIL address for Website is **webmaster@palomararc.org**

Other addresses of interest:

Scope@palomararc.org
Board@palomararc.org
Membership@palomararc.org

KC6UQH worked on the ATV system. He tested the 1265 link transmitter and set the video and audio level for the Santiago receive link. He determined that the loss of audio is in the Valley Center equipment. Mike KD6VHI climbed the tower and readjusted the link transmitter antenna for the direction to the equipment in Valley Center. Mike also re-adjusted some elements on the antenna that were damaged by ice. Mike AB6QT "cleaned up" his mess that he made during the time he was keeping the repeaters on the air during the fires. Let's just say there was a lot of wire everywhere and leave it at that. Greg N7USR did a very expert job at finishing the camper that we put there last summer. It is now ready to start putting things in to for storage.

THANKS to all of you for a JOB WELL DONE de AB6QT

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Pres: Charlie Ristorcelli NN3V
858.676.3307 NN3V@amsat.org

VP: Dennis Baca KD6TUJ
760.722.0251 KD6TUJ@amsat.org

Sec: Dick Kalkofen K6KAL.
760.519.0670 K6KAL@amsat.org

Treas: Jo Ashley KB6NMK
760.741.2560 KB6NMK@amsat.org

Dir#1: Merle Risdon KR6BT
760.941.0213 KR6BT@amsat.org

Dir#2: Steve Early AD6VII
619.461.2818 AD6VI@amsat.org

Repeater Site:

Mike Pennington KD6VHI
760.749-8888 KD6VHI@amsat.org

Membership:

Al Donlevy W6GNI
760.630.3096 W6GNI@amsat.org

New Member:

John Earnest KG6EQU.
858.484.8579 KG6EQU@amsat.org

Repeater Technical:

Mike Doyle AB6QT
760.742.1573 AB6QT@amsat.org

Web Pages

PARC's Home Page -
<http://www.palomararc.org>

Rod's - AC6V
<http://www.ac6v.com>

ARES Alert Publication
<http://sanarrl.org/alert.htm>
Tom's Hiker's - KF6PAZ
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KB6NMK Jo & Toby
W6GNI Al & Kathy & Julie
W6YOO Harry W6JAC Jerry
N6UZH Terri & Mathew & Tyler
KR6BT Merle KG6AEW Bill

Treasurer \$\$\$,\$\$\$

Jo Ashley KB6NMK@amsat.org
ASSETS December 31, 2003

Cash and Bank Accounts

CD	2,829.63
CD	2,683.38
CD	3,389.75
CD	2,832.54
Checking	3,326.09
Post Office	97.15
TOTAL ASSETS	\$15,158.54
LIABILITIES	
Pre-paid dues	7,681.00
Prop. Insurance	1,800.00
LIABILITES	\$9,481.00
EQUITY	5,677.54
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(1.15) **Packard Bell 486SX-25MHz**, 8Meg RAM, 210M HD, 3.5" FD, 5.25" FD, Creative 4X CD ROM & SB16 combo with 14" SVGA monitor. Includes WFWG 3.11 (DOS 6.22) and other software. Needs CMOS battery (\$6-\$10)! Will make a good dedicated packet system if you add a TNC and XCVR. \$40. Contact ad6lp@amsat.org for more info.

(1.12) **10 GHz Gun Plexers** (2) Brand new, still in box, **U-wave MA87.27**, 10.25 GHz Varactor tuned GP xcvr. Make offer & pay shipping. Contact JACK KG6RWI @ 760/749-4572 or e-mail KG6RWI@aol.com for details.

(12.16) **Yaesu FT-230R** 2 Mtr FM Transceiver w/SS32 PL Board \$80.00, **Astron AS-7** Power Supply \$29.00, **Yaesu FT-757GX HF** Transceiver \$350.00, **Yaesu FC-757AT** Auto Antenna Tuner \$300.00, **Yaesu MMB-20** Mobile Mount for FT-757GX \$30.00 or \$600.00 for **FT-757GX, FC-757AT & MMB-20**. **Yaesu FT-227R** 2 Mtr FM Transceiver \$45.00, **Kenwood ST-2** Base Rapid Charger for Kenwood TR-2500 handheld \$20.00, **Kenwood W09-03154** Trickle Chgr for TR-2500 Handheld \$3.00, **Celestron C-8 Catadi-optic Telescope** with Heavy Duty Tripod, Planetary motor-drive, X2 **Barlow Lense** - Spotting Scope, w/manuals \$850.00, 2 - **B&W 9" Security Monitors** \$10.00 each, **Galaxy Electronics PR550** Phone Patch w/manual \$25.00, **Astron AS-20** 20 amp Power Supply w/manual \$70.00, 2 **Larsen 6 Mtr** 5/8 wave mobile antennas, fits NLA Mounts \$10.00 each, **Swan MMBX** mobile antenna matcher \$10.00. Contact Dennis K7DCG @ 858-748-9046 or email: K7DCG @ ARRL.NET

(11.29) Tubes, chokes, transformers, capacitors, etc. for sale. I anticipate moving and all things must go! Please contact for a detailed inventory. Call: NI6N. Email: pat_osullivan_email@yahoo.com. Phone: (760) 940-8355."

***Personal equipment ads** are free to members and could be "bumped" after 3 months. Make up your ad like the ones on this page. Send to Scope before the 18th of each month.*

***Commercial Ads** in big boxes: \$2/col. inch/mo. We will "squash" your copy to the number of inches bought.*

SCOPE@palomararc.org

(11.23) **Yaseu, FT-1500M** with DC cable, Mic, mounting bracket, manual and original box. Never used mobile. Non Smoker. \$90.00. 1 year old. Jim WB6YXY 760-758-7655 jkeller@cox.net.

(10.13) **Yaesu FT-817** package - includes the FT-817 and microphone, 500 Hz Collins filter, LDG Z-11 auto tuner and balun, W4RT One Plug Power battery, original battery and battery door, dry cell holder, Buxcom Rascal soundcard interface and software, Waters and Stanton AT80 portable antenna and Hf-project 30 watt amplifier (needs work), manual. \$600.00. **SGC 2020 HF** transceiver with ADSP2 and microphone- \$450.00 Gary, W6GDK at (858) 679-0578 or w6gdk@arrl.net

(9.18) **29' Ericson Sailboat**, Auto-pilot, radio, depth sounder, TV, Microwave, Sleeps 6, Head, Galley, **Transformer**, (CV Solar, Input 115v 60cyc, Out, 120v, 25 amp.) **Transformer** (75KVA, 50% Duty Cycle, Primayr 440v, Sec. Parallel Low 5.37,5.88,6.2,6.57 — Hi 7.22,8.15,8.8,9.59 or Series Low 10.74,11.72,12.40,13.14 or Hi, 14.22,16.3,17.6,19.14v, Call Art Nye KB6YHZ, 760-758-0234

(6.19) 10' Satellite System free to user.

Ron, NA6RS@amsat.org or 760-822-5170

(2.22) **Alliance Heavy Duty Rotator, HD73**, new, unpacked, \$100, **Kenpro KR-400 Rotor**, used, new control box, \$50, **Honda portable gen. EM-400**, 300w, 120v, 12v, \$200, **Koolatron 12v thermal electric cooler/warmer**, \$30, Ivan, W6TET, 619-276-7148, 858-273-0219

(2.22) **4 El 10 Meter Yagi Beam** All stainless hardware w/W2DU Beam 50 Ohm Balun. Only up for short time, Very clean,

Works very well. \$75.00 OBO Bayard K6GAO 858-755-5507

(10.25) Radio Shack 300-Channel **Handheld Trunk Tracker Scanner**,

PALOMAR ENGINEERS

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PARC NETS

Sunday	0830	146.730	ARES
Sunday	1000	146.730	Sailor's Net
Sunday	2045	147.075	MARA Emergency Services
Monday	1915	146.730	RACES Sub-Net
Monday	2100	146.730	Microwave Net
Tuesday	2100	146.730	Off-Road Net
2nd Wed	2100	146.730	PARC Board Net
Thursday	1930	147.075	Young Hams Net
Thursday	2100	146.730	Ham Help Net
Friday	2100	146.730	Hiker's Net
Saturday	2000	52.680	6 Meter ARES Net
Tue/Thu/Sat	2000	146.730	NTS Traffic Net (SDCTN)

PARC Testing

Carlsbad - 2nd. Saturday at 9:30 am in the Carlsbad Safety center.

Contact Rusty **AA6OM**
760-747-5872 or dunedancer@cox.net

EARS Testing

Escondido - LAST Saturday at 9:00 am
Chamber of Commerce
720 N. Broadway, Esc 92025

Contact Harry **W6YOO**
760-743-4212 or W6YOO@amsat.org

Register 5-7 days in advance for tests.

Repeater Status

146.730-	: Normal
147.075+	: Normal
147.130+	: Normal
447.000-	: Normal
52.680-	: Normal
146.700-	: Packet Repeater Normal
145.050	: Packet Digi Normal
PALBBS	: Bulletin Board Normal
AutoPatch	: Normal
ATV	: Upgrading

Send \$18 Dues To:
PARC, P.O. Box 73
Vista CA 92085-0073

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Ron N6OMW
Jose XE2SJB
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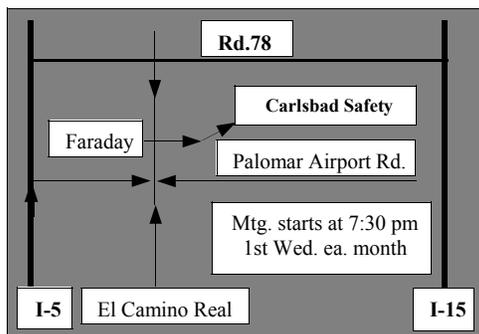
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146.73-, 147.13+, 147.075+, 447.000-, 52.68-; Pkt 146.7-, 145.05 & ATV, 4 Autopatches





Palomar Amateur Radio Club

March 2004

March Meeting

March 3, 2004

Ham Radio & San Diego
County Animal Rescue Services

By

K3PXX Terry

Carlsbad Safety Center

PARC Repeaters

Palomar Mt. Repeaters (W6NWX)

PARC Trustee: AB6QT

*52.680- W6NWX, -0.5 MHz.

Autopatches:

146.730-, *147.075+

* 147.130+, *447.000-

PKT:

145.050s (PALMAR/W6NWX-1)

146.700- (Duplex Pkt) PALBBS/
EMG use

145.070/146.7 - (W6NWX-3/PALBBS)

ATV "OUTPUT":

1241.25 MHz. am

ATV "IN":

915 wbfm, 919 am, 2441.25 wbfm

Intercom:

146.415 PL 79.7 nbfm

Affiliated:

*224.38- & *224.94 KK6KD (HARS)

*447.05- & *145.26 KK6KD (HARS)

*146.175+ N6FQ(FalbrkARC) linked to

*445.600 MHz (-)

*224.90- WD6HFR (Convair/220 ARC);

446.14- WB6FMT(123.0)Vista;

* = 107.2 Hz. PL Tone

President's Message.

Have you spent any time reading about the latest proposed changes to the amateur radio licensing process? If you have not, you will be surprised by the plans that are in the making. As commented on in this month's QST editorial page, changes are proposed to allow a three tier licensing system. In essence, if the proposed plan is carried forth, we will wind up with three licenses: Novice, General, and Extra.

Much of this is being driven by the desire to provide entry-level licensees with a means of enjoying all facets of ham radio, not just the VHF/UHF bands. The complete proposal is too lengthy to address here, but if you are not aware of the proposals, you should read about them either on line at one of the many web pages that have ham radio content, or in QST.

PARC continues to evolve. You will soon find that the many lists of activity chairpersons are getting smaller, or showing empty assignments. The Board noticed that quite a few activities no longer appear to have any following, and that in some instances activities that are important for the Club's operation have no person carrying out the needed tasks.

Would you be willing to volunteer for some of these activities? One of the services that require assistance, and which I mentioned in an earlier message, is the PARC BBS on packet. We continue to look for someone to assist in monitoring the BBS operation. If we do not gain some help, it is likely that

soon we will need to shut the BBS down. If you care to help, contact any of the Board members.

Over the past few months, I've touched on the subject of Broadband Power Line (BPL) services. This is becoming a heated matter of policy debate within the FCC, and within the many services that are concerned about possible interference. Obviously there is tremendous pressure on FCC to allow the service, as it is expected to create a significant economic development opportunity. The latest actions are summarized in the following quote from the ARRL web page:

"NEWINGTON, CT, Feb 12, 2004-- The FCC today agreed unanimously-- with one partial dissent-- to go forward with a *Notice of Proposed Rule Making (NPRM)* on the subject of Broadband over Power Line (BPL). The *NPRM* is the next step in the BPL proceeding, which began last April with a *Notice of Inquiry* that attracted more than 5100 comments--many from the amateur community. The FCC did not propose any changes in Part 15 rules governing emissions from unlicensed devices, but said it would require BPL providers to apply "adaptive" interference mitigation techniques to their systems. An ARRL delegation attended the FCC open meeting in Washington, and League President Jim Haynie, W5JBP, expressed disappointment with the FCC's decision. "

Stay tuned for developments!

73 de NN3V

Minutes

Palomar Amateur Radio Club Board of Directors

February 11, 2004

The meeting was called to order at 7:13 PM by NN3V at the home of K6KAL. Present were:

President, Charles Ristorcelli

Treasurer, Jo Ashley, KB6NMK

Membership Chairman, Al Donlevy, W6GNI

Director, Merle Risdon, KR6BT

Secretary, Dick Kalkofen, K6KAL

Director, Stephen Early, AD6VI

Treasurer's Report

Jo, KB6NMK submitted the Treasurer's Report. There was a brief discussion as to how to reformat the report to remove the 0\$ cd's. A suggestion by NN3V to create a copy of the books, and then proceed with the cleanup would provide the necessary trail for the auditors, and a clean report going forward. Dick K6KAL moved the report as distributed be accepted, and was seconded by Merle, KR6BT.

Secretary's Report

Jo KB6NMK moved that the report as distributed to the board and published in the scope be accepted, and was seconded by AL W6GNI.

Discussion Items

Dick K6KAL reported on the costs of projector rentals from local suppliers. At a daily fee averaging \$200, it was agreed that we should look further into the acquisition of a projector for the clubs use. Dick, K6KAL will locate several sources for a LCD projector and PC and make recommendations at the next board meeting.

Steve, AD6VI continued his report on his efforts to clean up the 'Committee Chairmen' list as published in the scope. He reviewed each entry, and will submit a cleaned list for review prior to the next board meeting.

Charlie NN3V will try to locate some-

one to head up the PARC BBS systems.

Anyone interested should contact Charlie NN3V.

Charlie NN3V will be sending out an email addressing the 'emergencies services nets' on PARC repeaters.

Merle, KR6BT will be the lead on the picnic this year, and is beginning his hunt for a suitable location. Anyone with a suggestion for a conveniently located site contact Merle, KR6BT.

Charlie NN3V suggested the club initiates a work party to rework and clean up the interior and repair the antenna mast mount on the PARC white trailer. Anyone interested in volunteering to be the lead.

Jo, KB6NMK reviewed the details of the 146.730 machine lockup on Feb 4th with the board.

Membership report

Al, W6GNI notes that the club now has 477 members.

Repeater Technical

There was no report at this meeting. All systems are working, and the 'continuous dtmf tone' problem of last week was T-Hunted and resolved. Watch those Microphones on 'unattended' radios, that can crawl into car seat cracks and seatbelt buckles.

Repeater Site

There was no site report at this meeting.

Next Board Meeting

The March board meeting will be held at the home of K6KAL at 7:00 PM on March 10th.

The meeting was adjourned at 8:20 PM.

Respectfully submitted,

Dick Kalkofen, K6KAL, Secretary

March Program

This month's program evolves from the recent wildfires that affected the County and Southern California. Members of local animal rescue organizations will detail the manner in which amateur radio assists the effort to rescue pets and wild life affected by disasters such as the fires. The program is organized by K3PXX (Terry)

WORK PARTY

WORK PARTY

WORK PARTY

There will be a work party on MARCH 13. Any PARC members who care to attend, please carpool whenever possible since there is only so much room to park at the repeater site. There will be plenty of places to park at Mother's Kitchen which is fairly close to where we will be doing the work so unless you actually need to drive to the site it is best to leave your car at Mother's Kitchen and get a ride from a friend.

We will monitor 146.730 for those who need to coordinate the trip. So Please contact me ab6qt@amsat.org as soon as you can to let me know of your intentions to attend. You can plan to arrive anywhere between 10 am and noon.

The main focus of this work party it going to be to clean out the old trailer and get it ready for disposal. Any of you that have access to a dumpster would probably be of special value to this cause since we will probably be carefully separating items into 2 categories. I look forward to this gathering.

See you there. **de AB6QT.**

Club Membership

New Members Joining PARC:

KG6RGI, N6WXD, KG6TGQ, NC6X, N6TSF, and Sara Jones (No call yet)

In addition, 5 members reinstated their membership, which had lapsed some time ago.

Please check your mailing label. The e-mail address that we have in the database for you is printed there. If it is not correct, or we do not have your e-mail address, please send me an e-mail (W6GNI@amsat.org) to allow us to update your record. Should the Post Office return your SCOPE for any reason, generally an unknown reason, and we have

your e-mail address we will try to figure out why the SCOPE was returned!!

No one sent me notice that they were overlooked for participation points for bringing "Goodies" to the December meeting (party). Therefore, I guess we have all of them entered.

Al, W6GNI

Repeater Usage —

March 13, 0600-1600

RAVES will use the repeater on Saturday March 13, 2004 from 0600 to 1600 to provide communications for the Lake Hodges 50 Km trail run. Please use one of our other repeaters for chit-chat. Thanks, PARC Board

Fallbrook 10 Meter Net

When: Monday - Friday

Time: 8:00 pm local time

Where: 28.340 Mhz.

Very informal talk about antennas, radios, pets, or whatever. We always have a good time.

73, Berand - WB0YCQ

Newcomer's Corner

PARC extends a special greeting to all of our new members, especially those new to ham radio! And it doesn't take long for those new to ham radio to as-

pire for an upgrade. If you'd like help in upgrading to the General Class license, then you'll be interested in Steve's, AD6VI, class which starts on February 28th. Contact Steve (AD6VI@amsat.org) or me (KG6EQU@amsat.org) for more information.

Also, don't overlook these benefits that are a part of your membership:

- * Autopatch access (PIN registration and instructions on operations are available from Al Donlevy at the meeting or by email at W6GNI@amsat.org).

- * If you'd like a little extra advice from one of our experienced members, please contact John Earnest, KG6EQU by email at KG6EQU@amsat.org. He will match you with an elmer/mentor.

- * Don't forget our great website... www.palomararc.org. It has the schedule of Nets, info on events, and pictures of past events!

Again, welcome to PARC and congratulations on joining an organization that has been benefiting amateur radio since 1936. **73 de John, KG6EQU**

PARC Pre-Meeting Meeting

All PARC members, and any hams planning to attend the PARC meeting, are invited to congregate early in the Carlsbad area and enjoy dinner with the many meeting attendees who relax and enjoy socializing before the PARC meeting. Listen to the 146.730 MHz repeater starting around 5:00 PM, and you will hear members driving to various restaurants for dinner, and an "eye ball" with fellow hams. **A GREAT WAY TO ENJOY THE HOBBY!** See you there.

OOP'S

February 4th., 2004— T-hunt
by KB6NMK

I was just sitting down to put my grandson Toby down for his nap when the phone rang. It was AD6LP, Jim, calling to say that the repeater had been off the air all morning with a signal on the input. He and others said it was strong in Escondido. I got out my handy-talkie and sure enough, the signal was quite strong in my back yard to the south or south east. I put Toby in the car thinking it was not going to be a very long hunt and set off. I went south to Via Rancho Parkway but it was still further south of us. I decided to go to Rancho Bernardo. If it was not there I would have to go home for Toby's nap. His last words were "I'm not going to sleep". Once he did go to sleep, I was able to keep on hunting.

I found a very strong signal near the Hewlett Packard parking lot. KA6DUH, Dennis, was also out looking so I waited for him to come up the hill to where I was when K6KAL, Dick, showed up there also. Dick had a home made sniffer that was working very well.

Dennis and I went into HP and conned the Security Chief onto driving around their parking lot with us and our HT's. The signal was stronger but was still not more than a couple of

Turn off your radio when you leave

kerchunks without an antenna. With a paper clip, the signal was full scale. Even when I broke off about an inch off of the paper clip, it was still full scale. While I was saying we are close but still not there, Dick said he had his strongest signal yet and it was still strong even when his antenna was off in a Sony parking lot just a little way away. He found a green truck with a call sign on it. While Dennis went to the reception to try and locate our ham, AD6LP called him on the phone

and he came out and turned off his radio and the signal was gone.

The moral of this story is "Turn off your radio when you leave, or you will be found!" Also, in this case, the radio was not mounted causing the weight to press on the mic. switch — OOP'S, Congratulations Dick, K6KAL — a job well done.

Trouble with HAM Plates?

For those in the club that have their call signs on their vehicle license plates, a word of warning. I have old black and yellow 1964 issued call-sign license plates. I've been pulled over three times in the last two years for, "I can't find your plates in the DMV computer". Once I show the vehicle registration and proof of insurance they have gone away. Any of the ham radio plates have a special code that must first be used to find them in the DMV computer. The DMV computer does not do a pure alphanumeric search.

I purchased a special license plate frame that says "HAM RADIO, WB6IQS, Licensed 1963". So far I have not had any further problems. I understand that the code for ham radio plates is "H". If the patrol officer does not prefix the license plate check with a code "H", the DMV will never find them in their "giant brain".

John, WB6IQS

Finding and Using Repeaters — Part 2 by AC6V

HOW DO WE USE REPEATERS?

There are literally thousands of repeaters across the US (and the world). Each one can have it's own peculiarities and unique operating procedures, but there are some basics that apply to many of them. Be aware that some repeaters are very informal and just about anything goes within the FCC rules. Others are very formal — best listen in for a while. Still others have several hundred users

as well as visitors and to create order out of chaos, these repeaters are more organized as to protocol and usage. Act accordingly. Use Plain Language, Talk Like You Talk On The Telephone. You can pick up the jargon as you go along.

If you are new maybe LISTEN for a while to catch on to the swing of things. Repeaters are party lines. Lots of people use them on and off throughout the day, and the one you've selected may be busy with another conversation. So listen for a minute or two. If you are in a hurry and not sure if the repeater is in use, just give your call sign and ask - "AC6V - Is the repeater in use?" This will avoid interrupting a conversation (QSO) or an emergency. Throughout this article, I'll use my call sign in the examples...simply substitute your call for mine in the example when it's time for you to actually get on the air.

If the repeater is quiet, key your transmitter and announce, "AC6V listening", this is short hand for "AC6V listening for any call". Or "AC6V listening - anyone on frequency?" Some just announce simply "AC6V". Others give an idea of their situation - "AC6V Mobile". "AC6V Maritime Mobile". Although not as common today, "AC6V monitoring" was at one time used by control operators and in some areas may still be the case, but this seems to have given way to where monitoring and listening are now synonymous. Some letters can be confused, so Hams use phonetics as shown in Table 1.

Don't call CQ (HF Band Stuff) -- many VHFers don't savvy it and just isn't used on FM repeaters (on VHF SSB OR CW - Yes). If you insist on calling CQ on a repeater, it is not against the rules — but 16 old time hams will come back to you with the lecture "We don't use CQ on repeaters". When you un-key your transmitter, most repeaters will stay on the air for a few seconds, and many will send some kind of "beep or courtesy tone."

Then after a squelch tail, the repeater transmitter drops off the air. The beep (if so equipped) is there to remind everyone to leave a pause between transmissions in case someone wants to break in. Even if there's no beep, leave a pause.

Somebody may have just come across a

A - Alfa	G - Golf	M - Mike	S - Sierra	Y - Yankee	4 - Fower
B - Bravo	H - Hotel	N - November	T - Tango	Z - Zulu	5 - Fife
C - Charlie	I - India	O - Oscar	U - Uniform	Ø - Zay-Roh	6 - Six
D - Delta	J - Juliet	P - Papa	V - Victor	1 - Wun	7 - Seven
E - Echo	K - Kilo	Q - Quebec	W - Whiskey	2 - Too	8 - Ait
F - Foxtrot	L - Lima	R - Romeo	X - X-Ray	3 - Tree	9 - Niner

traffic accident and needs the repeater to report it. In addition the beep resets a timer. See Timers Below. Some systems use a two tone or be-bop tone as a courtesy tone and may also signal various conditions of an inter-tie system. See your repeater guidelines. Following the beep, a brief delay is heard before the repeater drops out. A bit of noise is heard between the end of a radio transmission and the reactivation of the receiver's squelch circuit. This is called the squelch tail, but note that not all repeaters incorporate a squelch tail. Below is a typical repeater-timing diagram, however various repeaters may have variations on this and the times. **ALWAYS WAIT FOR THE BEEP** so the timer can reset.

If you talk too long, a timer times out and the repeater drops off the air. Timers (sometimes called a QSO timer) are typically 1 to 3 minutes depending on the machine. To signal a timer dropout, some repeaters use a voice announcement, others use a series of short beeps, such as a triple beep. Others may use a short tail, a short beep and then dropout. Typically there may be a several second wait before the repeater can be brought back up on the air. If the offending talker or a carrier persists, the repeater will remain mute until the input signal disappears, so timeouts can be quite long.

How long do we pause after the beep? Two to three seconds after the squelch tail is long enough for others to come in. 10 to 30 seconds delay leaves everyone wondering why you disappeared or someone just tuning in listens for 10 seconds or so, hears nothing and comes in - makes a call -- the other party answers and the whole thing gets screwed up. Talking right after the beep is OK since the repeater timer has been reset, but that doesn't give much time for timid or uninformed folks to get in. Many let the repeater totally drop out and then allow another 2 seconds or so before keying up the repeater again.

When you hear the beep and no else comes in -- it is your turn to talk. To prevent noise when the repeater is not transmitting, receiver circuits use a squelch feature which silences the receiver when no signals are being received. If somebody answers, you have a contact! If no one answers, perhaps no one is on channel, but more likely they are busy, not inclined to talk, building something, soldering, etc., not ignoring you or being rude, but not responding for their own reasons. Repeating your "AC6V listening" a few times is OK, but repeating it several times is probably a waste of air space. Local repeaters across country may not care to "entertain" travelers but will usually answer questions about the area.

If you want a quick "Radio Check" to see if you are accessing the repeater adequately -- try "AC6V Radio check please" or "AC6V signal report please" will usually solicit a come back but not necessarily an extended conversation. Another way to solicit a conversation is to ask a pointed question, "AC6V - anyone on frequency tell me the PL for repeater X?" AC6V - Can some one tell me how the traffic is on I-15? But don't key up (kerchunk) with out Identifying (IDing) -- its illegal and annoying. To see if you are accessing the repeater and not soliciting a comeback, just key up and say "AC6V Testing - no response needed".

Often the tester is making an SWR measurement, checking a new installation, or deep down in the innards of the radio tweaking an adjustment, so they don't want to rag chew at the moment, so probably would appreciate no answer, otherwise they would ask for a radio check. Some repeaters have an anti-kerchunk feature, this requires audio before the machine will come up. So kerchunkers zip their fingers across the mic grooves. UGH!

Since repeaters use FM (noise free) and are channelized, it is conducive to using plain language, as you would do on a telephone. Calling CQ, using Q-signals, and

HF jargon isn't necessary although there is some jargon that is commonly used as well as a few Q-Signals.

These will be discussed later so you will recognize them. Keep in mind that some VHF/UHF users have never been on HF and are not familiar with the terms. You can talk about almost anything you want - there are few rules about the content of Amateur conversations. You can't use Ham Radio to do business, but you can talk about where you work and what you do.

It seems so easy to call work and pick up a message, tell the boss you're gonna be late, etc, but these work type messages are a no no. Remember, the FCC prohibits all business communications on Amateur Radio (except in emergencies). Unlicensed persons may participate in amateur radio communications, provided a control operator identifies at the beginning and end of transmission, and is present and continuously monitors and supervises the communication to ensure compliance with the rules.

Prime time TV language has been peppered with some "hells" and "damns," and so has language on some repeaters. Most repeaters discourage or prohibit this as sensitive folks and children may be listening. Indeed obscenities are against the FCC rules. You're not having a private conversation -- you have lots of listeners, some of them women and children. Non-Hams may be listening on scanners - lets keep an image to the public of sounding professional. Keep that in mind as you choose language and subject matter. Also until you get to know folks, controversial subjects such as religion and politics can get some nasty replies, depending on how open or closed-minded the other person is.

Be aware that some repeaters have a recorder and the audio track is recorded at all times. The voice logs are reviewed daily. Inappropriate language use or meanings will invoke a cautionary comment from the repeater trustee. Continued abuse may draw legal action. The log (files) will be used as legal evidence against the offender if required.

To be continued

Committee Chairmen

AREInfo.	-Dennis S	K7DCG@amsat.org
Attendance	-Al	W6GNI@amsat.org
ATV	-Art	KC6UQH@amsat.org
Auction	-Jim C.	NE6O@amsat.org
Badges new	-Al	W6GNI@amsat.org
Batteries	-David	KD6EBY DAT@Gerry.Palomar.caltech.edu
BBS Monitor	-Bill B	N6FMK@amsat.org
Billing:Ads/etc	-Lyell K	K6GVM@arrl.net
Contest Info	-Dennis V	N6KI@amsat.org
ControlOps.	-filled	W6NWG@amsat.org
D.Mar Fair-		
Emergency QTH's (Emergency Com. Centers)		
HarryH	-W6YOO	W6YOO@amsat.org
DennisV	-N6KI	N6KI@amsat.org
Field Day	-Charlie R	NN3V@ARRL.net
FDTech.	-John K	WB6IQS@Juno.com
Inventory	-Dennis B	KD6TUI@juno.com
New Members	-John E.	KG6EQU@amsat.org
Nets	-	
Newsletter	-Ron S	NA6RS@amsat.org
PALBBSpkt	-Bruno H	KF6QDP@amsat.org
Patch Info	-Stan R	W9FQN@amsat.org
PatchETronics	-Jerry H	WB6FMT@amsat.org
Picnic	-Paul D	NN6X@amsat.org
PowerAC/DC	-Mike P	KD6VHI@amsat.org
Programs	-Dennis B.	KD6TUI@amsat.org
Publicity	-	
QSL Cards	-Merle R	KR6BT@Juno.com
RACESinfo	-Jo A	KB6NMK@amsat.org
Red Flag	-	
Rptr Site	-Mike P	KD6VHI@amsat.org
Rptr Skeds	-	
SANDARC	-	
SellerTable	-John K	WB6IQS@Juno.com
AstSWDivDir	-	
TechSite	-Mike D	AB6QT@amsat.org
TestingVE	-Rusty M,	DuneDancer@cox.net
Training	-	W6NWG@amsat.org
TrusteeW6NWG-Mike D		AB6QT@amsat.org

(Net Managers) (see pg.12)

ARES Sun	-	
Staff Net	-David D	KC6YSO@amsat.org
ARES 6m	-David D	KC6YSO@amsat.org
Ham Help	-David D	KC6YSO@amsat.org
Hiking	-Ed	KF6DXX@Juno.com
	-Glenn P	KE6ZLY@Juno.com
MARA	-Cathy	KE6IQU W6NWG@amsat.org
Microwave	-Kerry B	
Off Road	-Jerry A	jwak6pfp@cts.com
	-Dick W	KA7AYT rwilimek@home.com
Sailors	-Paul/Rod	NN6X@amsat.org / AC6V@amsat.org
Traffic(SDCTN)-Charles		N6TEP cmiele@juno.com

Questions about club policy or for information can be addressed to **W6NWG@amsat.org** or P. O. Box 73, Vista, CA 92085-0073.

EMAIL address for Website is **webmaster@palomararc.org**

Other addresses of interest:

Scope@palomararc.org
Board@palomararc.org
Membership@palomararc.org

Contest Coral

Mar 2 ARS Spartan Sprint
 Mar 6 ARRL Int'l DX Contest, SSB
 Mar 7 DARC 10 Mtr Digital Contest
 Mar 11 Pesky Texan Armadillo Chase
 Mar 13 RSGB Commonwealth Contest
 Mar 13 Oklahoma QSO Party
 Mar 13 North American Sprint, RTTY
 Mar 14 Wisconsin QSO Party
 Mar 20 10-10 Int'l Mobile Contest
 Mar 20 BARTG Spring RTTY Contest
 Mar 20 Virginia QSO Party
 Mar 27 CQ WW WPX Contest
 Apr 3 Missouri QSO Party
 Apr 3 QCWA QSO Party

Sorry we didn't get a Contest Corral published last month. Your contest editor was in the hospital recovering from surgery. All went well and here's the corral for March. We have a variety of contests this month. State QSO parties, DX contests, CW, SSB, and RTTY activity plus a mobile contest. Something for everyone, so enjoy. Complete rules may be found in QST, CQ, NCJ, and Worldradio magazines. CU in the contest. **73, Harry**

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P.A.R.C. Inc (2004 Board)

Pres: Charlie Ristorcelli NN3V
858.676.3307 NN3V@amsat.org

VP: Dennis Baca KD6TUJ
760.722.0251 KD6TUJ@amsat.org

Sec: Dick Kalkofen K6KAL.
760.519.0670 K6KAL@amsat.org

Treas: Jo Ashley KB6NMK
760.741.2560 KB6NMK@amsat.org

Dir#1: Merle Risdon KR6BT
760.941.0213 KR6BT@amsat.org

Dir#2: Steve Early AD6VII
619.461.2818 AD6VI@amsat.org

Repeater Site:
Mike Pennington KD6VHI
760.749-8888 KD6VHI@amsat.org

Membership:
Al Donlevy W6GNI
760.630.3096 W6GNI@amsat.org

New Member:
John Earnest KG6EQU.
858.484.8579 KG6EQU@amsat.org

Repeater Technical:
Mike Doyle AB6QT
760.742.1573 AB6QT@amsat.org

Web Pages

PARC's Home Page -
<http://www.palomararc.org>

Rod's - AC6V
<http://www.ac6v.com>

ARES Alert Publication
<http://sanarrl.org/alert.htm>

Tom's Hiker's - KF6PAZ
<http://www.fanciful.org/san-diego-hiker>

Jeff N6FRW Grace N6WPA

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Last Month's Goodie's

Tom KG6RCW
Fred K6ISS
Lief KQ6HE

Fold & Staple Crew

KB6NMK Jo K6ML Jim P
KR6BT Merle KB6YHZ Art
KB6YHY Anita WA5ACE Sonny
KG6AEW Bill
N6UZH Terri & Toby & Tyler
W6GNI Al & Kathy

Treasurer \$\$\$,\$\$\$

Jo Ashley KB6NMK@amsat.org
ASSETS January 31, 2004

Cash and Bank Accounts	
CD	2,831.84
CD	2,685.48
CD	3,393.20
CD	2,836.75
Checking	3,346.34
Post Office	97.15

TOTAL ASSETS **\$15,090.76**

Pre-paid dues	7,792.00
Prop. Insurance	1,800.00

LIABILITES	\$9,592.00
EQUITY	5,498.76

TOTAL LIABILITIES & EQUITY
\$15,090.76

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For Sale

(2.5) **ICOM IC-T81A**, case, HM-75A speaker microphone, BP-197 battery case, OPC-254/L DC power cable, CS-T81 cloning software, OPC-478 cloning cable, and MH-510 tri-band after-market antenna. \$160. Bob KY6P. (619) 318-2217.

(2.2) **FREE - C-Band Satellite TV System**, including 10 ½ Foot Mesh Dish, Feedhorn/Polarizer/LNB, heavy duty actuator arm, cable, Uniden Ultra Receiver/Descrambler and remote. All working and receiving all satellites. You can subscribe to HBO, Showtime, Cinemax, Pay TV, etc., or just see the free channels including wild feeds from the 21 synchronous satellites. All FREE to anyone who takes down the dish. JOHN, N6URW, n6urw@aol.com or 760-753-9545.

(2.1) **Kenwood TS-520S**, 10-160m, after mkt digital display, Sure 444 desk mic. Original manual, Very good cond. \$235 George kf6zca@juno.com 619-264-1415

(1.12) **10 GHz Gun Plexers** (2) Brand new, still in box, **U-wave MA87.27**, 10.25 GHz Varactor tuned GP xcvr. Make offer & pay shipping. Contact JACK KG6RWI @ 760/749-4572 or e-mail KG6RWI@aol.com for details.

(12.16) **Yaesu FT-230R** 2 Mtr FM Transceiver w/SS32 PL Board \$80.00, **Astron AS-7** Power Supply \$29.00, **Yaesu FT-757GX HF** Transciever \$350.00, **Yaesu FC-757AT** Auto Antenna Tuner \$300.00, **Yaesu MMB-20** Mobile Mount for FT-757GX \$30.00 or \$600.00 for **FT-757GX, FC-757AT & MMB-20**. **Yaesu FT-227R** 2 Mtr FM Transceiver \$45.00, **Kenwood ST-2** Base Rapid Charger for Kenwood TR-2500 handheld \$20.00, **Kenwood W09-03154** Trickle Chgr for TR-2500 Handheld \$3.00, **Celestron C-8 Catadi-optic Telescope** with Heavy Duty Tripod, Planetary motor-drive, X2 **Barlow Lense** – Spotting Scope, w/manuals \$850.00, 2 – **B&W 9” Security Monitors** \$10.00 each, **Galaxy Electronics PR550** Phone Patch w/manual \$25.00, **Astron AS-20** 20 amp Power Supply w/manual \$70.00, 2 **Larsen 6 Mtr** 5/8 wave mobile antennas, fits NLA Mounts \$10.00 each, **Swan MMBX** mobile antenna matcher

***Personal equipment ads** are free to members and could be “bumped” after 3 months. Make up your ad like the ones on this page. Send to Scope before the 18th of each month.*

***Commercial Ads** in big boxes: \$2/col. inch/mo. We will “squash” your copy to the number of inches bought.*

SCOPE@palomararc.org

\$10.00. Contact Dennis K7DCG @ 858-748-9046 or email: K7DCG @ ARRL.NET

(11.29) Tubes, chokes, transformers, capacitors, etc. for sale. I anticipate moving and all things must go! Please contact for a detailed inventory. Call: NI6N. Email: pat_osullivan_email@yahoo.com. Phone: (760) 940-8355."

(11.23) **Yaseu, FT-1500M** with DC cable, Mic, mounting bracket, manual and original box. Never used mobile. Non Smoker. \$90.00. 1 year old. Jim WB6YXY 760-758-7655 jkeller@cox.net.

(10.13) **Yaesu FT-817** package - includes the FT-817 and microphone, 500 Hz Collins filter, LDG Z-11 auto tuner and balun, W4RT One Plug Power battery, original battery and battery door, dry cell holder, Buxcom Rascal soundcard interface and software, Waters and Stanton AT80 portable antenna and Hf-project 30 watt amplifier (needs work), manual. \$600.00. **SGC 2020 HF** transceiver with ADSP2 and microphone- \$450.00 Gary, W6GDK at (858) 679-0578 or w6gdk@arrl.net

(9.18) **29’ Ericson Sailboat**, Auto-pilot, radio, depth sounder, TV, Microwave, Sleeps 6, Head, Galley, **Transformer**, (CV Solar, Input 115v 60cyc, Out, 120v, 25 amp.) **Transformer** (75KVA, 50% Duty Cycle, Primayr 440v, Sec. Parallel Low 5.37,5.88,6.2,6.57 — Hi 7.22,8.15,8.8,9.59 or Series Low 10.74,11.72,12.40,13.14 or Hi, 14.22,16.3,17.6,19.14v, Call Art Nye KB6YHZ, 760-758-0234

(6.19) 10’ Satellite System free to user.

Ron, NA6RS@amsat.org or 760-822-5170

(2.22) **4 El 10 Meter Yagi Beam** All

stainless hardware w/W2DU Beam 50 Ohm Balun. Only up for short time, Very clean, Works very well. \$75.00 OBO Bayard K6GAO 858-755-5507

(10.25) Radio Shack 300-Channel **Handheld Trunk Tracker Scanner, Pro-90**, Like new in box 80.00. Louie KF6QBS.760-727-0846. kf6qbs@amsat.org.

(10.3) **Bencher Paddle Keyer and MFJ automatic keyer** (curtis chip). Like New! \$75 Bob AC6JG 760 207-9045.

Wanted

(2.3) Six, 12Volt UPS batteries (72 VDC total) 38 AHr gel cells. For the PALBBS computer. We could use a different AHr rating if necessary. Current backup batteries are getting weak.

(2.4) Kenwood TS-450 Service manual or copy of. ad6lp@amsat.org

HELP

I just joined the Palomar club and would like to attend the club meetings however I don't drive at night if I can help it.

(I was blind for 9 years.... got most of my sight back now... long story.)

Are there any of the members willing to car pool? If so I would like to contact them... or have them contact me etc...

Paul, K6ROQ

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Sunday	0830	146.730	ARES
Sunday	1000	146.730	Sailor's Net
Sunday	2045	147.075	MARA Emergency Services
Monday	1915	146.730	RACES Sub-Net
Monday	2100	146.730	Microwave Net
Tuesday	2100	146.730	Off-Road Net
2nd Wed	2100	146.730	PARC Board Net
Thursday	1930	147.075	Young Hams Net
Thursday	2100	146.730	Ham Help Net
Friday	2100	146.730	Hiker's Net
Saturday	2000	52.680	6 Meter ARES Net
Tue/Thu/Sat	2000	146.730	NTS Traffic Net (SDCTN)

PARC Testing

Carlsbad - 2nd. Saturday at 9:30 am in the Carlsbad Safety center.

Contact Rusty **AA6OM**
760-747-5872 or dunedancer@cox.net

EARS Testing

Escondido - LAST Saturday at 9:00 am
Chamber of Commerce
720 N. Broadway, Esc 92025

Contact Harry **W6YOO**
760-743-4212 or W6YOO@amsat.org

Register 5-7 days in advance for tests.

Repeater Status

146.730-	:	Normal
147.075+	:	Normal
147.130+	:	Normal
447.000-	:	Normal
52.680-	:	Normal
146.700-	:	Packet Repeater Normal
145.050	:	Packet Digi Normal
PALBBS	:	Bulletin Board Normal
AutoPatch	:	Normal
ATV	:	Upgrading

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Vista CA 92085-0073

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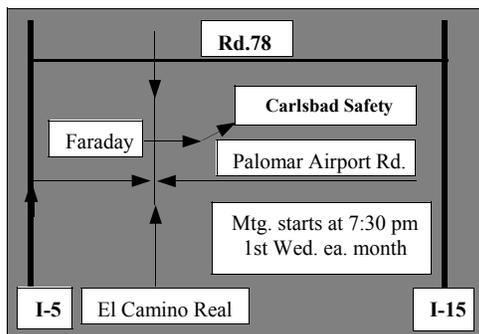
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Palomar Amateur Radio Club Inc.

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1651 Mesa Verde Dr., Vista, CA, 92084. *Periodicals postage pd. at Vista, CA 92085.*
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Editor: Ron Surfield NA6RS, 7323 San Bartolo, Carlsbad, CA 92009
Scope address for newsletter: scope@palomararc.org

146.73-, 147.13+, 147.075+, 447.000-, 52.68-; Pkt 146.7-, 145.05 & ATV, 4 Autopatches





Palomar Amateur Radio Club

April 2004

April Meeting

April 7, 2004

Carlsbad Safety Center

A night of Magic and Wonder brought to us by our very own K3PXX (Terry). This program is guaranteed to be a wonderful occasion to bring family and friends (especially little ones) who will delight in the magic tricks performed by Terry and his feathered body friends."

PARC Repeaters

Palomar Mt. Repeaters (W6NWX)

PARC Trustee: AB6QT

*52.680- W6NWX, -0.5 MHz.

Autopatches:

146.730-, *147.075+
* 147.130+, *447.000-

PKT:

145.050s (PALMAR/W6NWX-1)
146.700- (Duplex Pkt) PALBBS/
EMG use
145.070/146.7 - (W6NWX-3/PALBBS)

ATV "OUTPUT":

1241.25 MHz. am

ATV "IN":

915 wbfm, 919 am, 2441.25 wbfm

Intercom:

146.415 PL 79.7 nbfm

Affiliated:

*224.38- & *224.94 KK6KD (HARS)
*447.05- & *145.26 KK6KD (HARS)
*146.175+ N6FQ(FalbrkARC) linked to
*445.600 MHz (-)
*224.90- WD6HFR (Convair/220 ARC);
446.14- WB6FMT(123.0)Vista;

* = 107.2 Hz. PL Tone

President's Message

I hope all of you had an enjoyable sample of green beer on St. Patty's day just gone by! Aye, may the ives of March leave you breathless and looking forward to Field Day.

I for one have been pleased with listening to some of the operating discussions heard on the repeater lately. Seems our crew of avid contesters are staying awake, long hours racking the points up on the various contests that spring up this time of the year. I was also pleased to hear interesting discussions on the repeater about building class A amplifiers using tetrodes and grid controlled pentodes. Now, if someone can explain what that talk about valves and tubes is all about, we'd have one heck of good time.

On the "what's happening on the ham radio front lines?" there is much to be talked about. You may have followed the discussions about BPL. Do you care? Do you operate HF? An interesting, and in my opinion unusual, voice in the discussions affecting that technology has recently taken place. ARRL engaged in correspondence with the Wall Street Journal, with concerns over the highly one-sided endorsement of that technology as a bonanza for the communications providers. Nil heard back from the Wall Street guys! FEMA and Homeland Security offices have also engaged, as they fear that if commercial communications companies route traffic over BPL (not sure the bandwidth is there), anyone with an HF transmitter could interrupt critical services. Hallo Al-Qeada?

Meanwhile, on the licensing front, all sorts of comments, suggestions, and opinions are streaming in to FCC and the ARRL. Here-with a most unusual one:

The newly formed Society for Preservation of Amateur Radio Traditions (SPART) recently published an editorial on their web

page (<http://www.spart.cwisalphaomega.org>) castigating the FCC for the lowering of technical knowledge and operating acumen evidenced in the liberalized licensing process. Of greatest concern to SPART is the perception that many "instant upgrades" to Extra Class licenses is seriously undermining American ham radio leadership among international and developing countries.

Likewise, SPART cites the recent examples of failure of public services to communicate in disasters (as in the California fires), and security alerts, as reason to reinvigorate the extensive volunteerism traditionally seen in the ham radio community, a tradition they deem present in all sectors of the hobby. Touting the current emphasis in Washington circles to look beyond routine problems and focus on education, advanced space technology, and homeland security, SPART approached the ARRL and FCC with a surprisingly innovative though highly unusual four-tier license structure proposal.

Under SPART's approach, and in line with the current ideas surrounding the Novice license, they propose doing away with the Novice license as known, and instead allowing anyone who wishes to operate radio in the ham bands to operate as a Citizens Unlimited Band (CUB) licensee. For this first tier license, no code requirements would be established, and licenses would be given to anyone who asks for one and presents a social security card as identification. As a CUB, operators would enjoy voice privileges on the 160M, 80M, and 40M HF bands using AM as the operating mode. They would have no power restrictions. They would also be allowed to operate on the WARC bands, but only the CW portion (no speed restriction). The idea here is that in so doing, CUBs would appreciate the fellowship of DX on WARC, and be inclined to improve their CW skills without

Continued Page 3

Minutes

Palomar Amateur Radio Club Board of Directors

March 10, 2004

The meeting was called to order at 7:12 PM by KD6TUJ at the home of K6KAL. Present were:

Vice President, Dennis Baca KD6TUJ

Treasurer, Jo Ashley, KB6NMK

Membership Chairman, Al Donlevy, W6GNI

Director Merle Risdon, KR6BT

Secretary, Dick Kalkofen, K6KAL

Director, Stephen Early, AD6VI

Treasurer's Report

Jo, KB6NMK submitted the Treasurer's Report. Her efforts have paid off, as she was able to suppress the '0' items, and much easier to read. AL, W6GNI moved the report as distributed be accepted, and was seconded by Dick, K6KAL.

Secretaries Report

Dennis, KD6TUJ moved that the report as distributed to the board and published in the scope be accepted, and was seconded by AL W6GNI.

Discussion Items

Jo reported that as part of the clubs yearly standard filing for 'non' profit organizations there was a notice of a new state law that may affect our club. Upon review, Dennis noticed that the new laws are directed toward 'Land' developers, and would not affect us. With that, Jo will be able to complete the filing.

Dick K6KAL reported on a search for LCD projector for the club. He located several sites on the web that had units within the amount targeted (around \$ 1000.00). He also found an advertisement for a unit available locally. There was a discussion as to the next step, and it was concluded that Dick would recommend 3 units for the board to choose from, to the local sources for reasons of convenience and support.

AL, W6GNI questioned the status of

the club billing for Advertisers and Renters. Jo, KB6NMK commented that Lyell Kiney, K6GVM had just recently sent out the statements, and we should begin to see the responses shortly.

Dennis, KD6TUJ reported that he has been in contact with the North County Times, and is beginning to work with them to get the club events published. They are receptive to his comments about having an article about the 'field day' and getting the event promoted in a more timely fashion this year.

Steve, AD6VI that in the process of cleaning up the Committee Chairman list published in the Scope, received a response from Art Goddard, W6XD.

In Art's response, as to the role of 'Assistant Director' as listed in the Scope (AstSWDivDir -), he outlined the process of getting a club member appointed for the Palomar Club.

There was a discussion relating to the PAL BBS system. Dick, K6KAL will contact Bruno, W6AFK and Ted, KD6AKT who stepped up to offer his assistance, to see what has been worked out regarding the BBS management.

Membership report

Al, W6GNI notes that the club now has 468 members.

Repeater Technical

There was no report at this meeting. All

systems are working.

Repeater Site

There was no site report at this meeting.

Next Board Meeting

The April board meeting will be held at the home of Jo, KB6NMK at 7:00 PM on April 14th.

The meeting was adjourned at 8:20 PM.

Respectfully submitted,

Dick Kalkofen, K6KAL, Secretary

Club Membership

New Members Joining PARC:

K6ROQ, WB6TAW, KI6YK, KG6ESF, and KE6SP.

We had 3 "old" members reinstate their membership after considerable delay. Welcome back.

Several members sent me their new e-mail addresses. Did you check last month's label to see if our records were correct for you?

73, Al, W6GNI

onerous testing. SPART maintains this will prove the long held view of the value of CW, and how world class CW ops become proficient because of their devotion to the joy of CW. (Sounds to me like the an answer to "Why CW?" Simply: "Because it is")

The second tier license would be the Serious Amateur Performer (SAP). This license would be reserved for CUBs who have completed five or more emergency operating exercises (supervised by Homeland Security Communicators), show proof of citizenship, qualified for DXCC on their allowed HF bands, and expressed an interest in ascending to higher class operations. SAPs would continue to enjoy CUB privileges, but would also be able to operate VHF/UHF satellite modes on CW. VHF/UHF would be limited to 500 watts ERP.

Third tier licenses would be available for CUBs, SAPs, or unlicensed people who are U. S. Citizens, or legal immigrants or visitors. This license class would be known as Real Amateur Telegraphers (RAT) class. They would be expected to pass a written exam, proctored by the VE examiners with a Homeland Security Proctor present. The exam would consist of code copy and transmit test at 15 WPM, essay questions concerning radio theory and practice, and a 100 multiple-choice questionnaire on U. S. history. Under discussion with the FCC is consideration of including a practical demonstration of homebrew building projects. Preliminary homebrew projects under consideration (the actual project to be performed at the test would be a surprise announcement at the test session) are construction of a vacuum tube, use of a vacuum tube in a Colpitts oscillator, construction of an 11m linear amplifier, or sip-n-puff vacuum tube code practice circuit.

Under SPART rules, the fourth license tier would be the pinnacle of amateur radio excellence. This would be the valued Extra Class License. An Extra Class License would be issued to any of the above licensees, or to anyone else, who ignores all that stuff, and takes a comprehensive theory and rule multiple choice exam, administered by a VEC as is done today, and passes a 25 WPM code exam. Extra

Class Licensees would be eligible for all the privileges of today's Extra Class, and could refer to themselves as "real extras". They would be barred from the 11M CW band..

The only unusual requirement for the Extra Class license approval as proposed by SPART is that the exam must be taken on April 1st. of any year, and must be witnessed by an IOOK VP.

ARRL and FCC are requesting comments and suggestions to this idea. They should be forwarded to ARRL via email at <http://1aprilnote@arrl.fool.org>

(If you read this far: Happy April Fools Day).

73 de NN3V

3-13-04 Work Party!!! de AB6QT saying Thanks, Thanks,

Thanks for the help on Saturday. Jim N6FU, Al W6GNI and myself went to "clean out" the old trailer in preparation for its "going away". We did not finish, but it is very close. The camper that was prepared to temporarily store all the things is almost full now, and there is clearly less than a days work to finish the job to hopefully make the trailer "mobile" for its next journey to wherever that may be. And of course a good time was had by all.

73 de AB6QT

ESCONDIDO VE TESTING

VE Testing in Escondido is now being conducted on the LAST Saturday of each month at Fire Station Nr. 1, 310 N. Quince Street, beginning at 9:00 AM. For a reservation call Harry, W6YOO at 760-743-4212

EARS ANNUAL AUCTION

All Amateur Radio operators are invited

to the Escondido Amateur Radio Society (EARS) annual auction, Tuesday, April 27, 2004. Location is the Emmanuel Faith Community Church, 639 East Felicita Avenue, Escondido. Sellers please register at 6:00 PM, buyers register at 6:30 PM and the auction will get underway at 7:00 PM. Auctioneer will be Art McBride, KC6UQH. Talk-in on the EARS repeater, 146.88 (-), PL 107.2

Ham Help Net

PARC has sponsored the Ham Help Net for many, many years. It was one of the first nets I participated in when I was first licensed in 1991. It's purpose is to try to answer questions that come up in the pursuit of the hobby. While the Net is aimed primarily at new hams, we need the participation of the "old timers". These are they one's who have the expertise to answer the questions. The Net Control operators are just that: we don't claim to be experts.

I would like to encourage everyone to check into the Ham Help Net, whether you have a question or not. You may be the one who has just solved a problem which is puzzling someone else.

The Net meets each Thursday, at 9:00 PM local time on the 146.730 machine.

Hope to see you there!

-73 -Dave, "one of the Net Controls" - KC6YSO

Desert Race ...

Volunteers Needed

The Best In The Desert invites all Hams that enjoy speed and adventure to join us April 24th for the 2004 Terrible's Town 250 off road race in Pahrump, NV. The race will feature a full array of off-road vehicles, which will include, motorcycles, quads, cars, and trucks. With over 200 entries expected and some of the roughest, unforgiving desert in Nevada the challenge is to have the safest race possible with the best volunteers on the

course and the Amateur volunteers are the anchor to Best In The Desert's number one priority of safety. This race will feature the top racers and vehicles from near and far, your chance to see the race from the middle of the action on the course can't be missed. The amateurs will join over 100 other volunteers at gas stops, road crossings, and check points tying the entire course together for a safe exciting adventure for the racers, crews, and the public. Please contact us at bitd@worldnet.att.net or visit our website at www.BITD.com or call us at (702) 457-5775 for more information or to join the team of volunteers.

Finding and Using Repeaters — Part 3 by AC6V

As to what is talked about -- it covers just about anything folks talk about. Technical subjects such as SWR, Antennas, Latest radios, Theory. Operating such as Emergency Procedures and Drills. DX. Contests. History. Dirigibles. Old Cars. Pick Up The Dry Cleaning. Bring Home Some Lettuce. Old Timers reminisces. Old Radios. Well you get the idea and some interesting conversations do take place. But starting a conversation about politics or abortion with a stranger can get dicey -- best know your audience.

How long do you talk in view of the party-line concept? Usually there are no hard and fast rules. It depends on the time of day (rush hours are PRIME TIME for mobiles, evening is also a busy time, while 2 a.m. is pretty quiet). If you've been interrupted several times by others needing the repeater to call someone, maybe you've been on a bit too long.

Also if you are going to give a long dissertation, let the repeater drop occasionally so as to not time out the repeater. Announce this by "Let me Reset" "Let me get another nickel" "Let me burp the repeater" and other cuties. Speaking of cuties, CB is great Americana and has some colorful expressions, but these are not often heard in Ham Radio. Best leave these on the 11 Meter band as some old time Hams get all upset with CB expressions -- their problem, not yours --- but just so you know! 10-4 Good Buddy, the first personal is, hitting me with 10 pounds, passing you the good numbers, come on back etc., best

be left on the CB Band.

Note that some repeaters have hundreds of users and may have some pretty tight guidelines or even rules regarding usage. For example, a repeater in Los Angeles discourages base station usage during commute hours. Be sure and get the repeater guidelines or lacking same, ask on the repeater if it is open to any users, members only, commute hour guidelines etc. A repeater in farmland USA may discuss corn prices et. al., and not be amenable to "entertaining travelers". Some use DCS and won't hear you at all.

When you finish your transmission and unkey, the beep will alert the other person that it is their turn, so no need to say over, back to you, go, your callsign - their callsign, come on back, etc.

It is not necessary to give your callsign after each transmission -- only necessary each ten minutes to satisfy FCC rules. But give your callsign when first coming on and when signing clear.

COPS AND JAMMERS. For beginners, don't play repeater cop is a good rule to follow. Later you can alert folks to observe the beep and other advice. But for JAMMERS most repeaters advise -- NEVER EVER acknowledge them or engage them in any way. They are looking for attention -- don't give it to them and soon they will probably go away.

HELPING HAMS WITH DIRECTIONS. Often heard on repeaters is out-of-towners or locals asking for driving directions. Base stations often have access to the Internet and can bring up map quest and do a good job.

First determine the location of the mobile before giving them your navigation expertise. Unfortunately, one person may give adequate directions, and then someone else JUST has to break in to give his/her favorite back alley secret shortcut. Or some other clown gives a two-minute dissertation of street names and landmarks, ad-nauseum. The lost ham thanks everyone, pulls the plug, and finds a service station to de-confuse themselves. If someone has given adequate directions, let it alone. Make corrections only if the directions are dead

wrong. Keep directions simple.

ARGUMENTS AND BRU - HA - HA'S. We Amateurs are heard not only by ourselves but many non-hams, shack visitors, folks on scanners, etc. We need to keep it from sounding like the CB band and keep a professional approach to our communications. Insults, jamming, disparaging comments with no ID, swearing, heated exchanges and calling another a LID, really have no place on the repeaters. Good-natured jibing is self-evident and humor is in order, but grim enemies have been made on the repeaters -- bite ye olde tongue, keep cool or stop transmitting. Don't stomp on new comers or any other comers for poor operating practice - a gentle reminder or better yet - discuss it off the air.

MULTIPLE CONVERSATIONS. Not all conversations are strictly two-way. Three, four or five or more Hams can be part of a "roundtable" conversation (five or more can be pretty unwieldy). A roundtable is a lot of fun, but it poses a problem: when the person transmitting is finished, who transmits next? Too often, the answer is everybody transmits next, and the result is a mess (doubling). You'll hear this often. The solution is simple -- when you finish your transmission in the roundtable, specify who is to transmit next. "... Over to you, Fred." This takes some concentration as to who all is in the round table, try and keep track or write it down for reference. If you lose track -- turn it over to someone you know always keeps track -- "help me with the rotation Ted".

Also try "over to whoever is next" and hope for the best. Jump ball sez you don't know who is next-- hope for the best. Examples -- "over to Fred, then Charlie". Or by implication, if it is Dave's turn - Dave are you still on I-15?" Another style is 3 or 4 in the conversation where strict rotation isn't used, some one asks a question or makes a comment and another with the answer or counter-comment comes in after the beep, but careful not to double with someone else. Usually these are very short transmissions and comments -- sometimes called quick key QSO's. A technique to prevent doubling is to double clutch -- that is key up, immediately drop it and listen to see if no one else is transmitting, then go ahead.

LONG CONVERSATIONS. Repeaters are a great place to get information, SWR, Antennas, Radios, Computer stuff and just about anything else and some of these can get quite lengthy. Many clubs have several repeaters and when a long conversation is forming - especially during repeater busy times (commute time), maybe it is best to go to a less used channel or to a simplex frequency. This is especially true if the conversation is of interest to just a few folks, such as butterfly collecting. So if the "prime" repeater is in use, try a secondary one.

PRIVATE CONVERSATIONS. Believe me there is no such thing on the VHF/UHF airways! If you change frequencies to a simplex frequency or another repeater for a private QSO, chances are someone will follow you and someone always seems to be listening. Scanners can find you very quickly. Even if you went to 1.2 GHz simplex, 2M SSB, or HF! Be careful with gossip on a "private" channel or frequency, it can come back to haunt you.

BREAKING IN. Repeaters are shared resources -- one big party-line. There are many times and reasons that a conversation in progress might be interrupted. You might break in to join the group and add your comments to the subject at hand. Someone else might break in to reach a party who is listening to the repeater. The breaker might have to report an emergency, traffic advisory, or make an urgent contact.

If you have a two-way conversation going, even somewhat of a private nature, expect that someone will break in. If this bothers you, choose a less often used repeater, or go simplex. Also the less used bands, 220, 440 or SSB portions will allow some degree of "privacy"

For breaking in - here are some suggestions: Pick a good time. If you have an emergency, a good time is NOW. That's why there's a pause between transmissions. Otherwise, listen a bit. Read the ebb and flow of the conversation. One of the fastest ways to establish a reputation as a jerk is to frequently butt your way onto the air without regard for the people already talking, and say -- just saying hello, or just letting you know I'm here. Give your call, and say what you want.

When you've listened and decided it's OK

to break in, transmit before the beep and say something like this: "AC6V, I have an emergency," "AC6V, can I make a call?" or "AC6V joining in." "AC6V comment" "AC6V question" "AC6V info". But some common sense is in order, if a ham is giving his/her out-of-state buddy directions - why would you break in and start a QSO on hiking?? Wait until they finish, of course.

What about "Break?" The problem with just plain "break" is that nobody knows exactly what it means, and everybody has to stop and find out. You will hear some Hams say, "break" means, "I just want to join in or make a call," "break-break" means "I have very important traffic," and "break-break-break" means "I have a dire emergency." That's fine, but not everybody knows that. Plain English works better. State the reason for your break, AC6V joining in, AC6V info, AC6V comment, AC6V traffic report, AC6V quick call please, AC6V emergency. If someone is joining in -- perhaps say, "callsign recognized, you follow Sally". A "breaker" should be given the frequency immediately - could be an emergency. If someone "breaks" in on you. What do you do? Let them transmit, RIGHT NOW unless you know absolutely and for certain that they do not have an emergency.

Some break in just as you were ready to answer a question and answers it for you -- irritating as you may have spent some time and effort to look up the answer, but you should immediately recognize the break as they may have an urgent call or real emergency. If folks would announce why they are breaking -- it would make repeater life a lot more organized. Maybe somebody hasn't read this guide and isn't the expert operator you are now, and they just say "break" or drop in their call, when what they really mean is "HELP." So let them talk. Say "go ahead, or go ahead the breaker" And if they're one of those boneheads who's interrupting your perfectly good conversation for no reason but to hear themselves talk, well, bite your lip and be glad you know better. The exception is when someone actually announces an emergency. Then CLEAR THE REPEATER! DO NOT TRANSMIT. The station who declared the emergency has the frequency, and unless they ask for your help, don't give it. Unless... always and unless... they obviously don't know how to handle the situation... and you DO. (You do, don't you?)

ROLL CALL OR A DEMO PLEASE. When you have visitors to the shack and would like to demonstrate repeater FM and Amateur Radio, "AC6V could I have a demonstration please for some visitors. Callsign, name, location, and power." Hopefully not every body doubles -- try double clutching. Maybe give the visitors the brag tape on repeater range, mountain location, and the quality of Frequency Modulation.

MAKING AN AUTOPATCH CALL. Most repeaters have specific rules and require membership for using the autopatch. You must ask the AutoPatch guru or trustee for the procedures

NETS. A net is a group of many stations that meet on a specified frequency at a certain time. The net is organized and directed by a net control station, who calls the net to order, recognizes stations entering and leaving the net, and authorizes stations to transmit. Most nets are "directed nets" so as to keep order amongst the multitude tuned in. You should not transmit unless solicited or as directed by the net control. Examples - "check-ins please". "AC6V -- do you have anything for the net." If you are not part of the net - use a different repeater for other matters.

Nets can be of a wide variety of subjects: NTS (National Traffic System), Ham Help, Morse Code Practice, Offroad Nets, Language nets, Youth Groups, Sailors/Boaters, Emergency - ARES, RACES, Microwave, ATV, Facetious Group, Field Day Planning, Swap, Trivia, YL, and many others. Swap nets are held on some repeaters - yes it is legal to announce equipment for sale or items wanted on Amateur Radio as long as the items are Ham related.

TECHNICAL NETS. A great way to get into the more specialized areas of ham radio is to join in a technical net. These include but not limited to: Microwave nets, ATV Nets, Field Day, Backpacking, Offroad, and others. Listen in -- some exciting projects can be heard

To be continued

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(Net Managers) (see pg.12)

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Sailors	-Paul/Rod	NN6X@amsat.org / AC6V@amsat.org
Traffic(SDCTN)-Charles		N6TEP cmiele@juno.com

Questions about club policy or for information can be addressed to **W6NWG@amsat.org** or P. O. Box 73, Vista, CA 92085-0073.

EMAIL address for Website is **webmaster@palomarc.org**

Other addresses of interest:

Scope@palomarc.org

Board@palomarc.org

Membership@palomarc.org

Contest Coral

Apr 3 Kids Roundup (See QST)
 Apr 3 Spain RTTY Contest
 Apr 3 Missouri QSO Party
 Apr 3 QCWA QSO Party
 Apr 10 Georgia QSO Party
 Apr 10 JIDX CW Contest
 Apr 17 Holyland DX Contest
 Apr 17 Michigan QSO Party
 Apr 17 Spain QRP CW Contest
 Apr 24 Florida QSO Party
 Apr 24 Kentucky QSO Party
 Apr 24 Nebraska QSO Party
 Apr 24 Helvetia Contest

Above are some of the many contests to be held in April. SSB, CW, RTTY, and other modes are represented. Several state QSO parties for those seeking WAS. Complete rules are found in QST, CQ, NCJ and Worldradio magazines. CU in the Contest. 73, Harry/W6YOO

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Web Pages

PARC's Home Page -
<http://www.palomararc.org>

Rod's - AC6V
<http://www.ac6v.com>

ARES Alert Publication
<http://sanarrl.org/alert.htm>

Tom's Hiker's - KF6PAZ
<http://www.fanciful.org/san-diego-hiker>

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Last Month's Goodie's

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Fred K6ISS
Jim N6FU
Terry K3PXX
Preston W6ASP
Bernie N6FN

Fold & Staple Crew

KB6NMK Jo & Toby
K6ML Jim P W6GNI A
KR6BT Merle KB6YHZ Art
KB6YHY Anita KG6AEW Bill
N6UZH Terri & Matthew

Treasurer \$\$\$,\$\$\$

Jo Ashley KB6NMK@amsat.org
ASSETS February 29, 2004

Cash and Bank Accounts	
CD	2,835.74
CD	2,689.86
CD	3,399.30
CD	2,836.75
Checking	3,348.31
Post Office	97.30

TOTAL ASSETS \$15,211.16

Pre-paid dues	7,792.00
Prop. Insurance	1,800.00

LIABILITES	\$9,592.00
EQUITY	5,619.16

TOTAL LIABILITIES & EQUITY
\$15,211.16

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(4.2) **ICOM IC-3AT** 220 MHZ ,Very Clean w/Key Pad, PL,New Antenna, New Battery. Asking \$50.00 OBO. (1) Wilson Hand Held, Mark IV Receive 146.52 Simplex, 146.64, 147.150.I, \$25.00, Bayard K6GAO 858-755-5507.

(4.3) **Yaesu FT-230R** 2 Mtr FM Transceiver w/SS32 PL Board \$80.00, **Astron AS-7** Power Supply \$29.00, **Yaesu FT-227R** 2 Mtr FM Transceiver \$45.00, **Celestron C-8** Catadioptric Telescope with Heavy Duty Tripod, Planetary motor-drive, X2 Barlow Lense – Spotting Scope, w/manuals \$850.00, 2 – B&W 9” Security Monitors \$10.00 each, Galaxy Electronics PR550 Phone Patch w/manual \$25.00, 2 Larsen 6 Mtr 5/8 wave mobile antennas, fits NLA Mounts \$10.00 each, Swan MMBX mobile antenna matcher \$10.00. Cushcraft R-7000 Vertical \$150.00. Panasonic Stereo Earphones Model RP-HT12 (New) \$4.00 Each. Panasonic Super Compact Blank Video Tape ST-C30 (New) \$4.00 Each. New Panasonic Video Accessories, i.e., Tape Head Cleaners, Camera Power Supplys ETC., Too numerous to list. Contact Dennis K7DCG @ 858-748-9046 or email: K7DCG @ ARRL.NET

(
4.4) **ICOM IC-T81A,case**, HM-75A speaker microphone, BP-197 battery case, OPC-254/L DC power cable, CS-T81 cloning software, OPC-478 cloning cable, and MH-510 tri-band after-market antenna. \$120. Bob KY6P. (619) 318-2217

(2.5) **ICOM IC-T81A**, case, HM-75A speaker microphone, BP-197 battery case, OPC-254/L DC power cable, CS-T81 cloning software, OPC-478 cloning cable, and MH-510 tri-band after-market antenna. \$160. Bob KY6P. (619) 318-2217.

(2.1) **Kenwood TS-520S**, 10-160m, after mkt digital display, Sure 444 desk mic. Original manual, Very good cond. \$235

***Personal equipment ads** are free to members and could be “bumped” after 3 months. Make up your ad like the ones on this page. Send to Scope before the 18th of each month.*

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(1.12) **10 GHz Gun Plexers** (2) Brand new, still in box, **U-wave MA87.27**, 10.25 GHz Varactor tuned GP xcvr. Make offer & pay shipping. Contact JACK KG6RWI @ 760/749-4572 or e-mail KG6RWI@aol.com for details.

(11.29) Tubes, chokes, transformers, capacitors, etc. for sale. I anticipate moving and all things must go! Please contact for a detailed inventory. Call: NI6N. Email: pat_osullivan_email@yahoo.com. Phone: (760) 940-8355."

(10.13) **Yaesu FT-817** package - includes the FT-817 and microphone, 500 Hz Collins filter, LDG Z-11 auto tuner and balun, W4RT One Plug Power battery, original battery and battery door, dry cell holder, Buxcom Rascal soundcard interface and software, Waters and Stanton AT80 portable antenna and Hf-project 30 watt amplifier (needs work), manual. \$600.00. **SGC 2020 HF** transceiver with ADSP2 and microphone- \$450.00 Gary, W6GDK at (858) 679-0578 or w6gdk@arrl.net

(9.18) **29' Ericson Sailboat**, Auto-pilot, radio, depth sounder, TV, Microwave, Sleeps 6, Head, Galley, **Transformer**, (CV Solar, Input 115v 60cyc, Out, 120v, 25 amp.) **Transformer** (75KVA, 50% Duty Cycle, Primayr 440v, Sec. Parallel Low 5.37,5.88,6.2,6.57 — Hi 7.22,8.15,8.8,9.59 or Series Low 10.74,11.72,12.40,13.14 or Hi, 14.22,16.3,17.6,19.14v, Call Art Nye KB6YHZ, 760-758-0234

(2.22) **4 El 10 Meter Yagi Beam** All stainless hardware w/W2DU Beam 50 Ohm Balun. Only up for short time, Very clean, Works very well. \$75.00 OBO Bayard K6GAO 858-755-5507

(10.25) Radio Shack 300-Channel **Handheld Trunk Tracker Scanner, Pro-90**, Like new in box 80.00. Louie KF6QBS.760-727-0846. kf6qbs@amsat.org.

(10.3) **Bencher Paddle Keyer and MFJ automatic keyer** (curtis chip). Like New! \$75 Bob AC6JG 760 207-9045.

Wanted

(4.5) Print or Manual for a SB 200 Heathkit Linier Amplifier W6ODU 760-749-8385

(3.9) Lafayette HA-600 or HA-600A, working or not. Contact Bill, KD6BFR, -kd6bfr@hotmail.com 760-480-6805

(3.8) Copy of Instruction Manual for the Unique Wire Tuner. Jim Keller WB6YXY 760-758-7655 jkeller@cox.net.

(2.3) Six, 12Volt UPS batteries (72 VDC total) 38 AHr gel cells. For the PALBBS computer. We could use a different AHr rating if necessary. Current backup batteries are getting weak.

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Palomar stocks a wide variety of cores and beads. Our RFI Tip Sheet is free on request. Our RFI kit keeps RF out of your telephones, TVs, stereo, etc. **Model RFI-4 \$25 + tax + \$6 to ship.**

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PARC NETS

Sunday	0830	146.730	ARES
Sunday	1000	146.730	Sailor's Net
Sunday	2045	147.075	MARA Emergency Services
Monday	1915	146.730	RACES Sub-Net
Monday	2100	146.730	Microwave Net
Tuesday	2100	146.730	Off-Road Net
2nd Wed	2100	146.730	PARC Board Net
Thursday	1930	147.075	Young Hams Net
Thursday	2100	146.730	Ham Help Net
Friday	2100	146.730	Hiker's Net
Saturday	2000	52.680	6 Meter ARES Net
Tue/Thu/Sat	2000	146.730	NTS Traffic Net (SDCTN)

PARC Testing

Carlsbad - 2nd. Saturday at 9:30 am in the Carlsbad Safety center.

Contact Rusty **AA6OM**
760-747-5872 or dunedancer@cox.net

EARS Testing

Escondido - LAST Saturday at 9:00 am
Chamber of Commerce
720 N.Broadway, Esc 92025

Contact Harry **W6YOO**
760-743-4212 or W6YOO@amsat.org

Register 5-7 days in advance for tests.

Repeater Status

146.730-	:	Normal
147.075+	:	Normal
147.130+	:	Normal
447.000-	:	Normal
52.680-	:	Normal
146.700-	:	Packet Repeater Normal
145.050	:	Packet Digi Normal
PALBBS	:	Bulletin Board Normal
AutoPatch	:	Normal
ATV	:	Upgrading

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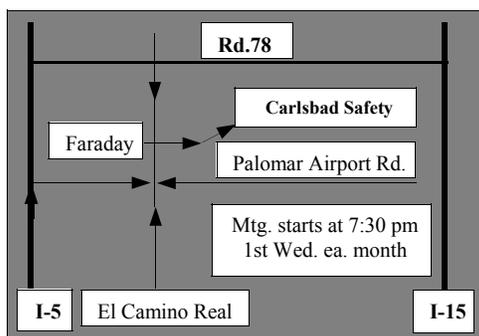
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Palomar Amateur Radio Club Inc.

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Scope address for newsletter: scope@palomararc.org

146.73-, 147.13+, 147.075+, 447.000-, 52.68-; Pkt 146.7-, 145.05 & ATV, 4 Autopatches





Palomar Amateur Radio Club

May 2004

May Meeting

May 5, 2004

Carlsbad Safety Center

KC6UQH (Art) will present a program on the design and manufacturing of amateur radio antennas. The program will discuss practical considerations that should be taken in the set-up of inexpensive antennas, and also considerations to keep in mind when planning larger and more complex installations. This will be an excellent program for newcomers to the hobby.

PARC Repeaters

Palomar Mt. Repeaters (W6NWX)

PARC Trustee: AB6QT

*52.680- W6NWX, -0.5 MHz.

Autopatches:

146.730-, *147.075+

* 147.130+, *447.000-

PKT:

145.050s (PALMAR/W6NWX-1)

146.700- (Duplex Pkt) PALBBS/
EMG use

145.070/146.7 - (W6NWX-3/PALBBS)

ATV "OUTPUT":

1241.25 MHz. am

ATV "IN":

915 wbfm, 919 am, 2441.25 wbfm

Intercom:

146.415 PL 79.7 nbfm

Affiliated:

*224.38- & *224.94 KK6KD (HARS)

*447.05- & *145.26 KK6KD (HARS)

*146.175+ N6FQ(FalbrkARC) linked to

*445.600 MHz (-)

*224.90- WD6HFR (Convair/220 ARC);

446.14- WB6FMT(123.0)Vista;

* = 107.2 Hz. PL Tone

President's Message.-

As you read these lines, many of us will be making plans and looking forward to the Dayton Hamvention. Have you ever been to Dayton? If not, you should plan on at least one trip to ham's "Mecca" in order to gain a unique appreciation of our hobby.

Those of you who travel through, or lived on, the East Coast know that there are differences between East and West experiences in ham radio. One of those differences is the variety and frequency of East Coast hamfests, a tradition simply not found out here in California. For unclear reasons, and in spite of the much larger number of hams in California than in any other state, we simply do not have many opportunities to gather and enjoy the hamfest tradition. Our "swapmeets" pale in comparison to events such as the Dayton, Timonium, Baltimore, Frostfest (in Vienna VA), Berryville, SPARC, Richmond, and similar East Coast hamfests.

Starting in February, and lasting through November, the large ones mentioned take place once a month. When you include smaller, but no less attended events in local communities, East Coast hams can enjoy a major opportunity to meet, have "eye ball QSOs", and trade gear and stories, at least once a week throughout the year!

Congratulations to NA6RS (Ron), our Scope editor, on his recent move to Maryland. While we miss him and his good sense of humor on the repeaters, he is now settling on the next phase of his journey, and reunited with family and friends. Scope readers probably do not appreciate that his steady hand is the reason Scope appears seamlessly at the printers every month, regardless of where in the world Ron is flying in his pilot career. *Thanks Ron!*

Many thanks to N6FU (Jim) who is now serving as the PARC VE Coordinator while AA6OM (Rusty) is temporarily on a remote work assignment. Jim stepped up to the plate without hesitation, in the finest tradition of volunteerism. We are lucky key people do volunteer on a moment's notice, as without their willingness to serve, many of the PARC functions would be missed.

Many of you called or emailed with humor and enjoyment of last month's April fool President's column. Indeed, one PARC member actually talked about SPART (the "Society for Preservation of Amateur Radio Traditions) on the 146.730 repeater, and was surprised to learn it was all a joke! So, any of you out there who did not read the end of the April President's column, the column *was an April fool column*. My apologies to those who kept trying to log on to the fictional web page links. Remember, just because it has a web link, it does not mean it is real!

73 de NN3V

Club Membership

New Members Joining PARC:

KE9SP, KJ6EF, KG6UER, AC6NI,
AE6PU, KE6DUG, and AI0RL.

Apologies to KE9SP, listed as KE6SP last month.

We had 3 "old" members reinstate their membership after considerable delay. Welcome back.

AI, W6GNI

Minutes

Palomar Amateur Radio Club Board of Directors

April 14, 2004

The meeting was called to order at 7:06 PM by K6KAL at the home of KB6NMK.

Present were:

Vice President, Dennis Baca KD6TJ
Director Merle Risdon, KR6BT

Treasurer, Jo Ashley, KB6NMK
Director, Stephen Early, AD6VI

Secretary, Dick Kalkofen, K6KAL
Membership Chairman, Al Donlevy,

Treasurer's Report of 4/14/2004

Jo, KB6NMK submitted the Treasurer's Report. Two CD's have been rolled over, one for six months and one for 12 months. Dick, K6KAL moved the report as distributed be accepted, and was seconded by Steve, AD6VI.

Secretaries Report

Jo, KB6NMK moved that the report as distributed to the board and published in the scope be accepted, and was seconded by AL W6GNI.

Discussion Items

Dick K6KAL continued his report on a search for LCD projector for the club. There was a discussion as to getting it locally or from a 'Web' site, and it was agreed to search locally.

There was a brief review of the features that would most benefit the clubs needs.

There was a brief discussion as to a safe deposit box for the club. Al, W6GNI will make some inquires as to what sizes are available and what size the club would need.

There was a brief discussion about the clubs bylaws. Dennis KD6TJ passed out copies for reference in future discussions.

A request by the EARS club to use the Clubs repeater by Nick, KK6TV in support of Valley Center Western Days Parade on Saturday May 29th, 9 AM to 1 PM, was approved for the 146.075 repeater.

Membership report

Al, W6GNI notes that the club now has 466 members down 2 from last month.

Repeater Technical

The following was submitted by Mike Doyle, AB6QT Repeater Technical Chair via Email:

1. The 147.075 repeater was off the air for about 3 weeks with a dead PA. I returned it to normal service on Sunday March 28th.

2. The work party provided for a successful transfer of items from the old trailer to the camper. The old Chevy truck that I drove there was full of "stuff" for the dumpster. Al Donlevy W6GNI and John Carmichael N6FU both helped tremendously on that day. The next step is for me to spend a couple of hours (and another empty Chevy) to finish the job. We will then be ready to dispose of the trailer. I have the tires for it here at my house and I will make sure that they hold air for the event. I guess we need to decide "What to do " with it. Perhaps Father Joe can help. Perhaps. After the trailer is out of the way then I would like to revisit my idea from several summers ago to place a small cargo container in its place. Perhaps someone can start to research that idea.

3. It has been reported to me and confirmed by me that the 447 repeater is sick with low volume. I will check it out sometime soon after my return from Arizona.

4. John Carmichael N6FU is interested in learning the "ropes" at the repeater site and I intend on starting to train him

when I work on the 447 repeater. Thanks John.

5. Since I will eventually be leaving the area (perhaps 2 to 6 years from now), we should start looking for a replacement for the W6NWG trustee. It is very possible since I now am buying 40 acres in Arizona that the 2 years is more realistic than the 6, but time will tell. I am willing to give up the trustee position as soon as we can find a replacement. 73 de AB6QT

Repeater Site

There was no site report at this meeting.

Next Board Meeting

The May board meeting will be held at the home of Jo, KB6NMK at 7:00 PM on May 12 14th.

The meeting was adjourned at 8:06 PM.

Respectfully submitted,

Dick Kalkofen, K6KAL, Secretary

DEL MAR FAIR

The Del Mar Fair is coming up in June! We need volunteers to man the ham radio station at the fair. If you are interested, please contact NE6O Jim Cooper.

The Palomar ARC will be sponsoring the following day(s): someday, June some-time etc.

Shifts are four hours long. You will get free admission to the fair the day of your participation.

73, Jim Cooper NE6O
ne6o@amsat.org
760-727-8446

Find and Using Repeaters Part 4 by AC6V, Rod

EMERGENCY NETS. Emergency nets are an organized meeting of Amateurs to conduct dissemination of emergency news, drills or the real thing. Most organizations require some training on how to conduct and handle emergency traffic. Emergency groups include Amateur Radio Emergency Service (ARES) and Radio Amateur Civil Emergency Service (RACES). Contact your local emergency group or ask on a repeater for how to join. – see URL: ac6v.com/emergency.htm for more details on emergency service. Joining these groups is a good way to get to know people as well as be prepared to help in a real emergency. These groups also participate in Public Relation events, such as parades, air shows, horse races, street fairs, etc. Participating can be a great way to learn how to pass traffic and understand communication protocol.

HAM HELP NETS. Many repeaters sponsor ham help nets for new comers or anyone else who has questions or needs advice. Subjects often discussed are antenna building, SWR, charging batteries, computer problems, HF operation, microwave, ATV, PSK31, the list is endless. Some conduct Morse code practice sessions. One can get on the repeater at any time and seek help, but there may be a limited audience. Ham help nets usually draw several experienced hams who can

address just about any ham related question. The moderator typically has the Internet up and running and can direct questions to applicable URL's. **END**

Thanks Rod for your support of your newsletter. de NA6RS, Ron

Q Signals Heard on HF/VHF

Q-Signal	Question ?	Answer, Advise, or Order
QRM	Are you being interfered with? Do you have interference	I am being interfered with. Common Usage - A jammer or a spurious signal is interfering with the repeater.
QRN	Are you troubled by static?	I am troubled by static. Common usage "Path Noise"
QRP	Shall I decrease power?	Decrease power (commonly a Low Power Station)
QRT	Shall I stop sending?	Stop sending (Common usage - clear of the repeater) (Maybe Shutting Down)
QRX	When will you call me again?	I will call you again at ... (hours) on ... kHz (or MHz) Common Usage Pause, Wait, Standby, maybe a phone call or shifting gears in a mobile
QRZ	Who is calling me?	You are being called by ... on ... kHz (or MHz)
QSL	Can you acknowledge receipt? Common usage - Did you get that OK?	I am acknowledging receipt. Common usage -- Yes I understand, Roger
QSO	Can you communicate with ... direct or by relay?	I can communicate with ... direct (or by relay through ...) Common Usage -- A 2-Way Contact, a conversation.
QSY	Shall I change to transmission on another frequency?	Change to transmission on another frequency (or on ... kHz (or MHz). Common Usage - Changing channels (frequencies)
QTH	Common usage Where are you located?	Common usage - Your location mobile or home
73	73 is not a Q- It means "Best Regards". Since regards is plural we say 73 not 73's.	
88	88 is not a Q-Signal but is a hang over from telegraph days. It means "Love and Kisses"	Commonly used for exchange with the opposite gender, but used for those who you would normally send " Love and Kisses" in a correspondence.

Committee Chairmen

AREInfo.	-Dennis S	K7DCG@amsat.org
Attendance	-Al	W6GNI@amsat.org
ATV	-Art	KC6UQH@amsat.org
Auction	-Jim C.	NE6O@amsat.org
Badges new	-Al	W6GNI@amsat.org
Batteries	-David	KD6EBY DAT@Gerry.Palomar.caltech.edu
BBS Monitor	-Bill B	N6FMK@amsat.org
Billing:Ads/etc	-Lyell K	K6GVM@arrl.net
Contest Info	-Dennis V	N6KI@amsat.org
ControlOps.	-filled	W6NWG@amsat.org
D.Mar Fair-		
Emergency QTH's (Emergency Com. Centers)		
HarryH	-W6YOO	W6YOO@amsat.org
DennisV	-N6KI	N6KI@amsat.org
Field Day	-Charlie R	NN3V@ARRL.net
FDTech.	-John K	WB6IQS@Juno.com
Inventory	-Dennis B	KD6TUI@juno.com
New Members	-John E.	KG6EQU@amsat.org
Nets	-	
Newsletter	-Ron S	NA6RS@amsat.org
PALBBSpkt	-Bruno H	KF6QDP@amsat.org
Patch Info	-Stan R	W9FQN@amsat.org
PatchETronics	-Jerry H	WB6FMT@amsat.org
Picnic	-Paul D	NN6X@amsat.org
PowerAC/DC	-Mike P	KD6VHI@amsat.org
Programs	-Dennis B.	KD6TUI@amsat.org
Publicity	-	
QSL Cards	-Merle R	KR6BT@Juno.com
RACESinfo	-Jo A	KB6NMK@amsat.org
Red Flag	-	
Rptr Site	-Mike P	KD6VHI@amsat.org
Rptr Skeds	-	
SANDARC	-	
SellerTable	-John K	WB6IQS@Juno.com
AstSWDivDir	-	
TechSite	-Mike D	AB6QT@amsat.org
TestingVE	-Jim C.	N6FU@amsat.org
Training	-	W6NWG@amsat.org
TrusteeW6NWG-Mike D		AB6QT@amsat.org

(Net Managers) (see pg.12)

ARES Sun	-	
Staff Net	-David D	KC6YSO@amsat.org
ARES 6m	-David D	KC6YSO@amsat.org
Ham Help	-David D	KC6YSO@amsat.org
Hiking	-Ed B	ebbutler@juno.com
	-Glenn P	KE6ZLY@Juno.com
MARA	-Cathy	KE6IQU W6NWG@amsat.org
Microwave	-Kerry B	
Off Road	-Jerry A	jwak6pfp@cts.com
	-Dick W	KA7AYT rwilimek@home.com
Sailors	-Paul/Rod	NN6X@amsat.org / AC6V@amsat.org
Traffic(SDCTN)-Charles		N6TEP cmiele@juno.com

Questions about club policy or for information can be addressed to **W6NWG@amsat.org** or P. O. Box 73, Vista, CA 92085-0073.

EMAIL address for Website is **webmaster@palomarc.org**

Other addresses of interest:

Scope@palomarc.org
Board@palomarc.org
Membership@palomarc.org

Contest Coral

May 1 MARAC County Hunters, CW
 May 1 10-10 Int'l Spring Contest, CW
 May 1 Indiana QSO Party
 May 1 New England QSO Party
 May 8 VOLTA WW RTTY Contest
 May 8 Mid-Atlantic QSO Party
 May 8 NV and OR QSO Parties
 May 8 FISTS Spring Sprint
 May 15 US Counties QSO Party
 May 15 King of Spain Contest, CW
 May 15 Portugal Navy Day Contest
 May 22 2 GHz and UP Contest
 May 29 CQ WW WPX Contest, CW
 May 29 Great Lakes QSO Party

Boy! There's a lot of QSO parties this month. Good chance to round out your quest for Worked All States. And if you are chasing DXCC, the CQ WW WPX contest is a great opportunity. Complete rules may be found in QST, CQ, NCJ and Worldradio magazines.

CU in the Contest de Harry, W6YOO

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Pres: Charlie Ristorcelli NN3V
858.676.3307 NN3V@amsat.org

VP: Dennis Baca KD6TUJ
760.722.0251 KD6TUJ@amsat.org

Sec: Dick Kalkofen K6KAL.
760.519.0670 K6KAL@amsat.org

Treas: Jo Ashley KB6NMK
760.741.2560 KB6NMK@amsat.org

Dir#1: Merle Risdon KR6BT
760.941.0213 KR6BT@amsat.org

Dir#2: Steve Early AD6VII
619.461.2818 AD6VI@amsat.org

Repeater Site:

Mike Pennington KD6VHI
760.749-8888 KD6VHI@amsat.org

Membership:

Al Donlevy W6GNI
760.630.3096 W6GNI@amsat.org

New Member:

John Earnest KG6EQU.
858.484.8579 KG6EQU@amsat.org

Repeater Technical:

Mike Doyle AB6QT
760.742.1573 AB6QT@amsat.org

Web Pages

PARC's Home Page -
<http://www.palomararc.org>

Rod's - AC6V
<http://www.ac6v.com>

ARES Alert Publication
<http://sanarrl.org/alert.htm>

Tom's Hiker's - KF6PAZ
<http://www.fanciful.org/san-diego-hiker>

Jeff N6FRW Grace N6WPA

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Treasurer \$\$\$,\$\$\$

Jo Ashley KB6NMK@amsat.org
ASSETS March 31, 2004

Cash and Bank Accounts	
CD	2,838.02
CD	2,692.46
CD	3,402.87
CD	2,842.94
Checking	3,342.39
Post Office	97.45

TOTAL ASSETS **\$15,216.13**

LIABILITES	
Pre-paid dues	7,596.00
Prop. Insurance	1,800.00

Total **\$9,396.00**

EQUITY **5,820.13**

TOTAL LIABILITIES & EQUITY
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(5.2) **Collins 75S1** Receiver \$250.00, **Hallicrafters SX117** Receiver \$200.00, **Hallicrafters HA6** (6 Meters Transverter) \$30.00, **CushCraft AR-2** 2 Meter Ringo Antenna \$15.00, **Knight R55a** Receiver \$45.00, **Knight Span Master** Receiver \$35.00, **TEN TEC 1254** Receiver \$75.00, Several old Tube CB's (Can be converted to 10 Meters) (Call for info) Contact KF6MYE Jerry Kopack 760-436-6238 or JKopack@DIRECPC.com

(4.2) **ICOM IC-3AT** 220 MHz, Very Clean w/Key Pad, PL, New Antenna, New Battery. Asking \$50.00 OBO. (1) Wilson Hand Held, Mark IV Receive 146.52 Simplex, 146.64, 147.150.I, \$25.00, Bayard K6GAO 858-755-5507.

(4.3) **Yaesu FT-230R** 2 Mtr FM Transceiver w/SS32 PL Board \$80.00, **Astron AS-7** Power Supply \$29.00, **Yaesu FT-227R** 2 Mtr FM Transceiver \$45.00, **Celestron C-8** Catadioptric Telescope with Heavy Duty Tripod, Planetary motor-drive, X2 Barlow Lense – Spotting Scope, w/manuals \$850.00, 2 – B&W 9" Security Monitors \$10.00 each, Galaxy Electronics PR550 Phone Patch w/manual \$25.00, 2 Larsen 6 Mtr 5/8 wave mobile antennas, fits NLA Mounts \$10.00 each, Swan MMBX mobile antenna matcher \$10.00. Cushcraft R-7000 Vertical \$150.00. Panasonic Stereo Earphones Model RP-HT12 (New) \$4.00 Each. Panasonic Super Compact Blank Video Tape ST-C30 (New) \$4.00 Each. New Panasonic Video Accessories, i.e., Tape Head Cleaners, Camera Power Supplies ETC., Too numerous to list. Contact Dennis K7DCG @ 858-748-9046 or email: K7DCG @ ARRL.NET

(4.4) **ICOM IC-T81A**, case, HM-75A speaker microphone, BP-197 battery case, OPC-254/L DC power cable, CS-T81 cloning software, OPC-478

Personal equipment ads are free to members and could be "bumped" after 3 months. Make up your ad like the ones on this page. Send to Scope before the 18th of each month.

Commercial Ads in big boxes: \$2/col. inch/mo. We will "squash" your copy to the number of inches bought.

SCOPE@palomararc.org

cloning cable, and MH-510 tri-band after-market antenna. \$120. Bob KY6P. (619) 318-2217

(2.5) **ICOM IC-T81A**, case, HM-75A speaker microphone, BP-197 battery case, OPC-254/L DC power cable, CS-T81 cloning software, OPC-478 cloning cable, and MH-510 tri-band after-market antenna. \$160. Bob KY6P. (619) 318-2217.

(1.12) **10 GHz Gun Plexers** (2) Brand new, still in box, **U-wave MA87.27**, 10.25 GHz Varactor tuned GP xcvr. Make offer & pay shipping. Contact JACK KG6RWI @ 760/749-4572 or e-mail KG6RWI@aol.com for details.

(11.29) Tubes, chokes, transformers, capacitors, etc. for sale. I anticipate moving and all things must go! Please contact for a detailed inventory. Call: NI6N. Email: pat_osullivan_email@yahoo.com. Phone: (760) 940-8355."

(10.13) **Yaesu FT-817** package - includes the FT-817 and microphone, 500 Hz Collins filter, LDG Z-11 auto tuner and balun, W4RT One Plug Power battery, original battery and battery door, dry cell holder, Buxcom Rascal soundcard interface and software, Waters and Stanton AT80 portable antenna and Hf-project 30 watt amplifier (needs work), manual. \$600.00. **SGC 2020 HF** transceiver with ADSP2 and microphone- \$450.00 Gary, W6GDK at (858) 679-0578 or w6gdk@arrl.net

(9.18) **29' Ericson Sailboat**, Auto-pilot, radio, depth sounder, TV, Microwave, Sleeps 6, Head, Galley, **Transformer**, (CV Solar, Input 115v 60cyc, Out, 120v, 25 amp.) **Transformer** (75KVA, 50% Duty Cycle, Primayr 440v, Sec. Parallel Low 5.37,5.88,6.2,6.57 — Hi 7.22,8.15,8.8,9.59

or Series Low 10.74,11.72,12.40,13.14 or Hi, 14.22,16.3,17.6,19.14v, Call Art Nye KB6YHZ, 760-758-0234

(2.22) **4 El 10 Meter Yagi Beam** All stainless hardware w/W2DU Beam 50 Ohm Balun. Only up for short time, Very clean, Works very well. \$75.00 OBO Bayard K6GAO 858-755-5507

(10.25) Radio Shack 300-Channel **Handheld Trunk Tracker Scanner, Pro-90**, Like new in box 80.00. Louie KF6QBS.760-727-0846. kf6qbs@amsat.org.

(10.3) **Bencher Paddle Keyer and MFJ automatic keyer** (curtis chip). Like New! \$75 Bob AC6JG 760 207-9045.

Wanted

(4.5) Print or Manual for a SB 200 Heathkit Linier Amplifier W6ODU 760-749-8385

(3.9) Lafayette HA-600 or HA-600A, working or not. Contact Bill, KD6BFR, -kd6bfr@hotmail.com 760-480-6805

(3.8) Copy of Instruction Manual for the Unique Wire Tuner. Jim Keller WB6YXY 760-758-7655 jkeller@cox.net.

(2.3) Six, 12Volt UPS batteries (72 VDC total) 38 AHr gel cells. For the PALBBS computer. We could use a different AHr rating if necessary. Current backup batteries are getting weak.

PALOMAR ENGINEERS

Box 462222, Escondido, CA 92046

TOROID CORES

Palomar stocks a wide variety of cores and beads. Our RFI Tip Sheet is free on request. Our RFI kit keeps RF out of your telephones, TVs, stereo, etc. **Model RFI-4 \$25 + tax + \$6 to ship.**

BALUN KITS

Ferrites slip over coax. Shrink tubing holds them in place. Works from 3.5-60 MHz (Use two kits for 160 m).

Model BA-58 (for RG58, RG8X & similar cables up to 1/4" dia. \$7.50 + tax + \$6 S&H/order

Model BA-8 (for RG-8, RG-213, 9913 and similar cables up to 1/2" diameter. \$15.00 + tax + \$6 S&H/order

TUNER-TUNER

Tune your tuner without transmitting. Save that rig!

Just listen to the Tuner-Tuner's noise with your receiver. Adjust your tuner for a null and presto! You have a 1:1 SWR.

See catalog at www.Palomar-Engineers.com
Please check our complete ads in **QST**, **73**, **QC**, and **World Radio** magazines.

PARC NETS

Sunday	0830	146.730	ARES
Sunday	1000	146.730	Sailor's Net
Sunday	2045	147.075	MARA Emergency Services
Monday	1915	146.730	RACES Sub-Net
Monday	2100	146.730	Microwave Net
Tuesday	2100	146.730	Off-Road Net
2nd Wed	2100	146.730	PARC Board Net
Thursday	1930	147.075	Young Hams Net
Thursday	2100	146.730	Ham Help Net
Friday	2100	146.730	Hiker's Net
Saturday	2000	52.680	6 Meter ARES Net
Tue/Thu/Sat	2000	146.730	NTS Traffic Net (SDCTN)

PARC Testing

Carlsbad - 2nd. Saturday at 9:30 am in the Carlsbad Safety center.

Contact Jim N6FU
760-751-2515 or N6FU@amsat.org

EARS Testing

Escondido - LAST Saturday at 9:00 am
Chamber of Commerce
720 N.Broadway, Esc 92025

Contact Harry W6YOO
760-743-4212 or W6YOO@amsat.org

Register 5-7 days in advance for tests.

Repeater Status

146.730-	: Normal
147.075+	: Normal
147.130+	: Normal
447.000-	: Normal
52.680-	: Normal
146.700-	: Packet Repeater Normal
145.050	: Packet Digi Normal
PALBBS	: Bulletin Board Normal
AutoPatch	: Normal
ATV	: Upgrading

Send \$18 Dues To:
PARC, P.O. Box 73
Vista CA 92085-0073

HAM

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H
R
O

Tom KM6K
Ron N6OMW
Jose XE2SJB
Bob KA6EKT

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COMET
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OUTBACKER
Larsen Antenas
TEN-TEC
Hy-Gain,
Tri-EX,
Cushcraft

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numerous to
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800-854-6046

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great prices

Directions: On 163, take **Clairemont Mesa Blvd.** off ramp to East. Stay in right-hand lane. Turn right at stop light. As you are turning right you can see our beams in the shopping center. Travel 100 yds. on Kearny Villa Rd. and U-turn back to shopping area and **HRO** sign. Be sure to see our equipment in action on **real** antennas.

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SCOPE

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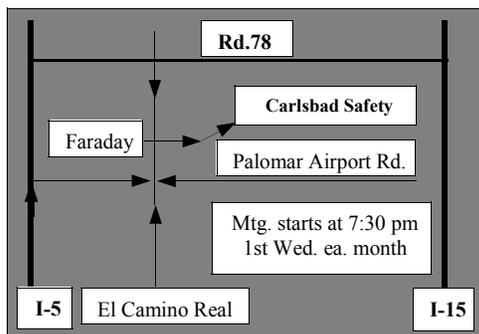
Address Label Here

Palomar Amateur Radio Club Inc.

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Editor: Ron Surfield NA6RS, 26080 Sycamore, Mechanicsville, MD 20659
Scope address for newsletter: scope@palomararc.org

146.73-, 147.13+, 147.075+, 447.000-, 52.68-; Pkt 146.7-, 145.05 & ATV, 4 Autopatches





Palomar Amateur Radio Club

June 2004

June Meeting

June 2, 2004

Carlsbad Safety Center

Bill Calderwood, K1CT,
speaking on 'Super Conduc-
tive Applications for Amateur
Radio'

(see Page 3 for details)

PARC Repeaters

Palomar Mt. Repeaters (W6NWX)

PARC Trustee: AB6QT

*52.680- W6NWX, -0.5 MHz.

Autopatches:

146.730-, *147.075+
* 147.130+, *447.000-

PKT:

145.050s (PALMAR/W6NWX-1)
146.700- (Duplex Pkt) PALBBS/
EMG use
145.070/146.7 - (W6NWX-3/PALBBS)

ATV "OUTPUT":

1241.25 MHz. am

ATV "IN":

915 wbfm, 919 am, 2441.25 wbfm

Intercom:

146.415 PL 79.7 nbfm

Affiliated:

*224.38- & *224.94 KK6KD (HARS)
*447.05- & *145.26 KK6KD (HARS)
*146.175+ N6FQ(FalbrkARC) linked to
*445.600 MHz (-)
*224.90- WD6HFR (Convair/220 ARC);
446.14- WB6FMT(123.0)Vista;

* = 107.2 Hz. PL Tone

President's Message

Well, the annual event that is "The Most Fun You Can Have With Your Radio Turned ON" is upon us. FD will be worked, *and enjoyed* by PARC this month. If you are not aware of the plans, then you should listen to 146.730MHz repeater every Wednesday night this month at 8:00 PM. That is when we host the PARC FD Planning net.

Elsewhere in this Scope you will find amplifying information on FD, so I will not go into detail, other than to encourage you to at least come out and see what the Club will be doing, and also participate in the FD picnic to be held at 4:00 PM on Saturday June 26th. at the Carlsbad safety center. All we ask is that you bring a potluck share plate. The Club puts on the heavy lift food (burgers, hot-dogs, colas).

I remind all of you that we are looking for volunteers to start picking up some of the traditional Club assignments needed to keep us a viable club. We continue to look for another SANDARC representative, and you will find a description of the tasks in a separate note included herein. It is a very benign set of duties, but of importance for the Club. SANDARC does coordinate amateur radio activity in San Diego county, and as the largest amateur radio club in San Diego County, we would be remiss in not providing strong voice for our club's member interests in the hobby here in the county.

I hope to see you at the meeting this month. You will find it a fascinating presentation.

73 de NN3V

Wanted

Scope Editor

Contact Charlie, nn3v@amsat.org
or (858) 676-.3307

Ron Surfield, NA6RS

I have been our Scope editor for the past several years and it has been a real pleasure to serve our club in North County, San Diego. As many already know, I am a pilot by profession and have been in California for the past 20 years, but the need to be a 'grandfather' has had to take precedence over this heavenly weather. In April, I moved back to Maryland to be close to my family and started at a new job that allows me to base out of there. Unfortunately, I have to do a lot more international travel as I will be flying a larger Falcon 900B and cannot always be available to do this job. It is time for someone to take the reins. I know that I have been extremely gratified to serve as your editor and know that my replacement will be also. We have a great club, but it needs people serving in many areas to make it even better. It's been a great experience to work with the individual hams that have supported me as well as the club over the years. I really appreciate the feedback, both positive and the negative, as it helps me to build a better newsletter. I will try to work the job until a replacement steps forward, but my time is limited. Thanks for being a great club.

73, Ron NA6RS

Minutes

Palomar Amateur Radio Club Board of Directors

May 12, 2004

The meeting was called to order at 7:04 PM by NN3V at the home of KB6NMK. Present were:

President, Charles Ristorcelli, NN3V

Director Merle Risdon, KR6BT

Treasurer, Jo Ashley, KB6NMK

Membership Chairman, Al Donlevy, W6GNI

Repeater Technical, Mike Doyle, AB6QT

Director, Stephen Early, AD6VI

Secretary, Dick Kalkofen, K6KAL

Treasurer's Report of 4/14/2004

Jo, KB6NMK submitted the Treasurer's Report. Al W6GNI moved the report as distributed be accepted, and was seconded by Steve, AD6VI.

Secretaries Report

Jo, KB6NMK moved that the report as distributed to the board and published in the scope be accepted, and was seconded by AL W6GNI.

Discussion Items

Dick K6KAL Submitted a final selection report with two choices, an Epson PowerLite S1+, and the InFocus DLP X1. There was a discussion

of features of both units, and with the price being relatively the same, the features of the InFocus unit made it the logical choice for the clubs needs. Merle, KR6BT made a motion that the club purchase the unit, and was seconded by Steve, AD6VI. The motion was put to a vote. There were 5 in favor, and 1 opposed. The motion carried.

Charlie, NN3V speaking as the field day coordinator submitted a request to approve a \$ 400.00 allocation for field day expenses. Merl, KR6BT made a motion that the allocation be approved, and was seconded by Jo, KB6NMK. The motion was carried.

There was a discussion about seeking another SANDARC representative, as Sybill Allbright, will be stepping down.

Steve, AD6VI, will submit an outline to the Scope, describing the duties, in the hopes that a member will step up and volunteer for the position.

A question was raised as to the next work party at the site, and Mike, AB6QT reported that none was scheduled at this time.

Mike, AB6QT reported that he would get the travel trailer that is at the site ready to be moved to a disposal location. Merle, KB6RT will assist in the arrangements with mid July as the target date.

Mike, AB6QT questioned as to who would take over the trusteeship of the repeater license, and Charlie NN3V said he would volunteer.

Jo, KB6NMK received a request from the Palomar Mountain Planning Organization for a donation. Al, W6GNI made a motion that the club donates the same amount as last year (\$25.00). Steve, AD6VI seconded the motion, and it was carried,

Steve, AD6VI reported that he is nearing completion of the PARC Committee Chairmen list.

Merl, KR6BT will be giving us an update on the arrangements for this year's picnic, and will publish it in the SCOPE.

Membership report

Al, W6GNI notes that the club now has 456 members down 10 from last month.

Repeater Technical

Mike, AB6QT reported that the 447.00 repeater has a transmit frequency drift, and will correct this issue, and have the repeater on-line shortly.

Repeater Site

There was no site report at this meeting.

Next Board Meeting

The June board meeting will be held at the home of Charlie, NN3V at 7:00 PM on June 9th.

Steve, AD6VI made the motion to adjourn the meeting, and was seconded by Jo, KB6NMK

The meeting was adjourned at 7:48 PM.

Respectfully submitted,

Dick Kalkofen, K6KAL, Secretary

June's meeting will feature: K1CT, Bill Calderwood speaking on 'Super Conductive Applications for Amateur Radio'

July's meeting will feature: a presentation by Mark, W6FTN

Club Membership

New Members Joining PARC:

W5NYV and KG6URD.

We had 2 "old" members reinstate their membership. Welcome back.

Be sure to check your label this issue, your "participation points" are printed there. Zero's are not printed. Come to the monthly club meeting, get 1 point, bring something for the Goodie Table, get another. Field day is a great way to earn points, setup, operate, help, tear down, etc. Be sure to sign the sign in sheets! Participation points are exchangeable for prize drawing tickets at the Annual Club Picnic. (Max 20 tickets per person. Several have 20 or more points already!)

AI, W6GNI

June Program

K1CT (Bill Calderwood) will present a program on about cryogenic super-conducting electronics, and the future possibilities for radio and electronics in general. Discussion will be about high temperature superconductor(HTS), high quality/low loss RF filters, high sensitivity super-conducting antennas, and extremely high-speed low temperature super-conducting (LTS) digital electronics. Bill is a recently retired Naval Officer, who devoted his career to signals intelligence and exploitation, with a specialty in radio propagation and radio system design and development. I am sure you will find the presentation to be fascinating.

Field Day Calendar

When?

June 25th. – 27th, 2004

Where?

Carlsbad Safety Center

2560 Orion Way, Carlsbad, CA.

What?

Multiple transmitters, All Bands, All Modes, Anyone can operate anything!

Next?

Planning Net On Wednesday Evenings, 8:00 – 9:00 PM 146.730 MHz Repeater

Needed:

Volunteers to organize, collect, and set-up equipment

Operators, Operators, and more Operators

Interested?

Contact NN3V@amsat.org

Or

Join The FD Planning Net

Come have the most fun you can have with your radio on!



Photo by Bob Gonsett-W6VR from I-15 north of Temecula
<http://fallbrookarc.org/images/IndiaFire5-04W6VR.jpg>

See "CELL PHONES" page 5

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Contact NN3V@amsat.org

Or

Join The FD Planning Net

Come have the most fun you can have with your radio on!

Field Day Schedule

Friday June 25th 3:00 PM – 12:00 AM
Saturday June 26th:

Equipment set-up. Principal large equipment arrives. Start tower and antenna set-up.

RVs and generators placed on site. Preliminary operations to test transmitters and related equipment.

Saturday June 26th 5:00 AM – 12:00 AM
Sunday June 27th:

Finish equipment and logistics set-up. Road Kill Café serves breakfast.

11:00 AM: ARRL FD operations begin. 24 hours of uninterrupted radio operation.

All PARC members participating in FD on site. Public displays and demonstrations all day. Guests and VIPs anticipated throughout the day, most likely in evening hours.

Potential for local TV coverage.

4:00 – 6:00 PM: **PARC annual FD picnic.**

Sunday June 27th 12:00 AM – 4:00 PM:

Radio operation continues through 11:00 AM

PARC members **start removal of all equipment at 11:00 AM.** Policing of area is done completely, and all equipment and members depart the site by 4:00 PM

CELL PHONES FAIL TO WORK DURING FIRE, HAMS PROVIDE COMMUNICATIONS

By Ron Patten-KG6HSQ

From the Fallbrook Amateur Radio Club Bulletin, June 2004.

Photo by Bob Gonsett-W6VR from I-15 north of Temecula, <http://fallbrookarc.org/images/IndiaFire5-04W6VR.jpg>

On Sunday afternoon May 2, 2004 the India fire on Camp Pendleton's north-eastern border threatened to cross off the base property into De Luz.

With Paul Sautter, W6SJJ, Steve Brooks-KE6GXP and Ron Patten-KG6HSQ watching the fire, Randy Jones, KD6UAK, Fallbrook ARES Emergency Coordinator/RACES Northern District and Bob Morrow, WB6DIJ, Fallbrook RACES were in contact with Gerry Sandford, KC6BJM, Chief RACES Radio Officer San Diego County, standing by to dispatch Animal Rescue and other resources and with Dennis Shirrel, K7DCG, Acting Northern District ARES Emergency Coordinator.

When the afternoon winds came up and the fire started to run, at 15:30 the call went out from the Fire Department to prepare for evacuations, RACES and Fallbrook Area ARES went into action. With Randy Jones-KD6UAK as net control using the Fallbrook Amateur Radio Club 146.175/445.600 repeaters on Red Mountain to keep in contact with Ham radio operators in De Luz and Fallbrook.

The Structure Protection Command Post was near the 5 1/2 mile marker of De Luz road. Ron Patten-KG6HSQ made contact with NCF Division Chief Milt Davies-KD6UBA and the Deputy Sheriff Sergeant in charge of setting up the evacuation.

When a Red Cross representative arrived, it was determined that there was no cell phone coverage or a direct radio

link to Al Rich, W6WYN, at San Diego Red Cross using the PARC repeaters. Therefore information had to be relayed by net control to her supervisor's cell phone number while he was in rout to the Evacuation Center.

Scott Chester, KF6JXT, aided in early communications with Fallbrook High School.

Sue Jones, KF6GOY, and Adrienne Durso, N6XCU, assisted in passing traffic to Shelter

Supervisor Richard Hinrichs, KG6FIW, when he arrived at Fallbrook High School Gym Evacuation Center.

The Red Cross Mobile Canteen at the Structure Protection Command Post provided food and beverages, to fire fighters and the Sheriff Deputes. Logistics traffic between the Mobile Canteen and the Evacuation Center at the Fallbrook High School Gym was passed till 23:20 when the Mobile Canteen secured. The Evacuation Center housed some of the fire fighters that night.

Fortunately night fall brought cooler temperatures and calming of the wind so the progress of the fire in the direction of structures was stopped.

We would like to thank the hams listed above, and on the fire line Daniel Spears, AJ7SK, Dan Spears, KF6UFZ. Also the following hams for providing information and standing by. Wayne Dewey, D6AHX, Don Bril, W1OJA, Bob Grimmick, N6OX, Bob Gonsett, W6VR, Arnie Peller, 6VXM, Richard Tilch, KE6FHR, Frank Larkin, KB6CPZ, Chris Durso, AA4CD, Troy Warshel, KG6MGE, Ken Dickson-W0PSM, John Buehman, KF6ZKD, Stephen Spencer, KC6MIE, Mat Olson, KD7ZGI.

Committee Chairmen

AREInfo.	-Dennis S	K7DCG@amsat.org
Attendance	-Al	W6GNI@amsat.org
ATV	-Art	KC6UQH@amsat.org
Auction	-Jim C.	NE6O@amsat.org
Badges new	-Al	W6GNI@amsat.org
Batteries	-David	KD6EBY DAT@Gerry.Palomar.caltech.edu
BBS Monitor	-Bill B	N6FMK@amsat.org
Billing:Ads/etc	-Lyell K	K6GVM@arrl.net
Contest Info	-Dennis V	N6KI@amsat.org
ControlOps.	-filled	W6NWG@amsat.org
D.Mar Fair-		
Emergency QTH's (Emergency Com. Centers)		
HarryH	-W6YOO	W6YOO@amsat.org
DennisV	-N6KI	N6KI@amsat.org
Field Day	-Charlie R	NN3V@ARRL.net
FDTech.	-John K	WB6IQS@Juno.com
Inventory	-Dennis B	KD6TUI@juno.com
New Members	-John E.	KG6EQU@amsat.org
Nets	-	
Newsletter	-Ron S	NA6RS@amsat.org
PALBBSpkt	-Bruno H	KF6QDP@amsat.org
Patch Info	-Stan R	W9FQN@amsat.org
PatchETronics	-Jerry H	WB6FMT@amsat.org
Picnic	-Paul D	NN6X@amsat.org
PowerAC/DC	-Mike P	KD6VHI@amsat.org
Programs	-Dennis B.	KD6TUI@amsat.org
Publicity	-	
QSL Cards	-Merle R	KR6BT@Juno.com
RACESinfo	-Jo A	KB6NMK@amsat.org
Red Flag	-	
Rptr Site	-Mike P	KD6VHI@amsat.org
Rptr Skeds	-	
SANDARC	-	
	-	
SellerTable	-John K	WB6IQS@Juno.com
AstSWDivDir	-	
TechSite	-Mike D	AB6QT@amsat.org
TestingVE	-Rusty M,	DuneDancer@cox.net
Training	-	W6NWG@amsat.org
TrusteeW6NWG-Mike D		AB6QT@amsat.org

(Net Managers) (see pg.12)

ARES Sun	-	
Staff Net	-David D	KC6YSO@amsat.org
ARES 6m	-David D	KC6YSO@amsat.org
Ham Help	-David D	KC6YSO@amsat.org
Hiking	-Ed	KF6DXX@Juno.com
	-Glenn P	KE6ZLY@Juno.com
MARA	-Cathy	KE6IQU W6NWG@amsat.org
Microwave	-Kerry B	
Off Road	-Jerry A	jwak6pfp@cts.com
	-Dick W	KA7AYT rwilimek@home.com
Sailors	-Paul/Rod	NN6X@amsat.org / AC6V@amsat.org
Traffic(SDCTN)-Charles		N6TEP cmiele@juno.com

Questions about club policy or for information can be addressed to **W6NWG@amsat.org** or P. O. Box 73, Vista, CA 92085-0073.

EMAIL address for Website is **webmaster@palomararc.org**

Other addresses of interest:

Scope@palomararc.org

Board@palomararc.org

Membership@palomararc.org

Contest Coral

Jun 4 Major Six Contest
 Jun 5 VK 80 Mtr CW Contest
 Jun 5 IARU Region I Field Day, CW
 Jun 5 RSGB National Field Day
 Jun 12 ANARTS WW RTTY Contest
 Jun 12 ARRL June VHF QSO Party
 Jun 12 Asia-Pacific Summer Sprint, SSB
 Jun 19 All Asian DX Contest, CW
 Jun 19 SMIRK Contest
 Jun 19 West Virginia QSO Party
 Jun 19 Quebec QSO Party
 Jun 19 Kid's Day Contest
 Jun 25 UK DX Contest, CW
 Jun 26 ARRL Field Day
 Jun 26 King of Spain Contest, SSB
 Jul 1 RAC Canada Day Contest
 Jul 3 Venezuelan Ind Day Contest
 Jul 3 Original QRP Contest

A pretty good assortment of contests this month. RTTY, SSB, and CW is spread around. The WV QSO Party gives WAS hunters a difficult one to catch. The ARRL Field Day gives clubs a chance to shine up their BBQs, get on the air, cook dogs and burgers and otherwise have a great time. The complete rules for these and other contests are published in QST, NCJ, CQ and Worldradio magazines. CU in the contest!

73, Harry/W6YOO

P.A.R.C. Inc (2004 Board)

Pres: Charlie Ristorcelli NN3V
858.676.3307 NN3V@amsat.org

VP: Dennis Baca KD6TUJ
760.722.0251 KD6TUJ@amsat.org

Sec: Dick Kalkofen K6KAL.
760.519.0670 K6KAL@amsat.org

Treas: Jo Ashley KB6NMK
760.741.2560 KB6NMK@amsat.org

Dir#1: Merle Risdon KR6BT
760.941.0213 KR6BT@amsat.org

Dir#2: Steve Early AD6VII
619.461.2818 AD6VII@amsat.org

Repeater Site:
Mike Pennington KD6VHI
760.749-8888 KD6VHI@amsat.org

Membership:
Al Donlevy W6GNI
760.630.3096 W6GNI@amsat.org

New Member:
John Earnest KG6EQU.
858.484.8579 KG6EQU@amsat.org

Repeater Technical:
Mike Doyle AB6QT
760.742.1573 AB6QT@amsat.org

Web Pages

PARC's Home Page -
<http://www.palomararc.org>

Rod's - AC6V
<http://www.ac6v.com>

ARES Alert Publication
<http://sanarrl.org/alert.htm>

Tom's Hiker's - KF6PAZ
<http://www.fanciful.org/san-diego-hiker>

Jeff N6FRW Grace N6WPA

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e-mail: nicdlady@nicdlady.com

Last Month's Goodie's

Preston W6ASP
Jerry KF6MYE
Joe W6OJ
Tom KG6RCW

May Goodies

Preston W6ASP
Rich KE6DUG
Jerry KF6MYE
Roger KG6RAS

Fold & Staple Crew

KR6BT Merle K6ML Jim
KB6NMK Jo & Toby & Matthew
KB6YHZ Art & KB6YHY Anita
W6GNI Al & Kathy
WA5ACE Sonny KG6AEW Bill
W6YOO Harry

Treasurer \$\$\$,\$\$\$

Jo Ashley KB6NMK@amsat.org
ASSETS April 30, 2004

Cash and Bank Accounts

CD	2,840.75
CD	2,694.97
CD	3,406.22
CD	2,845.15
Checking	4,057.96
Post Office	97.60

TOTAL ASSETS \$15,942.65

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(5.2) **Kenwood TS-450 HF xcvr**, very good condition \$385: **Kenwood TH-79A**, dual-band HT, good condition, \$85, Radio Shack **HTX-10** 10 meter xcvr, good condition, \$65, George, WA6GAH (619) 687-8149 or george.atkins@juno.com

(4.2) **ICOM IC-3AT** 220 MHZ, Very Clean w/Key Pad, PL, New Antenna, New Battery. Asking \$50.00 OBO. (1) Wilson Hand Held, Mark IV Receive 146.52 Simplex, 146.64, 147.150.I, \$25.00, Bayard K6GAO 858-755-5507.

(4.3) **Yaesu FT-230R** 2 Mtr FM Transceiver w/SS32 PL Board \$80.00, **Astron AS-7** Power Supply \$29.00, **Yaesu FT-227R** 2 Mtr FM Transceiver \$45.00, **Celestron C-8** Catadioptric Telescope with Heavy Duty Tripod, Planetary motor-drive, X2 Barlow Lense – Spotting Scope, w/manuals \$850.00, 2 – B&W 9” Security Monitors \$10.00 each, Galaxy Electronics PR550 Phone Patch w/manual \$25.00, 2 Larsen 6 Mtr 5/8 wave mobile antennas, fits NLA Mounts \$10.00 each, Swan MMBX mobile antenna matcher \$10.00. Cushcraft R-7000 Vertical \$150.00. Panasonic Stereo Earphones Model RP-HT12 (New) \$4.00 Each. Panasonic Super Compact Blank Video Tape ST-C30 (New) \$4.00 Each. New Panasonic Video Accessories, i.e., Tape Head Cleaners, Camera Power Supplies ETC., Too numerous to list. Contact Dennis K7DCG @ 858-748-9046 or email: K7DCG @ ARRL.NET

4.4) **ICOM IC-T81A, case**, HM-75A speaker microphone, BP-197 battery case, OPC-254/L DC power cable, CS-T81 cloning software, OPC-478 cloning cable, and MH-510 tri-band af-

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(2.5) **ICOM IC-T81A**, case, HM-75A speaker microphone, BP-197 battery case, OPC-254/L DC power cable, CS-T81 cloning software, OPC-478 cloning cable, and MH-510 tri-band after-market antenna. \$160. Bob KY6P. (619) 318-2217.

(2.1) **Kenwood TS-520S**, 10-160m, after mkt digital display, Sure 444 desk mic. Original manual, Very good cond. \$235 George kf6zca@juno.com 619-264-1415

(11.29) Tubes, chokes, transformers, capacitors, etc. for sale. I anticipate moving and all things must go! Please contact for a detailed inventory. Call: NI6N. Email: pat_osullivan_email@yahoo.com. Phone: (760) 940-8355."

(9.18) **29' Ericson Sailboat**, Auto-pilot, radio, depth sounder, TV, Microwave, Sleeps 6, Head, Galley, **Transformer**, (CV Solar, Input 115v 60cyc, Out, 120v, 25 amp.) **Transformer** (75KVA, 50% Duty Cycle, Primayr 440v, Sec. Parallel Low 5.37,5.88,6.2,6.57 — Hi 7.22,8.15,8.8,9.59 or Series Low 10.74,11.72,12.40,13.14 or Hi, 14.22,16.3,17.6,19.14v, Call Art Nye KB6YHZ, 760-758-0234

(2.22) **4 El 10 Meter Yagi Beam** All stainless hardware w/W2DU Beam 50 Ohm Balun. Only up for short time, Very clean, Works very well. \$75.00 OBO Bayard K6GAO 858-755-5507

(10.25) Radio Shack 300-Channel **Hand-held Trunk Tracker Scanner, Pro-90**, Like new in box 80.00. Louie KF6QBS.760-727-0846. kf6qbs@amsat.org.

(10.3) **Bencher Paddle Keyer and MFJ automatic keyer** (curtis chip). Like New! \$75 Bob AC6JG 760 207-9045.

Wanted

(4.5) Print or Manual for a SB 200 Heathkit Linier Amplifier W6ODU 760-749-8385

(3.9) Lafayette HA-600 or HA-600A, working or not. Contact Bill, KD6BFR, -kd6bfr@hotmail.com

760-480-6805

(2.3) Six, 12Volt UPS batteries (72 VDC total) 38 AHr gel cells. For the PALBBS computer. We could use a different AHr rating if necessary. Current backup batteries are getting weak.

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Sunday	2045	147.075	MARA Emergency Services
Monday	1915	146.730	RACES Sub-Net
Monday	2100	146.730	Microwave Net
Tuesday	2100	146.730	Off-Road Net
2nd Wed	2100	146.730	PARC Board Net
Thursday	1930	147.075	Young Hams Net
Thursday	2100	146.730	Ham Help Net
Friday	2100	146.730	Hiker's Net
Saturday	2000	52.680	6 Meter ARES Net
Tue/Thu/Sat	2000	146.730	NTS Traffic Net (SDCTN)

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Carlsbad - 2nd. Saturday at 9:30 am in the Carlsbad Safety center.

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760-743-4212 or W6YOO@amsat.org

Register 5-7 days in advance for tests.

Repeater Status

146.730-	:	Normal
147.075+	:	Normal
147.130+	:	Normal
447.000-	:	Normal
52.680-	:	Normal
146.700-	:	Packet Repeater Normal
145.050	:	Packet Digi Normal
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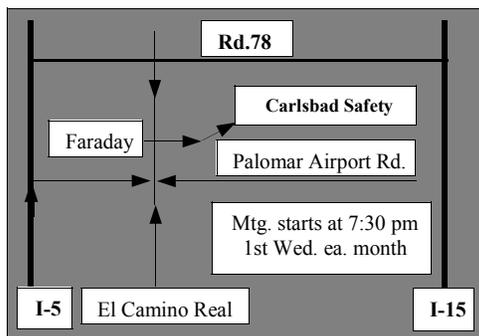
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146.73-, 147.13+, 147.075+, 447.000-, 52.68-; Pkt 146.7-, 145.05 & ATV, 4 Autopatches





Palomar Amateur Radio Club

July 2004

July Meeting

July 7, 2004
Carlsbad Safety Center

Part 2 of A Discussion / Presentation of Modern Radio Transceiver Design and Production by Achim, NC6X.

PARC Repeaters

Palomar Mt. Repeaters (W6NWX)

PARC Trustee: AB6QT

*52.680- W6NWX, -0.5 MHz.

Autopatches:

146.730-, *147.075+
* 147.130+, *447.000-

PKT:

145.050s (PALMAR/W6NWX-1)
146.700- (Duplex Pkt) PALBBS/
EMG use
145.070/146.7 - (W6NWX-3/PALBBS)

ATV "OUTPUT":

1241.25 MHz. am

ATV "IN":

915 wbfm, 919 am, 2441.25 wbfm

Intercom:

146.415 PL 79.7 nbfm

Affiliated:

*224.38- & *224.94 KK6KD (HARS)
*447.05- & *145.26 KK6KD (HARS)
*146.175+ N6FQ(FalbrkARC) linked to
*445.600 MHz (-)
*224.90- WD6HFR (Convair/220 ARC);
446.14- WB6FMT(123.0)Vista;

* = 107.2 Hz. PL Tone

President's Message:

Well, the difficulty with this time of the year is that there are so many good ham things to talk about that you simply can not get them all into a single package.

PARC just completed a GREAT FD event, and details will follow next month.

Meanwhile, for all you "real hams" out there, here is a record of another great Ham Event that took place recently.

Hamvention Travel Logue 2004

May 14th - 16th! Dayton 2004. Time to get back to the roots of the hobby! So, on Wednesday the 12th. I set off on the annual trek. First I attended the PARC Board meeting for a discussion about the things that keep PARC a fun club. 8:00PM and I operate as net control of the first 2004 FD Planning net. I operate mobile, as I am also off to the airport to catch the red-eye to Dayton. Double-check everything. Handy-talky, mag-mount for the rental car, list of the things to investigate at the Hamvention, Airline tickets, car rental papers, IOOK gathering schedule. Ready.....*oops*. *Forgot the checkbook*. When going to a hamfest, never leave without it! My... Lindberg Field is quiet tonight. Of course, why would anyone fly out of San Diego at 11:00 PM? Through security. Lots of strange looks because of the all the radio gear in the tote bag. The security people read my FCC license and are impressed about the ham radio concept (not). I think of the return trip and wonder how the Dayton airport security people will react on return? 11:30PM and the flight takes off on time. In spite of the anticipation, it is slumber time.

Thursday May 13th. 4:45 AM. Chicago O'Hare airport is a lonely place this time of the morning. Oh, there's a McDonald's open. Coffee and a burrito breakfast. Wonder who would have ever thought that one day there would be burrito breakfasts in Chicago Illinois? Three hours to kill for the ongoing flight. Time to enjoy the conven-

ience of the wireless world, and log on to the web to surf the ham sites and see who is doing what at Dayton this year. 8:30 AM and the flight is called. We're off to Dayton. 10:30 AM, land, get the rental car, call on the 442.850 MHz WA8ZWJ repeater (the IOOK headquarters machine) to announce the arrival and am immediately greeted by ZWJ himself. Quick trip to the motel for check-in, and a shower. Same room as past 10 years, and our pet fleas are still there! I notice the weather is overcast and humid, but the forecast is for partly sunny for the next three days. FANTASTIC! Lunch with ZWJ catching up on the happenings since last year. I spend the afternoon in the IOOK communications center, playing APRS, packet, and listening and talking on the repeaters. Lots of hams talking about driving in to Dayton. *The APRS map makes Dayton the world center of the APRS plots. Literally hundreds of stations tracking in to Mecca!*

5:30 PM. The gathering of the faithful begins at the Union Ohio Toll-house restaurant. 35 Hams and guest congregate. Salad, 1/2 roast chicken and 1/2 slab of beef ribs done in fantastic sauce. \$11.50 for dinner. Not bad. Also notice gasoline at \$1.89 a gallon. They've got the same problem here. 7:30 PM and it is off to Hara Arena for the annual ritual of setting up the IOOK flea-market tent. I notice the flea market is nowhere as crowded as in past years. 10:00 PM and we are back to the hotel for some sleep.

Friday May 14th. 4:30AM rise and shine. Time to start having fun. 5:45 AM and the California Garden Kitchen opens to host the IOOK breakfast crowd. The waitress remembers all of us from last year. 5 egg California omelet, grits, biscuit, fruit, and coffee, \$5.69. *I love the Dayton prices*. 7:00 AM and we are at the IOOK booth inside the Hara Arena flea market. Out come the sale tables, and the merchandise is on display. 8:00 AM and

Minutes

Palomar Amateur Radio Club Board of Directors

June 9, 2004

The meeting was called to order at 7:12 PM by NN3V at the home of NN3V. Present were:

President, Charles Ristorcelli, NN3V

Director Merle Risdon, KR6BT

Treasurer, Jo Ashley, KB6NMK

Membership Chairman, Al Donlevy, W6GNI

Repeater Technical, Mike Doyle, AB6QT

Director, Stephen Early, AD6VI

Secretary, Dick Kalkofen, K6KAL

Treasurer's Report of 05/31/2004

Jo, KB6NMK submitted the Treasurer's Report. She indicated that one of the clubs CD's was due to roll over soon, and would visit the bank to obtain the best rate possible. Al W6GNI moved the report as distributed be accepted, and was seconded by Merle, KR6BT. The motion was carried.

Secretaries Report

Al, W6GNI moved that the Secretaries report as distributed to the board and published in the scope be accepted, and was seconded by Merle, KR6BT. The motion was carried.

Discussion Items

There was a discussion of the software used by the scope editor. Charlie, NN3V will contact Ron, NA6RS to discuss a transition plan.

Mike, AB6QT reported that he had a meeting with Michelle, W5NYV a candidate for the site maintenance coordinator to review the site and discuss the duties involved. Mike also indicated that he will be replacing one wheel on the trailer we plan to dispose of. There was a suggestion that we contact Tow-Wizard to see what they would charge to move the trailer to a disposal site. Merle, KR6BT will contact Waste Management to confirm the disposal fees.

There was a question as to the condition of the camper shell, and Mike,

AB6QT indicated with the recent clean-up and paint job, it should be good for many years.

There was brief discussion relating to Traffic Net, and Charlie, NN3V indicated he would follow up.

Merl, KR6BT will be giving us an update on the arrangements for this year's picnic, and will publish it in the SCOPE.

Membership report

Al, W6GNI notes that the club now has 447 members down from 456 last month.

Repeater Technical

All repeaters are functioning within nominal parameters.

Repeater Site

The site status at this meeting focused on the plans for the removal of the trailer.

Next Board Meeting

The July board meeting will be held at the home of AL, W6GNI at 7:00 PM on July 14th.

Dick, K6KAL made the motion to adjourn the meeting, and was seconded by Al, W6GNI. The meeting was adjourned at 8:05 PM.

Respectfully submitted,
Dick Kalkofen, K6KAL, Secretary

July's meeting will feature: BPL by Mark, KF6WTN.

August's meeting will feature:

Part 2 of A Discussion / Presentation of Modern Radio Transceiver Design and Production by Achim, NC6X.

Club Membership

New Members Joining PARC:

W6ERC, KC6ESN, KG6TFL, W9BOI, and KG6MCX.

July is a big "renewal" month due to a long past system of all members renewing in July. Still, there are many "Old Timers" that have July renewals. A couple of years ago, many gave me help by renewing for more than one year at a time. That is still very much appreciated. Save data entry and a trip to the bank for me, a stamp or two for you, and no worry about getting your SCOPE on time for a couple of years.

Thanks!!

Al, W6GNI

the gates open for HAMVENTION 2004. The hordes arrive. People start walking by, the chatter and the fun begins. Our immediate neighbor has the Hamvention live on the web. His mobile set-up running with a laptop as a server starts taking hits from all over the world as hams everywhere log on to see what is happening in Dayton. 9:00 AM and K8EI and I enter the arena itself to see what the commercial vendors have on display. Needless to say it is *a treasure trove of all the things a ham would ever want*. We go over to the Kenwood booth. Not much going on here. Kenwood has nothing brand new to show off. Over to Icom and there is the now famous ICOM 7800 with a crowd vying for an opportunity to play with the controls. All the displays are also projected on large plasma displays. The crowd is transfixed by the gear, and by the \$8500+ price! Off we go to the Yaesu booth. *We get our ritual Yaesu ball-cap*. And as we turn from the table with the ball caps we stumble into the Yaesu FT-9000 radio display. GOOD HEAVENS! What a rig. I am spellbound. There are bells and whistles never imagined. The large color display is amazing! The DSP is incredible. I talk with the Yaesu team, learn some of the features, and figuring it will take a few iterations to make sure the radio is feature free, I ask them to alert me when the 100th radio is manufactured so I can plan on ordering one. *At \$12,000 each*, I figure I have several years to save money before they have 100 sold! Back to the sale tent.

11:00 AM and it is very overcast and threatening. Not a problem, the forecast is good, and Friday's are always slow. I sell my FT-470 for the price I asked, as well as the on-glass mobile antenna, the two old cellular phones, and the digital multimeter. The IOOK tent is doing well. 12:00 PM and as the designated Hamvention chef, I prepare the lunch (Italian torpedo sandwiches) for some 20 IOOK members. 1:30 PM and it is back into the arena to visit the tower and antenna vendors. I get all the answers I needed on the tower and the step-ir antennas. We cruise the many booths (Ameritron, Ten-Tec, Daiwa, Collins collectors, ARRL, RSGB, World Radio, DX4WIN, Write log (they are not there), MFJ, INRAD, Heil, Alpha Power, Diamond, Alinco, Heath collectors, Drake society, etc). 4:30 PM I return to the flea market, tired but excited because of all the fun inside the arena. I notice the tailgate area is not very crowded,

and the weather is overcast and drizzly. Fortunately Saturday is forecast as clear, and that is usually the day when the large crowd shows up at Dayton. 6:30 PM and is time to head to the IOOK "gathering of the faithful" at ZWJ's house. Fantastic potluck dinner, lots of reminiscing and joke telling, and around 10:30 PM we head back to the hotel. 11:30 PM and to bed, worn out but with lots more to see tomorrow.

Saturday May 15th. *4:30 AM rise and shine!* Not so shiny today. Feet and back hurt from all the walking and standing yesterday. No problem! A great breakfast at the California Garden Kitchen, some strong coffee and we will be ready for another day of fun. Check the weather, go outside, and find it chilly and overcast. Better wear a jacket and take an umbrella. But it is forecast to be a nice day. 5:45 AM and the breakfast is served, and as we drive off to Hara Arena, it starts to drizzle. We park, walk the ½ mile to the arena, and the drizzle turns to cold, chilly rain. The wind starts, and we run to the tailgate area tent. No point in dragging the merchandise out of the container. Let's wait a little while. *The parking lot starts to fill with water*. From lessons learned many years ago, we are on a platform so we are some 5 inches above the lot surface. The rain continues. Several of us get the umbrellas out and head in to the indoor exhibits. We spend some 2 hours carousing the commercial vendors, and learn all sorts of neat things about new products. 11:30 AM and I must go back to prepare lunch. The rain is now intense, and yes, *it is another rain drenched and ruined Hamvention Saturday*. Lunch is outstanding because of the fun at the tent as we watch the rain fall, and joke with the hard core hams who are walking through the tailgate area in spite of the rain. We sell a bunch of stuff, and around 3:00 PM the rain lets up.

4:30 PM. W3TOM (Tom Abernathy), an IOOK VP (and ARRL Section Manager) for Maryland, comes back to the tent with a guest for the evening. *With us at the IOOK tent is Riley Hollingsworth (ARRL amateur enforcement director)*! We spend an hour chatting with Riley, with W8KUB (who has the Hamvention handy cam covering the discussions). The word goes out on 20M that Riley is at the booth, and the handycam webpage starts taking hits of increasing numbers. We spend time talking about BPL, licensing, and various

other matters. Lots of pictures are taken. And at 5:30 PM we head for the IOOK banquet at Rob's Restaurant. We gather with some 60 IOOK members, and have the immense pleasure of hosting Riley Hollingsworth throughout the evening. *Riley is inducted into the IOOK, and receives his Vice Presidential appointment, with his IOOK shirt*. What a pleasant ham operator he is. Knowledgeable, concerned, and unassuming. It is clear why he is so well respected. He departs with one humorous comment: "I doubt I'll remember any of your calls, but then maybe that is a good thing". We all get a great laugh, and he promises to check in to the IOOK nets.

10:30 PM. Back at the hotel, *we make reservations for next year, pay the bill, pack the goodies and things, and prepare for the 5:00 AM wake-up call to head to the airport and return to San Diego. 365 days to Hamvention 2005, and I am ready to get back there for more fun*.

73 de NN3V

PARC Hiker's
— Net News

Hiking Net hams get together every Friday evening at pm on our 147.630 machine. The net offers a convenient forum for trip ideas, reports on recent trips, as well as for many other topics.

The term "Hiking Net" is used very loosely. In actual practice, in addition to local day hikes and multi-day backpacking, the group involves itself with canoeing, kayaking, snow shoeing, cross-country skiing, camping, fly-fishing, astronomy, ham radio, GPS and anything else that seems interesting -- a real formal group!

A number of trips have already taken place this year. In January Bill-AA6J, Bernie-N6FN, Stan-W9FQN, Jeff-KG6AXR and his wife Julie-KG6BPP did an overnight desert backpack into Rock House Canyon, located just outside of Anza Borrego State Park, north of Clark Lake. A very interesting trip where we visited the ruins of three different Indian villages.

In April Al-W6GNI, John-KT6E, Glen-KE6ZLY, Stan-W9FQN, Bernie-N6FN

and Colleen-(non ham) participated in a three day trip to the Colorado River. After hiring an outfitter to take us and our equipment up-river on a jet boat, using our kayaks and canoes we spent two days paddling back to the starting point – Fisher’s Landing north of Yuma. On this trip we visited several old mines, pioneer ranches and located Indian petroglyphs.

Over the July 4th weekend we will be backpacking in the Little Lakes Valley area on the eastern side of the Sierra Nevada, north of Bishop. Trip report next month!

The hiking net group makes extensive use of an email reflector hosted by Tom Chester. Trip plans are posted and participants use the reflector to "sign up" for pending trips.

Two web pages host trip reports and photos of recent trips: <http://members.cox.net/bernie-n6fn/> and <http://www.fanciful.org/san-diego-hiker/>.

Join us Friday evenings if you are interested in any of these activities.

Happy Trails & 73 de Bernie-N6FN

Going to MARS

By Tony May - KG6SXY - NN0AFET

First of all, I would like to take this opportunity to thank each and every one of you that have made my introduction to MARS a pleasurable and exciting experience. I'm a newcomer to amateur radio as well as Navy MARS and wanted to share my experiences with others who may be considering whether or not to get involved and what to expect when you take the plunge.

When I originally heard about MARS, I think I came to the same initial assumption that a lot of newcomers do, "They'll never want me, I'm not in the military and I'm not in a position to join the military.", but sometimes it just takes meeting the right people to catch you before you completely write off the opportunity to get involved. Before I

get into my experiences specifically with MARS, I think it will help to give you a little background on how I got introduced to and involved with amateur radio in August of 2003.

I had never really known much about amateur radio but I was aware of its existence from time to time over the years, I just never took the time to take a really good look. A friend of mine whose father has been a ham for over a decade started prodding me about this great activity early in 2003. By August, I finally gave in and decided to see what this was all about, if for no other reason than to get him to stop hounding me so I could come back with a thumbs up or thumbs down based on my own research. He pointed me to www.arrl.net and I figured the best way to learn the fastest was to find a local club and meet a few people so I could get my questions answered face to face. It was a Friday that started my search and I emailed two clubs in my area that appeared to be a reasonable existence from where I lived. The first person to write back to me in under half an hour was a very friendly gentleman, Harry Hodges / W6YOO / AAR9LX, who immediately invited me to attend their annual picnic the next morning. Harry was also very quick to encourage my involvement with Navy MARS when he heard I was considering sending in an application a few months ago. The more people I spoke to and the more I heard, the more I wanted to get involved for the emergency services aspect. I joined a Technician class so that I would have a solid exam date that I couldn't talk myself out of for not being ready.

In the Technician class, I met a few people that were already involved in RACES and it wasn't difficult to talk me into attending their general meeting two days after we wrote our exam on Saturday, November 1, 2003. On Monday, November 3, 2003, I had been assigned my amateur call sign, KG6SXY, and headed to my first RACES meeting in the evening. My first night at RACES was a whirlwind affair and I was swimming in too much information but the most memorable event of the evening was meeting Jean Luthi / KB2T / NNN0BST who immediately started fanning the embers of excitement about

upgrading and getting HF privileges so I could help out at the EOC, operate on HF and potentially get involved with Navy MARS, all in a non-pressured way of course. I was treated to a tour of most of the facility and a very detailed walk through of the radio room by NNN0BST. From that one meeting at the EOC, I knew I wanted to get on HF and have a chance to learn as much as I could from NNN0BST. I still remember that my main concern at that time about upgrading was learning CW and I didn't realize at the time how much difference it can make to have someone lay out a study plan for learning CW in a particular sequence as opposed to just relying on tapes or CDs. CW has become one of my favorite modes but I also realize the importance of having good, solid verbal skills in an emergency and plan to work on that as much as possible over the coming months.

I know I have been very lucky to meet the right people from the beginning now that I've been involved in various activities over the past half year. It didn't take much to steer me towards operating on HF but as we all know, it's sometimes a balancing act to manage day to day living and expanding your skills at the same time. I had originally planned to upgrade to general around Christmas but I didn't manage to until Saturday, March 27, 2004. I took the same approach I took the first time around, I committed to an upgrade class and even though there was no scheduled test at the end, I made sure I booked my exam before I could talk myself out of not being ready enough to pass without making mistakes. I had no real idea how much different it is to be on HF versus the experience you get when jumping on local repeaters but since my upgrade I've been on HF practically every day.

My first big event with Navy MARS was the Rolling Thunder exercise. I was invited down to the EOC in San Diego to spend the day with NNN0BST and see what traffic handling is all about. I sat next to the radio and aside from actually handling the microphone, I copied every message I possibly could and filled in pieces I had missed when other stations asked for fills. I had the opportunity to see how a message is composed and sent by following a set of instructions and examples in the manuals on hand at the EOC. I didn't realize, then, how much detail is laid out in the training materials we receive when we

start out as a tango operator nor did I realize that there are so many opportunities throughout the week to get on the various nets and get real experience. Being that I hadn't spent practically any time on HF up to that point, I remember going home with the biggest headache from all the static and wondering how on earth anyone could get used to that and be able to operate for any length of time, much less be able to pick out every word of a message being sent. It was a mystical but very rewarding experience.

It was also informative to see how digital and voice traffic is assigned and handled in the same manner. Traffic assignments are still a big mystery to me but considering this is only my third day being actively involved with MARS, I know I have a lot more to learn and will likely continue to learn new things throughout my life with Navy MARS.

I didn't have much exposure to MARS after that, aside from the odd Monday night net at 1700h local time I managed to listen in on when I got to the EOC early enough. Being a person who loves to get involved, it's not hard to find yourself very busy, very fast. I had forgotten about filling out my application for Navy MARS until NNN0BST reminded me. After filling out all of the appropriate boxes and providing the required supporting documentation, I wasn't sure I would hear anything back for quite some time.

I was very surprised when I received a welcome letter in the mail the first week in June along with a training CD. Just a few days later, I received an invitation from Lyell / K6GVM / NNN0AGN to listen in on the Sunday evening training net and to check in, if it was possible to wideband my radio in time. I was surprised again by the friendly manner in which I was treated and invited to ask as many questions as I needed in order to get my training off to a good start. I kept NNN0AGN on the phone for a few hours getting a lot of background information on MARS, what my training will consist of, and what to expect at each step along the way. Luckily for me, my Yaesu FT-897 can be modified programmatically to transmit on MARS frequencies so it

took very little time once I managed to find the right information and the right software package for my particular radio.

I spent quite a few hours pouring over the training guide before the net started on Sunday, June 6, 2004 so I would know exactly what to expect in the exchange between NECOS and the other stations trying to check into the net. My first Navy MARS check in was exhilarating and probably the most nerve wrecking experience of my radio operator life to date. The conditions were fairly bad and I was trying to time my check in between 9 seconds of S9++ noise that repeated every 20 seconds or so. My hand was shaking and I'm almost positive my voice was less than stable but I had taken the time to write out each and every word I needed to say in order to check in and all I needed to hear was the call sign of the NECOS or the last person to make a net call so I could make my very first check in. While NNN0LFD did not manage to copy my transmission the second time I attempted to check in, I was unaware that the NECOS / NNN0GAF FOUR had heard me the first time and had already checked me in. My second check-in was a lot rockier for me than the first but that was my first fly-by-the-seat-of-your-pants check in where I was mobile with NNN0AGN and didn't have a pre-written script to read. I stumbled with the NECOS call sign the first time around and know I didn't get NNN0EVM right but the second round went much smoother. I can not even begin to describe the adrenaline rush you feel the first time you hear your call sign being acknowledged as checked in. Everyone always says it gets easier as time goes on but as a newcomer, it's easy to forget that you're not the first and you won't be the last to face your fears, learn to relax, and do the best job you can. Everyone I've met so far has been very supportive and very helpful in getting me up on the air and get the initial stage fright behind me.

I've heard that a lot of people in the past have gone through this training on their own or attended classes with a group of other people. While both approaches work, I appreciate having having people I can call upon to clarify things before I end up making mistakes on the air. It

helps to take a bit of that nervous tension away and encourage you to get on the air more often because you have alternatives to a trial and error approach.

It can only get better from here. I'm just getting started and I'm looking forward to all the new experiences the future holds for me.

Lets Have a Picnic

We plan to have the annual Club picnic at Dixon Lake in Escondido again this September. Those who came last year enjoyed the lake view and a comfortable afternoon on the wooded grass covered hillside. All are invited to take a day off and enjoy the outdoors. Merle, KR6BT

Volunteers Needed

Emergency Response Team training coming up the last four Saturdays of July in Valley Center? This training covers Valley Center, Pauma Valley and Palomar Mountain as well as the tribal nations in the area. While I have grant monies available residents of these communities who complete the July classes will be given a \$75 responder backpack!

The one piece of the puzzle our emergency plan lacks is emergency communications. While I would like to get my ham license, I think it would be far more beneficial if I could have experienced operators available for CERT operations. The premise is that CERT members stay in their neighborhoods to help out in the middle of local disasters. In Valley Center during the fires many locations didn't have electric or phones for 3 weeks. I have a grant that I am willing to allocate some monies to communication but it would be better if I could get some helpers with their own equipment where I can supplement as needed.

Please visit our website for more information on CERT: <http://www.vccert.org> or to register: <http://www.vccert.org/register.htm> County wide CERT programs: <http://www.sdcertcouncil.org>

Mary Meade, Volunteer Program Manager
760.751.8545-home
760.703.7844-cell

Committee Chairmen

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ATV	-Art	KC6UQH@amsat.org
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Billing:Ads/etc	-Lyell K	K6GVM@arrl.net
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TrusteeW6NWG-Mike D		AB6QT@amsat.org

(Net Managers) (see pg.12)

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ARES 6m	-David D	KC6YSO@amsat.org
Ham Help	-David D	KC6YSO@amsat.org
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Traffic(SDCTN)-Charles		N6TEP cmiele@juno.com

Questions about club policy or for information can be addressed to **W6NWG@amsat.org** or P. O. Box 73, Vista, CA 92085-0073.

EMAIL address for Website is **webmaster@palomarc.org**

Other addresses of interest:

Scope@palomarc.org

Board@palomarc.org

Membership@palomarc.org

Contest Coral

Jul 1 RAC Canada Day Contest
 Jul 3 YV Independence Day Contest
 Jul 3 German RTTY DX Contest
 Jul 3 Original QRP Contest
 Jul 4 MI QRP Sprint
 Jul 6 Spartan Sprint
 Jul 10 IARU HF World Championship
 Jul 10 UK RTTY DX Contest
 Jul 10 FISTS Summer Sprint
 Jul 16 Mid-Summer Six Meter Contest
 Jul 17 NA QSO Party, RTTY Contest
 Jul 17 CQ WW VHF Contest
 Jul 24 Russian RTTY WW Contest
 Jul 24 RSGB IOTA Contest
 Aug 1 SARL HF Phone Contest
 Aug 7 10-10 Int'l Summer Contest, SSB

OK Guys, don't let the summer dol-drums get you down. Plenty of contest meat out there, tune up your keyboards and try some RTTY and if that doesn't do it for you, there's CW and SSB. Two real biggies: IARU World Championship and my favorite, the RSGB IOTA (Islands On The Air) contest. And....we haven't forgot about QRPers either, So, CU in the contest.

73, Harry, W6YOO

P.A.R.C. Inc (2004 Board)

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Rod's - AC6V
<http://www.ac6v.com>

ARES Alert Publication
<http://sanarrl.org/alert.htm>

Tom's Hiker's - KF6PAZ
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KG6AEW Bill	W6YOO Harry
N6UZH	& Matthew
K6ML Jim	

Treasurer \$\$\$,\$\$\$

Jo Ashley KB6NMK@amsat.org
ASSETS May 30, 2004

Cash and Bank Accounts	
CD	2,843.04
CD	2,697.58
CD	3,409.66
CD	2,847.45
Checking	4,027.21
Post Office	97.74

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(11.29) Tubes, chokes, transformers, capacitors, etc. for sale. I anticipate

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(4.5) Print or Manual for a SB 200 Heathkit Linier Amplifier W6ODU 760-749-8385

(3.9) Lafayette HA-600 or HA-600A, working or not. Contact Bill, KD6BFR, -kd6bfr@hotmail.com 760-480-6805

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Monday	2100	146.730	Microwave Net
Tuesday	2100	146.730	Off-Road Net
2nd Wed	2100	146.730	PARC Board Net
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Repeater Status

146.730-	:	Normal
147.075+	:	Normal
147.130+	:	Normal
447.000-	:	Normal
52.680-	:	Normal
146.700-	:	Packet Repeater Normal
145.050	:	Packet Digi Normal
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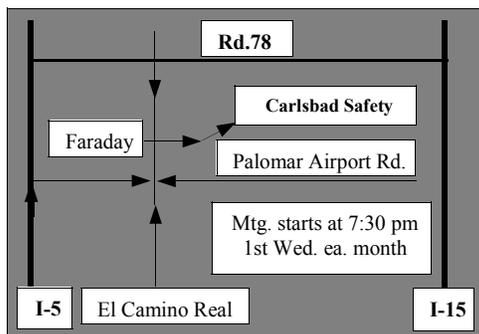
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146.73-, 147.13+, 147.075+, 447.000-, 52.68-; Pkt 146.7-, 145.05 & ATV, 4 Autopatches





Palomar Amateur Radio Club

August 2004

August Meeting

August 4, 2004
Carlsbad Safety Center

Part 2 of A Discussion /
Presentation of Modern
Radio Transceiver Design
and Production by Achim,
NC6X.

PARC Repeaters

Palomar Mt. Repeaters (W6NWX)

PARC Trustee: AB6QT

*52.680- W6NWX, -0.5 MHz.

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146.730-, *147.075+
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146.700- (Duplex Pkt) PALBBS/
EMG use
145.070/146.7 - (W6NWX-3/PALBBS)

ATV "OUTPUT":

1241.25 MHz. am

ATV "IN":

915 wbfm, 919 am, 2441.25 wbfm

Intercom:

146.415 PL 79.7 nbfm

Affiliated:

*224.38- & *224.94 KK6KD (HARS)
*447.05- & *145.26 KK6KD (HARS)
*146.175+ N6FQ(FalbrkARC) linked to
*445.600 MHz (-)
*224.90- WD6HFR (Convair/220 ARC);
446.14- WB6FMT(123.0)Vista;

* = 107.2 Hz. PL Tone

President's Message:

It is a pleasure to write this column after the happenings for PARC that took place over the past couple of months. I'd be remiss if I did not spend a few lines reminiscing on FD 2004.

I hope you are sitting on the edge of your seats wondering how we did in Field Day. You'll have to wait for a few more lines as I comment on the happenings at FD.

Those of you who visited the site were impressed by the sheer energy present! We are fortunate to have such a tremendous location for FD. I keep reading those signs that say the City of Carlsbad plans to convert that wonderful site into a parking lot. What a waste!!!!!!!

Meanwhile, we enjoyed (for the second year) a great location. There are many places featuring photographic evidence of the fun we had. Naturally, those of you with Internet access know to go to <http://ac6v.com> to see the photos.

As your FD "organizer" I was concerned that my travel schedule would impede our preparation for this year's FD. I shouldn't have worried! I am compelled to give credit to those who made this a wonderful FD for all of us.

AC6V organized what has to be one of the finest opportunities for anyone who wants to operate all modes in his GOTA station. KD6TUI's effort at organizing the Club's container so we have little effort to get all our gear in place paid immense dividends. AD6VI and KG6RCH worked wonders to make sure our "water counterbalances" were in place when we needed them.

KF6WTN made sure the famous Road Kill Café was in place and served the best FD food west of the Mississippi for all who participated. K3PXX worked to make sure the PARC trailer was at the site (renovated inside and out courtesy of KG6RCW and K3PXX) and was online when needed. W6ASP made sure all who arrived at the site paid attention to the rules we set up to make sure we are invited to use the site again next year. N5AAA ensured we also had the "Ritz Carlton" operating site worthy of IOOK Vice Presidents. NE6O proved pedal power can make contacts.

I know I left some of the key participants off the reminiscence above. My apology for my forgetfulness.

I think we were all surprised by the amazing propagation conditions that were experienced at FD. To have 15 meters wide-open most of the time was really amazing! Likewise the enjoyment of the 40-meter band almost all day was rewarding. So all in all the propagation gods helped us have a great FD!

The bottom line is that we had a grand time at FD.

And as of the writing of this message, it seems we can claim a score of 10,574 points!

See you next year at FD! And do not miss the most fun you can have with your radio on!

73 de NN3V

Minutes

Palomar Amateur Radio Club Board of Directors

July 14, 2004

The meeting was called to order at 7:08 PM by K6KAL at the home of W6GNI. Present were:

Director Merle Risdon, KR6BT

Treasurer, Jo Ashley, KB6NMK

Membership Chairman, Al Donlevy, W6GNI

Director, Stephen Early, AD6VI

Secretary, Dick Kalkofen, K6KAL

Treasurer's Report of 06/30/2004

Jo, KB6NMK submitted the Treasurer's Report which was reviewed by the board. The slight drop in balance was due in part to the purchase of a club projector, and other expenses relating to field day. Merle, KR6BT moved the report as distributed be accepted, and was seconded by Steve, AD6VI. The motion was carried.

Secretaries Report

Dick, K6KAL submitted the minutes, and Al, W6GNI moved that the Secretaries report as distributed to the board and published in the scope be accepted, and was seconded by Jo, KB6NMK. The motion was carried.

Old Business

Merle, KR6BT and company are close to concluding the arrangements to dispose of the old club trailer now stored at the repeater site.

New Business

As is customary at this time of the year, there was a discussion of the additional discretionary points to be awarded by the board to club members, which would translate to drawing tickets at the Annual picnic.

Steve, AD6VI Submitted a request on behalf of MARA of a proposed preamble update to their weekly 'MARA Emergencies Net'. After review of the proposed changes, the PARC Board saw no need for correction and ap-

proved the change as submitted. Jo KB6NMK moved that the changes as proposed be accepted. The motion was seconded by Al, W6GNI. The motion to approve was carried.

Discussion Items

Dick K6KAL submitted changes to the Club data as recorded on the ARRL site for review and discussion. There is a need for AL, W6GNI as the club Membership Chairperson to have access to the new Hams list kept by the ARRL.

As stated in their policy (ARRL email), this data is only available to those individuals listed as officers in the club data. Dick, K6KAL will look into a way in which this data can be accessed easily by AL.

Merl, KR6BT will be placing a deposit on the picnic site, the same lake Dixon site as we had last year, being careful to avoid the 10 gig contest weekend.

Steve, AD6VI submitted a question as to the availability of a 'Written' agreement that can be used drafted to outline the clubs position on repeater usage by organizations such as the Red Cross during emergencies.

The club currently has a verbal agreement with the ARES organization. Dick, K6KAL will review the available documents in the secretaries' possession for an agreement that may have been used in the past. In addition, he will contact ARRL to see what they may have or any suggestions as to how to draft such a document.

Membership Report

Al, W6GNI notes that the club now has 446 members.

Repeater Technical

All repeaters are functioning within nominal parameters.

Repeater Site

There was no formal site status submitted at this meeting.

Next Board Meeting

The August board meeting will be held at the home of AL, W6GNI at 7:00 PM on July 11th.

Al, W6GNI made the motion to adjourn the meeting, and was seconded by Steve, AD6VI. The meeting was adjourned at 8:14 PM.

**Respectfully submitted,
Dick Kalkofen, K6KAL, Secretary**

August's meeting will feature: Part 2 of A Discussion / Presentation of Modern Radio Transceiver Design and Production by Achim, NC6X.

Club Membership

New Members Joining PARC:

KG6VMF, N5AAA, and David Gibbs (no call yet, joined at field day).

Several reinstatements!

Our membership is dropping. Bring a friend, and let's sign them up. Maybe too much internet/cell phone competition. But there are many aspects to ham radio, new ones every year. The digital modes are really neat! How many other hobbies can brag about having their own satellites up?

Did you check your label for participation points last month? Check again this month for points. If you feel that there have been points overlooked, send me e-mail for corrections. As a reminder, in accordance with the by-laws, the year for points is August 1 through July 31. So, the points for attending the August 4th, 2004 club meeting will be starting points for year 2005. The fold and staple crew will get their points added in 2004, since this newsletter was prepared and mailed July 28th.

Al, W6GNI

PARC Hiker's Net News

By Bernie – N6FN

July Sierra Backpack

The first week in July five Hiker Net hams enjoyed a High Sierra backpack trip to Little Lakes Valley. Starting at 10,250 feet, we hiked several miles through a valley dotted with crystal clear lakes and is ringed by majestic snow covered peaks.

Leaving Escondido we drove to Bishop where we made contact with several local hams on the BARC (Bishop Amateur Radio Club) Silver Peak Repeater 146.940- /103.5. BARC hams are always happy to

meet visitors and are a terrific source of local information. Everyone is welcome to join their nightly 9pm net to discuss the day's events and other issues.

Don-N6RU, who lives in San Diego during the winter and has a cozy cabin near Tom's Place, just north of Bishop, is BARC's net control op during the summer months. On the way to our campsite for the evening we stopped by to visit with Don, who started his backpacking career at 57 years of age. Now 84, he doesn't do much backpacking anymore but is extremely knowledgeable about climbing and hiking in the area. During our visit he gave us pointers on where we were going, sharing interesting stories and pictures of the High Sierras.

The following morning, Cheryl-KF6ZXC, Stan-W9FQN, En Lafreniere and myself packed up our gear and drove the last few miles to start our hike at the Little Lakes Valley, Mosquito Flats trailhead. Jeff-KG6AXR, who couldn't leave San Diego the day before, arrived later and hiked to our campsite at Chickenfoot Lake by himself. We used 147.555 simplex to guide him to our exact location.

For three days we had a wonderful time exploring the area's many lakes and hiking over Morgan Pass. For the most part the weather was great, even though we did get some rain each evening and in the mornings the tents were covered by a thin layer of ice.

A complete report and pictures from our trip are available on the web at <http://members.cox.net/bernie-n6fn/>

Hiker Net hams get together every Friday evening at 9pm on our 147.630 machine to discuss trip ideas, reports of recent trips and other outdoor related topics. The net is open to everyone and new participants are always welcome.

For coordinating trips and making other announcements the hiking net group also makes use of an email reflector hosted by Tom Lebens - KF6PAZ, who also hosts the Hikers' Net home page at <http://www.fanciful.org/san-diego-hiker/>

Lets Have a Picnic

Reservation has been made at Dixon Lake, Lake Shore Picnic area. (Next to the Ranger station) for, Saturday September 25. Despite the 85 degree temperature in Escondido, the air was cool at the lake and picnickers were enjoying the afternoon. Think about ending the season with lunch under the shade trees over looking the blue Lake Dixon. Put this event on your calender.

Merle, KR6BT

Amateur Radio Class

**Dates Sept 18, 25,
Oct. 2 and 9**

Registration September 18,2004, at Scripps Memorial Hospital, time **1:00 pm** in the Noble Room.

Question and answer at this time. **This registration is a must attend meeting will last approximately 2 hours.** Schedules will be given out, with times.

Technician book purchase at registration? We will be using "Now You're Talking 5th edition". Read Chapters 1-4

Things to bring pen and pencil, high-

lighters

Meeting days Sept 25, Oct. 2 and 9

Class hour's 8 am- 4 pm, lunch 1 hour

Will take FCC test, on site

Cost of class \$13.00 (cash) covers book, and six (6)-practice test, and taken the FCC test thru the Volunteer Examiner

Directions to Scripps Memorial Hospital campus are:

(Thomas Guide, 2002, page 1228, B-1) Address: 9888 Genesee Avenue, La Jolla, CA 92037

1. I-5
2. Genesee Avenue exit
3. Proceed east, on Genesee Avenue, one block to signal.
- 4 Turn right at signal, which is Scripps

Parking will be validated

- 1) Straight ahead, take a parking ticket, and proceed through the parking gate. **Bring ticket with you it will be validated.** Once through the parking gate, first right turn to the underground parking entrance. **Be very careful for all antennas.**

We will be in the Noble Room in the Schaezel Center.

E-Mail with Name, Day phone + Night phone, and which is best to call

Class contact:

Skip Cline

760-757-5424

kd6rfq@ixpres.com

E-Mail is best

Going to MARS - The Long and Winding Road

By Tony May - NNN0AFE - KG6SXY/AE

It's hard to believe it's only been a month since I got involved with Navy-Marine Corps Mars; it definitely feels a lot longer than that but in a good way. I feel I've learned so much in a short amount of time. I know that the level of commitment involved may scare some people away but for me it's an exciting challenge to see if I have what it takes to rise to every occasion.

Now that I've completed my training and been given the honor of dropping the T from the end of my call sign (the trailing T identifies new operators as Trial Members or Trainees), the training does not seem as daunting as it did in the beginning. There is a lot of material to read and absorb but there are a lot of people you can call upon to ask questions about things that you don't understand. The requirement to generate six different types of messages and deliver them on one of the traffic nets is a great learning experience. It can be difficult to make something up to send to someone that doesn't exist in real life but the process of coming to a traffic net with a piece of traffic to be forwarded gives you a great opportunity to practice everything you've read about since you started your training. Sure, there are training nets where you can deliver your messages but depending on the individual, a training net can be too much of a safety net. When you come to a live traffic net to deliver your messages, you know you have to invest time and energy to format the message and list it on the net correctly. It's not the end of the world if you make mistakes, these

are just drill messages that are designed to give you experience and get the feedback and corrections you need so you can learn from your mistakes. There really isn't anything to be afraid of because I'm sure everyone remembers what it is like to struggle with so much new information in the beginning. From my experiences so far, there are lots of people on the traffic nets that just want to point you in the right direction so you can improve on your next drill message. If you spend a lot of time listening to traffic nets, you'll hear a lot of digital traffic but when conditions are bad, you still hear some messages being delivered by voice. While digital traffic can be quicker and easier to deliver, there is no substitute for delivering messages by voice when the other station is just barely readable. I find it interesting to hear how much energy is poured into getting a message from one place to the next in an accurate and timely fashion. I once read a passage that said, "We train like we fight", and I really didn't fully understand what that meant until I started spending time on the traffic nets and listening to how traffic is being handled regardless of whether it's a live message or a drill message prepared by a new trainee. Everybody takes every piece of traffic seriously.

One of the last steps in training is to assume net control for one traffic net which I did on Friday, June 18. I was a little nervous about how to deal with digital traffic since I don't have that capability at my station yet but I knew there was always an alternate net control that I could call upon to handle any traffic that I couldn't handle myself. I did have to handle traffic that night and it was interesting to hear a message that was addressed to myself and others to inform the appropriate people of the completion of my training and permission for me to drop the T from the end of my call sign. In the heat of the moment, I had the message passed to one of the addressees on the list but neglected to accept the message for myself. A small mistake but the experience was worth every minute. When I

was asked to take over as net control for a regular traffic net on the day I finished my training, I admit I was a little nervous about taking so much responsibility so soon but I also knew that there's no better way to improve than by jumping in with both feet and giving it everything you've got. The worst that can happen is you end up having to ask a more experienced operator on the net for assistance and there's nothing wrong with that.

The next great experience I had was a field exercise that arrived at 6:15 AM the morning after I finished my training. There's just no comparison between reading about everything you need to set up in the middle of nowhere and actually getting out there and doing it. Even though I knew ahead of time that the exercise was coming up, hearing "There's a 7,000 acre fire..." at 6:15 AM before you're fully awake really gets your attention and works much better than a pot of coffee and a pound of chocolate to get you moving. My heart was racing but I was on autopilot from the moment I hung up the phone. I really didn't know what to expect but I started packing the car with everything I had at the time that I thought I would need including a generator, deep cycle battery, cables, connectors, soldering iron, spools of wire, first aid kit, a collapsible chair, a change of clothing, flashlights, spare batteries, my Kenwood TH-F6A HT, a copy of all the training material, some food, palm pilot, Bluetooth GPS, a load of digital maps, a web generated map of instructions to get to the scene, a cell phone (I forgot the charger though), paper, pens, pencils, paperclips, candles, matches, scissors, string, a rubber mallet, a case of water, a digital camera, and a gallon of sun block. I was a lot better prepared than I was for my night in the desert during the Baker to Vegas run where my cot collapsed and tried to devour me and I ended up

chasing a black sleeping bag through a field without a flashlight in the middle of the night only to end up sleeping sitting in that same collapsible chair for the rest of the night. By 6:37 AM my tires had hit the road and I was on my way north. I think I surprised a few people that morning when I pulled into the parking lot of a park in Chino, CA at 8:04 AM where I saw a big black truck with a MARS Emergency Communications decal on the drivers door. I really had no clue where I was supposed to be when I entered the park and didn't have my radios modified to be able to transmit on MARS frequencies yet to get some help. Even though I didn't have enough gear to set up a complete station of my own that day, helping Lyell/NNN0AGN set up his station helped me realize how close I was to being able to do the same thing very soon. I've recently got myself to the point where I just have to work on setting up a few antennas and I'm ready for some field tests. It really doesn't take a lot to get on the air as long as you have a portable radio, some wire, a source of power, and some space. The rest of the pieces are just a matter of how comfortable you want to be while you're sitting out in the middle of nowhere. One of the important lessons I learned that weekend was how much faster you can set up if you keep all the pieces for an individual station together in one box. It just adds to the delay if you have all your power cables in one place and all your microphones and headsets in another place.

The month ahead looks exciting for me. I plan to get as much field practice as I can and set up a remote station with emergency power on my own a couple of times a month. Now I just have to figure out how to get all the bits and pieces in my little Honda Civic including my new 21' mast and instant canopy for shelter from the elements. After upgrading my radio equipment to give me HF

capabilities while mobile and adding the very long ham stick antenna to the trunk, my car really does look like one of those toy radio controlled cars. I've joined the ranks of other enthusiasts that have to start paying attention to those height warnings when entering parking garages. There's always more to learn and more challenges ahead as long as you're open to the experience. I'm happy where I am today and looking forward to everything Navy-Marine Corps MARS can throw at me.

Editor's Notes

Where are you club? Where is your interest? Why do I see all kind of pictures and articles in the club's newsletter that is just a few miles away about the recent field day event? Did you go? Were you there? Was there nothing exciting to write about? Are you interested only in our great repeaters and not interested in helping or supporting the club? Maybe you have never been asked to contribute? Have I hit the nail on the head or am I out in left field somewhere? I don't believe so! These are many questions with few answers. It is your club. If you want to see or read great articles, then you have to write them. I am only the guy who puts it together. It would be great if I had many to choose from. It would also be great if someone local would take over. I think it would be of great benefit to the club if your editor could see and be a part your meetings. I know I thoroughly enjoyed it when I lived in the area. If you have a desire to make a worthwhile contribution to your club, please give the board a call. I'm sure they will appreciate it.

Thanks,

We will be looking forward to hearing from you, Ron NA6RS

Committee Chairmen

AREInfo.	-Dennis S	K7DCG@amsat.org
Attendance	-Al	W6GNI@amsat.org
ATV	-Art	KC6UQH@amsat.org
Auction	-Jim C.	NE6O@amsat.org
Badges new	-Al	W6GNI@amsat.org
Batteries	-David	KD6EBY DAT@Gerry.Palomar.caltech.edu
BBS Monitor	-Bill B	N6FMK@amsat.org
Billing:Ads/etc	-Lyell K	K6GVM@arrl.net
Contest Info	-Dennis V	N6KI@amsat.org
ControlOps.	-filled	W6NWG@amsat.org
D.Mar Fair-		
Emergency QTH's (Emergency Com. Centers)		
HarryH	-W6YOO	W6YOO@amsat.org
DennisV	-N6KI	N6KI@amsat.org
Field Day	-Charlie R	NN3V@ARRL.net
FDTech.	-John K	WB6IQS@Juno.com
Inventory	-Dennis B	KD6TUJ@juno.com
New Members	-John E.	KG6EQU@amsat.org
Nets	-	
Newsletter	-Ron S	NA6RS@amsat.org
PALBBSpkt	-Bruno H	KF6QDP@amsat.org
Patch Info	-Stan R	W9FQN@amsat.org
PatchETronics	-Jerry H	WB6FMT@amsat.org
Picnic	-Paul D	NN6X@amsat.org
PowerAC/DC	-Mike P	KD6VHI@amsat.org
Programs	-Dennis B.	KD6TUJ@amsat.org
Publicity	-	
QSL Cards	-Merle R	KR6BT@Juno.com
RACESinfo	-Jo A	KB6NMK@amsat.org
Red Flag	-	
Rptr Site	-Mike P	KD6VHI@amsat.org
Rptr Skeds	-	
SANDARC	-	
SellerTable	-John K	WB6IQS@Juno.com
AstSWDivDir	-	
TechSite	-Mike D	AB6QT@amsat.org
TestingVE	-Rusty M,	DuneDancer@cox.net
Training	-	W6NWG@amsat.org
TrusteeW6NWG-Mike D		AB6QT@amsat.org

(Net Managers) (see pg.12)

ARES Sun	-	
Staff Net	-David D	KC6YSO@amsat.org
ARES 6m	-David D	KC6YSO@amsat.org
Ham Help	-David D	KC6YSO@amsat.org
Hiking	-Ed	KF6DXX@Juno.com
	-Glenn P	KE6ZLY@Juno.com
MARA	-Cathy	KE6IQU W6NWG@amsat.org
Microwave	-Kerry B	
Off Road	-Jerry A	jwak6pfp@cts.com
	-Dick W	KA7AYT rwilimek@home.com
Sailors	-Paul/Rod	NN6X@amsat.org / AC6V@amsat.org
Traffic(SDCTN)-Charles		N6TEP cmiele@juno.com

Questions about club policy or for information can be addressed to **W6NWG@amsat.org** or P. O. Box 73, Vista, CA 92085-0073.

EMAIL address for Website is **webmaster@palomararc.org**

Other addresses of interest:

Scope@palomararc.org

Board@palomararc.org

Membership@palomararc.org

Contest Coral

Aug 1 SARL HF Phone Contest
 Aug 3 ARS Spartan Sprint
 Aug 7 10-10 Int'l SSB Contest
 Aug 7 North American QSO Party, CW
 Aug 7 ARRL UHF Contest
 Aug 14 Maryland-DC QSO Party
 Aug 14 WAE DX Contest, CW
 Aug 21 SARTG WW RTTY Contest
 Aug 21 ARRL 10 GHz and up Contest
 Aug 21 North American QSO Party, SSB
 Aug 21 New Jersey QSO Party
 Aug 28 Romanian DX Contest
 Aug 28 Ohio QSO Party
 Aug 28 SARL HF CW Contest
 Sep 4 All Asian DX Contest, SSB
 Sep 5 German Digital Contest, 28 MHz
 Sep 6 Michigan QRP CW Sprint

Quite a selection of contests this time, some SSB, some CW, and some RTTY. And for the UHF and up folks, there's some of those. So as to not forget the WAS chasers, there's a few state QSO parties.

Complete rules (and other contests) may be found in QST, CQ, NCJ, and Worldradio. CU in the contest.

73, Harry/W6YOO

P.A.R.C. Inc (2004 Board)

Pres: Charlie Ristorcelli NN3V
858.676.3307 NN3V@amsat.org

VP: Dennis Baca KD6TUJ
760.722.0251 KD6TUJ@amsat.org

Sec: Dick Kalkofen K6KAL.
760.519.0670 K6KAL@amsat.org

Treas: Jo Ashley KB6NMK
760.741.2560 KB6NMK@amsat.org

Dir#1: Merle Risdon KR6BT
760.941.0213 KR6BT@amsat.org

Dir#2: Steve Early AD6VII
619.461.2818 AD6VII@amsat.org

Repeater Site:

Mike Pennington KD6VHI
760.749-8888 KD6VHI@amsat.org

Membership:

Al Donlevy W6GNI
760.630.3096 W6GNI@amsat.org

New Member:

John Earnest KG6EQU.
858.484.8579 KG6EQU@amsat.org

Repeater Technical:

Mike Doyle AB6QT
760.742.1573 AB6QT@amsat.org

Web Pages

PARC's Home Page -
<http://www.palomararc.org>

Rod's - AC6V
<http://www.ac6v.com>

ARES Alert Publication
<http://sanarrl.org/alert.htm>

Tom's Hiker's - KF6PAZ
<http://www.fanciful.org/san-diego-hiker>

Jeff N6FRW Grace N6WPA

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e-mail: nicdlady@nicdlady.com

Last Month's Goodie's

Lief KQ6HE
Tom KG6RCW
Joe W6OJ
Rich KE6DUG
Roger KG6RAS
Preston W6ASP
Paul WN6K

Fold & Staple Crew

KR6BT Merle K6ML Jim
KB6NMK Jo & Toby
KB6YHZ Art & KB6YHY Anita
W6GNI Al & Kathy
W6YOO Harry KE6DUG Rich
N6UZH Terry & Matthew & Tyler

Treasurer \$\$\$,\$\$\$

Jo Ashley KB6NMK@amsat.org
ASSETS June 30, 2004

Cash and Bank Accounts	
CD	2,846.38
CD	2,676.15
CD	3,412.99
CD	2,849.66
Checking	2,700.10
Post Office	97.65

TOTAL ASSETS **\$14,582.93**

LIABILITES	
Pre-paid dues	7,212.00
Prop. Insurance	1,800.00

EQUITY 5,570.93

TOTAL LIABILITIES & EQUITY

\$14,582.93

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4CX250B & R - 4CX400A

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For Sale

(8.1) ICOM-756 Pro II, HF/6m, all mode, Like New, in original box. Manual and accessories included, a real bargain at \$1,750, Allan, AE6AN, 858-566-9829 (w) or 858-481-1880 (h).

(8.2) **Cushcraft MA5B 5** band mini HF beam. Never installed, partially assembled/painted, \$250. **Force 12 Sigma 5** portable multi-band vertical, used very little, \$125. **Spider HF** multiband portable/mobile, with attachment claw, \$50. **Hustler mobile** with 17, 20, 40M resonators, \$40, 2M mag. mount, \$5. W3LFR, 858-774-0733 days, 858-780-9593 eves.

(8.3) **Hallicrafters HA6** (6 Meters Transverter) \$30.00, **Cushcraft AR-2** 2 Meter Ringo Antenna \$15.00, **Knight Kit R55a** Receiver \$45.00, **Knight Kit Span Master** Receiver \$35.00. Jerry Kopack, KF6MYE 760-436-6238 or JKopack@DIRECPC.COM

(8.4) 2 each, Kenwood 144 MHz FM Transceivers, **TM-241A** \$100.00 each (they include mobile mounting brackets). 2 each Astron Power Supplies, Model **RS-20A**, \$70.00 each. 1 Kenwood In-line SWR bridge and meter, Model **SW-100**, \$50.00. 1 Kenwood external speaker for mobile radio, \$25.00 Harry, W6YOO, 760-743-4212

(8.5) **FREE - QST** 1994 to present. Ivan, W6TET (858) 273-0219

(7.1) **Yaesu VX-5** for sale. Like new. I have programmed in all of the S.D. repeaters I know. For scanning I also programmed the aircraft freq's and the Boating channels. Still have the box etc. \$200.00 firm. K6ROQ -- Paul

(7.2) **ICOM IC-738** HF XCVR, Very Clean no scratches one owner. This Radio has a built-in Antenna Tuner. Asking \$400.00 OBO. Please Call Bayard 6GAO at 858-755-5507 E-Mail at: ehkopf@mail.sdsu.edu.

(7.4) Astron AS-7 Power Supply \$20.00, Celestron C-8 Catadioptric

Personal equipment ads are free to members and could be "bumped" after 3 months. Make up your ad like the ones on this page. Send to Scope before the 18th of each month.

Commercial Ads in big boxes: \$2/col. inch/mo. We will "squash" your copy to the number of inches bought.

SCOPE@palomararc.org

Telescope with Heavy Duty Tripod, Planetary motor drive, X2 Barlow Lens – Spotting Scope w/manuals & misc oculars \$800.00, 2 B&W security monitors (New) \$10.00 each, Galaxy Electronics Phone Patch PR550 w/manual \$25.00, Cushcraft R-7000 Vertical \$140.00, Panasonic Stereo Earphones Model RP-HT12 (New) \$3.00 each, Panasonic Super Compact Blank Video Tape ST-C30 (New) \$3.50 each, Tape Head cleaners, Camera power supply's ETC., other items too numerous to list. Micronta Large display clock w/battery backup \$15.00, Miniature TV Camera \$30.00, Treadmill ¾ HP \$60.00, Avenger 4000 Commercial alarm system, 6 PIR's Digital Pad, Ultrasonic, 2 Sirens, \$200.00. Realistic DX-400 General Coverage Receiver – digital Tuning \$100.00, Rotating Amber 12 volt Emergency Vehicle Light, \$20.00, Contact K7DCG @ 858-748-9046 or K7DCG@ARRL.COM.

(5.1) **GAP CHALLENGER** vertical antenna. Great for limited space. Works well from 40 thru 2 meters and limitedly on 75. Only 3 25 foot radials required. Ground or elevated mounting. Currently in use. Manual incl. New \$300 Sell for \$125 or best offer. Ron K2RP 760-436-8109 or K2RP@arrl.net.

(4.25) **ICOM 703** HF/50 All Mode, \$450 (New), Alpha Delta Kent Morse key twin Iambic Paddle TP1, \$75, **MFJ 1644** Portable Screwdriver Ant., 80-6m, manual, \$50, Carl, N6HLY, 858-484-3590

(4.2) **ICOM IC-3AT** 220 MHz, Very Clean w/Key Pad, PL, New Antenna, New Battery. Asking \$50.00 OBO. (1) Wilson Hand Held, Mark IV Receive 146.52 Simplex, 146.64, 147.150.1, \$25.00, Bayard K6GAO 858-755-5507.

(11.29) Tubes, chokes, transformers, capacitors, etc. for sale. I anticipate moving and all things must go! Please contact for a detailed inventory. Call: NI6N. Email: t_osullivan_email@yahoo.com. Phone: (760) 940-8355.

(9.18) **29' Ericson Sailboat**, Auto-pilot, radio, depth sounder, TV, Microwave, Sleeps 6, Head, Galley, **Transformer**, (CV Solar, Input 115v 60cyc, Out, 120v, 25 amp.) **Transformer** (75KVA, 50% Duty Cycle, Primary 440v, Sec. Parallel low .37, 5.88, 6.2, 6.57, hi .22, 8.15, 8.8, 9.59 or Series Low 10.74, 11.72, 12.40, 13.14 or Hi-14.22, 16.3, 17.6, 19.14v, Call Art Nye, KB6YHZ, 760-758-0234

(2.22) **4 EI 10 Meter Yagi Beam** All stainless hardware w/W2DU Beam 50 Ohm Balun. Only up for short time, Very clean, Works very well. \$75.00 OBO Bayard K6GAO 858-755-5507

(10.25) Radio Shack 300-Channel **Handheld Trunk Tracker Scanner, Pro-90**, Like new in box 80.00. Louie KF6QBS.760-727-0846. kf6qbs@amsat.org.

(10.3) **Bencher Paddle Keyer** and **MFJ automatic keyer** (curtis chip). Like New! \$75 Bob AC6JG 760 207-9045.

Wanted

(4.5) Print or Manual for a SB 200 Heathkit Linier Amplifier W6ODU 760-749-8385

(3.9) Lafayette HA-600 or HA-600A, working or not. Contact Bill, KD6BFR, -kd6bfr@hotmail.com 760-480-6805

(2.3) Six, 12V UPS batteries (72 VDC total) 38 Ahr. gel cells. For the PALBBS computer. We could use a different Ahr. rating if necessary. Current backup batteries are getting weak.

PALOMAR ENGINEERS

Box 462222, Escondido, CA 92046

TOROID CORES

Palomar stocks a wide variety of cores and beads. Our RFI Tip Sheet is free on request. Our RFI kit keeps RF out of your telephones, TVs, stereo, etc. **Model RFI-4 \$25 + tax + \$6 to ship.**

BALUN KITS

Ferrites slip over coax. Shrink tubing holds them in place. Works from 3.5-60 MHz (Use two kits for 160 m).

Model BA-58 (for RG58, RG8X & similar cables up to 1/4" dia. \$7.50 + tax + \$6 S&H/order

Model BA-8 (for RG-8, RG-213, 9913 and similar cables up to 1/2" diameter. \$15.00 + tax + \$6 S&H/order

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See catalog at www.Palomar-Engineers.com
Please check our complete ads in **QST, 73, CQ, and World Radio** magazines.

PARC NETS

Sunday	0830	146.730	ARES
Sunday	1000	146.730	Sailor's Net
Sunday	2045	147.075	MARA Emergency Services
Monday	1915	146.730	RACES Sub-Net
Monday	2100	146.730	Microwave Net
Tuesday	2100	146.730	Off-Road Net
2nd Wed	2100	146.730	PARC Board Net
Thursday	1930	147.075	Young Hams Net
Thursday	2100	146.730	Ham Help Net
Friday	2100	146.730	Hiker's Net
Saturday	2000	52.680	6 Meter ARES Net
Tue/Thu/Sat	2000	146.730	NTS Traffic Net (SDCTN)

PARC Testing

Carlsbad - 2nd. Saturday at 9:30 am in the Carlsbad Safety center.

Contact Rusty **AA6OM**
760-747-5872 or dunedancer@cox.net

EARS Testing

Escondido - LAST Saturday at 9:00 am
Fire Station #1
Escondido Fire Department
310 North Quince Street
Escondido, CA 92025

Contact Harry **W6YOO**
760-743-4212 or W6YOO@amsat.org

Register 5-7 days in advance for tests.

Repeater Status

146.730-	:	Normal
147.075+	:	Normal
147.130+	:	Normal
447.000-	:	Normal
52.680-	:	Normal
146.700-	:	Packet Repeater Normal
145.050	:	Packet Digi Normal
PALBBS	:	Bulletin Board Normal
AutoPatch	:	Normal
ATV	:	Upgrading

Send \$18 Dues To:
PARC, P.O. Box 73
Vista CA 92085-0073

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Drop in to see our display of working equipment. Find out about Packet Location Determining equipment (APRS). Check our complete line of magazines, ARRL books, license manuals, and Bulletin Board with all sorts of goodies listed.

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Monday thru Saturday
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800-854-6046
5375 Kearny Villa Rd, S. D. *Ask about our great prices*

Directions: On 163, take **Clairemont Mesa Blvd.** off ramp to East. Stay in right-hand lane. Turn right at stop light. As you are turning right you can see our beams in the shopping center. Travel 100 yds. on Kearny Villa Rd. and U-turn back to shopping area and **HRO** sign. Be sure to see our equipment in action on **real** antennas.

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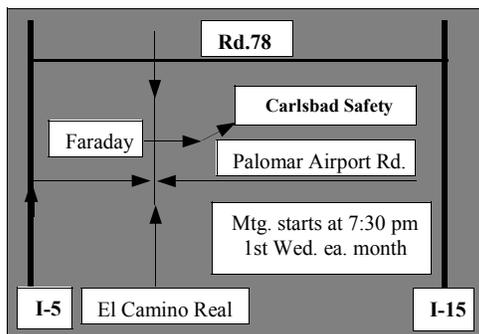
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Palomar Amateur Radio Club Inc.

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Editor: Ron Surfield NA6RS, 26080 Sycamore Dr., Mechanicsville, MD 20659
Scope address for newsletter: scope@palomararc.org

146.73-, 147.13+, 147.075+, 447.000-, 52.68-; Pkt 146.7-, 145.05 & ATV, 4 Autopatches





Palomar Amateur Radio Club

September 2004

September Meeting

September 1, 2004
Carlsbad Safety Center



PARC Repeaters

Palomar Mt. Repeaters (W6NWX)

PARC Trustee: AB6QT

***52.680-** W6NWX, -0.5 MHz.

Autopatches:

146.730-, ***147.075+**
*** 147.130+**, ***447.000-**

PKT:

145.050s (PALMAR/W6NWX-1)
146.700- (Duplex Pkt) PALBBS/
EMG use
145.070/146.7 - (W6NWX-3/PALBBS)

ATV "OUTPUT":

1241.25 MHz. am

ATV "IN":

915 wbfm, **2441.25** wbfm

Intercom:

146.415 PL 79.7 nbfm

Affiliated:

***224.38-** & ***224.94** KK6KD (HARS)
***447.05-** & ***145.26** KK6KD (HARS)
***146.175+** N6FQ(FalbrkARC) linked to
***445.600** MHz (-)
***224.90-** WD6HFR (Convair/220 ARC);
446.14- WB6FMT(123.0)Vista;

*** = 107.2 Hz. PL Tone**

Lets Have a Picnic

This year the picnic will be held at Dixon Lake, Lake shore picnic area, Lilac shelter, adjacent to the Ranger station. The date is September 25. The site is on a hillside overlooking the lake with grass areas and paved paths. It is a short walk to the lake-side for exploring the lake. Plenty of parking near the site. There is electricity in the shelter and water nearby. There are 2 charcoal fire stands and plenty of picnic bench seating or you may bring a folding chair. Also a "Kiddy" play area for the young ones.

The club will provide Hot Dogs, Hamburgers, Paper plates cups and eating utensils. Members whose last names begin with A through H are requested to bring deserts or chips or cookies. I through P, Fruit or Potato salad, and Q through Z, Beverages such as Ice tea or soda pop. Bring enough to feed yourself and perhaps another 4 people.

Directions to the lake are: east on Hwy 78 to Broadway. North on Broadway to el Norte Parkway. East on El Norte Parkway to La Honda Drive, Look for the Dixon Lake sign on the corner. Follow La Honda drive to the lake.

Merle, KR6BT@amsat.org

PARC Hiker's Net News

By Bernie – N6FN

Summer Kayaking

Warm summer days are perfect for kayaking in our local waters. San Diego is blessed with beautiful coastlines and two protected bays. A kayaker's heaven.

Several of our hiker net hams have gotten interested in kayaking. They can occasion-

ally be heard on the 146.730 repeater getting together for a few hours of paddling, generally in Mission or San Diego Bay, both ideal for the beginning and experienced kayaker. In addition they have kayaked around La Jolla Cove, to the Light House at the tip of Point Loma and out of Oceanside Harbor.

Mike-W6MBM and I have had our kayaks for several years. Earlier this year Stan-W9FQN built two very nice wooden kayaks—they are beautiful. Jeff-KG6AXR and his wife Julie-KG6BPP have gotten the bug and are also thinking about building their own boats. Colleen, another one of our hikers / kayakers has her own boat. And from time-to-time others have joined us with rental boats: Steve Pate and Bill-AA6J to mention a couple.

Just about every Thursday evening several of us join a Mission Bay social paddle that is hosted by Aqua Adventures – a kayak outfitter located on Quivira Basin. This is a very pleasant outing. Either bring your own boat and go for free, or you can rent one of their kayaks for the modest sum of \$15 for the evening. Since the kayaks are demonstrators, they are first class boats and a variety of different styles and makes of kayaks are available.

The paddle is geared towards getting people started who have never paddled before. Typically there is a group of about 20 to 35 people in attendance, with about half being beginners. Leaving Aqua Adventure's dock at about 6pm, their guides lead the group to various locations around Mission Bay. Sometimes down by Sea World, where we can see the penguins and catch part of the water show, at other times we go around Vacation Island or other locations.

Watching the sun set from a small boat in Mission Bay is a treat you shouldn't miss. If you have ever thought of kayaking, you ought to join us for the Aqua Adventures

social paddle. Visit their web page for more info and pictures <http://www.aqua-adventures.com/store/>

In late July, Stan-W9FQN and his wife Barbara-KA6FPS drove to Crescent City, in Northern California, to be with their daughter Susan-N6QDB, who gave birth to her second child—a 10lb, 2oz baby boy. While there, he and his wife and another daughter Linda-N6YZZ, who was visiting from New York, managed to kayak Earl Lake, Pelican Bay, and the Smith and Klamath Rivers. They saw lots of wild-life everywhere, including seals near the mouth of the Klamath. On their river outings they even paddled a few rapids. With the coastal redwoods and all the water they certainly were in a wonderful kayaking spot. While kayaking, they used the Crescent City repeater to keep in touch with the family at their home deep in the Redwoods. Amazingly, Stan was able to work into Oakland, where one of our Hiker Net members lives. And he was even able to work back into Palomar using IRLP. Gee—Ham Radio is fun!

For pictures and write-ups of some of our canoeing and kayaking trips visit <http://members.cox.net/bernie-n6fn/>

Hiker Net hams get together every Friday evening at 9pm on our 147.630 machine to discuss trip ideas, reports of recent trips and other outdoor related topics. The net is open to everyone and new participants are always welcome.

Amateur Radio Class Sept 18, 25 & Oct. 2, 9

Registration September 18, 2004, in the Schaetzel Center, Noble Room at Scripps Memorial Hospital, **1 pm**. Rooms change so look for signs leading to Noble room, and ask someone for direction. This will be a question and answer time only.

This registration is a must attend meeting will last approximately 2 hours. Schedules will be given out, with times. We will be using “Now You’re Talking 5th edition”. Things to bring pen and pencil, and highlighters.

Class meeting days Sept 25, Oct. 2 and 9

Class hour’s 8am- 4pm, lunch 1hour

Will take FCC test, on site.

Cost of class \$8.00 includes practice tests, and taking the FCC test thru the Volunteer Examiner. Book purchaser at Ham Radio Outlet 5375 Kearny Villa Rd, Thomas Bros Map 2004, San Diego Pg 1229, C-1 phone 1-800-854-6046.

Cash only please

Directions to Scripps Memorial Hospital campus are:

**(Thomas Guide, 2002, page 1228, B-1)
Address: 9888 Genesee Avenue, La Jolla, CA 92037**

1. I-5
2. Genesee Avenue exit
3. Proceed east, on Genesee Avenue, one block to signal.
- 4 Turn right at signal, which is Scripps

Parking will be validated

- 1) **Straight ahead, take a parking ticket, and proceed through the parking gate. Bring ticket with you it will be validated. Once through the parking gate, first right turn to the underground parking entrance. Be very careful for all antennas**

E-Mail with Name, Day phone + Night phone, and which is best to call you

You will receive a reply for registration, and any other information.

Class contact

Skip Cline

760-757-5424

kd6rfq@ixpres.com

E-Mail is best

Editor’s Note

It has been a great privilege to serve as your editor. However, it is time to call it to an end. As you can see, there are many blank spaces in this newsletter. It is also Sunday, only hours from going to the printers. The information you see is all that was provided. I do thank those of you that take, and have taken, the responsibility to provide the information in a timely fashion over the years, but I can no longer spend my Sunday’s before print time trying to layout and edit a 8 to 10 page newsletter, and make it look professional. It’s just too much to ask. Thank you all again and best of luck on my replacement.

Ron Surfield, NA6RS

Club Membership

**New Member Joining PARC:
KG6VSF**

AB7BN renewed for 4 years, and two reinstatements.

Club membership is at a 5 year low. And, there are more licensed amateurs than ever before. Our repeaters are busy. Why are we losing members faster than we are signing up new ones? Certainly it cannot be the cost. A cup of coffee in a restaurant costs more than a months membership in PARC.

I know this is "Preaching to the Choir", but, the repeaters are up on the mountain, and they work, but surprisingly enough, they don't work for free! I'm sure that most hams that buy a new toy at HRO stop in their parking lot and kerchunk the repeater to see that the toy works, and that goes for many hams that are not members. Everyone just expects the repeaters to be there, waiting for a test!

Al, W6GNI

Committee Chairmen

AREInfo.	-Dennis S	K7DCG@amsat.org
Attendance	-Al	W6GNI@amsat.org
ATV	-Art	KC6UQH@amsat.org
Auction	-Jim C.	NE6O@amsat.org
Badges new	-Al	W6GNI@amsat.org
Batteries	-David	KD6EBY DAT@Gerry.Palomar.caltech.edu
BBS Monitor	-Bill B	N6FMK@amsat.org
Billing:Ads/etc	-Lyell K	K6GVM@arrl.net
Contest Info	-Dennis V	N6KI@amsat.org
ControlOps.	-filled	W6NWG@amsat.org
D.Mar Fair-		
Emergency QTH's (Emergency Com. Centers)		
HarryH	-W6YOO	W6YOO@amsat.org
DennisV	-N6KI	N6KI@amsat.org
Field Day	-Charlie R	NN3V@ARRL.net
FDTech.	-John K	WB6IQS@Juno.com
Inventory	-Dennis B	KD6TUI@juno.com
New Members	-John E.	KG6EQU@amsat.org
Nets	-	
Newsletter	-Ron S	NA6RS@amsat.org
PALBBSpkt	-Bruno H	KF6QDP@amsat.org
Patch Info	-Stan R	W9FQN@amsat.org
PatchETronics	-Jerry H	WB6FMT@amsat.org
Picnic	-Paul D	NN6X@amsat.org
PowerAC/DC	-Mike P	KD6VHI@amsat.org
Programs	-Dennis B.	KD6TUI@amsat.org
Publicity	-	
QSL Cards	-Merle R	KR6BT@Juno.com
RACESinfo	-Jo A	KB6NMK@amsat.org
Red Flag	-	
Rptr Site	-Mike P	KD6VHI@amsat.org
Rptr Skeds	-	
SANDARC	-	
	-	
SellerTable	-John K	WB6IQS@Juno.com
AstSWDivDir	-	
TechSite	-Mike D	AB6QT@amsat.org
TestingVE	-Rusty M,	DuneDancer@cox.net
Training	-	W6NWG@amsat.org
TrusteeW6NWG-Mike D		AB6QT@amsat.org

(Net Managers) (see pg.12)

ARES Sun	-	
Staff Net	-David D	KC6YSO@amsat.org
ARES 6m	-David D	KC6YSO@amsat.org
Ham Help	-David D	KC6YSO@amsat.org
Hiking	-Ed	KF6DXX@Juno.com
	-Glenn P	KE6ZLY@Juno.com
MARA	-Cathy	KE6IQU W6NWG@amsat.org
Microwave	-Kerry B	
Off Road	-Jerry A	jwak6pfp@cts.com
	-Dick W	KA7AYT rwilimek@home.com
Sailors	-Paul/Rod	NN6X@amsat.org / AC6V@amsat.org
Traffic(SDCTN)-Charles		N6TEP cmiele@juno.com

Questions about club policy or for information can be addressed to **W6NWG@amsat.org** or P. O. Box 73, Vista, CA 92085-0073.

EMAIL address for Website is **webmaster@palomararc.org**

Other addresses of interest:

Scope@palomararc.org

Board@palomararc.org

Membership@palomararc.org

Contest Coral

Sep 4 All Asian DX Contest, SSB
 Sep 5 FISTS Straight Key Week
 Sep 5 DARC 10 Meter Digital Contest
 Sep 7 MI-QRP Labor Day Sprint
 Sep 7 ARS Spartan Sprint
 Sep 11 WAE DX Contest, SSB
 Sep 11 CIS DX Contest, RTTY
 Sep 11 ARRL VHF QSO Party
 Sep 12 North American Sprint, CW
 Sep 12 Tennessee QSO Party
 Sep 18 QCWA QSO Party
 Sep 18 ARRL 10 GHz Cumulative Contest
 Sep 18 Scandinavian CW Contest
 Sep 18 Washington State Salmon Run
 Sep 25 AL and TX QSO Parties
 Sep 25 CQ/RJ WW DX Contest, RTTY
 Sep 25 Scandinavian SSB Contest
 Oct 2 TARA Rumble Contest
 Oct 2 Oceania DX Contest, SSB
 Oct 2 CALIFORNIA QSO PARTY!

Wow, what a line up! A little bit for everyone. CW, RTTY and other digital modes, SSB, VHF and up, surely enough to keep all contesters very happy. And the crown jewel in all this (IMHO) is the CALIFORNIA QSO PARTY. Just fire up your rig, point the antenna EAST, call CQ CQP and be prepared to fend off the hordes. They'll be stacked up six deep to work you. All the rules can be found in QST, CQ, NCJ, Worldradio, and also in many on-line sources. CU in the Contest.

73, Harry, W6YOO

P.A.R.C. Inc (2004 Board)

Pres: Charlie Ristorcelli NN3V
858.676.3307 NN3V@amsat.org

VP: Dennis Baca KD6TUJ
760.722.0251 KD6TUJ@amsat.org

Sec: Dick Kalkofen K6KAL.
760.519.0670 K6KAL@amsat.org

Treas: Jo Ashley KB6NMK
760.741.2560 KB6NMK@amsat.org

Dir#1: Merle Risdon KR6BT
760.941.0213 KR6BT@amsat.org

Dir#2: Steve Early AD6VII
619.461.2818 AD6VII@amsat.org

Repeater Site:

Mike Pennington KD6VHI
760.749-8888 KD6VHI@amsat.org

Membership:

Al Donlevy W6GNI
760.630.3096 W6GNI@amsat.org

New Member:

John Earnest KG6EQU.
858.484.8579 KG6EQU@amsat.org

Repeater Technical:

Mike Doyle AB6QT
760.742.1573 AB6QT@amsat.org

Web Pages

PARC's Home Page -
<http://www.palomararc.org>

Rod's - AC6V
<http://www.ac6v.com>

ARES Alert Publication
<http://sanarrl.org/alert.htm>

Tom's Hiker's - KF6PAZ
<http://www.fanciful.org/san-diego-hiker>

Jeff N6FRW Grace N6WPA

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Glenn KE6ZLY
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Fold & Staple Crew

K6ML Jim KG6AEW Bill
KB6NMK Jo N6UZH Terry
KB6YHZ Art & KB6YHY Anita
W6GNI Al & Kathy
W6YOO Harry KR6BT Merle

Treasurer \$\$\$,\$\$\$

Jo Ashley KB6NMK@amsat.org
ASSETS July 31, 2004

Cash and Bank Accounts	
CD	2,702.71
CD	2,850.33
CD	3,416.43
CD	2,851.96
Checking	2,375.71
Post Office	97.65

TOTAL ASSETS **\$14,294.79**

LIABILITES	
Pre-paid dues	7,691.00
Prop. Insurance	1,800.00

EQUITY 4,803.79

TOTAL LIABILITIES & EQUITY

\$14,294.79

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4CX250B & R - 4CX400A

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760-744-0700

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e-mail: rfp@rfparts.com

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For Sale

(9.1) **Hustler Mobile Antenna Mast** with resonators for 11, 20, 40, & 80 Meters. \$30. **Tokyo Hi Power Manual Antenna Tuner, HC-150** \$75. Daiwa Cross Needle **SWR Bridge**, 1.8-150 MHz \$25.00. Wanzer Co "Z" Match Tuner, 300W \$75. Atlas DL-300 52 Ohm Dummy Load (like small Cantenna) w/cooling oil \$15.00. Low Pass Filter (great for 6 Mtr Ops), **Yaesu FL-2100B Linear Amplifier**, \$300.00. All From Estate of KF6QQ. Call Harry, W6YOO at 760-743-4212

(9.2) Kenwood CW filter, **YK-88C-1** (500 HZ). In like new condition for TS-450, TS-570, TS-690, TS-850, TS-930, TS-940, TS-950. Easily plugs in and is held down with 2 screws. \$70 Contact Bernie-N6FN at N6FN@niftyaccessories.com or 760-746-7411.

(9.3) **WWII military surplus HF receiver, transmitter and power supply** (three separate units) to go to a good home, or be salvaged for parts. The transmitter puts out about 30 watts, and all the gear worked last time fired it up. Runs off 115 VAC. Frank Burns, W6KGG, 723-1792.

(9.4) **Wilison Hand Held Mark IV Transceiver** Good radio to monitor Channels on. Asking \$25.00. **4 EI 10 Meter Yagi Beam**. All stainless Hardware W/W2 DUBeam 50 OHM Balun. Like New Works Great \$75.00. Please contact Bayard K6GAO 858-755-5507.

(9.5) **Drake C Line - T4XC** with DX Eng RF Speech Proc, R4C with all filters and NB, MS4/AC4 Speaker/Power Supply. L4-B 2 KW Amp. Contact Dennis N6KI. n6ki@earthlink.net for details and price. 858 271-6079

(9.6) **Wilson TT-45 45' Tower**, free-standing galvanized, raising and tilt-over fixture, rotor bracket, \$250, **Qubex 4 el. Quad**, 10,15,&20m, \$150, **HY-Gain Rotor**,w/ctrl and manual, \$100, Remote switch, 6 pos. \$100, **Swan Linear 1500Z**, 1500w,

***Personal equipment ads** are free to members and could be "bumped" after 3 months. Make up your ad like the ones on this page. Send to Scope before the 18th of each month.*

***Commercial Ads** in big boxes: \$2/col. inch/mo. We will "squash" your copy to the number of inches bought.*

SCOPE@palomararc.org

\$400, Heath Tuner SA-2040, 2000w pep, w/manual, \$150, Kenwood 2M TR-7330, w/ARX2 ant, \$200, Astro PS-7A ps, \$30, Palomar SWR/PWR meter, \$50, 1KW Dummy load, \$10, Swan SWR meter, \$20, PACE coax 3 pos, sw, \$5, DAIWA 2 pos sw, \$5, Low pass filter, \$5, CUBIC ASTRO 103 Xcvt.w/ps,\$300, CUBIC ASTRO 150A, 100w, 10-160m, ext ps, \$300, Kris W6KTE, 760-941-3555

(8.1) **ICOM-756 Pro II**, HF/6m, all mode, Like New, in original box. Manual and accessories included, a real bargain at \$1,750, Allan, AE6AN, 858-566-9829 (w) or 858-481-1880 (h).

(8.2) **Cushcraft MA5B 5 band mini HF beam**. Never installed, partially assembled/painted, \$250. **Force 12 Sigma 5** portable multi-band vertical, used very little, \$125. **Spider HF** multiband portable/mobile, with attachment claw, \$50. **Hustler mobile** with 17, 20, 40M resonators, \$40, 2M mag. mount, \$5. W3LFR, 858-774-0733 days, 858-780-9593 eves.

(8.3) **Hallicrafters HA6** (6 Meters Transverter) \$30.00, **Cushcraft AR-2** 2 Meter Ringo Antenna \$15.00, **Knight Kit R55a** Receiver \$45.00, **Knight Kit Span Master** Receiver \$35.00. Jerry Kopack, KF6MYE 760-436-6238 or JKopack@DIRECPC.COM

(8.4) 2 each, Kenwood 144 MHz FM Transceivers, **TM-241A** \$100.00 each (they include mobile mounting brackets). 2 each Astron Power Supplies, Model **RS-20A**, \$70.00 each. 1 Kenwood In-line SWR bridge and meter, Model **SW-100**, \$50.00. 1 Kenwood external speaker for mobile radio, \$25.00 Harry, W6YOO, 760-743-4212

(8.5) **FREE - QST** 1994 to present. Ivan, W6TET (858) 273-0219

(7.1) **Yaesu VX-5** for sale. Like new. I have programmed in all of the S.D. repeaters I know. For scanning I also programmed the aircraft freq's and the Boating channels. Still have the box etc. \$200.00 firm. K6ROQ -- Paul

(7.4) Astron AS-7 Power Supply \$20.00, Celestron C-8 Catadioptric Telescope with Heavy Duty Tripod, Planetary motor drive, X2 Barlow Lens – Spotting Scope w/ manuals & misc oculars \$800.00, 2 B&W security monitors (New) \$10.00 each, Galaxy Electronics Phone Patch PR550 w/manual \$25.00, Cushcraft R-7000 Vertical \$140.00, Panasonic Stereo Earphones Model RP-HT12 (New) \$3.00 each, Panasonic Super Compact Blank Video Tape ST-C30 (New) \$3.50 each, Tape Head cleaners, Camera power supply's ETC., other items too numerous to list. Micronta Large display clock w/battery backup \$15.00, Miniature TV Camera \$30.00, Treadmill ¼ HP \$60.00, Avenger 4000 Commercial alarm system, 6 PIR's Digital Pad, Ultrasonic, 2 Sirens, \$200.00. Realistic DX-400 General Coverage Receiver – digital Tuning \$100.00, Rotating Amber 12 volt Emergency Vehicle Light, \$20.00, Contact K7DCG @ 858-748-9046 or K7DCG@ARRL.COM.

(4.25) **ICOM 703** HF/50 All Mode, \$450 (New), Alpha Delta Kent Morse key twin lambic Paddle TP1, \$75, **MFJ 1644** Portable Screwdriver Ant., 80-6m, manual, \$50, Carl, N6HLY, 858-484-3590

Wanted

PALOMAR ENGINEERS

Box 462222, Escondido, CA 92046

TOROID CORES

Palomar stocks a wide variety of cores and beads. Our RFI Tip Sheet is free on request. Our RFI kit keeps RF out of your telephones, TVs, stereo, etc. **Model RFI-4 \$25 + tax + \$6 to ship.**

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Ferrites slip over coax. Shrink tubing holds them in place. Works from 3.5-60 MHz (Use two kits for 160 m).

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Tune your tuner without transmitting. Save that rig!

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See catalog at www.Palomar-Engineers.com
Please check our complete ads in **QST, 73, CQ, and World Radio** magazines.

PARC NETS

Sunday	0830	146.730	ARES
Sunday	1000	146.730	Sailor's Net
Sunday	2045	147.075	MARA Emergency Services
Monday	1915	146.730	RACES Sub-Net
Monday	2100	146.730	Microwave Net
Tuesday	2100	146.730	Off-Road Net
2nd Wed	2100	146.730	PARC Board Net
Thursday	1930	147.075	Young Hams Net
Thursday	2100	146.730	Ham Help Net
Friday	2100	146.730	Hiker's Net
Saturday	2000	52.680	6 Meter ARES Net
Tue/Thu/Sat	2000	146.730	NTS Traffic Net (SDCTN)

PARC Testing

Carlsbad - 2nd. Saturday at 9:30 am in the Carlsbad Safety center.

Contact Rusty **AA6OM**
760-747-5872 or dunedancer@cox.net

EARS Testing

Escondido - LAST Saturday at 9:00 am
Fire Station #1
Escondido Fire Department
310 North Quince Street
Escondido, CA 92025

Contact Harry **W6YOO**
760-743-4212 or W6YOO@amsat.org

Register 5-7 days in advance for tests.

Repeater Status

146.730-	:	Normal
147.075+	:	Normal
147.130+	:	Normal
447.000-	:	Normal
52.680-	:	Normal
146.700-	:	Packet Repeater Normal
145.050	:	Packet Digi Normal
PALBBS	:	Bulletin Board Normal
AutoPatch	:	Normal
ATV	:	Upgrading

Send \$18 Dues To:
PARC, P.O. Box 73
Vista CA 92085-0073

HAM

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H
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O

Tom KM6K
Ron N6OMW
Jose XE2SJB
Bob KA6EKT

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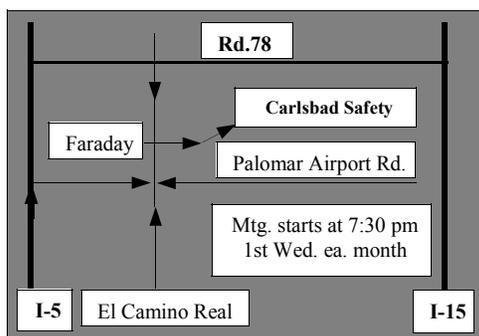
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Palomar Amateur Radio Club Inc.

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Editor: Ron Surfield NA6RS, 26080 Sycamore Dr., Mechanicsville, MD 20659
Scope address for newsletter: scope@palomararc.org

146.73-, 147.13+, 147.075+, 447.000-, 52.68-; Pkt 146.7-, 145.05 & ATV, 4 Autopatches



Palomar Amateur Radio Club

Volume XXXI No. 10

October 2004

October Meeting

In place of the monthly club meeting PARC will hold it's annual auction

Wednesday, October 6th

Doors open at 6:30 PM for sellers to register and position their equipment. Buyers are requested NOT TO ENTER the auction hall.

Auction will begin at 7:00 PM.

PARC collects 10% of the sale price obtained. Sellers may voluntarily choose to donate the equipment to PARC, in which case PARC collects the entire sale value.

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Hiker's Net News	10

President's Message

ARE YOU READY FOR THE PARC AUCTION THIS MONTH?

Well, as the saying goes, ask and your wish shall be granted. I am extremely pleased to announce to our readership that W6MYP (Michelle) has graciously stepped forward and taken up the bat as Scope editor. **WELCOME MICHELLE!** You folks reading these lines will find a note from Michelle below. And as has always been the case, remember, if you want variety in Scope, send your written contributions to scope@palomarc.org, or via regular snail mail to the Club's post office box.

I must add a note of thanks to NA6RS (Ron) who faithfully supported the Club

through his move to the East Coast, and the worldwide travel he was called to undertake as part of his job. Ron, on behalf of the PARC membership, you have our heartfelt thanks and wishes that all may go very well for you as you settle in to your new surroundings. Remember whenever you fly into San Diego to look us up on the repeaters. We will keep a light on for you!

Renewed interest in other Club activities is also noted in the repeater site support. It is my pleasure to officially welcome W5NYV (Michelle) to the role of assistant site coordinator. Michelle spent time with AB6QT familiarizing herself with the site's



PARC

condition. She also brings to us the advantage of living on Palomar Mountain, and is already making her mark in coordinating some of the unseen activities needed to keep the repeater site in good terms with the family of Palomar Mountain residents. She will take on a principal role in assisting AB6QT, with the support of

(Continued on page 2)

Editor's Note

Hello all. I thought I would take up a few lines in this month's newsletter to tell you a little bit about myself. My name is Michelle—W6MYP. I have been a PARC member for about 3 years now. I received my General Class License a year ago after taking Jim's—NE6O class. With his assistance and several others who were willing to give me tips on learning the code, I eventually passed.

I'm one of those people who is a "Jack of all trades, master of none". When I heard Ron's plea for someone to fill in as Scope Editor I thought..."I think I can do that". So here I am. I cannot repair repeaters or climb towers so this is my small way of giving back to ham radio and to the PARC members who have helped me along the way.

I hope that I can, with your help and feedback, produce a Newsletter that you enjoy. This is your newsletter... I'm just the conduit that puts it all together. Please send me your stories, your birthdays, announcements and other articles to cover the white spaces!

73 Michelle W6MYP

(Continued from page 1)

KD6VHI as she "learns the ropes". Many of you have become accustomed to talking about AB6QT as "Mountain Mike", and KD6VHI as "Valley Mike" as they deal with the site technical and maintenance issues. Well, you can refer to W6MYP and W5NYV as "Valley Michelle" and "Mountain Michelle" respectively as well. And ***it is not true*** that you must be named Michelle or Mike to be an active participant in repeater site activities!

Those of you who expressed interest in Echo Link, you will find the subject matter is under supportive consideration by your Board. Details in the Board minutes. Likewise, I am pleased to announce that KC6YSO (Dave) is taking on the maintenance and care of the 6 M repeater. And what wonderful repeater it is for those of you equipped with 6M, including mobile. I find it covers anywhere in the County where I drive, and it is just like having your own private channel. ***TRY IT!***

For those of you who like to consider the possibilities of hamfests, and who wish there was an exciting hamfest near us, I am pleased to announce that the Yuma Hamfest is gearing up again after many years of dormancy. You can find the details at their website <http://yumahamfest.com/> The hamfest will take place 18 - 20 February 2005, and many "in the know" believe it could easily rival Dayton if it gathers the requisite support from West Coast hams (as Dayton gets support from the East Coast). I

plan on attending. Yuma is in our backyard almost. And, for those who wonder, yes, the IOOK plans a mass attendance at the event. So make your plans soon.

73 de NN3V

P.A.R.C. Inc (2004 Board)

Pres: Charlie Ristorcelli **NN3V**
858.676.3307 NN3V@amsat.org

VP: Dennis Baca **KD6TJ**
760.722.0251 KD6TJ@amsat.org

Sec: Dick Kalkofen **K6KAL** 760.519.0670
K6KAL@amsat.org

Treas: Jo Ashley **KB6NMK**
760.741.2560 KB6NMK@amsat.org

Dir#1: Merle Risdon **KR6BT**
760.941.0213 KR6BT@amsat.org

Dir#2: Steve Early **AD6VI**
619.461.2818 AD6VI@amsat.org

Repeater Site:
Michelle Thompson **W5NYV**
858.229.3399 W5NYV@amsat.org

Membership:
Al Donlevy **W6GNI**
760.630.3096 W6GNI@amsat.org

New Member:
John Earnest **KG6EQU**
858.484.8579 KG6EQU@amsat.org

Repeater Technical:
Mike Doyle **AB6QT**
760.742.1573 AB6QT@amsat.org

Contest Coral

Oct 2 TARA PSK Rumble Contest
Oct 2 Oceania DX Contest, SSB
Oct 2 EU Autumn Sprint, SSB
Oct 3 California QSO Party
Oct 3 RSGB 21/28 MHz Contest, SSB
Oct 6 432 MHz Fall Sprint
Oct 9 Oceania DX Contest, CW
Oct 9 EU Autumn Sprint, CW
Oct 9 Pennsylvania QSO Party
Oct 9 FISTS Fall Sprint
Oct 10 NA Sprint, RTTY
Oct 10 10-10 Int'l 10 Meter Sprint
Oct 16 JARTS WW RTTY Contest
Oct 17 RSGB 21/28 MHz Contest, CW
Oct 30 CQ WW DX Contest, SSB
Oct 30 10-10 Int'l Fall Contest, CW
Nov 6 ARRL Sweepstakes, CS
Nov 13 Worked All Europe, RTTY

The major contest season is upon us again. The California QSO Party is the first weekend in October with the CW WW coming towards the end of the month. Lots of CW, RTTY, and SSB contests to please almost everyone. You can find the rules and lots more in the contest sections of QST, CQ, NCJ, and Worldradio. CU in the contest.

73, Harry/W6YOO

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760-744-0700

An address to remember:

www.rfparts.com

e-mail: rfp@rfparts.com

Send for your FREE 2004 Catalog or visit our website.

PARC Repeaters

Palomar Mt. Repeaters (W6NWX)

PARC Trustee: AB6QT

***52.680- W6NWX, -0.5 MHz**

Autopatches:

146.730-, 147.075+

***147.130+, *447.000-**

PKT:

145.050s (PALOMAR/W6NWX -1)

146.700- (Duplex Pkt) PALBBS/EMG

use

145.070/146.7- (W6NWX-3/PALBBS)

ATV"IN":

915 wbfm, 2441.25 wbfm

ATV "Output"

1241.25 MHz am

Intercom:

146.415 PL 79.7 nbfm

Affiliated:

***224.38- & *224.94 KK6KD (HARS)**

***447.05- & *145.26 KK6KD (HARS)**

***146.175+ N6FQ(Fallbrook ARC)**

Linked to

***445.600 MHz (-)**

***224.90- WD6HFR (Corvair/220 ARC)**

446.14- WB6FMT (123.0) Vista

*** = 107.2 Hz PL Tone**

Committee Chairpersons

ARESinfo	Dennis S	K7DCG@amsat.org
Attendance	Al	W6GNI@amsat.org
ATV	Art	KC6UQH@amsat.org
Auction		AD6VI
Badges new	Al	W6GNI@amsat.org
Batteries	David	KD6EBYDAT@Gerry.Palomar.caltech.edu
BBS Monitor	Bill B	N6FMK@amsat.org
Billing:Ads/etc	Lyell K	K6GVM@arrl.net
Contest Info	Dennis V	N6KI@amsat.org
Control Ops	-filled	N6NWX @amsat.org
Del Mar Fair		
Emergency QTH's (Emergency Com Centers)		
Harry H	W6YOO	W6YOO@amsat.org
Dennis V	N6KI	N6KI@amsat.org
Field Day	Charlie R	NN3V@amsat.org
Field Day Tech	John K	WB6IQS @amsat.org
Inventory	Dennis B	KD6TUJ @amsat.org
New Members	John E	KG6EQU@amsat.org
Nets		
Newsletter	Michelle P	W6MYP@amsat.org
PALBBS Pkt	Bruno H	KF6QDP@amsat.org
Patch Info	Stan R	W9FQN@amsat.org
PatchETronics	Jerry H	WB6FMT@amsat
Picnic		
Power AC/DC	Mike P	KD6VHI@amsat.org
Programs	Dennis B	KD6TUJ @amsat.org
Publicity		
QSL Cards	Merle R	KR6BT@juno.com
RACES Info	Jo A	KB6NMK @amsat.org
RED Flag		
Repeater Site	Michelle T	W5NYV@amsat.org
Repeater Skeds		
SANDARC		
Seller Table	John K	WB6IQS @juno.com
Assistant SW Div Dir		
Tech Site	Mike D	AB6QT@amsat.org
Testing VE	Rusty M	DuneDancer@cox.net
Training		W6NWX @amsat.org
Trustee W6NWX	Mike D	AB6QT@amsat.org

Net Managers

ARES Sun		
ARES Staff Net	David D	KC6YSO@amsat.org
ARES 6m	David D	KC6YSO@amsat.org
Ham Help Net	David D	KC6YSO@amsat.org
Hiking	Ed	KF6DXX@juno.com
	Glenn P	KE6ZLY@juno.com
MARA	Cathy	KE6IQU W6NWX@amsat.org
Microwave	Kerry B	
Off Road	Jerry A	jwak6fpf@cts.com
	Dick W	KA7AYTrwillimek@home.com
Sailors	Paul	NN6X@amsat.org
	Rod	AC6V@amsat.org
Traffic SDCTN	Charles	N6TEP cmiele@juno.com

Questions

Questions about club policy or for more information can be addresses to:

Email: **W6NWX@amsat.org**

Snail Mail: P.O. Box 73
Vista, CA 92085-0073

Minutes

Palomar Amateur Radio Club Board of Directors

September 08, 2004

The meeting was called to order at 6:59 PM by NN3V at the home of NN3V.

Present were:

President, Charles Ristorcelli, NN3V
 Vice President, Dennis Baca KD6TUJ
 Secretary, Dick Kalkofen, K6KAL
 Treasurer, Jo Ashley, KB6NMK
 Director Steve Early, AD6VI
 Director Merle Risdon, KR6BT

Membership Chairman, Al Donlevy, W6GNI
 New Member Ex-Officio, John Earnest, KC6EQU
 Repeater Tech Chair, Mike Doyle, AB6QT
 Retiring Repeater Site Chair, Mike Pennington, KD6VHI
 Michelle Thompson, W5NYV, 'Repeater Site Chair volunteer'
 Michelle Poirier, W6MYP 'Scope Editor volunteer'

Treasurer's Report of 08/31/2004

Jo, KB6NMK has submitted the Treasurer's Report for reviewed by the board. On Saturday Sept 4th, Jo tried to change the maturity of a 6 Month CD to 12 Month to improve the rate of return. BOA would not allow a CD transaction on Saturday, and it rolled over for another 6 months. Mike, AB6QT moved that the report as submitted be approved, and was seconded by Merle KR6BT. The motion carried.

Secretaries Report

The minutes were distributed to the board and scope editor, but not in time to be published in the scope. Dennis, KD6TUJ moved that the minutes as distributed be approved, and was seconded by Al, W6GNI. The motion was carried.

Discussion Items

The board reviewed the offer by Michelle Poirier, W6MYP to serve as Scope Editor. She is familiar with Adobe software that was used by Ron, NA6RS. After a brief discussion outlining the duties of the editor, the board unanimously approved her appointment as the new scope editor.

Mike recommended that Michelle Thompson, W5NYV be appointed as the new Repeater Site Chair person. After a review of the duties, and an offer by Mike AB6QT to continue in a mentoring capacity, Dick K6KAL moved the appointment be accepted by the board, and was seconded by Al, W6GNI.

The motion carried.

There was another discussion about adding 'EchoLink' to one of the PARC repeaters. Mike AB6QT recommended that the 147.075 machine be used. Steve, AD6VI will review this with MARA, as the 147.075 machine is their repeater donated for the clubs use. Mike will contact John, W9EN of the EARS club to see what was involved in setting up their EchoLink.

Mike, AB6QT submitted a request for a small container for the repeater site to serve as a work

space for repairs and some storage. Michelle, W5NYV will check

(Continued on page 11)

<div style="text-align: center;"> <h1 style="font-size: 2em; margin: 0;">HAM</h1> <h1 style="font-size: 2em; margin: 0;">RADIO</h1> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px;">H R O</div> <h1 style="font-size: 2em; margin: 0;">OUTLET</h1> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; text-align: center;"> Tom KM6K Ron N6OMW Jose XE2SJB Bob KA6EKT </div>	<p>KENWOOD <i>rf</i> CONCEPTS DIAMOND US TOWERS KANTRONICS YAESU MFJ, ICOM BENCHER, Inc. HUSTLER COMET AMERITRON</p>	<p><i>Astron,</i> AEA, OUTBACKER <i>Larsen Antenas</i> TEN-TEC <i>hy-gain, Tri-EX,</i> <i>cushcraft</i> <i>and</i> <i>others too</i> <i>numerous to</i> <i>mention!</i></p>
<p>Open: 10a.m. - 5:30p.m. <i>Ask about our great prices</i> Monday thru Saturday 858 560-4900 or toll free 1-800-854-6046</p> <p style="text-align: right; font-size: 0.8em;">Dec98</p>	<p>Directions: On 163, take Clairemont Mesa Blvd. off ramp to East. Stay in right-hand lane. Turn right at stop light. As you are turning right you can see our beams in the shopping center. Travel 100 yds. on Kearny Villa Rd. and U-turn back to shopping area and HRO sign. Be sure to see our equipment in action on real antennas.</p>	

Drop in to see our display of working equipment. Find out about Pkt location determining equipment (APRS). Check our complete line of magazines, ARRL books, license manuals, and Bulletin Board with all sorts of goodies listed.

October 2004

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6 <i>Auction</i>	7	8	9
10	11	12	13 <i>Board Meeting</i>	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31 <i>Halloween</i>						

Schedule of Events

- **October 6** PARC Auction
- **October 13** Board Meeting

PARC NETS

- Sunday** 0830 146.730 ARES
- Sunday** 1000 146.730 Sailors Net
- Sunday** 2045 146.075 MARA Emergency Services
- Monday** 1915 146.730 RACES Sub-Net
- Monday** 2100 146.730 Microwave Net
- Tuesday** 2100 146.730 Off-Road Net
- 2nd Wednesday** 2100 146.730 PARC Board Net
- Thursday** 1930 147.075 Young Hams Net
- Thursday** 2100 146.730 Ham Help Net
- Friday** 2100 146.730 Hiker's Net
- Saturday** 2000 52.680 6 Meter Ares Net
- Tue/Thu/Sat** 2000 146.730 NTS Traffic Net (SDCTN)

If you would like to include information for the calendar, please send an email to:
SCOPE@palomararc.org

Last Month

Goodie Table



- | | |
|-------|----------|
| W6MYP | Michelle |
| W6JFD | John |
| AE6IC | Fred |

Club Membership

New Members Joining PARC:
 KG6QHP, KF6NBF, KG6VVK, W0KJV,
 and KG4TZT.
**Be sure to greet these new members
 when you see or hear them on the
 repeaters.**

In addition, 5 reinstated their membership.

Please be sure to check your SCOPE mailing label each month. Avoid the dreaded red "Last Issue" on your label. "Last Issue" means your membership expires within a few days..

We get a number of new members that download the application form from the club web site. This is great, and the web site is a good way to tell potential members about the club. Do you know our web address? **Palomararc.org** Think - Palomar amateur radio club dot Org.

Al
 W6GNI

Fold & Staple Crew



- | | | |
|-------------|---|-------------|
| KR6BT Merle | | KG6AEW Bill |
| KB6NMK Jo | & | Toby |
| KB6YHZ Art | | K6ML Jim |
| W6GNI Al | & | Kathy |
| W6YOO Harry | | KE6DUG Rich |
| N6UZH Terri | | |

For Sale

(9.10) Hustler Mobile Antenna Mast with resonators for 11, 20, 40, & 80 Meters. \$30. Tokyo Hi Power Manual Antenna Tuner, HC-150 \$75. Wanzer Co "Z" Match Tuner, 300W \$75. Atlas DL-300 52 Ohm Dummy Load (like small Cantenna)

w/cooling oil \$15.00. Low Pass Filter (great for 6 Mtr Ops), Yaesu FL-2100B Linear Amplifier, \$300.00. All From Estate of KF6QQ. Call Harry, W6YOO at 760-743-4212

(9.10) For Sale: 2 each, Kenwood 144 MHz FM Transceivers, Model TM-241A \$100.00 each (they include mobile mounting brackets). 2 each Astron Power Supplies, Model RS-20A, \$70.00 each. 1 Kenwood external speaker for mobile radio, \$25.00 Call Harry, W6YOO, 760-743-4212

(9.2) Kenwood CW filter, YK-88C-1 (500 HZ). In like new condition for TS-450, TS-570, TS-690, TS-850, TS-830, TS-950. Easily plugs in and is held down with 2 screws. \$70 Contact Bernie N6FN at N6FN@niftyaccessories.com or 760-746-7411.

(9.3) WWII Military surplus HF receiver, transmitter and power supply (three separate units) to go to a good home or to be salvaged for parts. The transmitter puts out about 30 Watts, and all gear work last time it was fired up. Runs off 115 VAC. Frank Burns W6KGG 723-1792.

(9.4) Wilson Hand Held Mark IV Transceiver. Good radio to monitor channels on. Asking \$25. 4 Element 10 Meter YAGI beam. All stainless hardware with W2 DU beam balun. Like new works great \$75. Please contact Bayard K6GAO 858-755-5507

Personal equipment ads are free to members and could be "bumped" after 3 mo. Make up your ad like the ones below and send to the email address below before the 15th of each month.

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SCOPE@palomararc.org

(9.5) Drake C Line T4CX with DX Eng RF Speech Proc, R4C with all filters and NB, MS4/AC4 Speaker/Power Supply, L4-B 2 KW Amp. Contact Dennis N6KI. N6KI@earthlink.net for details and price 858-271-6079

(9.6) Wilson TT-45 45' Tower, free standing galvanized, raising and tiltover fixture, rotor bracket, \$250. Qubex 4 el. Quad, 10,15,&20m,

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\$150. HY-GAIN Rotor, w/control and manual, \$100. Remote switch, 6 pos, \$100. SwanLinear 1500Z, 1500w, \$400. Heath Tuner SA-2040w pep, w/manual, \$150, Kenwood 2M TR-7330, w/ARX2 ant. \$200, Astro PS7A ps, \$30. Palomar SWR/PWR meter \$50, 1KW Dummy Load \$10, Swan SWR meter, \$20, PACE coax 3 pos sw \$5, DAIWA 2 pos sw \$5, Low Pass filter \$5, CUBIC ASTRO 103 Xcvr.w/ps \$300, CUBIC ASTRO 150A, 100w 10-160m ext ps \$300, Kris W6KTE 760-941-3555.

(8.1) !COM-756 PRO II HF/6m all mode, Like New in original box. Manual and accessories included. A real Bargain at \$1,750, Allan AE6AN (w) 858-566-9829 (h) 858-481-1880

(8.2) Cushcraft MA5B 5 band mini HF beam. Never installed, partially assembled/painted, \$250. Force 12 Sigma 5 portable multi-band vertical, used very little, \$125. Spider HF multiband portable/mobile, with attachment claw, \$50. Hustler mobile with 17, 20, 40M resonators, \$40, 2M mag. mount, \$5. W3LFR, 858-774-0733 days, 858-780-9593 eves.

(8.3) Hallicrafters HA6 (6 Meters Transverter) \$30.00, Cushcraft AR-2 2 Meter Ringo Antenna \$15.00, Knight Kit R55a Receiver \$45.00, Knight Kit Span Master Receiver \$35.00. Jerry Kopack, KF6MYE 760-436-6238 or JKopack@DIRECPC.COM

(8.5) FREE - QST 1994 to present. Ivan, W6TET (858) 273-0219

(7.1) Yaesu VX-5 for sale. Like new. I have programmed in all of the S. D. repeaters I know. For scanning I also programmed the aircraft freq's and the Boating channels. Still have the box etc. \$200.00 firm. K6ROQ - - Paul

(7.4) Astron AS-7 Power Supply \$20.00, Celestron C8 Catadioptric Telescope with Heavy Duty Tripod, Planetary motor drive, X2 Barlow Lens - Spotting Scope w/manuals & misc oculars \$800.00, 2 B&W security monitors (New) \$10.00 each, Galaxy Electronics Phone Patch PR550 w/manual \$25.00, Cushcraft R-7000 Vertical \$140.00,

(Continued on page 7)

(Continued from page 6)

Panasonic Stereo Earphones Model RP-HT12 (New) \$3.00 each, Panasonic Super Compact Blank Video Tape ST-C30 (New) \$3.50 each, Tape Head cleaners, Camera power supply's ETC., other items too numerous to list. Micronta Large display clock w/battery backup \$15.00, Miniature TV Camera \$30.00, Treadmill ¼ HP \$60.00, Avenger 4000 Commercial alarm system, 6 PIR's Digital Pad, Ultrasonic, 2 Sirens, \$200.00. Realistic DX-400 General Coverage Receiver – digital Tuning \$100.00, Rotating Amber 12 volt Emergency Vehicle Light, \$20.00, Contact K7DCG @ 858-748-9046 or K7DCG@ARRL.COM.

(4.25) ICOM 703 HF/50 All Mode, \$450 (New), Alpha Delta Kent Morse key twin Iambic Paddle TP1, \$75, MFJ 1644 Portable Screwdriver Ant., 80-6m, manual, \$50, Carl, N6HLY, 858-484-3590

(9.13) SG-2020 ADSP2 Transceiver, in super shape (10+) - looks new, very low hours. Not a scratch or mark on this rig. This is the latest SG-2020 model which came with the ADSP2 factory installed. In original box, with microphone, power cord and user manual. Price \$430. Contact Bernie N6FN at n6fn@niftyaccessories.com or 760-746-7411

(9.13) IC-703P QRP Transceiver, in super shape (10+) - looks new, very low hours. Has only been used desktop, never mobile. This is the Plus model with 6 and 60 meter capability. In original box, with microphone, user manual and the bag of misc. adapters unopened. Price \$500. Contact Bernie N6FN at n6fn@niftyaccessories.com or 760-746-7411

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ARES Alert Publication

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Tom's Hiker's - KF6PAZ

<http://www.fanciful.org/san-diego-hiker>

Echolink

<http://www.echolonk.org>

IRLP

<http://www.irlp.net>

Treasurer \$\$,\$\$\$

Jo Ashley **KB6NMK@amsat.org**
Balance Sheet as of August 31, 2004

Assets	
B of A Checking	\$3,033.47
CD	\$2,705.32
CD	\$3,419.87
CD	\$2,854.30
CD	\$2,854.30
Post Office	\$97.93
Total	\$14,965.19
Liabilities	
Pre-Paid Dues	\$7,716.00
Property Insurance	\$1,800.00
Total	\$9,516.00
Equity	\$5,449.19
Total Liabilities & Equity	\$14,965.19

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09/28/2004

VoIP and Amateur Radio

Reprinted with permission of the author Steve WB8IMY and the ARRL.

An increasing number of amateurs are putting the Internet to work as a bridge for long-distance voice communication. Discover what the Voice Over Internet Protocol buzz is all about!

From February 2003 QST © ARRL

Voice Over Internet Protocol, better known as VoIP, is not new. People have been enjoying voice communication over the Internet for years. What is new are the latest Amateur Radio applications of VoIP. Rather than relying on ionospheric propagation for long-distance communication, a growing number of hams are using the Internet in combination with VHF or UHF FM transceivers to span hundreds or thousands of miles.

There are several flavors of amateur VoIP in use today. Depending on how they are configured, these systems may involve *repeater linking* where two distant repeater systems share signals with one another (Figure 1). Another application is so-called *simplex linking* where one or more users with handheld or mobile transceivers communicate directly with a "base" station (or *node*) that is linked to the Internet (Figure 2). The one element that all amateur VoIP systems have in common is that the Internet acts as the relay between stations.

The appeal of amateur VoIP is easy to understand. Technician licensees without access to HF can use these VoIP systems to enjoy a kind of "Internet-aided" DXing, having conversations with other hams far beyond the range of their FM transceivers. General and Amateur Extra hams without HF stations at home can also benefit from VoIP in the same manner.

Let's take a brief look at a few of the current incarnations of Amateur Radio VoIP.

EchoLink

EchoLink was developed by Jonathan Taylor, K1RFD, in early 2002. In an astonishingly short period of time, EchoLink has become one of the dominant Amateur Radio VoIP systems with more than 30,000 users worldwide. The free EchoLink software for *Windows* can be downloaded at www.echolink.org

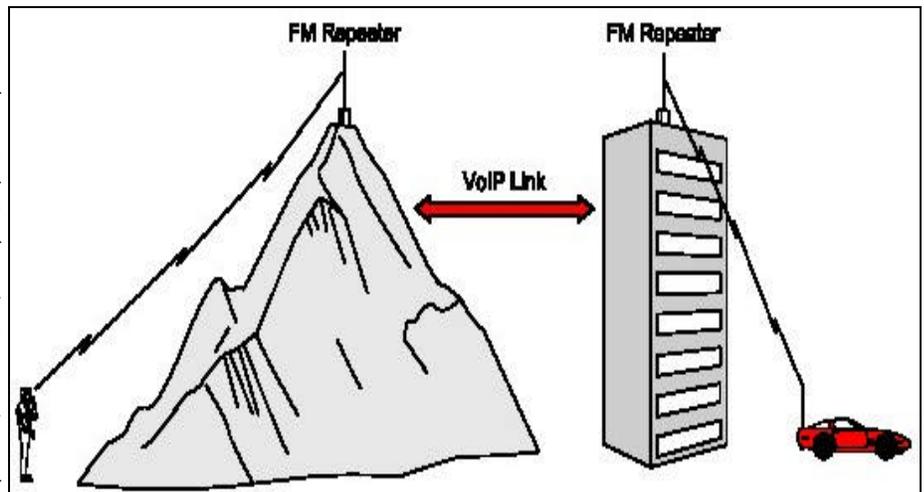


Figure 1—Two FM Repeaters Linked VoIP

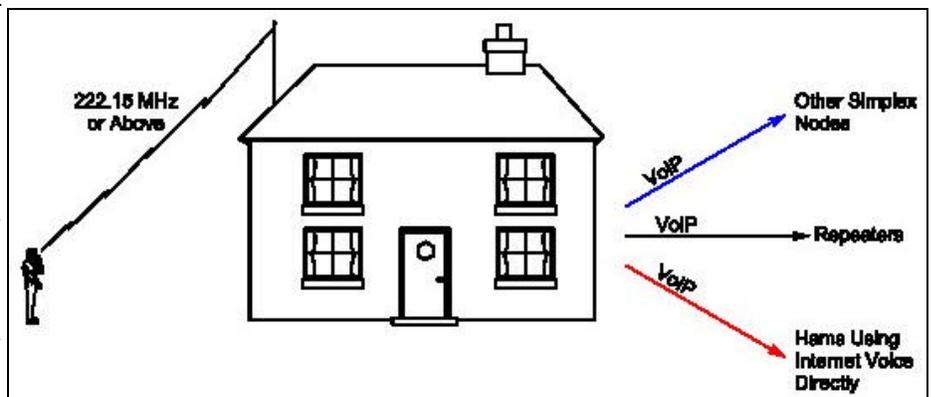


Figure 2—A diagram of a VoIP simplex node. If a control operator is not physically present at the station location and the node is functioning with wireless remote control, the control link must operate above 222.15 MHz. See the sidebar, "Is It Legal?" in next month's SCOPE.

When you start the EchoLink software, your computer taps the Internet to connect to an EchoLink server. Before you can make your first connection to the network, your call sign must be verified with the information in the FCC database. This can take minutes or hours, depending on the state of the system, but it helps reduce the chances of nonhams entering the EchoLink network.

Once you're validated (you only do this once), the rest is

(Continued on page 9)

(Continued from page 8)

easy. The EchoLink server acts like a telephone switchboard in cyberspace. It maintains a directory of everyone who is connected at any moment. After browsing the directory, you can request a connection between your computer and that of another amateur.

Here's where it becomes interesting. The ham on the EchoLink receiving end may be sitting in front of his computer with a headset and microphone. Or he may have his computer connected to a base radio at his station that is acting as an RF relay to a handheld transceiver or mobile rig. Or the destination station may be part of a repeater system. In any case, once the connection is established, anything you say will wind up being heard in the other amateur's headset, or transmitted over the air.

At your end of the EchoLink connection, you may be the one wearing the headset, or using a simplex connection to your base radio, or using a repeater. When you connect to an individual station, the custom is to call in the same fashion as you would during a traditional on-air conversation: "W1ABC from WB8IMY." Or if you are connecting to a distant repeater system: "WB8IMY, Wallingford, Con-Connecticut." (You need to hesitate about 2 seconds before speaking to compensate for the delay.)

The EchoLink servers also support *conferencing* where several amateurs can converse in roundtable fashion. There are even EchoLink nets that meet within these conference areas on a scheduled basis.

EchoLink Setup

To run EchoLink you'll need a PC with *Windows 98/2000/XP* and a sound card. The software is easy to set up. A "wizard" function guides you through each step.

If you want to enjoy EchoLink conversations while sitting at your computer, you will need a microphone headset. These are commonly available from several *QST* advertisers as well as RadioShack. The microphone plug attaches to the microphone input jack of your sound card and the headphone plug typically attaches to the SPEAKER OUT jack. In addition to setting up the EchoLink software, you may also need to adjust your sound card VOLUME and RECORDING control settings in *Windows*.

If you plan to connect a radio to your computer so that you can use EchoLink over an RF link, you'll need an interface. The strong enthusiasm for EchoLink is driven by the fact that it does *not* require a specialized hardware interface for connections to transceivers. All timing functions and DTMF decoding take place within the EchoLink software. This means that you can enjoy EchoLink with the radio of your choice by using common sound card interfaces such as those sold by West Mountain Radio (the RIGblaster folks), MFJ, TigerTronics and others. If you are already operating PSK31, RTTY, SSTV or similar modes with a sound card interface, you can become an EchoLink operator by simply downloading and installing the software—no additional hardware or cable connections required.

There are also hardware interfaces specifically designed with VoIP in mind. Check out the ULI (Ultimate Linking Interface) from James Milner, WB2REM, at www.ilinkboards.com. The ULI works with VoIP as well as the various Amateur Radio digital modes. It also offers built-in computer control of your radio. You can change frequencies, for example, by issuing commands on a remote UHF link, or via the Internet. It even allows remote rebooting of the station PC.

Also take a look at the multimode interface board designed by VA3TO. You'll find it on the Web at www.ilinkca.com.

**Article to be continued in future Editions of
Scope. CoveringIs it Legal? eQSO, IRLP, Ilink,
and WIRES**

CQ CQ CQ Jamboree de ...

From 00:01 local time Saturday through 23:59 Sunday, October 16th and 17th, Scouts, guided by Hams will be talking to other scouts worldwide. It's called Jamboree-on-the-air (JOTA.) The name is from the epic scout campout called Jamboree where thousands of scouts gather in one place. In the U.S. this happens once every four years at Fort A. P. Hill, Bowling Green, Virginia. Other countries hold their own Jamborees in different years. JOTA, on the other hand, takes place every year. That place is the entire Ham operating spectrum. Try frequencies around: 3.74/3.94, 7.27, 14.29, 18.14, 21.36, 24.96, and 28.39 (MHz). There you will hear Scouts having their first QSOs. Hopefully, with your help, these QSOs will be the first of many.

JOTA is an opportunity to promote your hobby by relating it to Scouting. You might wonder "What does Ham radio have in common with Scouting?" The answer, goals. Merit badges motivate kids to expand their interests and set goals. If you would like to know what merit badges are all about, check out www.meritbadge.com. In addition to RADIO, you will find the MB requirements for electronics, emergency preparedness, public speaking, and safety, to name a few. So you have a lot to offer. The question is how do you make it happen?

Here are a few suggestions. First, reach out to Scouting sponsors, I.E. religious or civic organizations. If you or a family member belongs to a Scout unit or its sponsoring institution you have a foot in the door. Second, have a plan i.e. when, where, who. Keep it simple and keep it short. Look on the ARRL website under "JOTA" for helpful information. Third, be aware of the BSA rule that at least two adults be present. Forth, remember, kids are kids...don't expect too much. Scouts will test you. Some kids are more active while others have difficulty speaking and most experience "mike fright". Just remember when you were

(Continued from page 9)

young and have fun.

Hopefully, I'll be camping with Oceanside Boy Scout Troop 787 and looking forward to hearing all of you respond to "CQ Jamboree".

73, Fred, AE6IC

PARC Hiker's Net News

By Bernie – N6FN

Backpacking

In mid August, John-KT6E, Jeff-KG6AXR and myself took an extremely scenic and interesting backpack trip in the High Sierras.

Because of a shortage of wilderness permits for the area we wanted to visit, we enlisted the help of Ken Babione-KF6RAD, a friend of Ed's-W6ABE who now lives in Bishop, to help us get the required permit. After driving North on 395, our first stop was to the Bishop Airport to retrieve the permit from Ken. We had a nice breakfast while visiting with Ken at the airport's restaurant. Ken says its one of the best places in town to eat.

In spite of frequent rainstorms, hail and lightning we had a truly great trip -- rugged but great! Our entire trip was above 10,000 feet; the high alpine scenery was unbelievable. We climbed two mountains and visited over a dozen glacially carved lakes.

One night it hailed enough to cover the mountain peaks above us, it looked as if it had snowed. While attempting to use my VX-5R on top of one of the mountains, high voltage corona crackled off the antenna, indicating the very real possibility of a lightning strike. Then...

For the full story and photos visit <http://members.cox.net/bernie-n6fn/>

Hiking

On Saturday, September 11, Al-W6GNI, his daughter Julie, Stan-W9FQN and I made a short day hike to the top of Bernardo Mountain, which is near Lake Hodges. There are great views from the summit and while on top we used our HT's to make contacts with several local hams, one of course was the ever-present AC6V.

Kayaking

For the last several months, a number of local hams and friends have been showing up just about every Thursday evening for the Mission Bay social paddle hosted by Aqua Adventures, located at Quivira Basin. These are very pleasant outings. Either bring your own boat and go for free, or rent one of their kayaks for the evening for \$15.

A few weeks ago we had 10 paddlers from the hiker net group: John-KT6E, Jeff-KG6AXR, Julie-KG6BPP, Mike-W6MBM, Stan-W9FQN, Bernie-N6FN and four others who are non-hams. With the additional 25 or so who also showed up, we ended up with 35 or more people kayaking together that evening.

With shorter days, it now gets dark about half way through the paddle. Kayaking after dark is a unique experience. It's quite beautiful to see the clouds lit up at sunset and all the lights reflecting off the water.

Come out and join us. You don't need prior paddling experience. Email me for more info at n6fn@niftyaccessories.com or visit the Aqua Adventures web page <http://www.aqua-adventures.com/store/>

At the end of July, Stan-W9FQN volunteered to accompany one of the swimmers for the 5-mile rough water swim off of La Jolla Shores. For safety reasons each swimmer needed to be accompanied by a kayaker. Stan managed to get through the surf without capsizing, even though several others did not. With all the swimmers

(Continued on page 11)

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(Hiker's Net News Continued from page 10)

churning through the water, the start of the race was chaotic. Locating his swimmer in the thrashing "herd" was a bit difficult. But Stan found his man, staying with him the whole race. While on the water, Stan was able to use his HT, contacting his wife-KA6FPS while she was mobile on I-8.

Why not join us for the Friday 9 pm Hiker Net on our 146.730 machine? We generally discuss trip ideas, reports of recent trips and any other outdoor topics that might come up. The net is open to all and new participants are always welcome.

(Minutes Continued from page 4)

with Palomar Mountain authorities to see what if any rules, regulations and or permits relating to containers may be required.

Steve, AD6VI brought up the topic of a formal, written policy on repeater usage during an emergency for PARC. There was a brief discussion, and the general agreement that a written policy may be required. Dick, K6KAL reported that the ARRL Club was contacted to see if an outline of such agreements are available and has not received a response.

Merle, KR6BT reported that the Picnic is confirmed for Sept 25th at Lake Dixon. Cooks have been lined up, and there will be a Chill Cook off. Merle, KR6BT polled the board for the place where the Gift Certificates are to be purchased from and questioned the denominations. Dennis, KD6TUJ moved that Fry's be the store, and was seconded by Steve, AD6VI. The motion carried.

The election for the board members for next year is near, and several of the current board members will be approaching the membership to get volunteers to serve on the nominating committee.

Old Business

Steve, AD6VI will arrange to post auction notices at HRO.

Jo, KB6NMK indicated that the clubs liability insurance premium is due, and will arrange payment.

New Business

With the recent interference by K0JPK repeater with ours on the same frequency, Charlie, NN3V has written TASMA requesting all available information as to the frequency coordination of the 146.730 machine. Dick K6KAL will review the club records for documentation relating to the coordination. The collecting of all available documentation is the first step in resolving this interference problem.

Membership report

Al, W6GNI notes that the club now has 429 members.

Repeater Technical

Mike, KD6VHI reported that the batteries have been configured in a 48 volt string, and are working well. All repeaters are functioning within nominal parameters.

Repeater Site

The site report and status was discussed along with the duties of the site Chair.

Next Board Meeting

The October board meeting will be held at the home of Charlie, NN3V at 7:00 PM on October 13th.

Steve ,AD6VI made the motion to adjourn the meeting, and was seconded by Dick, K6KAL. The meeting was adjourned at 8:40 PM.

Respectfully submitted,
Dick Kalkofen, K6KAL, Secretary

October meeting will be:
"Annual Auction"

PARC Testing

Carlsbad - 2nd. Saturday at
9:30 am in the Carlsbad
Safety center.

Contact Rusty **AA6OM**
760-747-5872 or
dunedancer@cox.net

EARS Testing

Escondido - LAST Saturday
at 9:00 am Fire Station #1
Escondido Fire Department
310 North Quince Street
Escondido, CA 92025

Contact Harry **W6YOO**

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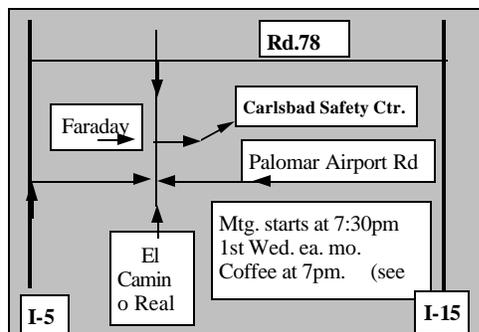
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Palomar Amateur Radio Club

Volume XXXI No. 11

November 2004

November Meeting Handyhams

We are honored for a presentation on the subject of "Handyhams". Have you ever considered how ham radio allows handicapped people to enjoy the benefits of the hobby, and a window on the world non-handicapped enjoy? Come and learn about yet another facet of ham radio of which many of us are unaware, and that means so much for the handicapped members of our hobby. The presentation will be made by KG6FIX (Marc) who is a handyham, and a PARC member.

73 de NN3V

Inside this issue:

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President's Message

Please accept my **heartiest wishes for a joyous Thanksgiving**. It is amazing how quickly time has passed since the dawn of the New Year, and we are now ready to start that most enjoyable season of family traditions. Please take a moment to enjoy all that is around you. Family, friends, and the friendship of ham radio.

Did you make it to the PARC auction? I hope you left with at least one treasure! If not, then I sincerely hope you were at least able to attend the auction and enjoy the camaraderie and fun we always have during the event. We all owe a tremendous debt of gratitude to KC6UQH for his invariably superb and enjoyable performance as the auctioneer. Having been a member of several ham clubs across the

country, and having enjoyed similar events at each club, I can assure you there are few people around who can have so much fun selling other people's "junk" as new owners' treasures. WELL DONE ART!

Did any of you notice that Scope transitioned to our new editor without a whimper? **Nicely done Michelle (W6MYP), and the crew who made the transition a painless event.**

On behalf of all the Club's members, Michelle please know we appreciate your service ensured the uninterrupted availability of "Scope" which is such an important part of the Club's activity.

As mentioned at last month's meeting, the PARC Board Of Directors ap-



pointed a Nominating Committee to search for candidates to run for election to PARC officers, and the Board Of Directors for the 2005 Calendar Year term. The nominating committee consists of KC6UQH (Art), WN6K (Paul), AC6V (Rod), and NN6X (Paul). This is a great opportunity for PARC members wishing to add their influence to the way PARC operates. **If you are imbued with the**

(Continued on page 2)

Repeater Interference

Over the past 2 months several PARC members have questioned what can be done about the recent increased interference on our repeaters, principally the 146.730 MHz repeater. The preponderance of the complaints or comments heard on the 146.730 repeater are associated with other repeaters in the So Cal area, and a potential that they are not well coordinated.

The PARC Board initiated an inquiry into past coordination of the 146.730 MHz repeater frequency. The inquiry revealed that TASMA (charged with coordination of SoCal 2 meter repeaters) has a fragmented set of records regarding our 2 meter repeaters, and the Club's records, while far more comprehensive than those available to TASMA, also show uncertainty as to the precise

coordination directions that may have existed some 15 or so years ago.

The Board is interested in resolving any interference issues through the normal resources available to ham operators, as governed by FCC Part 97, local coordination organizations, and the simple rule of amateur courtesy.

(Continued on page 7)

(President's Message Continued from page 1)

spirit of volunteerism, now is the time to act with alacrity and contact the nominating committee in order to be among nominees for office.

The salary for the positions is impressive, and the privileges are unique!

More or less in parallel with the November Presidential elections, but certainly without the euphoria of the Presidential shouting matches (debates), PARC elections will take place at the December meeting. Make sure you vote well (and do not vote often!). KC6UQH guarantees there will be no Chad issues in our elections!

Please come to the November meeting prepared to spend a few minutes chatting about our December meeting. Our December meeting is traditionally dedicated to the spirit of the season, and to a celebration of the very American tradition of Christmas. Some of you have asked that we spruce this event up a little. Would you like to have some fun? Perhaps PARC should consider some innovative ways of celebrating the season amongst our members. I know there are some exceptional treasures waiting to be exchanged for Christmas, and maybe have a blind gift exchange hoping to also enjoy some silliness in the process.

Last but not least, please read elsewhere in this Scope the effort the PARC Board Of Directors is starting I order to document repeater performance. Your assistance will be valuable.

73 de NN3V

P.A.R.C. Inc (2004 Board)

Pres: Charlie Ristorcelli **NN3V**
858.676.3307 NN3V@amsat.org

VP: Dennis Baca **KD6TJ**
760.722.0251 KD6TJ@amsat.org

Sec: Dick Kalkofen **K6KAL** 760.519.0670
K6KAL@amsat.org

Treas: Jo Ashley **KB6NMK**
760.741.2560 KB6NMK@amsat.org

Dir#1: Merle Risdon **KR6BT**
760.941.0213 KR6BT@amsat.org

Dir#2: Steve Early **AD6VI**
619.461.2818 AD6VI@amsat.org

Repeater Site:
Michelle Thompson **W5NYV**
858.229.3399 W5NYV@amsat.org

Membership:
Al Donlevy **W6GNI**
760.630.3096 W6GNI@amsat.org

New Member:
John Earnest **KG6EQU**
858.484.8579 KG6EQU@amsat.org

Repeater Technical:
Mike Doyle **AB6QT**
760.742.1573 AB6QT@amsat.org

Contest Coral

Nov 6 ARRL Sweepstakes, CW
Nov 6 Ukranian DX Contest
Nov 6 Collegiate Club Contest, CW
Nov 7 DARC 10 Mtr Digital Contest
Nov 13 WAE DX Contest, RTTY
Nov 13 Japan International DX, SSB
Nov 13 OK/OM DX Contest, CW
Nov 20 ARRL Sweepstakes, SSB
Nov 20 LZ DX Contest
Nov 20 Austrian DX Contest, 160 Mtr
Nov 20 Collegiate Club Contest, SSB
Nov 20 RSGB 2d 1.8 MHz Test, CW
Nov 27 CQ WW CW Contest
Dec 2 ARCI Top-Band Sprint
Dec 3 ARRL 160 Meter Contest
Dec 4 TARA RTTY Melee
Dec 11 ARRL 10 Meter Contest

What you see is what you get: A little bit of everything. CW, SSB, RTTY, Top Band, you name it. You can tell the days are getting longer with the increase in 160 meter activity. Don't miss the ARRL Sweepstakes, it's always lots of fun. All 50 states and 8 Canadian provinces will be on and the challenge is to make a "clean sweep", that is to work at least one station in each. No matter how many Q's you rack up, it's not for sure that you'll collect all 58 multipliers. Complete rules are in QST, CQ, NCJ, and Worldradio magazines. CU in the Contest. 73, Harry/W6YOO

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PARC Trustee: AB6QT

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146.730-, 147.075+

***147.130+, *447.000-**

PKT:

145.050s (PALOMAR/W6NWX -1)

146.700- (Duplex Pkt) PALBBS/EMG

use

145.070/146.7- (W6NWX-3/PALBBS)

ATV"IN":

915 wbfm, 2441.25 wbfm

ATV "Output"

1241.25 MHz am

Intercom:

146.415 PL 79.7 nbfm

Affiliated:

***224.38- & *224.94 KK6KD (HARS)**

***447.05- & *145.26 KK6KD (HARS)**

***146.175+ N6FQ(Fallbrook ARC)**

Linked to

***445.600 MHz (-)**

***224.90- WD6HFR (Corvair/220 ARC)**

446.14- WB6FMT (123.0) Vista

*** = 107.2 Hz PL Tone**

Committee Chairpersons

ARESinfo	Dennis S	K7DCG@amsat.org
Attendance	Al	W6GNI@amsat.org
ATV	Art	KC6UQH@amsat.org
Auction		AD6VI
Badges new	Al	W6GNI@amsat.org
Batteries	David	KD6EBYDAT@Gerry.Palomar.caltech.edu
BBS Monitor	Bill B	N6FMK@amsat.org
Billing:Ads/etc	Lyell K	K6GVM@arrl.net
Contest Info	Dennis V	N6KI@amsat.org
Control Ops	-filled	N6NWX @amsat.org
Del Mar Fair		
Emergency QTH's (Emergency Com Centers)		
Harry H	W6YOO	W6YOO@amsat.org
Dennis V	N6KI	N6KI@amsat.org
Field Day	Charlie R	NN3V@amsat.org
Field Day Tech	John K	WB6IQS @amsat.org
Inventory	Dennis B	KD6TUJ @amsat.org
New Members	John E	KG6EQU@amsat.org
Nets		
Newsletter	Michelle P	W6MYP@amsat.org
PALBBS Pkt	Bruno H	KF6QDP@amsat.org
Patch Info	Stan R	W9FQN@amsat.org
PatchETronics	Jerry H	WB6FMT@amsat
Picnic		
Power AC/DC	Mike P	KD6VHI@amsat.org
Programs	Dennis B	KD6TUJ @amsat.org
Publicity		
QSL Cards	Merle R	KR6BT@juno.com
RACES Info	Jo A	KB6NMK @amsat.org
RED Flag		
Repeater Site	Michelle T	W5NYV@amsat.org
Repeater Skeds		
SANDARC		
Seller Table	John K	WB6IQS @juno.com
Assistant SW Div Dir		
Tech Site	Mike D	AB6QT@amsat.org
Testing VE	Rusty M	DuneDancer@cox.net
Training		W6NWX @amsat.org
Trustee W6NWX	Mike D	AB6QT@amsat.org

Net Managers

ARES Sun	Dennis	K7DCG
ARES 6m	David D	KC6YSO@amsat.org
Ham Help Net	David D	KC6YSO@amsat.org
Hiking	Ed	KF6DXX@juno.com
	Glenn P	KE6ZLY@juno.com
MARA	Cathy	KE6IQU W6NWX@amsat.org
Microwave	Kerry B	
Off Road	Jerry A	jwak6pfp@cts.com
	Dick W	KA7AYTrwillimek@home.com
Sailors	Paul	NN6X@amsat.org
	Rod	AC6V@amsat.org
Traffic SDCTN	Charles	N6TEP cmiele@juno.com

de AB6QT

To all PARC Repeater users:
 Please let me know by TELEPHONE 760-742-1573 or EMAIL (ab6qt@amsat.org) if you learn of any of our club repeaters failing to operate. I was made aware during a recent board meeting that the 147.130 repeater had been OFF the AIR for 2 WEEKS!. If I don't know it's broken, I can't fix it!. My Phone number is listed next to my callsign on every issue of the SCOPE under the list of club officers. Thanks!. It has been repaired for now, but the problem is intermittent and I expect it to return.

73 de AB6QT.

Minutes Palomar Amateur Radio Club Board of Directors October 13, 2004

The meeting was called to order at 7:01 PM by NN3V at the home of NN3V.

President, Charles Ristorcelli, NN3V
 Vice President, Dennis Baca KD6TUJ
 Secretary, Dick Kalkofen, K6KAL
 Treasurer, Jo Ashley, KB6NMK
 Director Steve Early, AD6VI
 Director Merle Risdon, KR6BT

Membership Chairman, Al Donlevy, W6GNI
 New Member Ex-Officio, John Earnest, KC6EQU
 Repeater Tech Chair, Mike Doyle, AB6QT
 (by Phone)
 Repeater Site Chair Michelle Thompson, W5NYV

Treasurer's Report of 08/31/2004

Jo, KB6NMK has submitted the Treasurer's Report for review by the board. Al, W6GNI moved that the report as submitted be approved, and was seconded by Steve AD6VI. The motion carried.

Secretaries Report

The minutes were distributed to the board and scope editor. Dennis, KD6TUJ moved that the minutes as distributed be approved, and was seconded by Steve, AD6VI. The motion was carried.

Discussion Items

Dave, KC6YSO made a proposal by email, to update the Preamble as read on all Parc nets. Using a draft copy of the Ham Help Net Preamble to "basically a cleanup of an old copy I have which was dated 9 Jul 96. Abbreviations have been expanded and the Net List updated as best I can." The board will review this update and re-distribute to all Net Control operators when approved by the Board.

There was a discussion of the interference on the 146.730 machine. After a brief review of old documents retrieved from storage, it was agreed to pursue the issue on several fronts. One task will be the collection of specific interference incidents and the other by Charlie, NN3v to draft correspondence to TASMA sharing the old documents we have found, and questioning the status of our last coordination. There will be more information about this published in the Scope.

Another topic was presented by Michelle, W5NYV as an update on the repeater site. To make a long story short, the trees tagged by the forestry service for removal were felled, by a crew she located working in the area on other properties. The other trees were limbed to 10 feet, to comply with new ordinances. She indicated that the club was able to take advantage of a grant

for the chipping work and will follow up on all work performed.

Steve, AD6VI gave a brief review of the Auction, which was well received and a good time had by many. Merle, KR6BT reviewed the Picnic, where a fun time was had, with great weather and a fine location.

Mike, AB6QT questioned the request he submitted for a container for the repeater site to serve as a workspace for repairs and some storage where the trailer once was. Michelle, W5NYV was able to determine that there are no local laws or ordinances that would prohibit 'Small' (20 Ft.) container at the site.

Steve, AD6VI reported that he was able to review our plan to use the "147.075" machine for 'Echo Link'

(Continued on page 10)

<div style="text-align: center;"> <h1 style="font-size: 2em; margin: 0;">HAM RADIO OUTLET</h1> </div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;"> H R O </div>	Tom KM6K Ron N6OMW Jose XE2SJB Bob KA6EKT	KENWOOD <i>rf</i> CONCEPTS DIAMOND US TOWERS KANTRONICS YAESU MFJ, ICOM BENCHER, Inc. HUSTLER COMET AMERITRON	Astron, AEA, OUTBACKER Larsen Antenas TEN-TEC <i>hy-gain, Tri-EX,</i> <i>cushcraft</i> <i>and</i> <i>others too</i> <i>numerous to</i> <i>mention!</i>	Drop in to see our display of working equipment. Find out about Pkt location determining equipment (APRS). Check our complete line of magazines, ARRL books, license manuals, and Bulletin Board with all sorts of goodies listed.
Open: 10a.m. - 5:30p.m. Monday thru Saturday 858 560-4900 or toll free 1-800-854-6046	<i>Ask about our great prices</i>	Directions: On 163, take Clairemont Mesa Blvd. off ramp to East. Stay in right-hand lane. Turn right at stop light. As you are turning right you can see our beams in the shopping center. Travel 100 yds. on Kearny Villa Rd. and U-turn back to shopping area and HRO sign. Be sure to see our equipment in action on real antennas.		

November 2004

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3 Club Meeting	4	5	6
7	8	9	10 Board Meeting	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

If you would like to include information for the calendar, please send an email to:
SCOPE@palomararc.org

Schedule of Events

- November 3—Monthly PARC Meeting
- November 10 Board Meeting

PARC NETS

- Sunday** 0830 146.730 ARES
- Sunday** 1000 146.730 Sailors Net
- Sunday** 2045 146.075 MARA Emergency Services
- Monday** 1915 146.730 RACES Sub-Net
- Monday** 2100 146.730 Microwave Net
- Tuesday** 2100 146.730 Off-Road Net
- 2nd Wednesday** 2100 146.730 PARC Board Net
- Thursday** 1930 147.075 Young Hams Net
- Thursday** 2100 146.730 Ham Help Net
- Friday** 2100 146.730 Hiker's Net
- Saturday** 2000 52.680 6 Meter Ares Net
- Tue/Thu/Sat** 2000 146.730 NTS Traffic Net (SDCTN)

Last Month

Goodie Table



KE6ZLY
 K3PXX
 N6ISC

Glenn
 Terry
 Paul

Club Membership

New Members Joining PARC:
KI4GVB, W6UYW, N6VNW, AE6LT,
 and **KG6QXO.**

Be sure to greet these new members when you see or hear them on the repeaters. In addition, we had 1 reinstatement, and several two-year renewals.

Worry about the time it takes for the deposit of your membership check? We pick up mail from our Post Office Box at least once a week, and the membership list is updated at that time. Checks are generally deposited soon after the monthly club meeting. (Your chance to "play the float!" Please be sure to check your SCOPE mailing label each month, you may find your expiration date has been updated, even before your check has cleared.

Especially watch for the Green "Please renew now" and avoid the dreaded Red "Last Issue" on your label. "Last Issue" means your membership expires within a few days. Al W6GNI

Fold & Staple Crew



KR6BT Merle
 KB6NMK Jo &
 KB6YHZ Art
 W6GNI Al &
 W6YOO Harry
 N6UZH Terri

KG6AEW Bill
 Toby
 K6ML Jim
 Kathy
 KE6DUG Rich

For Sale

(9.10) Hustler Mobile Antenna Mast with resonators for 11, 20, 40, & 80 Meters. \$30. Tokyo Hi Power Manual Antenna Tuner, HC-150 \$75. Wanzer Co "Z" Match Tuner, 300W \$75. Atlas DL-300 52 Ohm Dummy Load (like small Cantenna)

w/cooling oil \$15.00. Low Pass Filter (great for 6 Mtr Ops), Yaesu FL-2100B Linear Amplifier, \$300.00. All From Estate of KF6QQ. Call Harry, W6YOO at 760-743-4212

(9.10) For Sale: 2 each, Kenwood 144 MHz FM Transceivers, Model TM-241A \$100.00 each (they include mobile mounting brackets). 2 each Astron Power Supplies, Model RS-20A, \$70.00 each. 1 Kenwood external speaker for mobile radio, \$25.00 Call Harry, W6YOO, 760-743-4212

(9.3) WWII Military surplus HF receiver, transmitter and power supply (three separate units) to go to a good home or to be salvaged for parts. The transmitter puts out about 30 Watts, and all gear work last time it was fired up. Runs off 115 VAC. Frank Burns W6KGG 723-1792.

(9.4) Wilson Hand Held Mark IV Transceiver. Good radio to monitor channels on. Asking \$25. 4 Element 10 Meter YAGI beam. All stainless hardware with W2 DU beam balun. Like new works great \$75. Please contact Bayard K6GAO 858-755-5507

(9.5) Drake C Line T4CX with DX Eng RF Speech Proc, R4C with all filters and NB, MS4/AC4 Speaker/Power Supply, L4-B 2 KW Amp. Contact Dennis N6KI. N6KI@earthlink.net for details and price 858-271-6079

Personal equipment ads are free to members and could be "bumped" after 3 mo. Make up your ad like the ones below and send to the email address below **before the 18th of each month.**

Commercial Ads in big boxes: \$2/col. inch/mo. We will "squash" your copy to the number of inches bought.

SCOPE@palomararc.org

(9.6) Wilson TT-45 45' Tower, free standing galvanized, raising and tiltover fixture, rotor bracket, \$250. Qubex 4 el. Quad, 10,15,&20m, \$150. HY-GAIN Rotor, w/control and manual, \$100. Remote switch, 6 pos, \$100. SwanLinear 1500Z, 1500w, \$400. Heath Tuner SA-2040w pep, w/manual, \$150, Kenwood 2M TR-7330, w/ARX2 ant. \$200, Astro PS7A ps, \$30. Palomar SWR/PWR meter \$50, 1KW Dummy Load \$10, Swan SWR meter, \$20,

Sigma 5 portable multi-band vertical, used very little, \$125. Spider HF multiband portable/mobile, with attachment claw, \$50. Hustler mobile with 17, 20, 40M resonators, \$40, 2M mag. mount, \$5. W3LFR, 858-774-0733 days, 858-780-9593 eves.

(8.3) Hallicrafters HA6 (6 Meters Transverter) \$30.00, CushCraft AR-2 2 Meter Ringo Antenna \$15.00, Knight Kit R55a Receiver \$45.00, Knight Kit Span Master Receiver \$35.00. Jerry Kopack, KF6MYE 760-436-6238 or JKopack@DIRECPC.COM

(8.5) FREE - QST 1994 to present. Ivan, W6TET (858) 273-0219

(7.1) Yaesu VX-5 for sale. Like new. I have programmed in all of the S. D. repeaters I know. For scanning I also programmed the aircraft freq's and the Boating channels. Still have the box etc. \$200.00 firm. K6ROQ -- Paul

(7.4) Astron AS-7 Power Supply \$20.00, Celestron C8 Catadioptric Telescope with Heavy Duty Tripod, Planetary motor drive, X2 Barlow Lens - Spotting Scope w/manuals & misc oculars \$800.00, 2 B&W security monitors (New) \$10.00 each, Galaxy Electronics Phone Patch PR550 w/manual \$25.00, Cushcraft R-7000 Vertical \$140.00, Panasonic Stereo Earphones Model RP-HT12 (New) \$3.00 each, Panasonic Super Compact Blank Video Tape ST-C30 (New) \$3.50 each, Tape Head cleaners, Camera power supply's ETC., other items too numerous to list. Micronta Large display clock w/battery backup \$15.00, Miniature TV Camera \$30.00, Treadmill ¾ HP \$60.00, Avenger 4000 Commercial alarm system, 6 PIR's Digital Pad, Ultrasonic, 2 Sirens, \$200.00. Realistic DX-400 General Coverage Receiver - digi-

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PACE coax 3 pos sw \$5, DAIWA 2 pos sw \$5, Low Pass filter \$5, CUBIC ASTRO 103 Xcvr.w/ps \$300, CUBIC ASTRO 150A, 100w 10-160m ext ps \$300, Kris W6KTE 760-941-3555.

(8.1) !COM-756 PRO II HF/6m all mode, Like New in original box. Manual and accessories included. A real Bargain at \$1,750, Allan AE6AN (w) 858-566-9829 (h) 858-481-1880

(8.2) Cushcraft MA5B 5 band mini HF beam. Never installed, partially assembled/painted, \$250. Force 12

(Continued on page 7)

(Continued from page 6)

tal Tuning \$100.00, Rotating Amber 12 volt Emergency Vehicle Light, \$20.00, Contact K7DCG @ 858-748-9046 or K7DCG@ARRL.COM.

(10.18) I have a vx-7r with ext antenna and mic for sale for 150.00 can this be put in the scope my ph # is 619-251-6104 Craig Beresh 1 877 777-5492 Team San Diego

(Repeater Interference Continued from page 1)

All of those approaches require that we document the conditions. To do so, the PARC Board requests that members assist us in gathering factual material supporting the concerns expressed concerning interference to any of our repeaters.

To that effect, we've established an email address to receive information that gives us a record of specific interference events.

We ask that any amateur who experiences unusual interference when using any of our repeaters collect data indicating: date of the interference; hour of the interference; frequency and mode that was in use when the interference was experienced; location of the receiver that experienced the interference; specific data about the interference. The latter information should try to describe the kind of interference experienced. For example: complete loss of the repeater signal while knowing a signal remained on the air; intermod sounds; hearing other repeaters on our repeater frequency; etc.

If you desire to assist in collecting this information, the Board requests that such data be sent to the Board.

You may do so either in person at one of the Club meetings, by correspondence to the Club's snail mail address, or through the PARC website by sending email to *the new interference email address that is:* PARCinterference@palomararc.org
73 de NN3V

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Web Pages

PARC's Home Page -

<http://www.palomararc.org>

Rod's - AC6V

<http://www.ac6v.com>

ARES Alert Publication

<http://sanarrl.org/alert.htm>

Tom's Hiker's - KF6PAZ

<http://www.fanciful.org/san-diego-hiker>

Echolink

<http://www.echolonk.org>

IRLP

<http://www.irlp.net>

The Friday "Lunch Bunch" de KA6K

www.KA6K.com

Treasurer \$\$\$\$\$

Jo Ashley	KB6NMK@amsat.org
Balance Sheet as of	August 31, 2004
Assets	
B of A Checking	\$2,244.29
CD	\$2,707.85
CD	\$3,423.21
CD	\$2,858.14
CD	\$2,858.20
Post Office	\$97.93
Total	\$14,189.62
Liabilities	
Property Insurance	\$1,800.00
Total	\$9,382.00
Equity	
Total Liabilities & Equity	\$4,807.62
	\$14,189.62

PARC Testing

Carlsbad - 2nd. Saturday at 9:30 am in the Carlsbad Safety center.

Contact Rusty **AA6OM**
760-747-5872 or
dunedancer@cox.net

EARS Testing

Escondido - LAST Saturday at 9:00 am Fire Station #1 Escondido Fire Department 310 North Quince Street Escondido, CA 92025

Contact Harry **W6YOO**
760-743-4212 or
W6YOO@amsat.org

Register 5-7 days in advance for tests.

de AB6QT

I would like to thank Dan K6NKC for his assistance on Oct 19th at the repeater site. He has shown an interest in learning the technical parts of the equipment at the PARC repeater site. In the past he has been involved with some of the tower work at the site and I look forward to passing on to him my knowledge of the PARC systems.

VoIP and Amateur Radio

Reprinted with permission of the author Steve WB8IMY and the ARRL.

An increasing number of amateurs are putting the Internet to work as a bridge for long-distance voice communication. Discover what the Voice Over Internet Protocol buzz is all about!

From February 2003 QST © ARRL

Continued from October 2004 Scope

Is It Legal?

By Brennan Price, N4QX and ARRL General Counsel Chris Imlay, W3KD

What Part 97 regulations govern VoIP-assisted Amateur Radio?

All of them or none of them, depending on whether you're asking about the "VoIP-assisted" or the "Amateur Radio" part of VoIP-assisted Amateur Radio. Many callers to the ARRL's Regulatory Information Branch over the last few years have focused on the novelty of the Internet when asking questions about the legal uses of certain systems. Such focus is misdirected. Part 97 does not regulate systems; it regulates stations. The Commission doesn't care what a ham has feeding his or her station; it cares that the station—not the Internet, but the station—is properly operated. And all the rules that apply to any Amateur Radio station apply to one that retransmits audio fed to it by VoIP.

Fine, so the Commission doesn't care about the VoIP part. Are there any particular rules a ham considering such an operation should be aware of?

The obvious answer is all of them, but we'll focus on a few that are easy to overlook, particularly for stand-alone, single channel operations. The main points to remember:

- All stations must be controlled.
- Only certain types of stations may be automatically controlled.
- Simplex voice operations do not qualify for automatic control.
- Any station that is remotely controlled via radio must utilize an auxiliary station to execute said control, and auxiliary stations are restricted in frequency. It's not as hard as it sounds. All you have to do is think about the type of station you're operating and how it's controlled. Let's look at a few examples.

Two automatically controlled repeaters are linked via VoIP. Is this legal?

Forget the VoIP linking, because that's the Internet. We're talking about two repeaters. Are repeaters legal? Yes. May repeaters be automatically controlled? Yes. There is no difference between this setup and two repeaters linked by another wired mechanism or by auxiliary stations. Assuming the two linked stations are repeaters, it is difficult to conceive of a situation where a VoIP link would not pass

regulatory muster. The only caveat is that the VoIP software must prevent nonhams from accessing the repeaters from the Internet. The key here is to avoid any configuration that would (1) permit a nonham to key an amateur transmitter without the presence of a control operator, and (2) prevent the initiation by a nonham of a message via an Amateur Station without the presence of a control operator.

Is it permitted to enable automatically controlled simplex nodes?

No. Only certain types of Amateur Radio stations may be operated unattended, under automatic control. This means that there is no human control either at the station location or at a distance. These types of stations are space stations, repeaters, beacons, auxiliary stations and certain types of stations transmitting RTTY or data emissions. Simplex VoIP nodes are neither repeaters, beacons nor auxiliary stations. Presumably, most are within 50 kilometers of the Earth's surface and are therefore not space stations. The VoIP technology implies a voice transmission, not RTTY or data. Therefore, none of the stations that qualify for automatic control describe a simplex VoIP node, and such a station must be locally or remotely controlled (as any Amateur Radio station is allowed to be).

Locally or remotely controlled—what does that mean?

A simplex VoIP node may be locally controlled by an operator who is present at the node. Such a node may also be remotely controlled at some other point, with the operator issuing commands via a wireline or radio control link. If a radio control link is used, it must utilize an auxiliary station, and such stations are restricted in frequency to 222.15 MHz and above (with the exception of the CW, SSB and amateur satellite portions of the 70-cm band). It's this remotely controlled aspect that allows VoIP simplex nodes to operate legally—as long as they are on the right bands.

Let's consider seven scenarios:

- A control operator is stationed and active at the VoIP node on any frequency. This is a locally controlled station, not at all unlike a typical operation on FM simplex. **This is legal.**
- A control operator communicates with and controls a simplex VoIP node with a handheld, transmitting and listening to the node on 223.52 MHz. This is wireless remote control. Such control must be executed by an auxiliary station and 223.52 MHz is an allowed frequency for such a

(Continued on page 9)

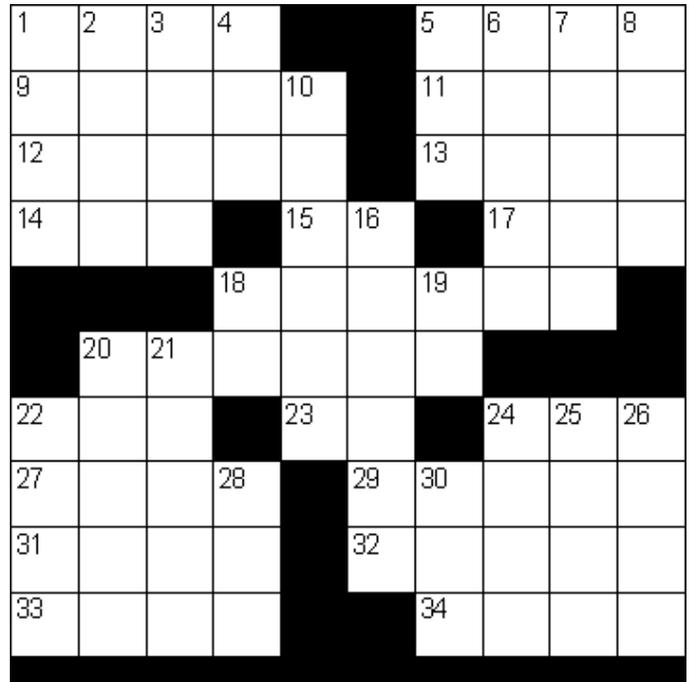
(Continued from page 8)

station. **This is legal.**

- A control operator communicates with and controls a simplex VoIP node with a handheld, transmitting and listening to the node on 147.41 MHz. This is wireless remote control. Such control must be executed by an auxiliary station, but 147.41 MHz is not an allowed frequency for such a station. **This operation is not legal.** It may be made legal by locally controlling the node, choosing a control frequency on which auxiliary station operation is permitted, or controlling the node via a wireline link. The next three examples show each option in action.
- A control operator operates a simplex VoIP node at 147.41 MHz and is stationed at the node's transmitter. User stations access the node on the same frequency. **This is legal.** The VoIP node is being locally controlled, and any station may be locally controlled.
- A control operator operates a simplex VoIP node at 147.41 MHz. The control operator continually monitors the node's transmissions and can call a dedicated telephone line or use a dedicated Internet connection to turn the node on and off. User stations access the node on the same frequency. **This is legal.** The VoIP node is being remotely controlled via a wireline connection, and any station may be controlled in this manner.
- A control operator communicates with and controls a simplex VoIP node with a multiband handheld, transmitting to and continuously monitoring the node on 147.41 MHz. He or she sends power on/off commands with the same handheld on 223.52 MHz. This is wireless remote control. Such control must be executed by an auxiliary station, and 223.52 MHz is an allowed frequency for such a station. **This is legal.** The VoIP node is being remotely controlled via an auxiliary station of appropriate frequency, and any station may be controlled in this manner.
- Same configuration as either of the above two situations, except the control operator does not continuously monitor the VoIP node's transmissions. **This operation is not legal.** When a simplex VoIP node is enabled, it must be continually attended, either locally or remotely. A simplex VoIP node is no different than other FM simplex operations, and such operations may not be automatically controlled.

Participation Points 2003 vs. 2004

In 2004, the total Participation Points earned by club members was 1504. This compares with 1358 earned in 2003. This is encouraging, as there were actually fewer members in 2004. So it is apparent that the members are doing more for the club. At the 2003 Picnic, 37 members signed in, and 456 tickets were given out for the drawing. In 2004, 27 members signed in, and claimed 354 tickets. In each year, a number of family members attended the picnic, but only actual club members signed in to collect drawing tickets. As you can see, the chance of winning something at the drawing at the Picnic is pretty good. Besides, it is a fun function!



- | | |
|--|--|
| Across | Down |
| 1 A Ham Digital Mode | 1 Account (abbr.) |
| 5 Finger feeling after a CW contest | 2 Old west card game |
| 9 Computer memory enhancer | 3 Old wound |
| 11 QRS! horse | 4 1,000,000 millihertz |
| 12 EchoLink is one of the latest | 5 Used for wire sizes |
| 13 An amplifier has this | 6 Gall |
| 14 Telex over radio. | 7 Raise the tower |
| 15 Printed Circuit | 8 USA Ham |
| 17 Mark and Space | 10 A type of ROM |
| 18 Anti blonde | 16 Delete from the log |
| 20 Fall behind in the DX ladder | 18 Bachelor of Music |
| 22 Prepare for triggering | 19 WØ State |
| 23 WØ State | 20 Long Yagi elements tend to do this |
| 24 Also known as a Clari fier | 21 Express emotions |
| 27 VEC Question ____ | 22 Newer Ham Digital Mode |
| 29 The best | 24 Old Ham Digital Mode |
| 31 Reserve Officers Training Corps. | 25 Near Iraq |
| 32 Add | 26 Baby powder |
| 33 Hurried | 28 A type of display propagation in a straight line directly from one station to another. |
| 34 In __ (phase) | 30 |

Crossword courtesy of Rod AC6V

Solution to the puzzle will be available on the PARC Website. www.palomararc.org Anyone that does not have internet access can get the solution in next month's Scope.

PARC Hiker's Net News

By Bernie – N6FN

Hiking Garnet Peak

This month, Ed Butler, KF6DXX posted on the hiker net email reflector that he was leading a day-hike to Garnet Peak, which overlooks the desert, from near Mt Laguna. The email reflector is where Hiker Net members post messages and provide details for upcoming hikes.

Mary, Nance and John, all non-hams, joined Ed on October 9th for the hike. Starting at the Pioneer Mail picnic area, just off Sunrise Highway, they followed the Pacific Crest Trail through the area burned by the Laguna fire of three years ago. Plenty of charred trees near the trailhead bear testimony that it will take many years for the area to recover.

By noon they reached the summit of Garnet Peak, which offers impressive views of the desert and surrounding mountains. While there, Ed gave a brief ham radio demonstration to the group. Nance and Mary bravely made contact with a mobile station in Oceanside using the 146.730 repeater. Needless to say they were very impressed with ham radio and KF6DXX's hike.

Kayaking the Colorado River

In early October, Stan-W9FQN and John-KT6E kayaked through the scenic Topoc Gorge area of the Colorado River. The unusual thing about their trip is that they paddled 22 miles UP-river for two days before turning around and coming back.

Starting at Lake Havasu their intent was to paddle nine miles to the first campsite, but since the paddling was fairly easy in the lake area, they took their time, making side excursions along the way. According to Stan's GPS they paddled 12 miles that day and saw lots of birds, beavers and fish 3 feet long.

The second day was almost a repeat of the first, even though they were out of the lake and under the influence of the river, they made good time allowing for plenty of side excursions. Since the area along both shores is part of a game refuge, and camping is not allowed in the refuge, they had to hike inland beyond the boundary of the reserve to camp each night.

The following morning they got up early and paddled north three miles to Moabi Park, near I40, where they met up with some kayaking friends who they accompanied back downstream for the return trip. Whenever John and Stan were separated, they used 147.555 simplex to keep in touch with each other. Over the three days they had a great adventure, paddling 52 miles.

Hiker Net hams get together every Friday evening at 9pm on our 147.630 machine to discuss trip ideas, reports of recent trips and other outdoor related topics.

The net is open to everyone and new participants are always welcome.

(Minutes Continued from page 4)

with MARA and was well received.

For the Christmas meeting, AL W6GNI will contact some of the vendors that advertise in the Scope to determine if they would be interested in setting up a presentation area at the meeting.

Old Business

There was a review of a request submitted by Steve, AD6VI about a written policy on repeater usage for distribution to emergency service groups. After a brief discussion, no further action was taken at this time.

Mike, AB6QT questioned the progress of Charlie, NN3V and was he able to complete the Trustee documentation for the repeaters. Al, W6GNI had an article on what forms were required, and where they may be obtained. Charlie will follow up.

New Business

There was no new business presented at this meeting.

Membership report

Al, W6GNI notes that the club now has 431 members.

Repeater Technical

Mike, AB6QT reported that progress on the Echo Link project is moving ahead, slowly. Mike will be checking the 147.130 machine, which has had an intermittent problem, which may have rendered it 'off the air'.

Repeater Site

The site report and status was discussed above.

Next Board Meeting

The November board meeting will be held at the home of Merle, KR6BT at 7:00 PM on November 10th.

Dick, K6KAL made the motion to adjourn the meeting, and was seconded by Steve, AD6VI. The meeting was adjourned at 8:25 PM.

Respectfully submitted,
Dick Kalkofen, K6KAL, Secretary

November meeting will feature:
"Handi Ham"

December meeting will be the: "Christmas Social"

POSTMASTER:
Send address changes to:
Palomar Amateur Radio Club
P.O.Box 73, Vista, CA 92085-0073

Periodicals
Postage Pd.
at Vista CA
92085-9998

Scope

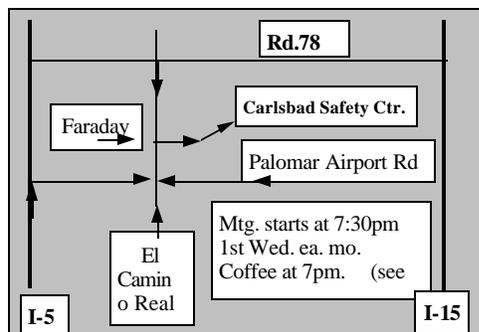
Address Label Here

Palomar Amateur Radio Club Inc.

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Editor: Michelle Poirier W6MYP, 2969 Valley Street, Carlsbad, CA 92008
Scope address for newsletter submissions: **scope@palomararc.org**

146.73-, 147.13+, 147.075+, 447.000-, 52.68-; Pkt 146.7-, 145.05 & ATV, 4 Autopatches



November 2004 Scope Puzzle and Solution

1	2	3	4			5	6	7	8
9				10		11			
12						13			
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31					32				
33						34			

Across		Down	
1	A Ham Digital Mode	1	Account (abbr.)
5	Finger feeling after a CW contest	2	Old west card game
9	Computer memory enhancer	3	Old wound
11	QRS! horse	4	1,000,000 millihertz
12	EchoLink is one of the latest	5	Used for wire sizes
13	An amplifier has this	6	Gall
14	Telex over radio.	7	Raise the tower
15	Printed Circuit	8	USA Ham
17	Mark and Space	10	A type of ROM
18	Anti blonde	16	Delete from the log
20	Fall behind in the DX ladder	18	Bachelor of Music
22	Prepare for triggering	19	WØ State
23	WØ State	20	Long Yagi elements tend to do this
24	Also known as a Clari fier	21	Express emotions
27	VEC Question ____	22	Newer Ham Digital Mode
29	The best	24	Old Ham Digital Mode
31	Reserve Officers Training Corps.	25	Near Iraq
32	Add	26	Baby powder
33	Hurried	28	A type of display
34	In __ (phase)	30	propagation in a straight line directly from one station to another.

Crossword courtesy of Rod AC6V

S	P	E	D		S	Y	N	C	
R	O	T	C		T	O	T	A	L
P	O	O	L		U	L	T	R	A
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			B	R	U	N	E	T	
T	O	R		P	C		F	S	K
C	R	A	Z	E		G	A	I	N
C	A	C	H	E		W	H	O	A
A	F	S	K			A	C	H	Y

Palomar Amateur Radio Club

Volume XXXI No. 12

December 2004

December Meeting:



The PARC Christmas Social

The December program brings us a return of the longstanding PARC Holiday Tradition, the PARC Christmas Social.

Come and join PARC members in a meeting dedicated to celebrating the season, reminiscing the fun events of the past year, and wishing good cheer and fortune in the New Year.

Bring a goody for sharing, and have "an eyeball QSO" with the Club members.

This will also be the event wherein the new slate of Club officers are installed.

73 de NN3V

Inside this issue:

Contest Coral	2
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Committee Chairs / Net	3
Ares Public Service	3
Board Meeting Minutes	4
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Hiker's Net News	8

President's Message

Merry Christmas to all, and from the PARC Board and me a wish that you have a wonderful, safe, and healthy New year 2005.

Is your Christmas wish list complete? It is a great time to drool over the goodies that appear in the many radio catalogs and magazines. Maybe 2005 is the year you return to HF? Remember the fun you had when you started HF operations? The pleasure of not knowing what may result from a "CQ" call on the bands, the accomplishment of working that rare call through the pile-up!

You say you do not remember the sounds of the HF band?

I have a Christmas present for you. A fully functional Kenwood R-5000 receiver with all the antenna

installation you need to enjoy the bands, and not even be seen by your NIMBY neighbors!

Tiger Tek Inc., an information technology company in Salt Lake City, UT, operates a remote receiver site – fully interfaced through the internet - dedicated to radio experimentation and a series of services too numerous to outline here. Basically, you point your browser to <http://www.smeter.net/> and there you will find an absolutely amazing array of HF information, experimentation procedures, and yes – **a remote S meter.**

What is a remote S meter you ask? Well, through your browser you take full control of a Kenwood R-5000 receiver located in Bountiful, UT. Ever wonder what your signal sounds like **at the**



remote end of your contact?

Imagine tuning the remote receiver in Bountiful, UT to the frequency on which you wish to operate, then transmitting from your shack. What you will hear coming back to you over the internet is the remote site's received signal from your station.

Neat, huh!

I make routine use of the capability every time I set up for the various IOOK 40M nets in which I participate since propagation from Poway to

(Continued on page 2)

Thoughts of a Past President

As I look back over these last three years, PARC faced some serious challenges. After Placing 19th nationally and first in Category 5F at this years Field Day, and establishing a New Members Chairperson which are just sum of the achievements of our Club during the last three years. Under President Charlie's leadership the performance of several duties of one man were absorbed into his administration and delegated to a team of volunteers. This has made our Club stronger, and it is a trib-

ute to Charlie and those that served on the Board of Directors for the Past three years.

Since we do not have term limits, the Nominating Committee, as evidenced by their recommendations, provided for the renewal of the board leadership this year. This will provide offer an opportunity for another member to gain experience at the Helm. Very few Past Presidents have served more than three years and the longest a President

served, that I can recall, is 7 years. In my opinion terms greater than three years, can and have caused polarization, dissention, and hard feelings, none of which are in the best interests of either Amateur Radio, or PARC. As a Past President of PARC I have felt the excitement as the captain of at the helm, as well as the sadness in turning over the gavel to someone else. I also know that for the bet-

(Continued on page 7)

(President's Message Continued from page 1)

Salt Lake City on 40M gives me a good idea of how the net is going to be. I transmit, I listen to the remote receiver, and that gives me a fairly good idea of how the net is going to sound for me.

Of course, you can also listen to any frequency and signal the R-5000 is capable of receiving. Likewise, the website contains an amazing array of information about all aspects of radio technology, propagation prediction, antenna design information, etc., etc.

So point your browser to the Tiger Tek site, and enjoy my HF receiver Christmas gift for you.

Merry Christmas and Happy New Year 2005!

73 de NN3V 

P.A.R.C. Inc (2004 Board)

Pres: Charlie Ristorcelli **NN3V**
858.676.3307 NN3V@amsat.org

VP: Dennis Baca **KD6TUJ**
760.722.0251 KD6TUJ@amsat.org

Sec: Dick Kalkofen **K6KAL** 760.519.0670
K6KAL@amsat.org

Treas: Jo Ashley **KB6NMK**
760.741.2560 KB6NMK@amsat.org

Dir#1: Merle Risdon **KR6BT**
760.941.0213 KR6BT@amsat.org

Dir#2: Steve Early **AD6VII**
619.461.2818 AD6VII@amsat.org

Repeater Site:
Michelle Thompson **W5NYV**
858.229.3399 W5NYV@amsat.org

Membership:
Al Donlevy **W6GNI**
760.630.3096 W6GNI@amsat.org

New Member:
John Earnest **KG6EQU**
858.484.8579 KG6EQU@amsat.org

Repeater Technical:
Mike Doyle **AB6QT**
760.742.1573 AB6QT@amsat.org

Contest Coral

Dec 2 ARCI QRP 160 Meter Sprint
Dec 3 ARRL 160 Meter Contest
Dec 4 TARA RTTY Melee
Dec 11 ARRL 10 Meter Contest
Dec 18 MDXA Death March
Dec 18 Czech DX RTTY Contest
Dec 18 Stew Perry Top Band Contest
Dec 26 DARC Christmas Contest
Dec 31 ARRL Straight Key Night
Jan 1 Original QRP Contest
Jan 1 SARTG RTTY Contest
Jan 8 ARRL RTTY Roundup
Jan 8 NA QSO Party, CW

Contests are rather sparse during December and early January; however, all bands are covered as is CW, RTTY, SSB, and QRP so I guess there's something for everyone. See QST, CQ, NCJ, and Worldradio for complete rules. CU in the contest! 73, Harry/W6YOO 

December RACES/ ARES Training

December 11, 2004 at 10:00 AM and will be at the County EOC. The Section Breakfast precedes the training session at 8:00 AM at Giovannis Restaurant, 9353 Clairemont Mesa Blvd (southwest corner of Clairemont Mesa Blvd and Ruffin Rd). This month will be the introduction to their new buffet service. Everyone is invited to the breakfast. W6GDK SDGARES SEC

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e-mail: rfp@rfparts.com

Send for your FREE 2004 Catalog or visit our website.

PARC Repeaters

Palomar Mt. Repeaters (W6NWG)

PARC Trustee: AB6QT

*52.680- W6NWG, -0.5 MHz

Autopatches:

146.730-, 147.075+

*147.130+, *447.000-

PKT:

145.050s (PALOMAR/W6NWG -1)

146.700- (Duplex Pkt) PALBBS/EMG

use

145.070/146.7- (W6NWG-3/PALBBS)

ATV"IN":

915 wbfm, 2441.25 wbfm

ATV "Output"

1241.25 MHz am

Intercom:

146.415 PL 79.7 nbfm

Affiliated:

*224.38- & *224.94 KK6KD (HARS)

*447.05- & *145.26 KK6KD (HARS)

*146.175+ N6FQ(Fallbrook ARC)

Linked to

*445.600 MHz (-)

*224.90- WD6HFR (Corvair/220 ARC)

446.14- WB6FMT (123.0) Vista

• = 107.2 Hz PL Tone

Committee Chairpersons

ARESinfo	Dennis S	K7DCG@amsat.org
Attendance	Al	W6GNI@amsat.org
ATV	Art	KC6UQH@amsat.org
Auction		AD6VI
Badges new	Al	W6GNI@amsat.org
Batteries	David	KD6EBYDAT@Gerry.Palomar.caltech.edu
BBS Monitor	Bill B	N6FMK@amsat.org
Billing:Ads/etc	Lyell K	K6GVM@arrl.net
Contest Info	Dennis V	N6KI@amsat.org
Control Ops	-filled	N6NWG@amsat.org
Del Mar Fair		
Emergency QTH's (Emergency Com Centers)		
Harry H	W6YOO	W6YOO@amsat.org
Dennis V	N6KI	N6KI@amsat.org
Field Day	Charlie R	NN3V@amsat.org
Field Day Tech	John K	WB6IQS@amsat.org
Inventory	Dennis B	KD6TUJ@amsat.org
New Members	John E	KG6EQU@amsat.org
Nets		
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PALBBS Pkt	Bruno H	KF6QDP@amsat.org
Patch Info	Stan R	W9FQN@amsat.org
PatchETronics	Jerry H	WB6FMT@amsat
Picnic		
Power AC/DC	Mike P	KD6VHI@amsat.org
Programs	Dennis B	KD6TUJ@amsat.org
Publicity		
QSL Cards	Merle R	KR6BT@juno.com
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RED Flag		
Repeater Site	Michelle T	W5NYV@amsat.org
Repeater Skeds		
SANDARC		
Seller Table	John K	WB6IQS@juno.com
Assistant SW Div Dir		
Tech Site	Mike D	AB6QT@amsat.org
Testing VE	Rusty M	DuneDancer@cox.net
Training		W6NWG@amsat.org
Trustee W6NWG	Mike D	AB6QT@amsat.org

Questions

Questions about club policy or for more information can be addresses to:

Net Managers

ARES Sun	Dennis	K7DCG
ARES 6m	David D	KC6YSO@amsat.org
Ham Help Net	David D	KC6YSO@amsat.org
Hiking	Ed	KF6DXX@juno.com
	Glenn P	KE6ZLY@juno.com
MARA	Cathy	KE6IQU W6NWG@amsat.org
Microwave	Kerry B	
Off Road	Jerry A	jwak6pfp@cts.com
	Dick W	KA7AYTrwillimek@home.com
Sailors	Paul	NN6X@amsat.org
	Rod	AC6V@amsat.org
Traffic SDCTN	Charles	N6TEP cmiele@juno.com

ARES Public Service Events for 2005

Lake Hodges 50 Km Trail Run	Sat, 26 Feb 2005
I Love a Clean San Diego	Sat, 9 Apr 2005
Special Olympics Basketball	Sat, 16 Apr 2005 and Sun 17 Apr 2005
Lost Boys Trail Run	Sat, 14 May 2005
Special Olympics Greater Games	Sat, 4 Jun 2005 and Sun 5 Jun 2005

The Lake Hodges and Lost Days dates are tentative. The others 'should' be firm.

-Dave
-kc6yso

Minutes Palomar Amateur Radio Club Board of Directors October 13, 2004

The meeting was called to order at 7:15 PM by KD6TUJ at the home of KR6BT.

Present were:

Vice President, Dennis Baca KD6TUJ
Secretary, Dick Kalkofen, K6KAL
Treasurer, Jo Ashley, KB6NMK

Director Steve Early, AD6VI
Director Merle Risdon, KR6BT
Membership Chairman, Al Donlevy, W6GNI
Repeater Site Chair Michelle Thompson, W5NYV

Treasurer's Report of 11/10/2004

Jo, KB6NMK has submitted the Treasurer's Report for review by the board. An amount of \$ 600.00 will be allocated to the property insurance reserve. The board approved the auto-patch payment amount increase from \$ 13.00 to \$ 18.00, to help defray the cost of electricity and phone line costs. Dick, K6KAL moved that the report as submitted be approved and was seconded by Dennis, KD6TUJ. The motion carried.

Secretaries Report

The minutes were distributed to the board and scope editor for publishing. Al, W6GNI moved that the minutes as distributed be approved, and was seconded by Steve, AD6VI. The motion was carried.

Discussion Items

Dennis, KD6TUJ located some additional materials in the storage relating to the club repeaters. They were old copies of 'Repeater Directories' showing

the locations of repeaters as of the dates of publishing. This material will be added to the data being collected for TASMA.

Jo, KB6NMK presented a letter most of us received from ARRL for 'Spectrum Defense fund'. After some discussion, it was agreed to send \$ 100.00 on behalf of the club.

Al, W6GNI reported on his efforts to invite the advertisers from the scope to set up displays at the Christmas Social. His invitations were not warmly accepted, and the overall response was less than expected.

There was a brief discussion as to the 'Ad rates' the club charges for the scope, and although the membership is down, it was agreed the rates should remain the same.

There was a review of the number of brochures available for distribution, and it was agreed to arrange the printing of 100 new ones.

Old Business

Michelle, W5NYV has begun to put together a draft for a policy on the repeater usage during an emergency, and will present it at a future board meeting. Dennis, KD6TUJ gave a brief update on locating a 'Container' for the repeater site.

New Business

Steve, AD6VI began to layout a 'club calendar' of known activities and will forward the items to be published in the scope.

Membership report

Al, W6GNI notes that the club now has 423 members.

(Continued on page 8)

<div style="text-align: center;"> <h1 style="font-size: 2em; margin: 0;">HAM RADIO OUTLET</h1> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;">H R O</div> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; text-align: center;"> Tom KM6K Ron N6OMW Jose XE2SJB Bob KA6EKT </div>	<p>KENWOOD <i>rf</i> CONCEPTS DIAMOND US TOWERS KANTRONICS YAESU MFJ, ICOM BENCHER, Inc. HUSTLER COMET AMERITRON</p>	<p><i>Astron,</i> AEA, OUTBACKER <i>Larsen Antenas</i> TEN-TEC <i>hy-gain, Tri-EX,</i> <i>cushcraft</i> <i>and</i> <i>others too</i> <i>numerous to</i> <i>mention!</i></p>	<p>Drop in to see our display of working equipment. Find out about Pkt location determining equipment (APRS). Check our complete line of magazines, ARRL books, license manuals, and Bulletin Board with all sorts of goodies listed.</p>
<p>Open: 10a.m. - 5:30p.m. <i>Ask about our great prices</i> Monday thru Saturday 858 560-4900 or toll free 1-800-854-6046</p> <p style="text-align: right; font-size: 0.8em;"><small>Dec98</small></p>	<p>Directions: On 163, take Clairemont Mesa Blvd. off ramp to East. Stay in right-hand lane. Turn right at stop light. As you are turning right you can see our beams in the shopping center. Travel 100 yds. on Kearny Villa Rd. and U-turn back to shopping area and HRO sign. Be sure to see our equipment in action on real antennas.</p>		

DECEMBER 2004

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 <i>Christmas Social</i>	2	3	4
5	6	7	8 <i>Board Meeting</i>	9	10	11 <i>Races/Ares Training</i>
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

- December 1—Christmas Social @ Safety Center, Carlsbad
- December 8 Board Meeting
- December 11 RACES/ARES Training

PARC NETS

- Sunday** 0830 146.730 ARES
- Sunday** 1000 146.730 Sailors Net
- Sunday** 2045 146.075 MARA Emergency Services
- Monday** 1915 146.730 RACES Sub-Net
- Monday** 2100 146.730 Microwave Net
- Tuesday** 2100 146.730 Off-Road Net
- 2nd Wednesday** 2100 146.730 PARC Board Net
- Thursday** 1930 147.075 Young Hams Net
- Thursday** 2100 146.730 Ham Help Net
- Friday** 2100 146.730 Hiker's Net
- Saturday** 2000 52.680 6 Meter Ares Net
- Tue/Thu/Sat** 2000 146.730 NTS Traffic Net (SDCTN)

If you would like to include information for the calendar, please send an email to: **SCOPE@palomararc.org** by the 18th of the month

Last Month

Goodie Table



- | | |
|--------|---------|
| KG6RCW | Tom |
| W6YOO | Harry |
| KA6DUH | Dennis |
| W6ASP | Preston |
| K6ISS | Fred |

Club Membership

New Members Joining PARC:

KG6RKX, N2HLG, KB2ECB, KF6JAW, KG6MVO, and N6JAS.

In January we will print the e-mail address of record on the label instead of the expiration date. (A sneaky way of not admitting that I have a Y2K problem with the database program the first month of the year!)

Al
W6GNI

The Board Voted to send \$ 100 to the ARRL Spectrum Defense Fund for the protection against BPL. It is recommended that club members also send what they can afford in addition and mention that they are Palomar Club members.

Thanks, 73, Your 2004 Board

Anita Nye is a Silent Key, her call was KB6YHY. She and her husband Art, KB6YHZ have hosted the Fold, Spindle and Labeling Party for the Scope for many, many years. Every month she made cookies for us and provided coffee or cool drinks as well as doing the labels for one of the large boxes of Scopes. When she could not remember what ingredients went in the cookies they bought cookies for us and Anita still tried to do the labels, sometimes she had to have help. Even when she did not remember who we were, or what we were doing there, she still was her sweet self, greeting us and coming outside to see us off with a hug.

Art and Anita also hosted the Goodie table at the club meetings for many years as many of you will remember.

For Sale

(11.16) I have the following DVD-R discs for sale or trade, they are for DVD Recorders i.e., for recording from TV, Cable, VHS tapes, Camcorder videos. Not computers.

95 OptpDisk, 48 Memorex, 23 Maxell - all bought in the last month. Will sell for 25% off.

Reason is -- I have a Panasonic DVD recorder and the only discs that work are Panasonic and TDK (-) Call Rod AC6V at 760-945-6050 E-Mail rodac6v@cox.net

(11.16) CUBIC ASTRO 150A TRANSIEVER FIX OR MOBILE 10-160M SSB 100WPEP w/PS and Manual \$300, KENWOOD 2M TRANSIEVER MODEL TR-7330 5-25W w/AUTO PATCH MIKE MC-46 w/ARX-2M ANT, MANUAL \$200, ASTRO PSA w/ MANUAL \$25, SWAN LINEAR AMP MODEL 1500Z, 1500 W PEP, w/ MANUAL \$350, HY GAIN ROTOR w/ CONTROL BOX AND MANUAL \$100, REMOTE MOTOR DRIVEN COAX SW 6 POS w/CONTROL BOX \$100, PALOMAR SWR-PWR METER w/MANUAL MODEL M-827 0-200W \$50, SWAN SWR-PWR METER MODEL SWR-1 w/MANUAL \$20, DUMMY LOAD 1KW \$10, B&W G POS COAX SW MODEL CSAGG 1KW \$20, CUBEX 4 EL QUAD 20' BOOM w/QUAD ARMS FIBER-GLASS SPREADERS w/ INSTRUCTION MANUAL \$150, KRIS W6KTE 760-641-3555

(11.16) Cushcraft RF-8 6 Months old \$200Diamond 144/440 Dual band base antenna \$50 you take down. James 722-2797 no8rf@cox.net

(11.16) AN/URM-25D Signal Generator, 10kHz to 50Mhz in 9 bands. With front cover and manual, no accessories. Two Available. \$75 Each Richard W6RLC 619-224-9900

*Personal equipment ads are free to members and could be "bumped" after 3 mo. Make up your ad like the ones below and send to the email address below **before the 18th of each month.***

Commercial Ads in big boxes: \$2/col. inch/mo. We will "squash" your copy to the number of inches bought.

SCOPE@palomararc.org

(11.16) AC-DC Current Calibrator, Valhalla Model 2555A. 0-100 Amps, 0-2V input DC—1 kHz. With Manual. \$40 Richard W6RLC 619-224-9900

(10.18) I have a vx-7r with ext antenna and mic for sale for 150.00 can this be put in the scope my ph # is 619-251-6104 Craig Beresh 1 877 777-5492 Team San Diego

The NiCad Lady Co. O.E.M. Assembly Rebuilds Batteries-Lead Acids Replacement Packs

20585 Camino Del Sol Unit B (909)653-8868
Riverside, CA 92508 Fax (909)653-5189
www.nicdlady.com email: nicdlady@nicdlady.com

(9.3) WWII Military surplus HF receiver, transmitter and power supply (three separate units) to go to a good home or to be salvaged for parts. The transmitter puts out about 30 Watts, and all gear work last time it was fired up. Runs off 115 VAC. Frank Burns W6KGG 723-1792.

(9.4) Wilson Hand Held Mark IV Transceiver. Good radio to monitor channels on. Asking \$25. 4 Element 10 Meter YAGI beam. All stainless hardware with W2 DU beam balun. Like new works great \$75. Please

contact Bayard K6GAO 858-755-5507

(8.1) ICOM-756 PRO II HF/6m all mode, Like New in original box. Manual and accessories included. A real Bargain at \$1,750, Allan AE6AN (w) 858-566-9829 (h) 858-481-1880

(8.2) Cushcraft MA5B 5 band mini HF beam. Never installed, partially assembled/painted, \$250. Force 12 Sigma 5 portable multi-band vertical, used very little, \$125. Spider HF multiband portable/mobile, with attachment claw, \$50. Hustler mobile with 17, 20, 40M resonators, \$40, 2M mag. mount, \$5. W3LFR, 858-774-0733 days, 858-780-9593 eves.

(8.3) Hallicrafters HA6 (6 Meters Transverter) \$30.00, CushCraft AR-2 2 Meter Ringo Antenna \$15.00, Knight Kit R55a Receiver \$45.00, Knight Kit Span Master Receiver \$35.00. Jerry Kopack, KF6MYE 760-436-6238 or JKopack@DIRECPC.COM

(8.5) FREE - QST 1994 to present. Ivan, W6TET (858) 273-0219

(Thoughts Continued from page 1)
 terment of our Club, I must turn over the Gavel, and give the next President of PARC an opportunity to serve. In doing so brought growth to ,PARC, myself, and gave a new President the opportunity for growth. In 2006, PARC will be 70 Years old, a great tribute to all the Radio Amateurs that have collectively served this Club well.

It is my hope that our soon to be President and his board will once again move our Club forward in new and different directions, leading to yet another chapter of growth for the Palomar Amateur Radio Club and its members.

Art, KC6UQH

Nominations were then closed and the recommended slate of the nominating committee will stand for affirmation by vote at the Regular December General Meeting. The new board will take then office at the close of the December General Meeting in accordance with the By Laws of the Palomar Amateur Radio Club, Inc. Having no further business, the Nominating Committee for the year 2005 is disbanded.

Art, KC6UQH
 Committee Member

Treasurer \$\$\$

Jo Ashley KB6NMK@amsat.org
 Subject: Treasurer's Report
 Balance Sheet as of October 31, 2004

B of A Checking	2316.00
CD	2,710.46
CD	3,426.66
CD	2,862.11
CD	2,862.17
Post Office	98.08
TOTAL	14,275.48

Liabilities	
Pre-paid Dues	7,516.00
Property Insurance	1,800.00
TOTAL	9,316.00

Equity	4,959.48
TOTAL Liabilities & Equity	14,275.48

Nominating Committee

On 10/05/04 the Nominating Committee for the PARC Officers and Directors was approved by this years Board of Directors.

The following members of the Nominating Committee are:

- Paul, WN6K
- Rod, AC6V
- Paul, NN6X
- Art, KC6UQH

After several hours of deliberations by e-mail and telephone the Committee arrived at agreement for a slate of Officers and Directors for the Palomar Board of Directors, for the year 2005.

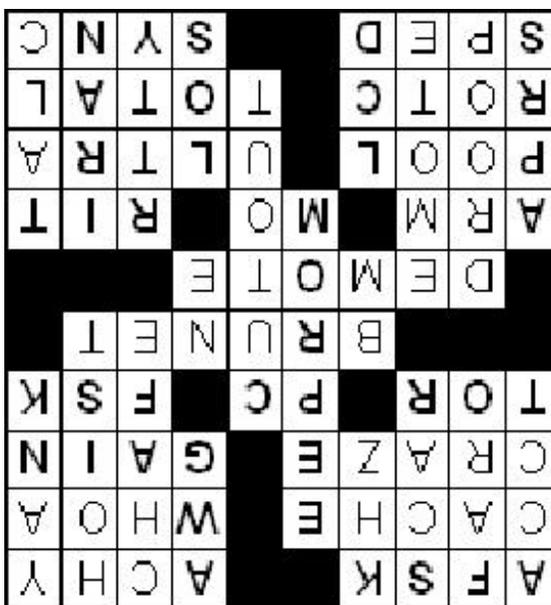
The results were announced at the PARC Regular November General meeting on November 3rd 2004.

- The recommendations are as follows:
- | | |
|----------------------|-----------------------|
| Mark, KF6WTN | Director #2 |
| Tom, KG6RCW | Director #1 |
| Paul, KB5MU | Secretary |
| Jo, KB6NMK | Treasurer |
| Dennis, KD6TJ | Vice President |
| Steve, AD6VI | President |

A motion from Fred K6ISS opened nominations from the General Membership.

None were made.

November's Puzzle Solution



Web Pages

PARC's Home Page -
<http://www.palomararc.org>

Rod's - AC6V
<http://www.ac6v.com>

ARES Alert Publication
<http://sanarrl.org/alert.htm>

Tom's Hiker's - KF6PAZ
<http://www.fanciful.org/san-diego-hiker>

Echolink
<http://www.echolonk.org>

IRLP
<http://www.irlp.net>

The Friday "Lunch Bunch" de KA6K
www.KA6K.com

PARC Testing

Carlsbad - 2nd. Saturday at 9:30 am in the Carlsbad Safety center.

Contact Rusty AA6OM
 760-747-5872 or
dunedancer@cox.net

EARS Testing

Escondido - LAST Saturday at 9:00 am Fire Station #1
 Escondido Fire Department
 310 North Quince Street
 Escondido, CA 92025

Contact Harry W6YOO
 760-743-4212 or
W6YOO@amsat.org

Register 5-7 days in advance for tests.

10 Meter Net

Monday - Friday

8:00 pm Local time

28.340

WA9MTP Dennie in Vista is net control.

PARC Hiker's Net News

By Bernie – N6FN

Hiking Anza Borrego

In mid November Ed Butler, KF6DXX posted on the hiking reflector that he was leading a day-hike to Mine Wash, in the Anza Borrego State Park. Meeting at Dudley's in Santa Ysabel, Michael and daughter, Mary, Nancy and John, accompanied Ed east on 78 to the start of the hike at the Mine Wash Turnoff.

The highlight of the trip was visiting an old Kumeyaay Village site, where Michael's daughter eagerly led the pack in searching for morteros and interesting rocks.

The group had a try at taking compass bearings towards sunset Mountain – getting a favorable correlation with Ed's GPS readings. They also practiced using a small signaling mirror. Ed has a lot of experience with making mirror signaling devices and sending Morse code messages via light flashes.

The 147.240 machine on Monument Peak provides good coverage for much of Anza Borrego Park. The southern section of the park is well covered by the 147.150 Mount Laguna repeater.

Mojave National Preserve

On the same weekend of Ed's hike, Stan, W9FQN and Bernie, N6FN joined a car camp outing, led by Scott from the Outdoors Club, to the Mojave National Preserve. Created by Congress in 1994, the Preserve protects 1.6 million acres of the East Mojave Desert. About three times the size of Anza Borrego, this park is huge. Roughly resembling a triangle, it is sandwiched between I-15 on the North, I-40 to the South and Highway 95 to the East.

Driving out Friday, our first stop was to the "Hole in the Wall" ranger station to pick up maps and other information. After quickly orienting ourselves to the park, we camped at the Mid Hills Campground.

There is much to do in the park, and we just touched the highlights. Our first excursion was to hike via the "Rings" trail to the "Hole in-the-Wall"—with its great rock formations and a slot canyon which requires climbing down a small cliff via rings which have been placed into the rock. We finished the hike by going around the mountain to visit some interesting Indian petroglyphs.

Latter we hiked to Crystal Springs, a steep trail with excellent views, in the Providence Mountains State Recreation area. In the afternoon we toured Mitchell Cavern; the stalagmite and stalactite laden cave is a must see if you are ever in the area.

The following day we visited the Kelso Train Depot which has been carefully restored with the intent of using it as

the Preserve's visitor center. Then we hiked the Kelso Sand Dunes, making our way to the top of the largest dune. Standing on top of the rose colored and windblown summit and then sliding down its face was probably the highlight of the trip.

Pictures from our trip are located at <http://members.cox.net/bernie-n6fn/> The Needles 146.760-, Ludlow 147.885-, Newberry Springs 146.700- and Lake Havasu 146.610- repeaters provide coverage in various areas of the preserve. If you wish to visit the park, log onto www.nps.gov/moja for more information.

Hiker Net hams get together every Friday evening at 9pm on our 147.630 machine to discuss trip ideas, reports of recent trips and other outdoor related topics. The net is open to everyone and new participants are always welcome.



(Minutes Continued from page 4)

Repeater Technical

There was no formal report at this meeting.

Repeater Site

Michelle, W5NYV reported that she will be installing 'Address' numbers at our site to comply with the current regulations as to property labeling. She noted that there is still some 'chipping' work to be completed. The guy wires on the tower appeared to have a slack appearance. She will address the issue this next week with some initial research as to the tension, and arrange a work party to 'take up the slack'. While 'up on the mountain' she will get a status of our 'Echo Link' project from Mike, AB6QT.

Next Board Meeting

The December board meeting will be held at the home of Merle, KR6BT at 7:00 PM on December 8th.

Steve, AD6VI made the motion to adjourn the meeting, and was seconded by Merle, KR6BT. The meeting was adjourned at 8:50 PM.

Respectfully submitted,

Dick Kalkofen, K6KAL, Secretary

December meeting will be the: "Christmas Social"

The nominations from the floor were opened:

There were no nominations from the floor.

Nominations were closed:

Jerry, AK6QJ moved that the nominations be closed, and was seconded by Harry, W6YOO



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146.73-, 147.13+, 147.075+, 447.000-, 52.68-; Pkt 146.7-, 145.05 & ATV, 4 Autopatches

