

A newsletter by and for the Palomar Amateur Radio Club of San Diego, CA, USA.

Reminders

Meeting February 7th



Letter from the President

This year has had a unique start. In January, our scheduled speaker was called out of town at the last minute. Harry Hodges, W6YOO, stepped in with a DVD on the Peter the First Island DXpedition. A crowd that had come to see an Echolink presentation was captivated by this program. As I watched the audience, it occurred to me that virtually nobody left early, fell asleep, or made noise. They were all intently watching the show. Afterward, one longtime member said he would like to see more programs like this. We'll do our best! Our February meeting celebrates PARC's 71st Birthday.

Our program will be on Radio Astronomy, a theme that should fit well with the QRP buffs, as it is all about sensitive receivers and is in line with our namesake. Looking down the road, the March meeting will be our third turn at "I have my license...now what?" This will be a slightly different format than last year so that we stay on schedule. The program will be geared towards new hams, but will also have something for the seasoned amateur operator as well. With the pending change in testing requirements (dropping Morse code) for General and Extra class licenses, PARC is anticipating a need for one

or more General Upgrade classes and perhaps an Extra Upgrade class as well. Keep an eye on the Scope for class schedules and details. The General Question Pool changes on July first, so we hope to have a class by then. Soon April will be here, followed by Gordon West as our presenter in May. June will be a busy month. We will host a special event station on Palomar Mountain to celebrate the anniversary of the Hale Telescope, then Field Day soon after. Start marking your calendars. I hope to see you on February 7th.

Bring a friend!



W6NWG in mid-January 2007h some snow and ice loading on the tower. Photo W5NYV. Designing a tower installation requires consideration of both wind and snow & ice loading. Although some minor damage was sustained in the March of 2006 snowstorm, no damage was noted during the January precipitation.



"The fold and staple crew needs a couple of new members. We get together on the last Wednesday of the month at noon, and get the SCOPE ready for the Post Office.

The meeting place is in Vista, and takes an hour or so. The regulars have interesting conversations, and get the work done quite quickly.

Please make yourself known to Al (W6GNI) at the Membership Table during a meeting if you want to volunteer for this fun and social activity."

2007 International DX Convention

The 2007 International DX Convention will take place April 27, 28 & 29, 2007 at the Holiday Inn Hotel & Conference Center in Visalia, California. This is an ARRL sanctioned convention that is sponsored this year by the Northern California DX Club. It is expected to draw visitors from around the World and will feature programs from recent DXpeditions and contest operations.

The Convention theme this year is, "Elmering New DXers is Job Number One!"

Accordingly, a portion of the programming will be devoted to helping new DXers learn about how to be noticed in a pile-up, snag a "new one" and get that elusive QSL card.

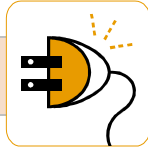
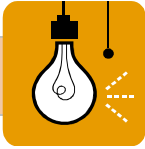
Other Convention offerings will include: DX, Top Band and Contest Forums, technical talks, many door prizes, both Friday and Saturday evening "attitude adjustments", Saturday Barbecue Lunch, Saturday night banquet, Sunday morning "power" breakfast, Vendors Exhibits and QSL card checking.

Current information and registration forms are available on the Convention web page, which can be found at www.dxconvention.org. Additional registration information can be obtained by contacting Convention Registration Chairman, Dick Letrich, W6KM via Email at dlw6km@aol.com.

If you're interested in DX or DXing, the Visalia International DX Convention is the place to be. We hope to see you there.

W6NWX Winter Photos





Club Classified Ads

Personal equipment ads are free to members and could be bumped after 3 months. Make up your ad like the ones on this page and send to SCOPE@PALOMARARC.ORG

Commercial ads in big boxes: \$2/col. inch/month. We will squash your ad copy to the number of inches bought.

(1.22) Avenger 4000 Alarm System. 8-PIR's, 2 Sirens, Numerical Keypad, 5 Zones. \$60.00 OBO contact Dennis K7DCG@arrl.net or (858) 748-9046

(1.22) 3 Kenwood TM-211's 2 meter transceivers. 20 watts, Digital encoded squelch w/manuals \$70.00/ea or \$180.00 for all three. w/SS32 PL's. Contact Dennis K7DCG@arrl.net or 858-748-9046

(1.22) Homebrew copper pipe 220 MHz J-Pole Antenna \$10.00 OBO, contact Dennis K7DCG@arrl.net or 858-748-9046

(1.22) Cushcraft 11 element beam, can be set up for Horizontal or Vertical Polarization. \$20.00 OBO, contact Dennis K7DCG@arrl.net or 858-748-9046

(10.23) Silent Key, WB6CLT - selling all equipment and antenna (new in box). Asking for fair offers. Let your conscience be your guide. Swan: 120 single sideband transceiver; 250C transceiver; ICOM: 1C-V8000 VHF FM transceiver w/antenna; IC-21; Heathkit: Oscilloscope Model 10-17; Frequency Scaler 1B-102; frequency counter 1B-1100; Hybrid phone patch HD-15; SD-610; HW-8 receiver; HWA-7-1 Power supply; HM-21-2 Astron SS30 power supply, Butternut antenna and all attachments Model HF9V still in boxes; Master control center CV89-URA-8A. Most have manuals. Contact Eileen 619 417-3113, 760 788-6345

or inkydew@aol.com

(9.26) For Sale: 2 MFJ Loop tuning Capacitors: One Large, one small. Brand new. Never used. \$70/\$55. Contact Ron, K2RP (760) 436-8109 K2RP@ARRL.NET *

HAM RADIO

Tom KM6K
Ron N6OMW
Jose XE2SJB
Bob KA6EKT



OUTLET

KENWOOD
rf **CONCEPTS**
DIAMOND
US TOWERS
KANTRONICS
YAESU, MFJ, ICOM
BENCHER, Inc.
HUSTLER
COMET
AMERITRON

Astron,
AEA,
OUTBACKER
Larsen Antennas
TEN-TEC
Hy-gain, Tri-EX,
Cushcraft And Others
too
Numerous to
Mention!

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

Directions: On 163, take **Clairemont Mesa Blvd.** off ramp to East. Stay in right-hand lane. Turn right at stoplight. As you are turning right you can see our beams in this 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!

Committee Chairpersons

ARES Info	Tony	KC6YSP
ARES Net	Dennis S.	K7DCC@amsat.org
Attendance	Al	W6GNI@amsat.org
ATV	Art	KC6UQH@amsat.org
Auction	Tom M.	KG6RCW@amsat.org
Badges New	Al	W6GNI@amsat.org
Batteries	David	BK6EBYDAT@Gerry.Palomar.caltech.edu
BBS Monitor	Bill B.	N6FMK@amsat.org
Billing Ads/etc	Jo A.	KB6NMK@amsat.org
Contest Info	Dennis V.	N6KI@amsat.org
Control Ops	Filled	W6NWX@amsat.org
Del Mar Fair	Jim Cooper	NE6O@amsat.org
EmComm	Harry	W6YOO@amsat.org
	Dennis V.	N6KI@amsat.org
Field Day Tech	John K.	WB6IQS@amsat.org
Inventory	Dennis B.	KD6TUJ@amsat.org
New Member	Christy M.	K16AOL
Nets	PARC	Board@palomararc.org
Newsletter	Michelle	W5NYV@amsat.org
Patch Info	Stan	W9FN@amsat.org
Patch Electronics	Jerry H.	WB6FMT@amsat.org
Picnic	Mark R.	KF6WTN@amsat.org
Power AC/DC	Mike P.	K6MRP@amsat.org
Programs	Dennis B.	KD6TUJ@amsat.org
Publicity	Terry R.	K3PXX
QSL Cards	Harry H.	W6YOO@cox.net
RACES Info	Jo A.	KB6NMK@amsat.org
RED Flag	Steve	AD6VI@amsat.org
Repeater Site	Mike P.	K6MRP@amsat.org
Repeater Tech	Mike D.	AB6QT@amsat.org
SANDARC	Jim/Steve	NE6O/AD6VI
Seller Table	John K.	WB6IQS@amsat.org
Testing VE	Rusty	dunedancer@cox.net
Trustee	Mike D.	AB6QT@amsat.org
Web	Paul W.	www.palomararc.org

Contest Calendar

Feb 3	Vermont QSO Party
Feb 3	10-10 Int'l Winter Contest, SSB
Feb 3	AGCW Straight Key Party
Feb 3	Minnesota QSO Party
Feb 3	YLRL YL- OM Contest, CW
Feb 3	Delaware QSO Party
Feb 3	Mexico RTTY International Contest
Feb 4	North American Sprint, SSB
Feb 4	ARCI Fireside SSB Sprint
Feb 5	RSGB 80m Club Championship, SSB
Feb 6	ARS Spartan Sprint
Feb 10	CQ WW RTTY WPX Contest
Feb 10	Asia-Pacific Spring Sprint, CW
Feb 10	KCJ Topband Contest
Feb 10	Dutch PACC Contest
Feb 10	YLRL YL- OM Contest, SSB
Feb 10	British Columbia QSO Challenge
Feb 10	FISTS Winter Sprint
Feb 10	RSGB 1st 1.8 MHz Contest, CW
Feb 11	North American Sprint, CW
Feb 12	ARRL School Roundup (til 2/16)
Feb 14	NAQCC Straight Key/Bug Sprint
Feb 14	AGCW Semi-Automatic Key Evening
Feb 14	RSGB 80m Club Championship, Data
Feb 17	ARRL International DX Contest, CW
Feb 19	Run For The Bacon QRP Contest
Feb 22	RSGB 80m Club Championship, CW
Feb 23	Russian PSK WW Contest
Feb 24	CQ 160-Meter Contest, SSB
Feb 24	REF Contest, SSB
Feb 24	UBA DX Contest, CW
Feb 24	North American QSO Party, RTTY
Feb 25	High Speed Club CW Contest
Feb 25	North Carolina QSO Party

If you can't find something you like in this month's list then you definitely aren't a contester. CU in the contest! 73, Harry, W6YOO

Repeater Information

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 145.070/146.700- (W6NWX-3/PALBBS)
 ATV input: 915 wbfm, 2441.25 wbfm
 ATV output: 1241.25 MHz am
 Intercom: 146.415 PL 79.7 nbfm
 Affiliated: 224.380-, 224.940 KK6KD (HARS) 447.050-, 145.260 KK6KD (HARS) 146.175+ N6FQ (Fallbrook ARC)
 Linked to: 445.600-, 224.900- WD6HFR (Convair/220 ARC), 446.140- WB6FMT (123.0) Vista

† under repair * 107.2 Hz PL Tone

Snow-covered Trees at W6NWG



RF PARTS
COMPANY
From Milliwatts to Kilowatts™

Complete inventory for servicing amateur
and commercial communications equipment

RF POWER TRANSISTORS — TUBES — POWER MODULES

Diodes • Relays • Trimmers • Capacitors • Heatsinks
Transformers • Chokes • Combiners • Wattmeters • Books

3-500ZG • 811a • 572B • 4-400a • 6146B • 8072 • 8560AS
3CX400A7 • 3CX1200A7/D7/Z7 • 3CX1500A7 • 3CX3000A7
4CX250B • 4CX250R • 4CX400A • 4CX800A • 4CX1500B

Merit W6NQ • Gary K6CAQ • Steve K6NDG • Rob WA6GYG • Doug K6DRA

760-744-0700

www.rfparts.com • orders@rfparts.com

RF
Since 1967

Time for a membership survey.

One of the duties of the PARC Board of Directors is to ensure that the Club maintains relevance to its membership and to the Amateur Radio Community. This has been at topic at every Board meeting this year. The biggest questions are: What would our membership like is to provide? And what are the best ways to determine this?

One tool to help this process is the old fashioned survey. So here it is! Instructions for submitting the survey are below.

1) What topics would you like presented at next year's meetings?	
2) Would you like to hear meeting announcements on the repeater?	
3) Would you like a voice Identifier on a PARC repeater?	
4) What can we do to see you at our monthly meetings?	
5) Should PARC sponsor a Car Pool Net for club meetings?	
6) Should PARC offer amateur radio-related training, like Contesting Techniques, Emergency Operations, Antennas 101, etc? If yes – name a topic.	
7) How can we improve our repeaters?	
8) Would you like the Scope by e-mail, or by traditional mail?	
9) What question (s) should we be asking of the members?	
10) How would you answer the question we should ask?	

Please take some time to answer these questions and either bring your responses to the next meeting, or send them to me at ad6vi@cox.net or at 4724 Maple Ave, La Mesa, Ca, 91941.

There is also an online form on our website www.palomararc.org

License and Class Information

Register 5-7 days in advance for the following test sessions.

☑ PARC Testing is in Carlsbad on the 2nd Saturday of the month at 9:30am at the Carlsbad Safety Center. Test sessions may be cancelled if no one pre-registers. Contact Rusty Massie AA6OM at (760) 747-5872 or dunedancer@cox.net.

☑ EARS Testing is in Escondido on the Last Saturday of the month at 9:00 am at 9:00 a.m. at the LDS Church.

The address is 1917 East Washington Avenue , Escondido , 92025.

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

☑ "The ARRL Technician Class Course for Ham Radio Licensing" Course No. EC-010 \$99 ARRL members / \$139 non-members. Courses begin on the first and third Tuesday of each month. For more information, email cce@arrl.org or via regular mail to ARRL CCE, 225 Main Street, Newington, CT 06111.



Are you interested in upgrading your license? Do you work better in small study groups or on your own? Let SCOPE know! Certified instructors in PARC are ready and willing to help you. Write to scope@palomararc.org with your license goal and study preferences. Possibilities include online study groups, pre-PARC meeting study groups, and weekend study groups.

www.ac6v.com

This wonderful ham radio website, run by Rod AC6V, is a fantastic online resource for amateur radio information. With 700 topics, 6,000 links, and 132 pages, it weighs in at the top of the scale as one of the best topical indices of ham radio webpages. The site gets well over 1,000 hits a day. Readers from 127

countries have visited www.ac6v.com which been in operation since 1997. Unlike many sites that post reams of links, only to let them rot over time, Rod sees that the links at his site are checked monthly. This removes one of the most irritating things about resource sites – the dreaded 404 Page Not

Found.

Thanks to Rod, things are easier to find on the ever-growing and often chaotic Internet. Thanks Rod, for doing such a great job and providing such a wonderful service to the ham radio community!

***IMPULSE* Electronics**
(760) 747-5277 – (866) 747-5277
www.impulseelectronics.com
**Your Connection for
Emergency Power Solutions**

Power Products

Power Pole Connectors – Power Cables – Tools
AGM Batteries – Red/Black Zip Cord 14 – 8 GA

West Mountain Products

RIGrunner – RIGblaster – Accessories
PWRgates – Computerized Battery Analyzer
Coax Cable – Coax Assemblies – Adapters
Terminals – Coax Connectors – Battery
Chargers – Battery Accessories
Email sales@impulseelectronics.com

NiCd Lady Company

Grace Lloyd
N6WPA
grace@niclady.com

www.niclady.com

Custom Assembly • Rebuilds • Batteries

• Lead Acids • Replacement Packs

20585 Camino Del Sol • Unit B
Riverside, CA 92508
800/906-6423
951/653-8868
Fax 951/653-5189

Your Complete Battery Source



Radio Astronomy

From Wikipedia, the free encyclopedia

Radio astronomy is the study of celestial phenomena through measurement of radio waves emitted by physical processes occurring in space. Radio waves have a much greater wavelength than light waves. In order to receive signals with large signal-to-noise ratio, radio astronomy requires a large antenna or an array of smaller antennas working together (for example, the Very Large Array). Most of these radio telescopes use a parabolic dish to reflect the waves to a receiver which detects and amplifies the signal into usable data. This allows astronomers to see a region of the radio sky. Radio astronomy is a relatively new field of astronomical research that still has much more to be discovered.



SDG ARES Needs TNCs

As the primary backup communications provider for local hospital emergency medical services (EMS), San Diego Amateur Radio Emergency Services Inc (SDGARES) is implementing email over ham radio using Winlink for all area hospitals.

Our initial demonstration systems will use 1200 baud VHF packet as the transport mechanism for Winlink. We would expect that a successful demonstration will encourage EMS to fund a D-Star based Winlink system to handle the anticipated higher message volumes.

The following is a list of packet TNCs that will work with the Airmail program used by Winlink

- | | |
|---------|-----------|
| SCS TNC | PTC-II |
| | PTC-IIe |
| | PTC-IIex |
| | PTC-IIpro |
| | PTC-USB |

Trees with snow and ice loading at the repeater site. No limbs were down in January. The sky was bright and clear.

Kantronics	KAM+
	KAM 98
	KAM XL
	KPC 3
Timewave	PK-232
	PK-900
AEA	DSP1232
	DSP2232

If you wish to donate or lend a TNC, please contact sec@sdgares.org or reply to this email. Your donations are tax deductible.

If you are interested in Winlink, you might want to try working with AIRMAIL

<http://www.siriuscyber.net/ham/>

Even if you do not own a TNC, download a copy of Airmail 3 and play with it... so that you can become familiar with its operations.
*

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+\$8 to ship.

BALUN KITS

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

Model BA-58 (for RG58, RG8X & similar cables up to 1/4" dia. \$8.50+tax+\$8 S&H/order

Model BA-8 (for RG-8, RG-213, 9913 and similar cables up to 1/2" dia. \$16.50+tax+\$8 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.

Model PT-340 \$99.95+tax+\$8 S&H

See catalog at www.Palomar-Engineers.com

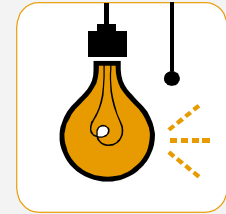
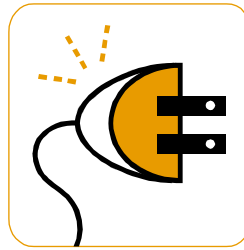
Please check our complete ads in **QST**, **CQ**, and **World Radio** magazines.

Regular Nets Sponsored by PARC

DAY	TIME	FREQ.	NET NAME	NET MANAGER CONTACT INFORMATION
T/R/S	2000	146.730	NTS Traffic Net	Charles N6TEP cmiele@juno.com
Sun	0830	146.730	ARES Sunday Net	Dennis K7DCG
Sun	2045	147.075	MARA ES	Glenn Jones KG6JDF@amsat.org
Mon	1915	146.730	RACES Sub-Net	
Mon	2100	146.730	Microwave Net	Kerry B.
Tues	1900	147.130	Red Cross Net	Ted tthompson@sarc.org
Tues	2100	146.730	Off-Road Net	Jerry A. K6PFP jwak6pfp@cts.com Dick W. KA7AYT wwillimek@home.com
Thurs	2100	146.730	Ham Help	Manager Needed
Friday	2100	146.730	Hiker's Net	Ed KF6DXX@juno.com Glenn P. KE6ZLY@juno.com
Nightly	>2200	147.130	Facetious Group	

PARC 2007 Board

President- Steve Early, AD6VI - 619-461-2818 - ad6vi@amsat.org
 Vice President - Tom Storer - KI6DER - ki6der@amsat.org
 Secretary - Gary Kent - W6GDK - 858-679-0578 - w6gdk@arrl.net
 Treasurer - Bob Birch - KG6RGI - rrbirch@cox.net
 Dir. - Tom Martin - KG6RCW
 Dir. - Dennis Baca - KD6TUJ - 760-722-0251 - kd6tuj@amsat.org
 Scope Editor - Michelle Thompson - W5NYV - w5nyv@amsat.org
 Repeater Tech Chair - Dan Bubke - K6NKC - k6nkc@amsat.org
 Membership: Al Donlevy - W6GNI - 760-630-3096 - w6gni@amsat.org



FREE TUBES

Club Members ONLY! The PARC has a tube bank that includes many 6 & 12 volt receiving tubes (and some transmitting types) for use by club members to repair their own personal equipment. Not for commercial use or resale. If we have your requests, I will pre-check and deliver them to the next club meeting.

Contact

WB6IQS@amsat.org, -John

Membership Report

New Members Joining PARC:

W6PSK, KI6FCN, KI6BUY, K6DAF, in addition, 4 members reinstated their membership, which had lapsed. Thanks to all.

We need new members! And equally important, a greater percentage of renewals!

Thanks for checking your last months mailing label for your e-mail of record. No one sent me a complaint that the e-mail was printed this year, and we received one "correction". We only do that once a year!

Al
W6GNI

SCOPE
P.O.BOX 73
VISTA, CA 92085-0073

PERIODICALS
US POSTAGE
PAID
AT VISTA CA
92085-9998

Address service requested

Scope (USPS #076530) is published monthly by the Palomar Amateur Radio Club 1651 Mesa Verde Drive, Vista, CA 92084. Periodicals postage paid at Vista, CA 92085. Dues are \$18 per year or \$30 per year for a family. Dues include a subscription to Scope. Editor: Michelle Thompson W5NYV.

Submissions: scope@palomararc.org
Questions? Ideas? Comments? W6NWG@amsat.org

This month's General Meeting will be held on February 7th, 2007 (the first Wednesday of each month) at the Carlsbad Safety Center. Talk-in on 146.730 MHz repeater. Meeting starts at 19:30. Ridesharing and coordinating for dinner beforehand often occurs on the repeater on Wednesday afternoons. Everyone is welcome!

The Palomar Amateur Radio Club serves the Amateur Radio community of San Diego County California with repeaters located on Palomar Mountain. The club has monthly meetings, Field Day festivities, an annual auction, and many other fun and interesting functions. All are welcome at our club meetings and on-the-air interactive radio nets which now feature discussion groups on hiking, sailing, microwave, off-roading, as well as traditional message traffic and emergency communications nets (RACES - ARES - MARA).

73 and hope to CU you on the air! -NN3V (past president of PARC)



We're on the Web!
See us at:
www.palomararc.org