

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

Reminders

Meeting May 2nd

PARC's general meeting.

Gordon West WB6NOA

will be giving the presentation for May to our Club. His talk will cover GPS, APRS, and LIVE EQUIPMENT displays and demonstrations.

He will also be relating how new changes in GPS and new ham radio equipment can affect the APRS world.



Special Event Station W6P
Jun 2-Jun 3, 1300Z-0700Z,
San Diego, CA. Sponsored
by K16FDN and W6NWX.
Hale Telescope on Palomar
Mountain dedication
anniversary. 14.260 7.260.
QSL. Michelle Thompson,
W5NYV, 5379 Carmel Knolls
Dr, San Diego, CA 92130.



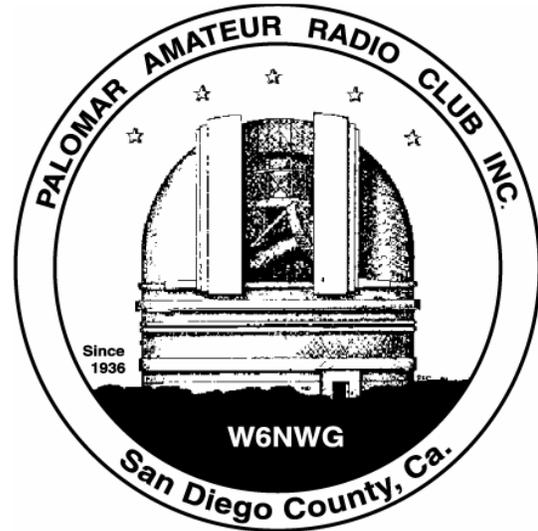
Letter from the President

What is "good amateur practice", and how can it affect us? Over the years, I have had many of my Technician license students ask me this question. I have responded with a few examples and described it as generally behaving in a manner that would not offend the average grandparent. However, I have never really examined the question myself, until now.

I found a good article in QST, titled: "Good Amateur Practice" Means Never Having to Say You're Sorry, dated October 9th, 2002. In the article, Riley Hollingsworth is quoted: "Good amateur practice is a hard thing to define ... I'd have to say it's operating with the realization that frequencies are shared, that there's going to be occasional interference and that's no reason to become hateful and paranoid." This article pretty much said that good amateur practices amount to being a good neighbor when on the air and gave several good examples.

But what about when we are off of the air? Does this concept change each time we un-key the microphone? I like to think not, but I have found several in the amateur community who apparently disagree.

Many of our friends, family, neighbors, and even complete strangers recognize us as Amateur Radio operators, regardless of our surroundings. They see the radios, the antennas and other trappings of a ham radio operator and know that is what we are. But, what else do they see? Do they see a helpful neighbor? Do they see community service? Do they see a friendly person pursuing a hobby?



Do they see us providing essential communications?

Or do they see something entirely different?

I am concerned about the latter. I believe that what we do off-of-the-air is having a greater effect on the ham radio community than what we do on the air. For instance, we are in a constant struggle with zoning regulations. Several of us have gone before elected officials to plead our cases, yet, what do they perceive of us?

I know of several people who are marginally civil on the air, but less than civil behind the scenes. Unfortunately, elected officials and representative of served agencies see this and wonder if we (hams) are always difficult and unfriendly. To be honest, I have found it difficult to tolerate some of the boorish behavior I have experienced from other local hams. From time to time, I have been tempted to respond to bad behavior in kind, but recognize that such a response would only hurt the whole Amateur Radio community.

Fortunately, we have a Board of Directors that keeps me in check, ensuring that these episodes do not reflect badly on the Palomar Amateur Radio Club. I believe that our Board Members do a great job of using "good amateur practice" when off the air. Thanks to our Board, PARC has never had to say we are "sorry".

If we are attacking each other, rather than finding common ground for the good of the community, we will all lose sight of common goals, rather than gain ground in our attempts to do the right thing.

The next time you have a disagreement with another person, regardless of who they are, please remember that others are watching how you present yourself, your position and our community.

Steve Early
President,
Palomar Amateur Radio
Club

QSL Card Design Competition

**For the Hale Telescope
Special Event Station June
2-3, 2007**

The Palomar Amateur Radio Club invites you to participate in an Art Competition, organized on behalf of the special event station celebrating the 59th anniversary of the dedication of the 200 inch Hale Telescope at Palomar Mountain.

The competition is open to all forms of art.

Entries will be judged for their popular appeal as well as which one is best suited for use as a QSL card.

A QSL card is confirmation of a communication between two amateur radio stations. A QSL card is the same size and made from the same material as a postcard (3.5 x 5.5 inches).

The 200-inch (5.1 m) Hale Telescope (f/3.3) was one of the world's largest telescopes for 45 years (1948 - 1993). It is still an important scientific instrument and is used almost every night of the year in a wide variety of astronomical studies.

For complete rules on the design competition, please visit www.palomararc.org

The Board of Directors of the Palomar Amateur Radio Club will judge the entries. Prizes will be awarded to the winner and two runners-up.

Contest Calendar for May 2007

May 1	AGCW QRP Party
Mar 4	NCCC Sprint Ladder
May 5	MARAC County Hunter Contest, CW
May 5	10-10 Int'l Spring Contest, CW
May 5	Microwave Spring Sprint
May 5	7th Call Area QSO Party
May 5	NA High Speed Meteor Scatter Spring Rally
May 5	US IPARC Annual Contest, CW
May 5	Portuguese Navy Day Contest, CW/SSB/PSK
May 5	Indiana QSO Party
May 5	New England QSO Party
May 5	ARI Int'l DX Contest
May 6	US IPARC Annual Contest, SSB
May 7	RSGB 89m Club Championship, SSB
May 8	ARS Spartan sprint
May 9	SKCC Sprint
May 11	NCCC Sprint Ladder
May 12	Nevada Mustang Roundup
May 12	SBMS 2 GHz and Up WW Club Contest
May 12	VK/Trans-Tasman 80m Contest, Phone
May 12	CQ-M Int'l DX Contest
May 12	VOLTA WW RTTY Contest
May 12	Mid-Atlantic QSO Party
May 12	FISTS Spring Sprint
May 12	EACW International Contest
May 12	50 MHz Spring Sprint
May 16	RSGB 80m Club Championship, Data
May 17	NAQCC Key/Bug Sprint
May 17	QRP Minimal Art Session
May 18	NCCC Sprint Ladder
May 19	US Counties QSO Party
May 19	King of Spain Contest, CW
May 19	EU PSK DX Contest
May 19	MM All America Contest
May 19	Baltic Contest
May 21	Run for the Bacon QRP Contest
May 24	RSGB 80m Club Championship, CW
May 26	CQ WW WPX Contest, CW
May 26	VK/Tran-Tasman 80m Contest, CW
May 27	SKCC Weekend Sprint
May 27	MI QRP Memorial Day CW Sprint
May 27	ARCI Hootowl Sprint

Lots of contests this month, from 80 meters up to GigaHerz.

You'll find complete rules in QST, CQ, NCJ, and Worldradio and on the web.

CU in the contest.

73, Harry/W6YOO



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.

(4.1) EF-610 Force-12 6-element 10m beam - condx: good, on the ground, \$60. A-50-5S Cushcraft 5-el 6m beam - condx: bent boom and bent 2 elements, fixable, on the ground, \$25. Parts for TX472MDP Tower: M-15R mast, TRX-80HD tower raising fixture with K2550 winch, and new HD T-Base. \$60 for all. Miscellaneous aluminum tubing from Sommer beam: come and get it. Peter KQ6AA potifar@pacbell.net or 760-917-2264

(2.5) Wanted: Rotators for AZ-EL Microwave dish project: Need two antenna rotators: AR-22, 5-wire Alliance, TR-44, etc. Do not need control boxes, just the rotators. Repairable "AS-IS" OK. WB6IQS@amsat.org, 760-727-3876.
Wanted: Alinco DJ-560 battery for HT. Broke my battery, need replacement 12 volt battery for Alinco HT. NiCad battery condx not important, just need the housing. WB6IQS@amsat.org, 760-727-3876. *

PARC Meeting Videos

PARC meetings have been video recorded for the last year. These videos can be purchased for a cost of \$2.00 to cover expenses. The videos include:

- March I Got My License, Now What?
- April Restoring Old Radios
- May 6 Meters
- June Field Day Escondido and Palomar
- July PARC Repeater Site and History
- August DXing 101
- September RF Safety
- October TAPR Digital Communications Conference
- February Amateur Radio Astronomy

January was a video of the Peter I Island 3Y0X DXpedition and is available from:

<http://70.103.16.185/~trexsoft/trexsoftware.com/peterone/dvd/index.htm>

Order copies through Dennis KD6TUJ at the meetings. *

HAM RADIO

Tom KM6K
Ron N6OMW
Jose XE2SJB
Bob KA6EKT



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Committee Chairpersons

ARES Info	Tony	KC6YSP
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BBS Monitor	Bill B.	N6FMK@amsat.org
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	Dennis V.	N6KI@amsat.org
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Patch Electronics	Jerry H.	WB6FMT@amsat.org
Picnic	Mark R.	KF6WTN@amsat.org
Power AC/DC	Mike P.	K6MRP@amsat.org
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Publicity	Terry R.	K3PXX
QSL Cards	Harry H.	W6YOO@cox.net
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Repeater Tech	Dan k6nkc	k6nkc@amsat.org
SANDARC	Jim/Steve	NE6O/AD6VI
Seller Table	John K.	WB6IQS@amsat.org
Testing VE	TBD	TBD
Trustee	Mike D.	AB6QT@amsat.org
Web	Paul W.	www.palomararc.org

City of Carlsbad needs Volunteers

Sue Irey, the Community Volunteer Coordinator for the City of Carlsbad, is asking for our help.

Sue wrote:

"The City of Carlsbad is looking for a team of volunteers who are knowledgeable about today's audio visual equipment - things like computer projectors. This team will be asked to set up equipment for various presentations throughout the City on an occasional basis. Do you know anyone who might be interested in this opportunity?"

I have known Sue for a long time through the San Diego/Imperial Counties Chapter of the American Red Cross and know that Sue is a pleasure to work with.

One of the primary locations that Sue is talking about is the Carlsbad Safety Center Conference Room that we meet in. A few of us have working knowledge of these specific systems and I am certain that any of us can learn from the others.

If you are interested in helping out the City of Carlsbad, please let both Sue Irey, and myself know.

Sue can be reached at:

Sue Irey
Community Volunteer Coordinator
City of Carlsbad
sirey@ci.carlsbad.ca.us
760-434-2906
Fax 760-720-9461

I can be reached at ad6vi@cox.net or at 619-461-2818 *

Repeater Information

52.680 W6NWG -0.5 MHz, Autopatches: 146.730-, 147.075+, *147.130+, *447.000-

PKT: 145.050s (PALMAR/W6NWG-1) 146.700- (Duplex Pkt) PALBBS/EMG use 145.070/146.700- (W6NWG-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

Gateway Electronics Loses Lease

The following quote is from craigslist, as reported by Bill K1CT.

"Gateway Electronics Inc of California has lost our lease! All kinds of components, cables, test equipment, speakers, connectors, widgets, gadgets, and stuff we're not quite sure what it does...but it's gotta go! All store fixtures for sale as well. 9222 Chesapeake Drive - San Diego CA 92123. Saturday 4/13/07 9am - 5pm."



Photo from April 13th sale by W5NYV.



Photo from April 13th sale by W5NYV.

I decided to go to the closing sale to photograph the store. I've visited Gateway electronics many times. More than once, treasures were found and a good time was had by all. The store smelled like rotting PVC mixed with mouse-shredded junk drawer paper lining, but I didn't mind at all. In general, I knew it was time to wrap up a day's shopping when my fingers were about as dirty as the floor and I had doubled my list of intended projects.

Two factors (besides continually rising real estate costs) that greatly contribute to the closing of stores like Gateway are the continued advancement of integrated circuits and the rise of internet ordering of components.

There is a rumor that some of the Gateway employees will be opening another surplus electronics store in San Diego. *

-Michelle W5NYV

Public Service Opportunities

1) Needed: volunteers for Pacific Crest Trail 50 mile run on May 12th 2007, contact pschmidt1@cox.net

2) Needed: Special Olympics Amateur Radio Support Coordinator, contact Paul Rios at KC6QLS@cox.net





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SDG ARES 2006 Annual Report

San Diego – (March 20, 2007) San Diego Amateur Radio Emergency Services Group (SDGARES) recorded a number of significant accomplishments in 2006. These accomplishments would not be possible without the generous support of the Ham Radio Community. ARCEC, CERO, EARS, ECRA, Fallbrook ARC, PARC, RACES, ROARS, SANDRA, Six Shooters and SANDARC have provided their repeaters, nets and have advertised our events.

Since July 2006, SDG ARES Membership has surged from 160 Members to over 275 making it the largest and fastest growing Official Emergency Communications (EMCOMM) organization in San Diego. The synergy between the experienced and new younger members has been remarkable. Dedicated Hospital Emergency Medical Services (EMS) Responders more than doubled from 30 to 78. SDGARES EMS Coverage of major hospitals leaped from less than 50% to almost 100%. In a time when most ham groups are experiencing declining membership, such a surge is a remarkable testament that the leadership is doing something right.

SDG ARES was incorporated as a 501 © 3 charitable foundation. In 2006 SDGARES Inc raised more than \$20,000 to fund vital Public Safety EMCOMM Operations, equip the County EOC with radios, constructed Emergency Go Kits and started working on a new Mobile Command Center.

SDG ARES has moved its meeting location from the less than ideal back room of a restaurant and its training from a community center 6 miles further away to a catered breakfast and the plush first class training amphitheatre at Scripps Green Hospital. The move resulted in an immediate increase in attendance at training and meetings and a general upgrade in professionalism of the meetings and training.

SDGARES now has its own URL www.sdgares.org with a dynamic web site with up to the minute breaking news such as Red Flag Alerts, detailed online operations manuals, membership rosters and communications plans. New members now register online for membership, members can sign up for drills and SDG ARES even accepts donations online.

Post 911, all emergency services agencies were required to use the National Incident Management Systems (NIMS) Incident Command Systems (ICS). Today, SDG ARES fully complies with ICS. As a result, SD American Red Cross and CERT have reestablished their close working relationship with SDGARES.

Post 911, under NIMS, all Responders wear colored reflective vests to identify their functions. Anyone who has ever been to the EOC or MOC will see that everyone complies with the vest directive. Starting with the Miramar 2005 Air Show, SDG ARES adopted the standard ARRL Radio Communications Reflective Orange Vest as its uniform in addition to the yellow shirts, jackets, and caps.

In order that Public Safety Agencies can quickly contact ARES responders, today SDG ARES responder contact information is available through web. Under ICS, the first responder on the air is Net Control until relieved by a superior. SDG ARES now trains all responders to be Net Controls.

Under NIMS ICS, responders are required to go to the place where they would do the most good for the most number of people. As SDG ARES now follows NIMS, the EMS image of SDG ARES has been upgraded and most hospitals and the MOC are in the process of building permanent in place radio facilities for SDG ARES.

For the past 10 years, SDG ARES has known that it could not handle the volume of EMCOMM traffic for EMS without delays on two voice channels alone as the complex message traffic often exceeds bandwidth. Today SDG ARES has a proactive Winlink program to equip all hospitals with Winlink. In the latest EMS Drill,

more than 60% of message traffic went via Winlink which significantly freed up voice channels enabling the first EMS drill in a long time, to perform without any standbys or delays.

Since 2005, SDG ARES demonstrated a new "Can Do" attitude under ICS with proactive Search and Rescue Efforts that reunited 46 lost children in 2005 and 44 lost children in 2006. As a result, SDG ARES has been upgraded to primary EMCOMM backup for MCAS Miramar and the Marines are donating and installing a permanent in place radio system for SDG ARES at MCAS Miramar.

Servicing Public Safety Agencies such as ARC, EMS, CDF, Lifeguards, CERT, and Marines requires a huge commitment of manpower and resources. The staffing of "Community Events" such as walks, runs, parades and races drained critical resources. In many cases, these are commercial events that can be handled just as well if not better by cell phones. Today SDG ARES has removed the Cell Phone events from its calendar choosing to concentrate on Public Safety where SDG ARES resources are actually needed and can do "Make a Difference".

This concentration on Public Safety has resulted in a spike in new membership. SDG ARES still supports "Community Events" where there may be a Public Safety need such as longer back country runs, Special Olympics Greater Games and that can operate under ICS training environment but with the huge post 911 Public Safety demand on SDGARES, the number of "Community Events" on the calendar is limited.

Today SDGARES has recruited 40 active people in leadership position who are bringing new vitality and ideas to the organization.

Getting responders to respond in an emergency can be difficult as not every emergency starts with the shaking of the earth or the smell of smoke. Today SDG ARES has an Automated Phone Dialer Activation System that can call all 275 responders in under 2 minutes. Frankly there have been so many recent changes in the way that SDG ARES operates that it is difficult to list them all.

The Amateur Radio Emergency Services of the American Radio Relay League has been providing Emergency Communications since 1935. The 275 members of San Diego Amateur Radio Emergency Services (SDGARES) provides vital public safety

communications when other commercial and government systems fail. SDGARES serves many public agencies including San Diego County Emergency Medical Services, American Red Cross, Community Emergency Response Teams, California Department of Forestry, MCAS Miramar Air Show, Coronado Lifeguard as well as many local and community functions. For example, during the 2006 Miramar Air Show SDGARES Search and Rescue teams were responsible for reuniting more than 44 lost children with their care givers. During the 2003 San Diego Fires, SDGARES responders manned Red Cross Shelters around the County as the only communications and provided primary communications between fire fighting teams when the government 800 MHz radios failed. *

More Information: www.sdgares.org
Paul Rios KC6QLS
ARRL (SDG) Public Information Coordinator

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. Please call 619-465-EXAM for the latest contact info.

Test sessions may be cancelled if no one pre-registers.

☑ 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.

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! *

Mentors and a Mentor Coordinator Needed

PARC is looking for persons interested in help others to become better Amateur Radio Operators.

We are looking for individuals that might be available the second Saturday afternoon of each month from 12 noon to 2 PM to help work with those that have either just earned their license or an upgrade.

If you are interested in helping out, please contact me at ad6vi@cox.net, or 619-461-2818.
-Steve Early AD6VI.

AMSAT Satellite Launch News

By Paul Williamson KB5MU

On April 17, 2007, a Dnepr rocket launched from Baikonur Cosmodrome in Kazakhstan carrying seven CubeSat spacecraft and seven other small payloads. The launch was a complete success! Several of the CubeSats were amateur radio missions. These spacecraft have not (yet) been given OSCAR numbers, but they continue the proud tradition of amateur radio in space begun with the launch of OSCAR-1 in 1961.

A CubeSat is a tiny spacecraft built to fit in a standardized form factor so as to make it easy to launch multiple satellites on the same vehicle, sharing much of the design and logistical effort that goes into getting a spacecraft into orbit. These efficiencies *continued on sidebar pg 10*

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continued from sidebar pg 9

make it feasible for a university or even a high school to successfully construct a spacecraft and see it launched into orbit. This opens up tremendous educational opportunities for students in many related fields.

A CubeSat is cube-shaped, 10 centimeters on each side, and weighs up to one kilogram. The small surface area available for solar panels places severe constraints on how much power can be generated for payload operations. The small volume inside the spaceframe also limits how extensive the electronics can be, especially when it must be constructed using technology accessible to university students. Some CubeSats do little more than basic housekeeping and beaconing, while others are more ambitious and include experimental payloads.

Three of the four amateur radio payloads launched on the Dnepr mission have already been heard from and declared functional, and the last (CP3) has yet to be tested at this writing. Here are brief summaries on these newest amateur radio satellites:

Libertad-1 (5K3L) was built at the Universidad Sergio Arboleda in Bogotá, Columbia and carries a standard packet radio package with uplink on 145.825 MHz and downlink on 437.405 MHz FM with a power of 400 mW. It is the first satellite ever launched by Columbia.

CAPE1 (K5USL), the Cajun Advanced Picosatellite Experiment, was built at the University of Louisiana at Lafayette. It carries a sensor package and a 9600-baud packet radio system with a

continued on sidebar pg 11

TEST EQUIPMENT AVAILABLE FOR LOAN TO PARC MEMBERS

Thanks to the effort of John WB6IQS PARC now has a working H/P 8640 Signal Generator. John spent many hours repairing this unit. He donated it to PARC and it is now available for loan to PARC members for projects. John asked me to verify calibration with my 8640 after he completed the repairs. I have done this and it is now ready for loan.

Technical Description:

AM/FM 0.5 to 512 MHz on fundamentals and 512 to 1024 MHz on 2nd harmonic.

**Output range +10 to -130 dBm Female N connector front panel output
Crystal lock for stability.**

Note: This signal generator, designed in the last century, has a very low phase noise specification, equal to or better than most modern signal generators made today. In addition to the H/P 8640 I have the following test equipment from the W6JAB estate available for loan to PARC Members

SWR meter (Diamond SX-600)

Texscan CATV Spectrum analyzer 50- 400 MHz MFJ 269B

MFJ 300W dummy load

IFR 1100 Communication Monitor

I also maintain a H/P Z3801A GPS Receiver and frequency standard with a 10 MHz output. It is available for use by appointment for PARC members needing to calibrate equipment.

Contact me for use of the above items, kc6uqh@amsat.org or (760) 758-6062 evenings 7:00 to 10:00 PM & weekends 9:00 AM to 10:00 PM. *

Art,
KC6UQH

Fair Volunteers Needed!

June is fast approaching, and the San Diego County Amateur Radio Council is asking for PARC participation in the SANDARC exhibit at the San Diego County Fair in Del Mar. The Fair will run June 8th, through July 4th, but will be closed June 11-12, 18-19, and the 25th. Shifts are 10 AM to 2 PM and 2 PM to 6 PM. We need two people per shift. This is a good opportunity to present amateur radio to the general public and answer questions for those that are interested. In previous years, there have been some very enthusiastic (about radio) children and parents, as well as plenty of people that simply need directions to the bathroom. In both cases, volunteering provides a very useful service.

If you would help out, please contact Jim Cooper, NE6O, at ne6o@amsat.org *

VEs Needed

After 18 years of dedicated service as the SANDARC Carlsbad Volunteer Examiner (VE) Team Leader, Rusty Massie, AA6OM, has tendered his resignation, as team leader, to the San Diego County Amateur Radio Council VE Coordinator. Assi Friedman is serving as Interim Team Leader, pending identification and appointment of a permanent VE Team Leader for the site. If you see Rusty, please thank him for all his years of dedication to the VE program. In the meantime, Rusty and Assi have both said there is a need for more VEs at the Carlsbad site. Amateur Extras are preferred, but Advanced and General Class operators may serve as well.

If you are interested in helping out, please contact me at ad6vi@cox.net, or 619-461-2818.

Steve Early AD6VI.*

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

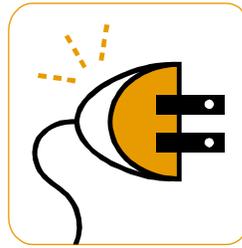
Please check our complete ads in **QST**, **CQ**, and **World Radio** magazines.

Regular Nets Sponsored by PARC

DAY	TIME	FREQ.	NET NAME	NET MANAGER CONTACT INFORMATION
T/Th/Sa	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@sdlarc.org
Tues	2100	146.730	Off-Road Net	Dick Wilimek KA7AYT rwilimek@cox.net Mike Doyle AB6QT
Thurs	2100	146.730	Ham Help Net	
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

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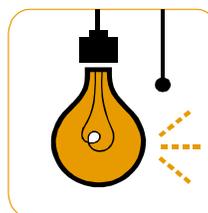


Reports from the Board

New Members Joining PARC: KG6VTR, WA7LB, KB7TVZ, KG6POY, KI6FII, KI6INW, KD6YWI, AND KI6HZS. A great month for new members.

Please welcome these new members, on the air, and in person.
 We also had one "reinstatement".

Multiple year renewals are really appreciated, as that makes less work, less chance for my errors, and fewer trips to the bank for yours truly.



continued from sidebar pg 10

downlink on 435.245 MHz with a power of up to one watt. It also emits a CW beacon, which is much easier to locate on the air than the noise-like 9600 baud packet signal. It transmits the CW beacon for 30 seconds, then packet for 30 seconds, and so on, with a rotation of three different CW messages to cover all the telemetry data.

CP3 was built at California Polytechnic State University at San Luis Obispo, and features an experimental attitude control system using only magnetic torquers and magnetometer sensors. It carries a non-standard packet radio system with a downlink on 436.845 MHz with a power of about 500 mW.

CP3 was also built at Cal Poly, and features an energy dissipation experiment. It carries a non-standard packet radio system with a downlink of 437.325 MHz with a power of about 500 mW.

The latest scoop on copying these satellites can be found on the AMSAT-BB mailing list offered by AMSAT. You can subscribe by email or look at the message on the web. See www.amsat.org for details.

*

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.

Thanks!

The club's tube bank has received a donation of more than 200 new and used vacuum tubes from Ed Cary, K6ICG. Dennis, N6KI has also given the club about 300 new Triad vacuum tubes for the club tube bank.

Thank you for the donation.

These tubes will be cataloged and placed in safe storage for use by club members. The club's tubes now include 1.5v octals for early Zenith Transoceanics (7 series), 1920's numbered tubes (4 - 6 pin), pre-WWII octals (w/grid caps), WWII octals, many 7 - 9 pin "modern" tubes, numbered industrial and a few transmitting tubes (807, 1625, one 4-400A etc.).

Contact
WB6IQS@amsat.org, -John



We're on the Web!

See us at:
www.palomararc.org

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

This month's General Meeting will be held on May 2nd, 2007 (the first Wednesday of each month) at the Carlsbad Safety Center. Gordon West WB6NOA will give a presentation at this meeting. 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, 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)