

# SCOPE September 2007

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

Club Meeting "PSK31" by AE6SV  
5 September 7:30pm at the Carlsbad Safety Center

Board Meeting  
12 September 7:00pm at W6GNI QTH

Repeater Site Refurbishment  
22-23 September 10:00am – 5:00pm at the repeater site on Palomar Mountain

Simplex Mapping Exercise  
29 September 9:00am – 11:00am sponsored by MARA



## President's Message

By Steve Early AD6VI

August got off to an early start. On August 1st, we had a very good presentation on Radio Direction Finding. On August 5th, we had the annual picnic. These closely followed an unusually late July meeting due to Independence Day.

The September 5th program will feature PSK31, presented by Ralph Smith, AE6SV, who provided PSK31 for Field Day and was one of two people that copied the ARRL Field Day bulletin for PARC.

On Saturday September 22nd and Sunday September 23rd will be our PARC repeater site project weekend. The goal for this weekend is to paint all of the buildings and the antenna tower. It has been 25 years since the PARC tower went up. This year the PARC board determined that it was time for a good inspection and refurbishment project to extend the tower's useful life. Dan Bubke K6NKC, our Repeater Technical Chairman, has inspected all of the fasteners on the tower, finding only one that needed replacement. Now we are ready to clean off any loose paint and apply a new coat so that the tower will hopefully last another 25 years.

To make this task safer and faster, PARC is renting a very large man lift for this weekend. While we are at it, we expect to prepare and paint all of the small buildings

to help protect them from the weather and to blend in with the neighborhood. We will be needing lots of help with the tower and with preparing and painting the buildings.

Several of us will be visiting the site over the next several weeks to prepare for the big weekend. This is a great opportunity to do service for PARC, so that PARC can continue to provide service to the community. If you have time and the desire, please contact Dan Bubke (dbubke@juno.com) or myself, Steve Early (ad6vi@cox.net / 619-461-2818) for schedules and information.

Looking down the road, the October 3rd program will be the annual PARC auction. Because of the expected duration, the door will open to sellers around 6:00pm and to buyers around 6:30pm. The auction will start at 7:00pm. Watch [www.palomararc.org](http://www.palomararc.org) and see the October SCOPE for details

Also in October, the Amateur Radio Emergency Service (ARES) will be needing volunteers for the Miramar Air Show. Contact Section Emergency Coordinator Jim Cammarano KG6R at 858-486-2871 or kg6r@arrl.net.

For those wanting to upgrade, keep an eye open for a one-day General class in November, and a two-day Extra class on Saturdays December 1st and 8th.

I hope to see you on September 5th. Bring a friend!

## Field Day Results

Steve Early AD6VI

Many of you may have seen the preliminary 2007 ARRL Field Day results posted at <http://www.arrl.org/contests/claimed/> under 2007 ARRL Field Day.

Conspicuously absent is a listing for W6NWX, the Palomar Amateur Radio Club. I am looking into this, but want to assure you that PARC records were submitted to the ARRL on July 22<sup>nd</sup>, via <http://b4h.net/cabforms/>, with support documentation sent via the US Postal Service. This was two days ahead of the posted deadline. We used the same methods that we used for the last two years. Hopefully this matter will be resolved prior to the September club meeting.

Regardless, I want to thank everyone who contributed to our 2007 Field Day, which earned the Palomar Amateur Radio Club 10,638 points and registered 116 participants and visitors.

## Picnic Report

Dennis Baca KD6TUJ

Prizes won at the August meeting, provided by Ham4Less.com:

9 led flashlight Art KC6UQH  
Speaker mike Doug Ferris  
Speaker mike W6PSK

At the September meeting there will be a led flashlight and 3 speaker microphones (icom/kenwood).

The picnic was held at San Dieguito County Park with 27 members, family, and guests. Prize participation was based on one ticket per activity participation point with a maximum of 20 tickets allowed per member. The winners were given gift certificates to HRO.

\$100 W6FWE Don  
50 W6YOO Harry  
50 KD6TUJ Dennis  
25 W5NYV Michelle  
25 KG6FIX Marcia  
25 KB5MU Paul  
25 KC6UQH Art

See the website for more photos of the picnic!

## August PARC Board Meeting Minutes

The Abridged Version

August 8, 2007

The meeting was called to order at 7:03 PM by President Steve Early AD6VI. The meeting was held at the house of Michelle Thompson W5NYV in her newly painted living room/dining room.

Present were:

President Steve Early AD6VI  
Vice President Tom Storer KI6DER  
Treasurer Bob Birch KG6RGI  
Secretary Gary Kent W6GDK  
Director #1 Tom Martin KG6RCW  
Director #2 Dennis Baca KD6TUJ  
Membership Al Donlevy W6GNI  
Repeater Tech chair Dan Bubke K6NKC  
Scope Editor Michelle Thompson W5NYV  
Guest Jo Ashley KB6NMK  
Guest Paul Williamson KB5MU  
Guest Conrad Lara KG6JEI

Treasurer's Report:

Bob KG6RGI presented the board with the treasurer's report. We currently have Total Assets of \$15,970.09. Income for the year exceeds outflow by \$3102.51, but quite a bit of that is for the Tower Refurbishment fund. Bob also presented a comparison of income and expenses for this year and last year. It was moved to approve by Gary Kent, seconded by Tom Martin. Approved

Secretary's report:

The minutes of the July meeting were submitted by W6GDK. Only correction was the deletion of a note indicating the minutes were presented by AD6VI. This was a cut and paste error. It was then moved by Bob and seconded by Tom Martin to approve the minutes. Motion approved.

Discussion Items:

1. Repeater site refurbishment- Dan has already tightened all bolts. The tower is ready for brushing, galvanizing and painting. Steve painted the roof of the building white. Neighbors are requesting we paint all of the buildings a color that will blend in with the environment.
2. Autopatch – It was suggested that we simplify the autopatch to one line connected at Art McBride's house.

*August Meeting Minutes continued on page 6*

## August Meeting Goodie Givers

Conrad KG6JEI, Preston W6ASP, Tom KG6RCW,  
Wild Bill WB6BFG, Ellen N6UWW

## August Fold & Staple

Merle KR6BT, W6YOO Harry, Jo KB6NMK & Terri,  
Art KB6YHZ & Janet, Al W6GNI & Kathy, Sonny  
WA5ACE

## August Membership Report

Just a reminder, according to the bylaws, everyone starts all over again collecting "Participation Points", Starting July 1, 2006. Those that attended the picnic picked up a point for this year (2006 - 2007).

New Members Joining PARC.

K6DRH, KI6FKB, KI6JSR, KI6JSU, KI6JSP,  
KJ6TDC, and KI6IID. Much better than last month!! Thank you!

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 in a few days, OR has expired as you received the SCOPE in the mail.

We get a number of new members that download the membership 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 A-mateur R-adio C-lub dot Org.

## JOTA October 19-21, 2007

Jamboree-on-the-Air, or JOTA, is an annual scouting and amateur radio event sponsored by the World Scout Bureau of the World Organization of the Scout Movement. Thousands of amateur radio stations around the world participate. If the conditions are right, it is common to contact a hundred scouting countries during the weekend!

These URLs explain it further.

<http://www.arrl.org/FandES/ead/jota.html>

<http://home.tiscali.nl/worldscout/Jota/jota.htm>

We have 12 scouts interested. If you would like to participate, please contact Steve Early at [ad6vi@cox.net](mailto:ad6vi@cox.net) or 619-461-2818.

## Club Classified Advertisements

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](mailto:SCOPE@PALOMARARC.ORG).

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

### (8.26) FOR SALE: Two Amateur Radios with Power Supplies and Antenna.

**YAESU FT 840 Transceiver**  
**ASTRON RS 35A Power Supply**  
**MJF 949 Deluxe Versatuner**  
**30 Foot Vertical Cushcraft Antenna**

**ICOM IC-2100H 144 MHZ Transceiver**  
**SAMLEX SEC1223 DC Power Supply**  
**ARX2B RINGO RANGER II Antenna**

**Ken Clark, KE4MII**  
**200 N El Camino Real #165**  
**Oceanside, CA 92058**  
**760-231-8377**

**(8.26) (qty 5) 10 foot sections of Tri-axial type aluminum tower, sections made of 1" tubing on 10.5" centers, the top section has a platform for a rotor \$65.00 for all 50'.  
Loren, AD6ZJ, 760-724-4644**

**(7.22) Wanted: Transport for amateur UHF antennas to San Francisco Bay area. Fred Brown, W6HPH. Tel. 760-741-1328. [w6hph@yahoo.es](mailto:w6hph@yahoo.es)**

**(6.30) Cushcraft R-8 Vertical Antenna, New In Box, \$375.00 (New \$550.00).  
IC-756PRO II Transceiver with IC-PS125 Power Supply, Never Used, Purchased Feb. 2005 from HRO, Original Cost \$2399, Will Sell for \$1975.00. Selling because of CC&R Issues. Call John N6LMY [rohring@sbcglobal.net](mailto:rohring@sbcglobal.net) or (760) 602-5041**

## Stepping up in the 1950s

By Ron Pollack

The last few months, we've been discussing some entry level equipment popular in the 1950s, both CW and AM.

The big news of this era, however, was the introduction and rise in popularity of SSB, which is still by far the predominant voice mode on HF today. Like all changes in ham radio (and life, for that matter!), this revolution was not without controversy.

Part of the reluctance of many at this time involved the complexity of building, maintaining, and adjustment of the transmitting equipment. All but the most sophisticated receivers lacked a product detector, making tuning SSB signals difficult. The favored method was to advance the audio gain to maximum and use the RF gain as a volume control. Eventually product detectors and better AVC made tuning SSB signals a snap. For those accustomed to listening to the rich sound of plate modulated AM, the tinny sound of SSB was not pleasing to the ear. A typical comment of the time: "If God wanted us to use SSB, He would have given us only one nostril!"

But, the SSB enthusiasts had powerful arguments on their side. First, the fact that only one sideband was transmitted rather than two identical ones, meant that the number of signals in a given band could be doubled. The phone bands were even narrower than they are now, so overcrowding was a serious problem, especially during contests and busy weekend times. When two AM signals were in the receiver's passband, an annoying heterodyne was created, further limiting the number of stations on the band. Since SSB uses a suppressed carrier, no heterodynes are created. Another important advantage is efficiency. An AM signal consists of a carrier, using half the power output of the transmitter. The remaining half is split between two identical sidebands. The carrier contributes nothing to speech, and the one of the sidebands is superfluous, as they both contain identical information. With SSB, all the power can be used for generating one sideband, so that effective power is quadrupled for the same input. Since power is only used during speech, the duty cycle is much lower. In AM, the carrier is using full power whenever the transmitter is on the air. Therefore, lighter, less expensive, and cooler running power supplies are used. There are no heavy modulation

transformers, either. In SSB reception, the receiver BFO replaces the missing carrier, and an intelligible signal results.

Besides making believers of the AM diehards, there were substantial technical challenges to be overcome. Generation of SSB signals could be done with two systems: Filter and Phasing. The first used crystal filters and balanced modulators to suppress the carrier, and the second used a phasing network to accomplish the same thing. The early homebrew units, and even some early manufactured transmitters, were tricky to adjust and required test equipment to operate.

By the late 50s, it became apparent that SSB was not going away, and many manufacturers started producing transmitters and receivers for the new mode. Several, like Johnson and Heathkit, produced adapters for existing AM transmitters.

Because of the relative complexity of the design and construction of SSB transmitters, they were quite expensive, but were very popular. One example of a popular SSB station is shown below.



The transmitter is a Hallicrafters HT32, introduced in early 1957. It is a filter type rig, with the sideband signal generated at 4.95 MHz, through a filter and balanced modulator. To aid stability, the VFO operated from 5 to 5.5 MHz. This gave a constant tuning rate on each band through a triple conversion system, similar to a triple conversion receiver. Because on some bands the VFO added to the frequency and some subtracted, some bands tune clockwise, and some counter clockwise! Two 6146 tubes were used in the finals,

with a power output of up to 100 watts. CW was available, as was AM, with much reduced power. These modes were provided by unbalancing the balanced modulator. The circuitry is complex but tune up was as easy as the AM transmitters of the day, but the features were enough to satisfy the most technological hams of the day. A matching HT33 amplifier was offered using two 4CX300A tubes. (I don't have one of these to show!) The transmitter is self contained with power supply, and is bandswitched. It even had a built in VOX. Because the VFO covers only 500 KHz, four crystals are needed to cover the 10 meter band. Only one is supplied, and only one 10 meter (and 11 meter!-Still an amateur band then) position is available on the bandswitch. Those desiring other portions of the band needed to supply other crystals and change them "under the hood" for those portions. The price was a hefty \$675, and many were sold. The HT32 was quickly followed by upgraded versions, the HT32A and HT32B. They were almost the same, except for minor improvements. The 32A added Push to Talk capability, and the 32B provided full coverage for 10 meters, as well as slight other changes. The basic unit was the same. The HT32B was last produced in 1964 and sold for \$725. Many thousands were produced, and many are still in use.

The matching receiver was the SX101 series, introduced in 1957. This was Hallicrafters' first Ham Band Only receiver, and it, too, was a great success. Among the desirable features were: Selectable sidebands, five positions of selectivity from 5 KHz to 500 Hz, a huge slide rule dial, with only the band in use being lit, a notch filter, and many others. The oscillator tube filament is always lit for stability. There were several versions of this receiver made, with the primary difference between them being frequency coverage. When 11 meters was given to the Cbers in 1958, that band was dropped. Early versions included 160 meters, while later versions dropped this band in favor of a position designed for use with VHF converters. All versions sold for \$395, and again many thousands were produced, and many survive. The one shown here is an SX101A, the last of the series.

The two units were designed to work together, with relay provisions in the transmitter to mute the receiver on transmit and use antivox signals from the receive audio. However, the tuning of the receiver and

transmitter are independent, meaning the operator had to "zero beat" to transmit and receive on the same frequency! Transceiver operation with independent receivers and transmitters was still a few years away, although Collins introduced the famous KWM1 transceiver at about the same time.

Shown with the station is the matching R 46B speaker, priced at \$18, and HA1 keyer, priced at \$80. (The keyer was not introduced until 1960). Also in the photo is the famous Astatic D104 "lollipop" microphone, and Vibroplex keyer paddle. These are authentic contemporary accessories.

So if the ham of a half century ago wanted a good quality state of the art setup, he might go to the local predecessor of HRO and bring this station home. And, many of them did! He'd lay out about \$1300 (about the price of a new Volkswagen at the time!), and probably need help carrying it all into the shack. The setup weighs over 125 pounds, and employs 41 tubes!

The station you see on page 4 has been completely restored to original specs. The only minor change is the addition of PTT to the transmitter. Not seen is an original Dow Key relay for switching the antenna. It is used on the air frequently, most recently in the August NAQP CW contest, where I made nearly 100 contacts all over the country in a few hours! The feel of the flywheel weighted dials and smell of hot tubes is a joy and trip back in time for me. Anyone wishing to share the experience just give me a call and you'll be welcome to operate this classic station.

Ron K2RP

### **Kit Builder Note**

via Dennis N6KI

Kit builders will enjoy taking a look at the QRP offerings at <http://kitsandparts.com/rftoolkits.asp> where numerous modules are available. There is also a Google group for the kits at <http://groups.google.com/group/RF-toolkits> for user support and ideas. (Thanks, Doug N6TQS and Bob KC5WA)

*August Meeting Minutes continued from page 2*

It was moved by KG6RGI and seconded by KG6RCW that the tech committee investigate placing a single autopatch on 147.130. Motion approved.

Super weekend at site for tower refurbishment on Sept 22,23.

**New Business:**

1. Community meeting on repeaters. Steve would like to organize a meeting on Sept 15th at either the Red Cross building or EOC or the Carlsbad Safety Center with several emergency comms groups to discuss how to better utilize our repeaters.

2. SANDARC proposal for Cal Fire – Rich Biesigl, N6NKJ, would like to have SANDARC provide new radios and equipment for the CDF fire station in Monte Vista for Red Flag patrol. Moved by W6GDK, seconded by W6GNI that we vote yes at the next SANDARC meeting. Approved.

3. ARES requested the use of the 447.000 and 147.130 repeaters for the SET on August 18. Approved.

4. Steve suggested we have some sort of recognition for Mike Doyle AB6QT for his many years of service as the Repeater Trustee. Moved by KG6RGI, seconded by KG6RCW that we make such recognition with an appropriate plaque. Approved.

5. KB5MU stated that the club has a 3.5 KW generator on a trailer which is in Paul's possession. The trailer is in need of extensive repairs. After discussion, it was decided to give the donor of the generator the right of first refusal, and then sell it.

6. Calendar item – Steve is holding a PARC sponsored Extra Class on Dec 1 and Dec 8 with an exam in Escondido. There will be a General Class in November at a TBD date.

7. Tom Storer, KI6DER announced that he will have to step down as Vice President. He is moving to Washington State. He will send Steve a formal letter of resignation.

Next meeting will return to Al Donlevy's house.

Motion to adjourn by KI6DER, second by KG6RCW.  
Approved at 8:45PM

Respectfully submitted by W6GDK

## PARC Gets 10-10 Number

Through the efforts of Preston D Butler W6ASP, along with all the other stations he contacted, the Palomar Amateur Radio Club has a 10-10 number of its very own. Shown below is Preston (left) presenting a 10-10 International certificate to club president Steve Early AD6VI at the August 2007 club meeting.



Ten-Ten International Net is an organization of amateur radio operators dedicated to actively using the 10-meter ham band. There are about 70,000 members in "10-10", which sponsors a net (daily except Sunday SSB net on 28.8 and 28.380 MHz at 1800Z), chapters all over the world, awards, contests, and certificates, and a bi-annual (oddly numbered years) convention.

From <http://www.ten-ten.org/>

"Any licensed amateur authorized to operate on the 10 meter band can join 10-10. It is required that you contact 10 10-10 members (on 10 meters), listing their information as noted on the Membership Application form."

Either Preston W6ASP or Michelle W5NYV can exchange the 10-10 number on the air on behalf of the club, and both strongly encourage activity on 10 meters. At the annual picnic, PARC operated a 10m station in order to participate in the 10-10 Summer QSO Party.

**Contest Corral**

Contest	Time and Date
All Asian DX Contest, Phone	0000Z, Sep 1 to 2400Z, Sep 2
Russian RTTY WW Contest	0000Z-2400Z, Sep 1
Wake-Up! QRP Sprint	0400Z-0429Z, 0430Z-0459Z, 0500Z-0529Z, 0530Z-0600Z Sep 1
RSGB SSB Field Day	1300Z, Sep 1 to 1300Z, Sep 2
IARU Region 1 Field Day, SSB	1300Z, Sep 1 to 1259Z, Sep 2
DARC 10-Meter Digital Contest	1100Z-1700Z, Sep 2
MI QRP Labor Day CW Sprint	2300Z, Sep 3 to 0300Z, Sep 4
ARS Spartan Sprint	0100Z-0300Z, Sep 4
NCCC Sprint, CW	0230Z-0300Z, Sep 7
AGCW Straight Key Party	1300Z-1600Z, Sep 7
WAE DX Contest, SSB	0000Z, Sep 8 to 2359Z, Sep 9
NCCC Sprint, CW	0230Z-0300Z, Sep 8
Swiss HTC QRP Sprint	1300Z-1900Z, Sep 8
Arkansas QSO Party	1400Z, Sep 8 to 0600Z, Sep 9 and 1500Z-2400Z, Sep 9
ARRL September VHF QSO Party	1800Z, Sep 8 to 0300Z, Sep 10
SOC Marathon Sprint	1800Z-2400Z, Sep 8
North American Sprint, CW	0000Z-0400Z, Sep 9
Tennessee QSO Party	1800Z, Sep 9 to 0300Z, Sep 10
ARCI End of Summer Digital Sprint	2000Z-2359Z, Sep 9
YLRL Howdy Days	1400Z, Sep 11 to 0200Z, Sep 13
NCCC Sprint, CW	0230Z-0300Z, Sep 14
SARL VHF/UHF Contest	1600Z, Sep 14 to 1600Z, Sep 15 and 1600Z, Sep 15 to 1000Z, Sep 16
NCCC Sprint, CW	0230Z-0300Z, Sep 15
ARRL 10 GHz and Up Contest	0600 local, Sep 15 to 2400 local, Sep 16
Scandinavian Activity Contest, CW	1200Z, Sep 15 to 1200Z, Sep 16
South Carolina QSO Party	1300Z, Sep 15 to 2100Z, Sep 16
QRP Afield	1500Z-2100Z, Sep 15
Washington State Salmon Run	1600Z, Sep 15 to 0700Z, Sep 16 and 1600Z-2400Z, Sep 16
QCWA Fall QSO Party	1800Z, Sep 15 to 1800Z, Sep 16
North American Sprint, SSB	0000Z-0400Z, Sep 16
Run for the Bacon QRP Contest	0100Z-0300Z, Sep 17
144 MHz Fall Sprint	1900 local - 2300 local, Sep 17
NAQCC Straight Key/Bug Sprint	0030Z-0230Z, Sep 20
NCCC Sprint, CW	0230Z-0300Z, Sep 21
Scandinavian Activity Contest, SSB	1200Z, Sep 22 to 1200Z, Sep 23
CIS DX Contest	1200Z, Sep 22 to 1200Z, Sep 23
AGCW VHF/UHF Contest	1600Z-1900Z, Sep 22 (144) and 1900Z-2100Z, Sep 22 (432)
SKCC Weekend Sprint	0000Z-2400Z, Sep 23
222 MHz Fall Sprint	1900 local - 2300 local, Sep 25
NCCC Sprint, CW	0230Z-0300Z, Sep 28
ARRL EME Contest	0000Z, Sep 29 to 2359Z, Sep 30
CQ Worldwide DX Contest, RTTY	0000Z, Sep 29 to 2400Z, Sep 30
CQIR - Ireland Calling	1200Z, Sep 29 to 1200Z, Sep 30
Texas QSO Party	1400Z, Sep 29 to 0200Z, Sep 30 and 1400Z-2000Z, Sep 30
FISTS Coast to Coast Contest	1700Z, Sep 29 to 1700Z, Sep 30
UBA ON Contest, CW	0600Z-1000Z, Sep 30



## Confessions of a Contest Novice

By Harry Hodges W6YOO

Some of you may not know that I got my first ticket as ZP5HZ early in 1973 in the country of Paraguay, South America. I was stationed there with the US Army as an advisor. My two daughters were in college in the US and long distance telephone charges were eating us alive. So, at the advice of the Administrator at the US Embassy, I studied for, was tested, and received a Paraguayan Class A license which allowed me access to the HF bands and the ability to phone patch into the US and sometimes directly to the Ham club on my daughter's campus. We could talk for a long time for FREE!

As I learned more about Ham radio, DXing, and award chasing, I found out about contesting. About the time of the USMC birthday bash in the fall of 1973, I decided to get on the air for one of the CQ WW DX Contests using the embassy's club station. Now, in California, contests usually start at 2400Z on Friday which is 4:00 or 5:00 pm depending on the season. Well, the farther east one goes the start time is later in the day. So this particular contest was to start about 9:00 p.m. in the evening local time following the US Embassy's USMC guard's celebration of the Corps' birthday and of course all US folks were invited to share drinks, hors d'ourves, birthday cake and finally champagne. I left the party about fifteen minutes before contest start time and fired up the rig in the club station after having consumed a considerable amount of beer, food, and champagne. Well ZP5HZ was immediately popular on the band and I was logging contacts as fast as I could as this was before the days of PCs and I had to concentrate on getting the calls correctly in to the log.

In no time at all I had a splitting headache and experienced other physical discomfiture as well and the restroom was one floor down. I lasted about three hours before I had to abandon ship and call my wife to come haul me home. What did I learn from this experience? Well, first of all, get some rest before the contest starts, eat lightly, and most of all, stay away from alcohol! In future contests I followed the advice of other contesters with respect to physical preparation and contesting became a rather enjoyable experience.

73, Harry W6YOO

## Licensing and Class Information

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

PARC Testing is in Carlsbad on the 2<sup>nd</sup> 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 the LDS Church. The address is 1917 East Washington Avenue , Escondido , 92025. Contact Harry W6YOO (760) 743-4212 or W6YOO@amsat.org.

## Test Equipment

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



## Ten Ten Convention Report

By Preston Butler W6ASP

Well I along with my XYL, Susan KG6MGA left on Wednesday, August 8, 2007 at 9:30am to attend the Ten Ten International Convention held in Omaha, NE. The convention did not officially start till Friday, August 10. We arrived early as most of Susan's family live about 35 miles outside of Omaha and of course visiting them was top of the list for Thursday. Board members were showing up on Wednesday for Thursday's scheduled Ten Ten board meeting which was schedule to last all day. Although I did not attend the board meeting I did take the time to say hello to quite a few ten tenners that had also shown up early and were congregating around the entrance of the hotel. Most of them we met and said hello to were members we had met in June, 2005 in Mesa, AZ for that convention. The convention is held every other year on the odd year. Mesa being so close to us I just couldn't resist that one.

The weather there was extremely hot there as it did not get below 96 degrees and on Saturday it got up to 100 with the humidity up in the 80's and 90's. On Friday we went on a scheduled bus trip to Boys and Girls Town, NE. It is actually a town now. We had a tour guide that took us all around the town as well as telling the history of the town and Father Flanagan who organized it. The basic way Boy's and Girl's Town survive is by all the boys and girls being taught different crafts. They in turn use their new talents to help support themselves and Boys and Girls Town. They have a vegetable garden that supplies them quite a bit of food. They are also supported by the donations from the public as well. They all live in homes that consist of at least 3 boys or 3 girls along with an adult couple there to supervise them in their studies. Check out Boys and Girls Town USA at the following web site:

<http://www.girlsandboystown.org/home.asp>

From there we went to Old Town Market Place in Omaha, NE. Even though I wasn't too impressed with this part of the bus tour we did find an antique store where the wife enjoyed looking around there. Sure was glad we flew back to Omaha instead of drove as we might have brought about a third of that store back with us...Hi Hi. None of the other stores interested us. Another ham, Al N1API with Ten Ten #25468 joined us in walking around and the three of us finally went to a restaurant called Upstream where we ordered Fish &

Chips. It turned out to be a good portion of fish and the price was very reasonable.

We returned to the hotel (Hotel Carlisle) around 2:30pm where we started meeting with as many other members of Ten Ten as we could. One of the members that we had dinner with on Friday night was W3TUI Bill with the Ten Ten #7561 and his XYL Donna, who is not a ham. We got each others attention because they live in Arbutus, MD. Which happens to be a town adjacent to Elkridge, MD where a brother of mine lives.

There were six (soon to be eight) Ten Ten couples from Germany that attended. I'll explain that in a bit. We had four Ten Ten members from England and one Ten Ten member from northeast Canada. Now back explaining the eighth couple from Germany. On Saturday evening prior to the scheduled banquet dinner two of the German Ten Ten members were married! They then became the 8th couple. Back to the Friday evening of getting acquainted, we were all scattered out in different areas of the hotel. Most of us went into what was called the Chapter conference room. Another name for this is paper chasers. Paper Chasing is another phase of Ten Ten that keeps you trying to work other Ten Ten members and it is a hobby in itself.

On Saturday a number of members left in the morning to go on a river boat trip that lasted pretty much the entire morning and early afternoon. My wife and I chose not to go on the river boat trip. While Susan relaxed in a cool hotel room I went down to where the Chapter managers were sitting down at their tables trying to convince people to join there paper chasing chapters. I managed to escape most of them as I only joined up with two of them.

At 2:00pm a presentation in the use of the Win1010 logging program was presented by Cliff K5FBS, Ten Ten #48461. This program is very highly used by members of the Ten Ten International membership. This program tracks literally everything involved with what Ten Ten members want to get involved with. I use it to log all Ten Ten members only even though you can use for all bands and non Ten Ten members as well. More can be found on Win1010 at the following web site: <http://hds.net/win1010.htm> ...

*To Be Continued in November 2007 SCOPE*

## PARC and PARC Affiliated Repeaters

Frequency	Tx	Tone	Call Sign	Remarks
52.680	-	107.2	W6NWG	
146.730	-	107.2	W6NWG	Autopatch; see note 1,
147.075	+	107.2	W6NWG	Autopatch; see note 2
147.130	+	107.2	W6NWG	Autopatch; see note
447.000	-	107.2	W6NWG	Autopatch; see note 2
224.380	-	107.2	KK6KD	Americas Unidos
224.900	-	107.2	WD6HFR	Convair/220 ARC
224.940	-	107.2	KK6KD	Sharp Hospital Coverage
446.140	-	123.0	WB6FMT	Vista
146.175	+	107.2	N6FQ	Fallbrook ARC; linked to 445.600
445.600	-	107.2	N6FQ	Fallbrook ARC; linked to 146.175
145.050	(s)	None	W6NWG-1	Packet node; linked to Metro 9600 net
146.700	-	None	W6NWG-4	Packet duplex repeater; Duplex; PALBBS use OK

PARC also conducts the following ATV (amateur fast-scan television) operations:

ATV in: 915 MHz WBFM, 2441.5 MHz WBFM

Intercom: 146.415 MHz NBFM simplex (tone 79.7)

ATV out: 1241.25 MHz AM

## Regular Nets Sponsored by PARC

Day	Time	Frequency	Name	Manager
T/Th/Sa	2000	146.730	NTS Traffic Net	Marvin KD6YJB KD6YJB@arrl.net
Sunday	0830	146.730	ARES Net	Jo Ashley KB6NMK@arrl.net
Sunday	1900	147.130	Handi-Hams	Marcia De Runtz KG6FIX
Sunday	2045	147.075	MARA	Glenn Jones KG6JDF@amsat.org
Monday	1915	146.730	RACES Sub-net	
Monday	2100	146.730	Microwave Net	Kerry B.
Tuesday	1900	147.130	Red Cross Net	Ted tthompson@sdarc.org
Tuesday	2100	146.730	Off-Road Net	Dick Wilimek KA7AYTrwilimek@cox.net
Thursday	2000	147.075	SATERN	tomcarmody@cox.net
Thursday	2100	146.730	Ham Help Net	
Friday	2100	146.730	Hiker's Net	Ed KF6DXX@juno.com
Nightly	>2200	147.130	Facetious Group	

Board of Directors Position	Call Sign	Contact Information
President - Steve Early	AD6VI	619-461-2818 ad6vi@amsat.org
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<sup>1</sup> The 146.730 repeater transmits a CTCSS tone of 107.2, but does not usually require any tone for access. When necessary, an access tone of 107.2 can be enabled. A 107.2 tone is always required for autopatch access.

<sup>2</sup> PARC autopatches are closed, for members only, and always require an access tone of 107.2. For PARC autopatch access info, email [autopatch@PalomarARC.org](mailto:autopatch@PalomarARC.org).

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Questions? Ideas? Comments? [W6NWG@amsat.org](mailto:W6NWG@amsat.org)

This month's General Meeting will be held on September 5<sup>th</sup>, 2007 (The first Wednesday of each month) at the Carlsbad Safety Center. The subject will be PSK31. 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)