

SCOPE

THE PALOMAR AMATEUR RADIO CLUB NEWSLETTER

Field Day 2014: June 28-29!

ARRL Field Day is the single most popular on-the-air event held annually in the US and Canada. On the fourth weekend of June of each year, more than 35,000 radio amateurs gather with their clubs, groups, or simply with friends to operate from remote locations. Field Day is a picnic, a camp out, practice for emergencies, an informal contest and, most of all, FUN!

It is a time where many aspects of amateur radio come together to highlight our many roles. While some treat it as a contest, others use the opportunity to practice their emergency response capabilities. It is an excellent opportunity to demonstrate amateur radio to the organizations that amateur radio might serve in an emergency, as well as the general public. The contest part is simply to contact as many other stations as possible and to learn to operate our radio gear in abnormal situations and less than optimal conditions while having fun. Field Day is/NOT a contest.

Field Day is one of the main highlights of PARC and a good effort is put forth each year. Last year we scored 4th place in our category of 5A and had lots of fun while doing so. In addition we placed first among all the San Diego (SDG) clubs. We set up 5 main stations plus a satellite station and GOTA. We hosted a Radio merit badge class for the Boy Scouts and had the help of the Young Marines during setup and take down. There was a testing session that took place on Saturday and as a result, two new hams were licensed into the hobby. We even had a world class BBQ prepared by the famous Psycho Kitchen.

Whichever aspect Field Day sparks your interest, whether it be the contesting, setup and take down and seeing how all the equipment goes together, commanding a station, the Saturday picnic BBQ, or just hanging out with good friends, I hope you will join us this year for the Palomar Amateur Radio Club 2014 Field Day effort.

Field Day is a group/club effort. We did not achieve the results of last year without having fun and we certainly didn't do it with just one person. If you are interested in helping in any way, please contact me. No former FD experience is needed.

Field Day is scheduled for June 27, 28, and 29 at the same location as last year and years prior. The empty lot located at the corner of Santar and Rancheros in San Marcos. This will likely be the clubs last time as they plan to start building on site Monday. We, the Club, need to start looking now for a new site for future use.

Field Day preparations are continuing. We have filled all station captain spots and have received many offers of help and equipment. Thank you to all those who have offered to help thus far. We are moving in the right direction and on track to have another fun and successful Field Day. We are now looking for voice and CW operators. If you are interested please contact me or one of the band captains. Join us on the weekly nets, Wednesday at 8pm.

Check out our article online:
http://events.10news.com/PARC_Field_Day/289191767.html

Find us at <http://www.arrl.org/field-day-locator>

Looking forward to seeing you there.

Greg Gibbs
 KI6RXX
 760-583-9668



Congratulations Wild Bill!

Save the Date

Club Meeting

4 June 2014

Come hear all about Field Day!

Board Meeting

11 June 2014

Palomar Amateur Radio Club board meeting at 7:00pm at W6GNI QTH.

Club Event?

Field Day!

See this issue for details.

Advertisements are free for members

Have items that need to find a new home? Advertise here! Send your ads to scope@palomararc.org

Icom IC 2200H 2M transceiver. Orig Manual, Nifty Manual, Mike, Power cord, mobile mount \$125

Drake UV3 3 Band VHF/UHF transceiver with manual, all 3 modules, mike, tone encoder \$375

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Yaesu FT100 with original manual, mike, power cord, mobile mount, packaging and box. Upgrades done \$500

Drake TR7 with power supply, mike, manual, 2 cw filters \$675

Drake W-4 Wattmeter. Cabinet could use paint. \$70

Ron K2RP K2RP@ARRL.NET or 760 436 8109

FOR SALE

- 1) Weller EC1002 Solder Station, regular pencil: \$75
 - 2) Weller EC1002 Solder Station, thin pencil: \$65
 - 3) Fluke 83, probes, and case: \$110
- Contact kk7kx: assi@kiloxray.com

It is not too early to start thinking about who will serve as the President for the next year. Dennis will not be available due to health concerns expressed by his wife. (Longevity will be severely shortened if he continues.) Please consider who can serve.

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SWD Coming Up this Fall



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8110 Aero Drive, San Diego CA. 92123

Minutes

Palomar Amateur Radio Club

Board of Directors Meeting

MARCH 12, 2014

President Dennis Baca KD6TUJ called the meeting to order at 19:13 pm at the home of Al Donlevy, W6GNI. In attendance were:

President: Dennis Baca, KD6TUJ
 Secretary: Jim Cooper, NE6O
 Director #2: John Rotondi, WA2OOB
 Repeater: Conrad Lara, KG6JEI
 Membership: Al Donlevy, W6GNI
 Repeater Site: Don Johnson, WD6FWE
 Field Day: Greg Gibbs KI6RXX

TREASURER

- Kim was not able to attend the meeting and sent the treasurer's report by email.
- Motion by Conrad, KG6JEI to approve the Treasurer's Report. Seconded by Don, WD6FWE. The motion passes unanimously.

SECRETARY

- Jim, NE6O distributed the February Board minutes.
- Accepted with unanimous consent.

NEXT MEETING

- At the April meeting, Ron Rosson, N6XT will talk on his Vacation/First DXpedition to America Samoa and Samoa with N7CQQ.
- We still need a May program
- Greg, KI6RXX will present a program on

the upcoming Field Day at the June meeting.

•

MEMBERSHIP

- Al, W6GNI, reports that membership is at 285, down 4 from last month.

REPEATER

- Don, WD6FWE reports that the site is OK on his latest visit.
- There are plans to take the 700 and run a connect to merge the receive to the 146.730 repeater
- Plan to decommission one of corner reflectors and use their cavities for other units
- Conrad, KG6JEI presented an inventory of the large items on the repeater site.

SITE REPORT

- Don plans to repair the phone line and run one half inch coax.
- Don plans a work party at the site on March 19 at 10am.

FIELD DAY

- We have a verbal approval for the same site this year. Construction on the site will start later so this will be the last time there.
- We still need station managers for 15/40 SSB and one CW station
- PARC may run 4A this year.
- GOTA will have 10 meters for its own use. This will reduce band scheduling conflicts.
- Greg, KI6RXX reports that the Field Day Weekday planning net will begin on Wednesdays at 8pm
- Greg, KI6RXX suggests replacing 3 coax lines with new 100 foot RG213 coax .
- Conrad, KG6JEI moved to purchase 3 runs of coax from RF parts not to exceed

<p>HAM RADIO OUTLET</p> <p>Jose XE2SJB Jerry N5MCJ Joe N6SIX</p> <p>H R O</p>	<p>KENWOOD rf CONCEPTS DIAMOND US TOWERS KANTRONICS YAESU, MFJ, ICOM BENCHER, Inc. HUSTLER COMET AMERITRON</p>	<p>Astron, AEA, OUTBACKER Larsen Antennas TEN-TEC Hy-gain, Tri-EX, Cushcraft And Others too Numerous to Mention!</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>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!</p>		

\$350. Seconded by Don, WD6FWE. Passes unanimously

- Greg, KI6RXX presented a list of possible commercial transport of equipment from the storage site to the FD site.
- Insurance has been applied for to indemnify the property owner
- Greg, KI6RXX Field Day Status Report is attached at the end of these minutes

NEW BUSINESS

- The next Operating Day will be April 26, 2014 at Fry's in San Marcos.
- Dennis, KD6TUJ asked Al, W6GNI to write a check for \$1200 for the Self Insurance as approved last month
- The Scout Fair will be held on April 26, 2014. Conrad has offered to support them.
- Should BOD minutes and treasurers reports be presented at the General Meeting?
- State of California Statement of Information filed on February 14, 2014. John, WA2OOB moves to reimburse \$20 to Dennis to reimburse his filing for the State of California Statement of Information. Don, WD6FWE seconded. Passed unanimously
- The annual EARS auction will be on April 10.
- John, WA2OOB will do the PARC auction

Next month's board meeting will be the second Wednesday, April 10, 2014 at the house of Al Donlevy, W6GNI and will start at 7pm.

Unanimous motion to adjourn at 9:15 pm.

Respectfully submitted
Jim Cooper, NE6O
Secretary, Palomar Amateur Radio Club

Attachment:

Palomar Amateur Radio Club
Field Day 2014 Status Report

1. Field Day this year will be the fourth full weekend in June.
2. The year Field Day will fall on Friday June 27th, Saturday June 28th, and Sunday June 29th.
3. Persons who have volunteered for Band Captain thus far:
 - Ron K2RP volunteered to take one of the CW Stations
 - Don, WD6FWE volunteered for GOTA
 - Mike, NA6MB volunteered for 20/80 SSB with KI6RXX as co-captain.
 - Possible Band Captains: John WA2OOB and Rich NI6H

4. We are still in need of at least 1 voice station on 15/40 SSB and a CW station.

5. Looking at running 4A based on equipment availability, and having a dedicated HF spot for GOTA.

6. Request to start weekly Field Day Planning Net on Wednesdays at 2000 hours.

7. Several runs of Field Day supply coax are less than an optimum length. The shortest are approximately 47', 56', and 57'. Propose replacing these runs with 100' each direct replacement. Old stock to be kept in PARC supply.

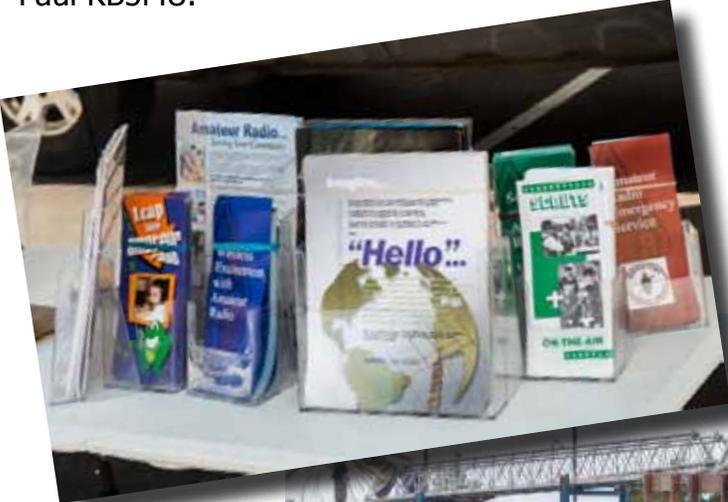
8. One item of concern, at least to one Club officer, is the transportation of Club equipment by private means and the liability it might present to the BOD. The club may be required to contract (rent) a transport unit or company to move Club equipment to alleviate their concerns. Attached are quotes that will give us a general idea of cost for transportation one way. Keep in mind these are just estimates. Our costs will probably be higher based on our special needs of same day transportation vs 1 day which generally doesn't include the date of pickup, Sunday service, and heavy lifting / awkward loading requirements. Is this something the board is interested in?

- Cost of 100 foot RG213 coax terminated with PL259 each end:
 - Cable Experts \$129.95 (AES)
 - RF Parts
 - \$113ea under 200 feet purchased 0.95+18 (\$2 each connector, \$7 each to solder on)
 - \$106ea 200-499 feet 0.88+18 (\$2 each connector, \$7 each to solder on)
 - \$102ea 500+ feet 0.84+18 (\$2 each connector, \$7 each to solder on)
 - HRO no price listed/offered. Tired to sell different product when in person.
 - Recommend ordering 3 cables from RF Parts at 100' each for a total cost of \$318.00 USD plus any applicable tax; for a total cost not to exceed \$350.00 USD (249.80 with 10% tax)

9. Work Parties need to Inventory Station Boxes, Create Dipole Antenna Holders, Take down and Repair 5th tower that is on top of shed, and repair 20M antenna element.



Above, Greg KI6RXX and Tom KI6IET put up the Palomar Amateur Radio Club banner at the April 26th Operating Day at Fry's Electronics. Photo by Michelle W5NYV. Photos below and pg 12-13 by Paul KB5MU.



Upcoming SANDARC Vote at July PARC Meeting

SANDARC will be holding a special meeting this month to comply with their bylaw provision of having the VEC budget presented to the Delegates for approval. At this time they will also present a SANDARC operating budget. This special meeting is required as a result of the meeting schedule changing to quarterly without first checking with their bylaws.

At the last meeting there was discussion of spending monies in accordance to procedure as a result of participating in the SANTEE STREET FAIR. This event is open to all SANDARC members to educate and demonstrate to the public (like our Operating Days). SANDARC (who has no annual income) will be spending \$800.00 to obtain two (2) adjoining booth spaces.

Expected attendance will be 60,000 individuals. This is a great opportunity to capture more interested people. All Clubs are encouraged to have representatives and their flyers/trifolds available as people come from all over. Palomar delegates, in trying to follow procedure offered to initiate support by offering \$50.00 as a Club and each Delegate for a total of \$150.00 to start the Clubs pooling together to support this event.

Sadly, there was no other Club response or support.

SANDARC's Board has decided to do this expenditure and participate. (A good idea, but how to follow its own bylaws?)

A informative letter sent by Dennis to the Board was returned and directed to be sent as a grievance. To comply, this was done as directed. The Board acted on the letter at a Special Board Meeting. (All are special Board meetings as no Board meeting are scheduled.) The Board concluded that the information sent was appropriate and acted on the letter. This was required to be heard as a process at the Delegate meeting.

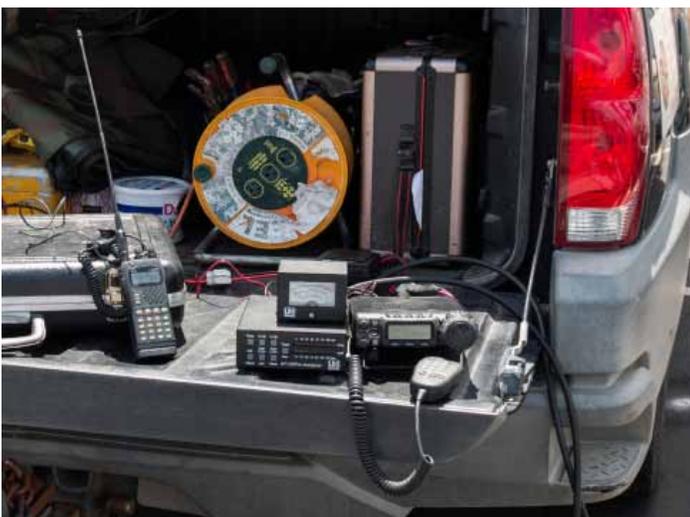
Conrad has had a long-standing request to review the Secretary's records to help him learn, understand, and help him to support SANDARC. SANDARC has continually refused to allow anyone to look at any records. Conrad has requested to do this at a mutual convenience and a mutual time, possibly over a snack or meal. SANDARC's continual answer is "What is Conrad going to find that we did wrong?" I really don't understand how learning about the group in order to help deserves this sort of a response.

After over a year and a half of stalling, The current Board has decided that this request must be asked of by a Club as the Club is the member of SANDARC. A Delegate who represents the Club, with the Club's full endorsement and authority to act for them, does not have the authority to make this request.

I hereby ask the membership to endorse this request at the JULY meeting.

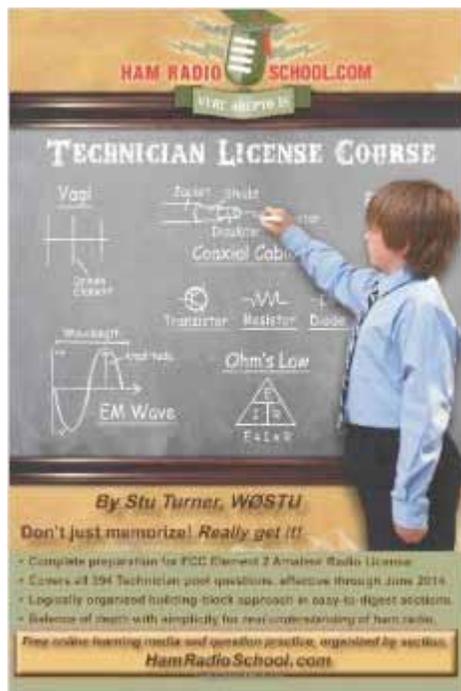
This is making me wonder what IS in the records.

Dennis



In addition to having a family, working two jobs, and other activities, I was asked by my parish to teach a class at our school. I decided to teach "Introduction to Radio Theory." After a bit of work, Brian (AG6CF) and I decided to use Radio [Ham Radio School.Com](http://HamRadioSchool.Com) as the school book. It was a great book. There are not many ham books designed for a younger audience. We essentially went over one chapter of the book per week, a couple of chapters we broke up and we went over Chapter 1 for three weeks as it has a lot of basic information in it.

There were 14 kids who started the class, and 10 who completed it. Several dropped for various reasons through the year including moving. Of the 10 who completed the year long hams training course, 7 decided to take the HAM license test. Of the 7 who took the HAM license course 5 children passed the exam. The youngest child was 11 years old, the oldest was 14. That is five new hams, and a new generation of ham users. We are trying to get the 11 year old on a net to talk to the 91 year old ham guy they know. That will be very fun.



Presented here is an article by my friend Alex, KK6CSR on a home school co-op class that he taught on "radio theory and electronics". It ended with an official ham test, and 5 of 7 kids (ages 11-14) passed. Great story!

73 DE
AG6CF - Brian

How did we do this? Work mostly, and it was a team effort, including the right book. Every week we went over the actual questions from the exam as "weekly test." We also introduced the [Snap Circuit](#) kits for the chapters covering electronics. Learning by actually doing is a wonderful thing." I can't say enough good about the Snap Circuits, this brought things to life for the kids. They spent time annoying their mothers by building and placing motion sensor alarms in random rooms of the house, building FM radios and launching small fans into the air. All of that "fun" was obviously to get them excited about the basic of electronics. The [HamRadioSchool book](#) was very critical in helping channel this. It has practice exams every week thus the kids were getting the material and actually building week by week on it. The last month we had weekly tests that were actually the HAM exam, so four of those.

At the end, we did a "ham cram" where we spent all day going back over the questions. AG6CF and I conducted that class. We didn't plan well, and thus were up at 0200 the morning before the

class trying to finish. That was a good night of drinking and putting together study material. Surprised it was as clean as it was. Just joking! I guess the important part of this from my perspective was breaking down complex concepts to something easy to understand and remember. The last was we prayed a lot and asked [Saint Isidore of Seville](#) (the patron saint of [the Internet](#), computer users, [computer technicians](#), [programmers](#), [students](#)) to pray for us also. Mike Maston brought out a crew of VEs to give the exam – something very impressive to the kids. Brian is a VE, and helped. The kids took the exam. I prayed. In the end, 5 of the 7 passed the technician exam.

Anyway, a great big well done for the kids in the class and all of the effort they put in. Thanks to Brian. Thanks to Mike and the VEs. Thanks to supportive parents. And I guess I will take a little credit. Spreading this kind of knowledge and skills is critical. It is doubly critical to pass it on to our youth. Helping these children expand their knowledge of the physical universe feels like a great accomplishment. Those kids looked so happy to receive their ham licenses, Brian noted it was like watching kids get a puppy at Christmas ... in the movies.

New Director Appointed

An opportunity became available to serve the Club's membership in the position of serving as a Director. This was offered to the membership and a person came forward. Greg Gibbs KI6RXX, who has been helping with Field Day has offered his service. At the Board meeting in May, Greg was affirmed by the Board. We thank him for his offer of service.

Dennis

Repeater Use in Recent Fires

This past month North San Diego County became the hot spot for fires. An accidental fire started in the 4S Ranch area. This small fire suddenly grew in the afternoon. The next day a fire started in Carlsbad that flared into a major concern. Fires then started in Fallbrook at the Weapons Station, Highway 395 south of San Luis Rey river, I-5 north of the scales, Oceanside riverbed east of College, Las Pulgas east of I-5, and more.

The repeaters were monitored for use and need. Unlike the past 2003, 2007, and the blackout, the repeaters were maintaining use a little above normal. No net was required to maintain control, and no request was made from supported agencies.

Through membership dues, and the knowledge and skills of volunteers (who we need more of), the Palomar Amateur Radio Club repeaters are available to the community to assist in their needs.

The Fallbrook machines were in heavy use as they were closer to the fire line in their city.

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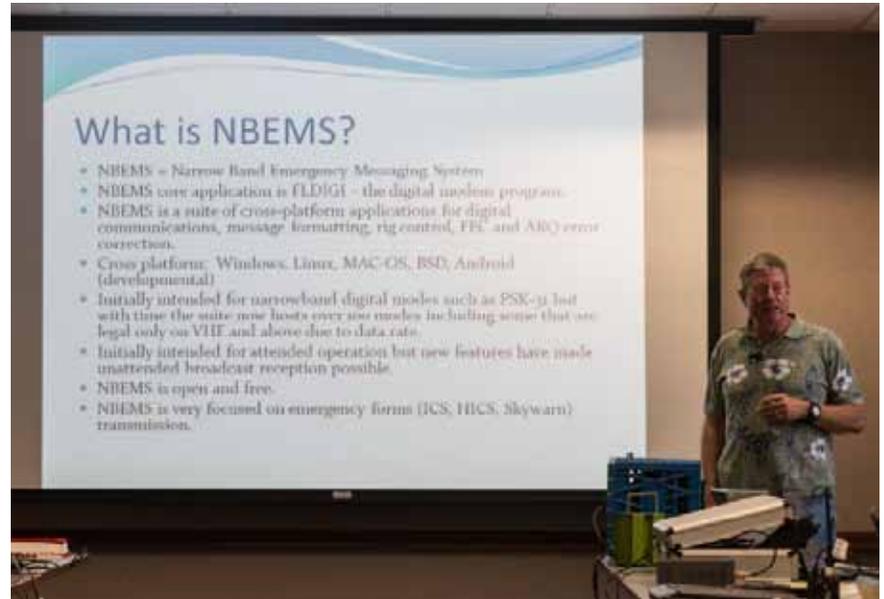
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NBEMS Presentation at ARES

report by Paul KB5MU

At the regular ARES meeting on Saturday morning, May 10, Bill Calderwood K1CT gave a presentation and hosted a workshop on NBEMS, the Narrow Band Emergency Messaging System. This is a software suite and a set of procedures, all designed to make it easy and efficient to pass written messages in the precise formats required by various served agencies. For example, a local emergency under the Incident Command System will probably want them to look like the standard ICS 213 General Message Form. The NBEMS program FLMSG makes it easy to fill out many such forms, and then provides just the filled-in information to be transmitted. The NBEMS operator would use the program FLDIGI, a full-featured HF digital modes program, and a transceiver interfaced with a sound card, to transmit the message over the air, perhaps using HF NVIS propagation. On the other end, FLDIGI would receive the transmission. If all goes well, FLDIGI would automatically recognize the message format and pass the information to FLMSG, which would present the message in the original form.



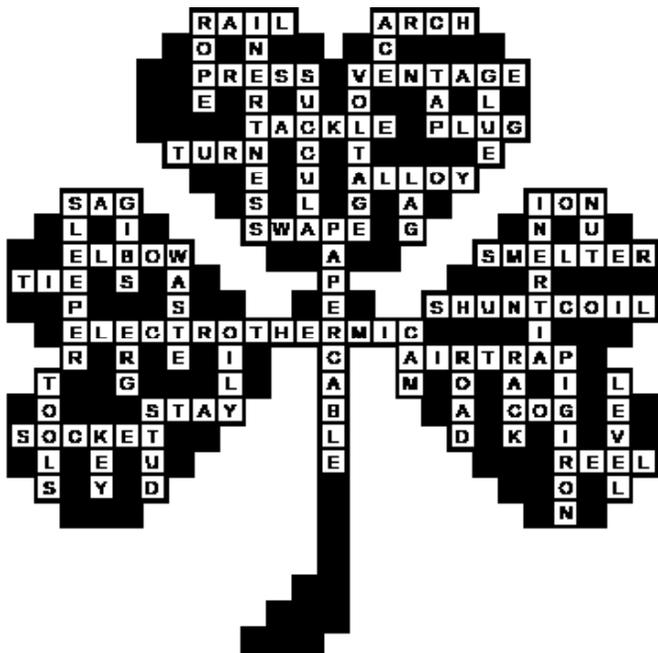
ARES operators were invited to bring their equipment to the workshop. Several messages were exchanged using both PSK31 and one of the faster HF digital modes, on a 40m frequency of 7.073 MHz with an audio center of 1500 Hz. We found that our dummy loads were too well shielded to communicate even across the room, so we deployed short wires as makeshift antennas for testing. The NBEMS package is compatible with Windows, Linux, and the Mac, and all three types of computer were represented in the room. However, nobody in the room had ever used FLMSG on the Mac, and considerable time was spent debugging the Mac setup linking FLDIGI and FLMSG. One of the other NBEMS applications we learned about is FLHELP, a complete online user manual for the suite of programs. If we had used FLHELP instead of flailing about, we would have had the Macs set up correctly in much less time.





May Scope puzzle solution

June Puzzle - Word List



- Amateur
- Antenna
- Camping
- Club
- Contest
- Day
- Emergency
- Field
- Food
- Friends
- Fun
- Overnight
- Palomar
- Points
- Preparedness
- Public
- Radio
- Service





Operating Day at Fry's Electronics in San Marcos 26 April 2014
The event was a big success! Thank you to all participants.



Dayton 2014 Report

by Howard KY6LA

SDR's and pseudo-SDR look-a-like's were everywhere.

In fact, you could not pass a booth without seeing a large 27" - 40" monitor with a Spectrum Display.

It would appear that the day of the blind radio is finally done for everyone except for Dennis N6KI.

Even the Japanese were trying to pretend that they had SDR's which of course they did not.

Crowds were way up from the past few years. Weather was COLD. There was rain and hail, so most people were inside rather than outside at the flea market. Food was terrible as usual. The venue was dirty as usual. The sewage truck button says it all.

Dayton Amateur Radio Association nets more than \$600K annually. You would think that they could at least fix something.

We stayed at the Miamisburg Doubletree Inn. I got a group rate for our group that included free Breakfast and a Hospitality Suite.

The Hospitality Suite proved to be really convenient place for the group to meet after the show every day for Adult Beverages.

I rented a 12 passenger bus that I drove into the BUS Entrance at Dayton every day. Free Parking for buses. IF you have to Chutzpah!

There seemed to be an incredible number of portable antennas for sale. Is everyone going onto a DXpedition?

Icom and Yaesu and Kenwood had their big booths.

Kenwood's was dead. Nobody was playing with their blind radios.

Yaesu was almost dead. But they had some traffic because they were giving away free hats.

Icom had some action but no exciting products whatsoever. It's pretty obvious that they are stuck resting on their laurels from the 20th century. People were buying legacy Icom radios from HRO but most of the blind radios were now in the flea market where they belonged.

You sort of got the feeling that they Japanese have given up on HF and were spending a lot of energy on yet another useless 2M digital mode.

Heiberling was there with their \$20K radios.

I am waiting for Rob Sherwood and Adam Farson to decide on an appropriate comparative standard (receiver noise power??) so that we can finally get some indication as to the relative specs of different radios. The direct sampling SDR's are just so totally different that it has been difficult to find a measure that can be applied equally.

Ten-Tec and Alpha Amps have merged under the Alpha Amps banner. Rumors of SDR from Ten-Tec for 2015 but don't hold your breath as they may not survive.

Amateur Electronic Supply was a NO SHOW. Are they going out of business?

Elecraft was lined up with 3 order takers who were 2 - 5 people deep for 3 days. They could not take money fast enough. Spent some time with their Remote Control Console and its designer. Far too bulky and knobby to be convenient for travel. However, we did a QSO between his remote in Monterey, CA and my Remote via iPad to my 6700 in La Jolla.

I like my iPad solution much better. There were rumors of a K4 - which would be a true SDR, but like everyone else the SDR hardware is easy but the software takes a very long time.

An interesting side note is that John NA6L sat with the Elecraft Remote Kid and Gerald Youngblood (President of Flex) on the flight back to Dallas. Perhaps he can give us insights into the future of remoting.

Clearly Remoting of Radio's is that next Holy Grail. Everyone has a cludge approach. So the first guy off the block with a Native iPad App will take the world by storm.

The second Holy Grail is Contesting Work Flow. There are several people working on new Paradigms for Contesting using SDRs. Clearly someone is going to finally get it right so that even Dennis can retire his blind radios!

SPE Amps showed off their 1.3K-FA - 16lb Amp - 1,500 watts. perfect for DXpeditions. I had a long talk (to be continued at Friedrichshafen) with the president of SPE who promised me the Programming API for the 2k-FA by early 2015.

GAME CHANGER

Clearly one of the major stars of the show was Flex. Flex introduced their new entry level priced SDR –Model 6300 – for \$2,495 + \$300 for an ATU - this is a radio with much better specs than ANY \$8,000 Japanese Radio for about 1/3 the price.

Flex admitted that is was a 6500 Hardware inside, dumbed down in firmware to 2 slices of radio's rather than 4. They left off the preselectors, the microphone and some antenna switching matrices to keep the price down. Other than that it's the 6500.

They brought 150-200 of the 6300 with them to Dayton. ALL WERE SOLD BY FRIDAY NOON. And, their entire production is spoken for. Backordered to August! Both John NA6L and Howard W6HDG picked up new 6300's on Friday. Lucky for them they did not wait to buy them.

HUMOR of the TRIP. John NA6L was so engrossed in his conversation with Gerald YoungBlood and the Elecraft Remote Kid that he left his 6300 in the Airplane Overhead Bin when he Deplaned in Dallas... Fortunately – Howard W6HDG spotted the box and carried both 6300's off the plane, or John would have been chasing his radio in the lost and never found bin!

CQWW WPX Contest, CW

Call: WQ6X
Operator(s): N6KI WQ6X KB7V WA2OOB
WB6NBU NN6X N6EEG K4RB N0DY
Station: NX6T

Class: M/2 HP
QTH: CA
Operating Time (hrs): 48

Summary:
Band QSOs

160: 5
80: 102
40: 658
20: 1498
15: 1191
10: 158

Total: 3612 Prefixes = 1096 Total Score = 9,619,592

Club: (San Diego Contest Club)

Best M2 Category performance from NX6T portable site. Condx good on Friday eve and Saturday but A index shot up to 19 put the fire out. Could not get much going on 80 or 10 meters all weekend. Sigs in EU very weak on Sunday but they seemed to hear us OK. Winds kept power line noise up almost all weekend and tested our ability to dig the serial numbers out ! 3 K3s - 2 ACOM 2000A, 70 ft & 40 ft portable tower trailers, 2 3 EL SteppIRs, 2 2 EL 40 mtr Yagis, 80 & 160 Inv V dipoles. Not much for antennas but compared to some of the Antenna Farms we compete against, we just make up for the deficiency with good persevering Ops !

73 de N6KI (San Diego Contest Club)

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You can join or renew your membership on the club's web site <http://www.palomararc.org>

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Featured Program:

At 7:30pm on 4 June 2014, Palomar Amateur Radio Club will present a program about Field Day.

We look forward to seeing you at the Carlsbad Safety Center, 2560 Orion Way, Carlsbad, CA.

Sign up for the PARC Email Lists:

<http://www.palomararc.org/mailman/listinfo>