



July 2014

ARCOver

A Community Service Organization Dedicated to Amateur Radio Since 1970

In this issue:

- ◆ President's Message
- ◆ Guest Speaker
- ◆ Quiz Column
- ◆ Field Day 2014 Captured
- ◆ Credit, Test Admn.
- ◆ Q&A
- ◆ Red Cross
- ◆ Somebody Is Listening!
- ◆ From the Secretary



To all those who serve or have served

THANK YOU

E-mail: W6SBA@arrl.net



Website: <http://www.w6sba.org>

Hello W6SBA,

I'd like to congratulate all of you on a well-executed Field Day! Field Day requires a team effort and you rose to the occasion to make it happen! I would like to extend special thanks to the following individuals for their FD contributions this year:

- **Bill** - KQ6Z, for constructing the new "helper" poles which enabled us to brace the antenna masts from both sides during those delicate moments while the antenna was being raised and lowered. This was a must-have invention that dramatically improved our safety and also made a difficult task considerably easier. Thank you!!!
- **Bruce** - KK6BJ and **Alan** - KG6ZPL, for taking on the roll of Antenna Captains. FD wouldn't be much without working antennas, and each of you stepped up and did a great job making sure each antenna was assembled correctly, and safely attached to each mast.
- **Ray** - WG6V, for lending us your 3000 watt generator, filling it with gas, and transporting to/from FD. You also solved our transportation challenges by providing your pick-up truck to help transport the tables/chairs to our operating area. Thank you very much for your generosity!
- **James** - KI6UPL, for checking out the laptops from work, imaging them, and helping me install & troubleshoot the network logging software.
- **Bruce** - KK6BJ for contacting the Daily Breeze and providing them a nice write-up about our FD event. Bruce also contacted Torrance Memorial and they sent out a very enthusiastic photographer who took 50+ pictures of our operation and seemed extremely eager to learn about our group can provide emergency communication in the event of a disaster. I'm sure we'll get a nice article in the next hospital newsletter! This kind of publicity really helps raise awareness of what our club can do and I'm extremely grateful for Bruce's effort in this regard.
- **Rob** - KB6KMX, for cooking his famous, mouth-watering tri-tips, as well as the delicious garlic bread to go with it! It was a fantastic dinner, and after all our hard work setting up FD, it was a real pleasure to sit down to a five-star meal!
- **Ed** - KN6JN, for cooking and preparing Sunday breakfast! We had a wonderful meal consisting of hand-made omelets with all the fixin's, pancakes, hash browns and sausages! It was absolutely delicious! Thank you Ed for bringing your entire kitchen to us so we could enjoy a delicious home cooked meal in the middle of FD!
- **Chuck** - KN6H, for bringing his famous pedal-powered bicycle generator that demonstrates exactly how much work is required (human-wise) to light up 200 watts worth of light bulbs, as well a loud distinctive horn! The bicycle has always been a crowd-pleaser, and I really enjoy having it on hand for guests who are coming to visit us for the first time! It's an interactive activity that demonstrates the principles of electricity, and it also shows off the creativity that makes amateur radio fun!
- **Benny** - W6ZAC (and his son Dean), **Matt** - N6MDC, **Ken** - K6HRN, and **Russell** - KI6HBG for helping with the site set-up, loading/unloading all the tables and chairs, transporting them to the upper parking level and back, and for routing the power cords to each operating station.
- **Joe** - WB6MYD, for storing all the club equipment on his property year long, loading all of it in his van, assisting Bruce and Alan during the antenna setup, and for taking the lead in getting this year's solar contacts!

Our total point score is still being finalized. We will let you know as soon as the results are in! Thank you again for all your efforts in making this year's FD a fun, and active event!

Until next time, this is Alex saying 73!



This month we will have the pleasure of hearing from two speakers. The first will be Alex KD6LPA. Alex will give a short recap on Field Day 2014. Then James, KI6UPL, will discuss power pole connectors and show us some of his home brew creations.

Please come join us Thursday, July 17th, at 7:30 p.m. in the West Tower, Room A at Torrance Memorial Med Center.

Cutaway view of a Powerpole connector.

Note that the contact must fit through the gap between the housing and the spring and that the contact is snapped over the end of the spring.

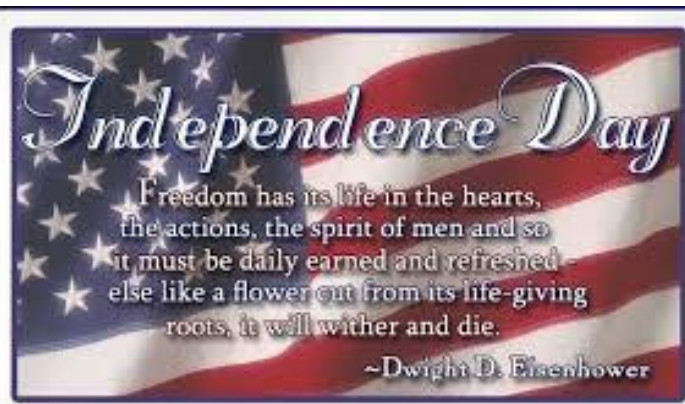


This month's quiz:

- 1) A tired radio operator went to bed at 11:00 one night after setting his wind-up alarm clock for noon the following day. When the alarm went off, how many hours had he slept?
- 2) What is the exact opposite of "not in"?
- 3) A triangle has sides of length 10, 11, and 21 inches. What is its area?

Answers to last month's quiz:

- 1) Divide 60 by $\frac{1}{2}$ and add 5. What is the answer?
 $60 / (\frac{1}{2}) + 5 = (60 \times 2) + 5 = 120 + 5 = 125$. This is like asking how many $\frac{1}{2}$ inches are in 60 inches. There are 2 ($\frac{1}{2}$) inches in 1 inch so there are 120 ($\frac{1}{2}$) inches in 60 inches.
- 2) How many months in a given year have 30 days?
 The only month that doesn't have 30 days is February so the answer is 11. I did not ask how many months have exactly 30 days.
- 3) A box weighs 30 pounds plus half of its own weight. How much does the box weigh?
 The hard way to answer this is to use algebra. Let X equal the box's weight. Then $X = 30 + X/2$. Clearing the fraction yields $2X = 60 + X$ or $X = 60$. The easy way is to reason thusly: if the box weighs 30 pounds plus half its weight, then the other half of its weight must be the 30 pounds. So, if half its weight is 30 pounds, then its whole weight is 60 pounds.



President

Alex Marko - KD6LPA
 kd6lpa@socal.rr.com - 310-530-6614

Vice-President

James Murakami - KI6UPL
 katsu442@yahoo.com - 310-480-7794

Secretary/Treasurer

Joe Lanphen - WB6MYD
 jlanphen@ca.rr.com or w6sba@arrl.net
 310-328-0817

CLUB OFFICERS FOR 2014

Activities Council Member

Bruce Jackson - KK6BJ
 bjackson@ucla.edu - 310-502-0071

Events Council Member

Ray Grace-WA6OWM
 rgrace3@verizon.net - 310-370-1913

Information Council Member

Steve Wojtak - KJ6VWN
 swihtaj@juno.com - 310-755-1688

Past President

Alan Parks - KG6ZPL
 thermic72@sbcglobal.net - 310-558-8718



Field Day - 2014



CREDIT, TEST ADMINISTRATION

Submitted by Bruce, KK6BJ
Taken from ARRL.com



The ARRL reported that, in a wide-ranging *Report and Order* released June 9 that takes various proceedings into consideration, the FCC has revised the Amateur Service Part 97 rules to grant credit for written examination elements 3 (General) and 4 (Amateur Extra) to holders of "expired licenses that required passage of those elements." The FCC will require former licensees -- those falling outside the 2-year grace period -- to pass Element 2 (Technician) in order to be relicensed, however. The Commission declined to give examination credit to the holder of an expired *Certificate of Successful Completion of Examination (CSCE)* or to extend its validity to the holder's lifetime.

"Our decision to grant credit for written examination Elements 3 and 4 for expired licenses that required passage [of those elements] will provide some relief for former General, Advanced, and Amateur Extra class licensees," the FCC said, "and is consistent with how we treat expired pre-1987 Technician class licensees who want to reenter the Amateur Service." Pre-1987 Techs can get Element 3 credit, since the Technician and General class written examinations in that era were identical. The Commission said current rules and procedures that apply to expired pre-1987 Technician licenses "are sufficient to verify that an individual is a former licensee under our new rules."

The Commission said that requiring applicants holding expired licenses to pass Element 2 in order to relicense "will address commenters' concerns about lost proficiency and knowledge, because a former licensee will have to demonstrate that he or she has retained knowledge of technical and regulatory matters." The FCC said the Element 2 requirement also would deter any attempts by someone with the same name as a former licensee to obtain a ham ticket without examination. In the past, the FCC has maintained that its procedures "provide ample notification and opportunity for license renewal" and that retesting did not impose an unreasonable burden.

Bruce, KK6BJ, asks : **There is a lot of easily available 75 ohm coax available from cable TV companies. How can I use it on my radios that want to see 50 ohms?**



This is a good question. Cable companies often will give you "ends" of cables for little or no cost. An end to them may be 100 feet of cable! Joel Hallas, W1ZR, discussed this in his "The Doctor is In" column in the November, 2013 issue of QST. He notes that, properly installed, has less loss than 50 ohm cable but is difficult to solder due to a part aluminum foil shield. This means that you will probably want to use TC-type F connectors and the use readily available adapters to get PL-249's on the end of the cables. I am unaware of any PL-259's designed for use with 75 ohm coax. If your transmitter wants a 50 ohm cable and your antenna does as well, the worst SWR you will get is about 2.3:1. Remember that other factors can raise that SWR considerably. Even using 50 ohm cable we often have problems with SWR. Also remember that a signal is going out of the antenna with any SWR. It isn't the feed line or the antenna that is complaining, it's the transmitter. Some transmitters will begin to reduce power at this SWR. So, the use of an external antenna tuner may be a solution. You can also match impedances by varying the length of the coax. I don't want to go into the details here but will explain if requested. A 50 ohm antenna can also be trimmed to present a 75 ohm load to the feed. Then the SWR is reduced to 1.5:1 which will result in a negligible loss of power. Finally, another possible solution is the use of an MFJ-907 variable RF matching transformer or similar which will match a 75 ohm line to a 50 ohm source. Then the only imbalance is at the 50 ohm antenna again resulting in a 1.5:1 SWR.



Thursday Night Net
@ 7:30 p.m.

Please join us on W6SBA 224.38 minus offset and the PL at 198.2 hz you can share your experiences or just say hello!



On June 21, 2014, this writer, Steve KJ6VWN,

went to Ham Radio Outlet in Anaheim for a pre field day event. Since I am interested in emergency preparedness, I stopped by the American Red Cross, Disaster Services Technology group booth to see what they had in the way of ham radio and I was most impressed.

I spoke with a gentleman who said they not only used amateur radio technology but also went beyond to cover technology that other non-ham radio users use. He explained that they use radios that businesses and public safety groups use.

In an emergency they want to cover as many types of communication as possible and many of their members are hams who are interested in other technology.

Members of their group try to assure equipment readiness for future deployment. Their members also participate in drills, training and on-air nets to keep skills current and to be ready to respond when needed. The members also assist with activities that prepare the Red Cross and their partner agencies and affiliates to be able to provide services to those in need.

Furthermore, the group uses amateur radio, GMRS, and public safety radios. The group can set up radio repeaters and cross-band links. Their equipment includes satellite phones and cell phones and including smart phone apps. They can set up servers, laptops, wired and wireless network hubs and switches at field locations and shelters to provide Red Cross field personnel with their information technology needs.

In addition, the group can provide and setup Air Cards, DSL, T-1 connectivity and/or establish a satellite link for web access and communications via IP phones and fax machines. Their main goal is to staff and provide communications for Red Cross emergency operations centers, shelters and field locations.

Lastly, they want to provide radio communications, information technology, network technology, satellite and internet connectivity. Anyone interested can call the Orange County Red Cross at 714-481-5300.

SOMEBODY IS LISTENING!

Submitted by Bruce, KK6BJ
Taken from ARRL.com



In the ARRL letter for last June 5th it was reported that the FCC Enforcement Bureau made public several warning notices issued over the past few months to radio amateurs. A couple of the letters from Special Counsel Laura Smith involved alleged infractions on 20 meters. On April 15, the FCC wrote a ham in Owosso, Michigan, regarding failure to properly follow station identification rules on March 21. He was told that he was monitored by staffers at the FCC High Frequency Direction Finding Center (HFDFC) "operating your Amateur Radio on 14.313 MHz for 20 minutes without identifying in a timely manner." Smith said the HFDFC used direction-finding equipment to confirm that the transmissions were coming from his location. She said the Center recorded the transmissions.

"This incident constitutes a failure to properly transmit your assigned call sign, in violation of the Commission's rules," Smith wrote. "Your operation as described is contrary to the basis and purpose of the Amateur Radio Service, as set out in Section 97.1 and is a violation of Section 97.11(a) of the Commission's rules."

On March 31, Smith sent a warning notice to a ham in Ripley, Tennessee.

"On Friday, March 28, 2014, you were heard by staff at the Commission's High Frequency Direction Finding (HFDF) Center communicating repeatedly on 14.313 MHz with an individual who you identify only as 'cowboy,'" Smith wrote. "This individual failed to provide his call sign during your conversation, a fact that you were aware of as you repeatedly demanded that he provide his name, call sign, and location. Despite being aware of the rule violation on the part of this other individual, you continued communicating with him for an extended period of time."

Be careful what you do as a HAM, be aware of the rules and follow them. Someone may be listening. Repeated violations can result in the loss of your license as well as large fines of 5 figures or more.

From The Secretary



1. **Attendance drawing:** As we all know you have to be present to win. Craig-WD6AKX name was drawn at our June meeting but was not present. Our kitty will be for 25 dollars at the July 17, 2014 meeting.
2. **Field Day Results:** I am sorry I can't just yet report any numbers. I am awaiting word from our computer whiz to report that. As far as Field Day went, we had a great time. The new application as well as all planning and preparations by Joe for the mechanical portions made things a lot smoother and safer. The 2 tri band antennas's got up a lot higher from we ever done before. The VHF antenna set up worked well with Joe's suggestions as for the mechanical set up with items made by Bill-KQ6Z. Murphy's Law did as always show with just a couple of things missing. These and others minor things were all corrected in time for the start. We need to thank Joe for being on top of the entire mechanical set up. The canopies used for the station set up worked great also and so the whole set up looked good and made for a safe and even somewhat comfortable condition for the long hours that night. The food was fantastic and everyone enjoyed both dinner and Sunday morning breakfast that had requested this. The computer network provided us with the logging programs for each station including some PSK operation by our computer staff Alex and James. The take down at the end on Sunday morning worked as well with the final drop off and secure storing at Joe's QTH again. He will have to sort through all of it so it will be ready for our next set up. All in all we can be proud of all of our members working so hard preparing this and all of you helping in setting it up and taking it down. So thank you SBARC Field Day Team for a job well done it assuredly was all within the spirit of Field Day for which we can all be proud.
3. **May meeting question:** As you may remember the question asked at the May meeting but not really answered was again asked at the June meeting. The question was "Should we drop the attendance drawing" at our monthly meetings? Well no need to have that go further because everyone liked it so much that we will have an uproar on our hands should we not have it any longer. So it will stand, you spoke loud and clearly. Thank you.
4. **Our next event:** JOTA will once again be held at the Cabrillo Youth Center in San Pedro on Oct 18th, 2014. Plans are underway and be presented further by our Events Council person. As we all know a club needs activities throughout the year. This JOTA event will again be accepted as an official activity for the SBARC. We look forward to you continued support and more details will follow. Thanks for supporting this activity.
5. **Field Day Report Out:** This may or should have been said before but as always everyone is busy. For future events let's take a look and see what happens here. The Field Day Call used by the SBARC is W6SBA. It is also used on the repeater and any other events we participate in uses that call. Now I know most of you know that it has a Trustee. Any problems discovered are reported by the ARRL Official Observers or the FCC to this Trustee. So when you with a lesser or equal license make a mistake the Trustee has to answer that call. So a word to the wise please make sure to know what you are allowed to operate on, what your privileges are on a band. All I am trying

to say here is in that you should know your own privileges. Stay within the band limits have a good signal and operate properly so as not to get the Trustee in trouble. We should all pay attention to this and know this because not using your call during any event will have to be answered by others in this case for any problems. I thank you for your proper operating practices during any activity when using the W6SBA call. Joe, WB6MYD

6. **ARRL National Centennial Convention** week kicks off in high gear with the World Radiosport Team Championship 2014 (WRTC2014) happening July 12 - 14 in Westborough, Massachusetts. WRTC2014 pits fifty-nine two-operator all - star amateur radio teams, representing 32 countries, in a battle of operating skill and strategy from identical locations and using identical antenna systems. WRTC is held every 4 years, like the Olympics and the soccer world cup. Previous WRTC'S have been held in Seattle (1990), San Francisco (1996), Slovenia (2000), Finland (2002), Brazil (2006) , and Russia (2010). Competing teams were selected from 29 qualifying regions around the world based on scores in a series of 55 qualifying events over a 3 year period. The team with the best score during the 24 hour competition will claim the gold medal and earn the distinction of being "the best in the world." www.wrtc2014.org/promo-video for the 5 minute WRTC2014 intro video. www.wrtc2014.org/participants for profiles of the participants. www.wrtc2014.org for the teams on the air by Randy Thompson-K5ZD Co Chair

7. **New website:** We will initiate a new website soon. Due to some difficulties with our provider server it was suggested we move to our own website. From what I understand it will still be www.w6sba.org since that is our domain registered to the club. We apologize for not having posted the June Arc Over since the site was unable to be updated. We've enjoyed this provider which so graciously had given us access to their website for many years at no cost but have found us in a position to set up our own due to those difficulties.

HAM QUIPS

DICK SYLVAN W4CBT



NEXT YEAR LET'S SEE IF WE CAN FIND A PLACE WITH COOLER CONDITIONS FOR FIELD DAY!

CALENDAR

Council Meeting - 1st Wednesday of the month
Call Joe - WB6MYD (310) 328-0817

Club Meeting - 3rd Thursday of the month
July 17, 2014 - 7:30 p.m.
Torrance Memorial Med Center
West Tower, Room A

Club Nets - **W6SBA WEEKLY NET**
Every Thursday @7:30pm
(except the night of club meetings)
PVUSD EMERGENCY NET
1st Tuesday of the month
09:30 Hours on the W6SBA repeater

TRW Swap Meet Saturday,
July 26, 2014, 7-11 a.m.

VE Session - Contact: Joe WB6MYD
Phone: (310) 328-0817
jlanphen@ca.rr.com or w6sba@arrl.net

Social Event - Contact: Joe WB6MYD
Phone: (310) 328-0817
jlanphen@ca.rr.com or w6sba@arrl.net

Answers to Mr. Wave's face on page 5: Eyes = Amplitude modulation;
Mouth = Frequency modulation

CLUB SERVICES

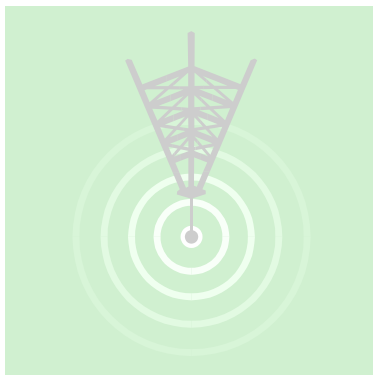
Awards Manager (HF/VHF)	Cliff - K6LH
Health & Welfare	Joe - WB6MYD
Swap Meet Chair	Joe - WB6MYD
VE Test Liaison	Joe - WB6MYD
VE Test Sessions	Joe - WB6MYD
Webmaster	Alex - KD6LPA
Editor	Glenda - KF6QFE Glenda.simpson@hotmail.com
Proofreader	Alex - KD6LPA

South Bay Amateur Radio Club Repeater
224.38 MHz · PL - 192.8 Hz Offset -1.6 MHz
(See Calendar for Weekly Net Times)

NEWSLETTER SUBMISSION

South Bay Amateur Radio Club
P.O. Box 536
Torrance, CA 90508
W6SBA@arrl.net
Website: <http://www.w6sba.org>

TO:



Address Correction Requested

A COMMUNITY SERVICE ORGANIZATION

W6SBA

South Bay Amateur Radio Club
Post Office Box 536
Torrance, CA 90508-0536

