

PRESIDENT'S MESSAGE—April, 2015



April is the kick-off of Public Service season with two events in April. Craig, K6XLT, our Public Service Wrangler, has more than enough events planned this year to provide everyone with plenty air time. Working public service is not only good operating experience (try to emulate the good operators) it is great fun to be out and about with your radio. Check the website

under public service and get signed up. Even if the website sign-up list is full, contact Craig and he will pair you with someone. This is an excellent opportunity for new operators to work with experienced operators and get into ham radio in a major way.

Craig will also present this month's meeting program and tell you all you ever wanted to know about Pubic Service events, how they are run, what to bring and how you can help. Anyone interested in Public Service should attend this meeting.

Public Service, as the name says, is also a significant contribution to the community, one of ham radio's primary purposes. Our contribution to the safety and organization of each event we support is invaluable and cannot be matched by any other service. Charlie, KZ6T, has volunteered to keep track of time spent by our volunteers this year. The results should be interesting and provide some gauge of our contributions.

But public service is not all we do. Dave, W6IBC, and his education crew held this year's first license class in March and the graduates are welcomed to ham radio nation. Continuing education is an integral part of ham radio. The education committee is also sponsoring a Ham Lab on April 18. Bring your project for help and advice, get use of tools and equipment you may not have, or just absorb knowledge from other members. Bring any equipment you are having trouble with and Dave's crew has the skill, knowledge and special equipment needed to solve the problem. Check the website and click on the Calendar for April 18, or contact Dave, for more information.

The Club also is instituting a lending program to temporarily lend excess equipment to members. Right now we have the Icom 2900 2 meter radio available. We will be adding other equipment as time goes on. Contact Charlie, KZ6T.

And a big Thank You to George, KK6DPX, and Mike, AD6YB, for putting together the 2015 Club Roster. These guys stepped up and got the job done. The new roster should be available for pick-up at the April meeting. Don't forget that Bob, WA6NIV, serves excellent refreshments, and you get to meet and chat with your radio pals. Hope to see you there.

Pat, KG6JSL

## This Month's Meeting Program: Public Service Night

Introduction and how to operate Public Service events

Presented by Craig K6XLT

## JOIN ARRL, THE AMERICAN RADIO RELAY LEAGUE

The ARRL is the national organization of Amateur Radio. It represents Amateur Radio at International Conferences and before the FCC. Get the monthly QST magazine, insurance for your equipment and too many other benefits to mention here. Click <u>http://</u> www.arrl.org/membership/



If you are not getting the ARRL San Francisco Section news by e-mail and you are an ARRL member, be sure to subscribe under your Members Only information or go to this Web site:

http://www.arrl.org/Groups/view/san-francisco

pril 2015

## 2015 Club Officers

President	Patrick Coyle coylaw@sonic.net	KG6JSL
Vice President Treasurer Secretary Director	Brian Torr Mike Von der Porten Iola Beckley Joe Fortuna Jeff Tonelli	N6IIY AD6YB KK6HRE K6AWA KI6PBF
Past President	Charlie Sikes	KZ6T

## Committee Lineup/Contacts

Activities ARES Liaison DX/Contest Education Emergency Services	Darryl Paule, KI6MSP Brian Torr, N6IIY Kevin Alt, K6BSG Dave Harrison, W6IBC Brian Torr, N6IIY	ki6msp@arrl.net n6iiy@arrl.net kalt@ieee.org w6ibc@arrl.net n6iiy@arrl.net
Field Day	Brian Torr, N6IIY	n6iiy@arrl.net
License Trustee	John Felton, KE5RI	jrfke5ri@aol.com
Media	Sutter Laird, KI6ZON	ki6zon@me.com
Membership	Dan Ethan, WA6CRB da	anethen@msn.com
Merchandise	Wells Wagner, KK6EXC	sylvan1hils@gmail.com
Programs	Brian Torr, N6IIY	n6iiy@arrl.net
Public Service	Craig Gaevert, K6XLT	k6xlt@sonic.net
Refreshments	Robert Jones, WA6NIV	wa6niv@arrl.net
Repeater	Jack Christensen, K6ROW	K6ROW@sonic.net
Volunteer Exam	Brian Torr, N6IIY	n6iiy@arrl.net

## Short Skip & Web Staff

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## Tuesday Night Net

Remember to check in to the SCRA net each Tuesday evening on the 147.315+(PL 88.5) repeater at 7:00 PM. Announcements are made of upcoming SCRA and other amateur radio activities in the broadcast.

## Short Skip Advertising Rates

**Business Cards** 1st Quarter Column Each Additional Quarter Column Full page (one side) Pre-printed inserts (each)

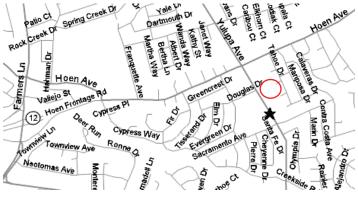
\$12 per month \$13 per month \$4 per month \$35 per month \$35 per month

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The club normally meets the first Wednesday of each month at 7:00 pm. Exceptions are holidays or other big events.

> Meeting location: Luther Burbank Art & Garden Center 2050 Yulupa Avenue Santa Rosa, CA



All are welcome!

Please join us at our next meeting. Anyone interested in Amateur Radio may be eligible for membership. A membership application is included in this newsletter.

For more information, contact any SCRA officer, director or member.

Hungry before the meeting? Join us for dinner! We Meet at IHOP restaurant. 4th and Farmers Lane, Santa Rosa. People start showing up at 5:15 PM. No RSVP is required.

See you there every month except December.

## SCRA LOANER RADIOS

SCRA has a Yeasu 2900 VHF radio available for use by members as a loaner. Contact Charlie, KZ6T, at charliesikes@me.com

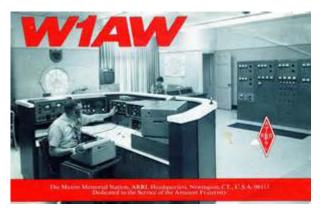


## **ARRL Centennial QSO Party**

NQ6E managed to work W1AW WAS during the ARRL Centennial QSO Party that ran all year long in 2014. From late March to the end of December he worked 502 ARRL members, 206 W1AW/ stations, and accumulated 7,359 total points. All 50 states plus Puerto Rico were confirmed by LoTW. The state of Delaware was the only ssb contact, the rest being cw, and all contacts were worked Qrp. His antennas consisted of a couple of homebrew 102' doublets; one fed with 300 ohm ladder line, the other with 450 ohm ladder line. A HyGain rotatable dipole was also put to good use. A long wire in the attic left from the previous homeowner snagged RI at 2.5w with a portable station set up in the garage.

And just to put things in perspective: The top finisher K1RO worked 27,650 members, 2,498 W1AW/ stations, and gathered a total of 285,651 points. Wow.

Congratulations to the ARRL and all the W1AW/ operators who made this year long event possible as well as challenging and fun. What's next?



## EDUCTION COMMITTEE REPORT

SCRA Trains New Technicians

On March 19-21, the SCRA Education team conducted its first technician license class for 2015, using the Gordon West WB6NOA classroom materials. Of ten students we trained, nine passed the Technician class exam on their first try. The teaching team included John WB6FRZ, Darryl KI6MSP, Andru KJ6YFD, Jeff KI6PBF and myself. The VE Team examining the students was led by our VE Liaison Brian N6IIY and included Charlie KZ6T, Dan WA6CRB, Mary KG6GEX, Bill WB6JAO and Doug KF6LMB. Our thanks to all who helped out. We plan to hold at least two additional Technician Classes this year.

General Class Upgrade Candidates

If you would like any mentoring for the General Class exam, please let me know. The exam question pool changes in July 2015, so if you are using the current study materials, they will become obsolete in a few months. We're ready to provide interested members with mentors to assist you in upgrading your license to General Class.

## Ham Build Day

We will have another ham build day on Saturday April 18th in my garage at 9459 Vinecrest Road, Windsor. This time we are not building a single project, and participants will bring their own project to the build day. We will have test equipment and mentoring available for the projects. We will start around 9 AM and wrap up around 4 PM. Bring your own lunch. Please send me an email if you would like to participate: w6ibc@ arrl.net. Space may be limited, depending upon demand.

73, Dave W6IBC SCRA Education Chair

## Times LMR 400 Cable

We just had a group buy of 1000 feet of this for \$.50/foot delivered to some happy hams. The best I found on-line was \$.89/foot BEFORE taxes and shipping. I've gotten requests for more, but I can only buy 1000 foot reels and I don't have 1000 feet of orders. If there's interest I'll try to get another reel. I'm not sure I can get \$.50/foot again and I'll try, but certainly no more than \$.70/foot. If you are interested, send me an email (K6ROW@sonic.net) with your requested amount (100 foot intervals only) and maximum price you're willing to pay.

Jack, K6ROW



# CONTEST CORNER

by Kevin Alt, K6BSG

Hello contesters. Many state QSO parties this month. Also Japan DX CW contest and three separate VHF Spring Sprints. Happy DX'ing!

1 Apr – CWOps Weekly Mini-CWT Tests – CW, 160-10 meters. See: www.cwops.org/cwt.html.

3 Apr – NS Weekly RTTY Sprint – RTTY, 160-20 meters. See: www.ncccsprint.com.

3 Apr – NS Weekly Sprint – CW, 160-20 meters. See: www.ncccsprint.com.

3-12 Apr – Lighthouse Spring Lites QSO Party – All modes, 160-10 meters. See: www.nllw.net.

4 Apr – LZ Open 40 Meter Contest – CW, 80-40 meters. See: www.lzopen.com.

4 Apr – Missouri QSO Party – All modes, 80 meters-70 cm. See: www.w0ma.org.

4 Apr – PODXS 31 Flavors Contest – Digital, 20 meters. See: www.podxs070.com.

4-5 Apr – QRP ARCI Spring QSO Party – CW, 160-10 meters. See: www.qrparci.org/contests.

4-5 Apr – Texas State Parks Contest – All modes, 80-6 meters. See: www.tspota.com.

4-5 Apr – Mississippi QSO Party – All modes, 80 meters–70 cm. See: www.arrlmiss.org.

4-5 Apr – SP DX Contest – SSB/CW, 160-10 meters. See: spdxcontest.pzk.org.pl.

4-5 Apr – EA RTTY Contest – RTTY, 80-10 meters. See: www.concursos.ure.es/en/eartty/.

4-5 Apr – Montana QSO Party – All modes, 160 meters–70 cm. See: www.fvarc.org.

6 Apr – Low Power Spring Sprint – CW, 160-10 meters. See: www.hamradio.sk. 6 Apr – Easter Contest – SSB/CW, 80-40 meters. See: www.darc.de/referate/dx/contest/xmas/en/rules/.

6 Apr – OK1WC Memorial Contest – SSB/CW, 80-40 meters. See: www.memorial-ok1wc.cz.

7 Apr – ARS Spartan Sprint – CW, 80-10 meters. See: www.arsqrp.blogspot.com.

11 Apr – GA QSO Party – SSB/CW, 160-6 meters. See: www.georgiaqsoparty.org.

11-12 Apr – Japan International DX Contest – CW, 160-10 meters. See: www.jidx.org.

11-12 Apr – Straight Key Weekend Sprintathon – CW, 160-6 meters. See: www.skccgroup.com.

11-12 Apr – New Mexico QSO Party – All modes, 160-6 meters. See: www.newmexicoqsoparty.org.

11-12 Apr – Yuri Gagarin DX Contest – CW, 160-10 meters. See: www.gc.qst.ru/en.

12 Apr – International Vintage Contest – SSB/CW, 80-40 meters. See: www.contestvintage.beepworld.it.

13 Apr – VHF Spring Sprints – All modes, 2 meters. See: www.sites.google.com/site/springvhfupsprints.

15 Apr – NAQCC Monthly QRP Sprint – CW, 80-20 meters. See: www.naqcc.info.

17-18 Apr – Holyland DX Contest – All modes, 160-10 meters. See: www.iarc.org.

18 Apr – TARA Skirmish Dig Pfx Contest – Digital, 160-6 meters. See: www.n2ty.org/seasons/tara\_dpx\_ rules.html.

18 Apr – ES Open HF Championship – SSB/CW, 80-40 meters. See: www.erau.ee.

18 Apr – Ontario QSO Party – Phone/CW, 160-2 meters. See: www.va3cco.com.

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## ...Contest Corner continued from pg 4

18 Apr – Feld-Hell New Member Sprint – Digital, 160-6 meters. See: www.feldhellclub.org.

18 Apr – YU DX Contest – CW, 160-10 meters. See: www.yudx.yu1srs.org.rs.

18-19 Apr – Worked All Provinces of China – SSB/CW, 80-10 meters. See: www.mulandxc.org.

18-19 Apr – CQMM DX Contest – CW, 80-10 meters. See: www.cqmmdx.com.

18-19 Apr – Nebraska QSO Party – All modes, all bands. See: www.qcwa.org/chapter025.htm.

18-19 Apr – Michigan QSO Party – SSB/CW, 80-10 meters. See: www.miqp.org.

18-19 Apr – EA QRP Contest – CW, 80-10 meters. See: www.eaqrp.com.

18-19 Apr – North Dakota QSO Party – All modes, 160-2 meters. See: www.w0nd.com.

19 Apr – ARRL Rookie Roundup – SSB, 80-10 meters. See: www.arrl.org/contests.

20 Apr – Run For the Bacon – CW, 160-10 meters. See: www.fpqrp.org.

21 Apr – VHF Spring Sprints – All modes, 222 MHz. See: www.sites.google.com/site/springvhfupsprints.

25 Apr – QRP To The Field – CW, 40-10 meters. See: www.zianet.com/qrp.

25-26 Apr – Ten-Ten Spring Digital Contest – Digital, 10 meters. See: www.ten-ten.org.

25-26 Apr – SP DX RTTY Contest – RTTY, 80-10 meters. See: www.pkrvg.org.

25-26 Apr – Helvetia Contest – All modes, 160-10 meters. See: www.uska.ch/amateurfunkpraxis/contest/ info-kw.

25-26 Apr – Florida QSO Party – SSB/CW, 40-10 meters. See: www.floridaqsoparty.org.

26 Apr – BARTG 75 Sprint – Digital, 80-10 meters. See: www.bartg.org.uk.

29 Apr – VHF Spring Sprints – All modes, 70 cm. See: www.sites.google.com/site/springvhfupsprints.

## DX Code Of Conduct

I will listen, and listen, and then listen again before calling.

I will only call if I can copy the DX station properly.

I will not trust the DX cluster and will be sure of the DX station's call sign before calling.

I will not interfere with the DX station nor anyone calling and will never tune up on the DX frequency or in the QSX slot.

I will wait for the DX station to end a contact before I call.

I will always send my full call sign.

I will call and then listen for a reasonable interval. I will not call continuously.

I will not transmit when the DX operator calls another call sign, not mine.

I will not transmit when the DX operator queries a call sign not like mine.

I will not transmit when the DX station requests geographic areas other than mine.

When the DX operator calls me, I will not repeat my call sign unless I think he has copied it incorrectly.

I will be thankful if and when I do make a contact.

I will respect my fellow hams and conduct myself so as to earn their respect.



## **2015 SCHEDULE OF EVENTS**

Check the <u>Club website</u> for details

April 4: SoNoMas April 11: Lake Sonoma 50 April 11: Camping Expo April 18: Ham Lab May 2: Wine Country Century May 9: Human Race May 16: VE Open Session May 31: Vineman Triathalon June 20: Terrible Two June 27: Field Day July18-19: Mendocino Rally July 25: County Fair Radio Demonstration August 1: County Fair Radio Demonstration August 8: Annadel Cross Country August 9: Tour d' Organics August 14-16: Technician License Class August 22: Hot August Build Class August 23: Santa Rosa Marathon September 12: VE Open Session September 19: SCRA Pi September 26-27: Wave to Wine Wings over Wine Country Air Show October 3: Levi's Gran Fondo October 17: Jamboree on the Air October 24: North Bay Science Fair November 20-22: Technician License Class December 2: Club Holiday Party December 5: VE Open Session

## **BAOFENG USERS**

The Inland Empire Radio Amateurs of Spokane, WA, has excellent instructions on how to manually program your Baofeng UV5RA dual band radio. Their site is http://www.vhfclub.org/ Click banner to download the instructions in .pdf format.



## **Public Service Roundup**

It's been awhile but the slumber is over. April will see the first of several public service events for 2015. On Saturday 4 April we'll kick the season off with So-NoMaS, essentially a mountain bike race around the Warm Springs Arm of Lake Sonoma. The course is roughly the same as the Lake Sonoma 50 foot race, which occurs the following weekend (Saturday the 11th). Both events share identical operating parameters - remote areas, simplex mode and great country.

April 2015

May will start with a similar double header - Wine Country Century on 2 May and the Human Race on 9 May.

Don't forget we're always looking for good event Comm Bosses - let me know if you're interested. More on Public Service at the April club meeting.

73s Craig K6XLT Public Service Wrangler

## SHOW US YOUR SHACK

For next month's issue we're looking for pictures of real live operational HAM shacks. Whether it be a space you've carved out on the dining room table or a stand alone building with antennae poking out of every available crevice and tower on the top, we want to see it. Please submit your photos to the editor, dave@kraybill.org either directly or via Dropbox.





## **REPEATER PROCEDURES**

Many operators are not waiting for the Repeater to "drop" before beginning their transmission.

When an operator's transmission ends, the repeater will be quiet for a second and then "beep." It is transmitting a carrier signal during this time. The "beep" (courtesy tone) is the signal that the Repeater has finished transmitting and the next transmission should not begin until the "beep" is heard. You can also watch the S meter and/or the Rx light on your radio to see if the Repeater has stopped transmitting. If a transmission begins before the "beep" the Repeater's automatic Time Out Timer (TOT) is activated and may shut down the repeater if too many transmissions are made without a break. Doing so also increases the Repeater's duty cycle and heating.

Please remember to pause a second after keying your transmitter before you begin speaking to allow the Repeater to begin transmitting. If you begin speaking immediately on your key up, the repeater will miss the first few syllables spoken and they will not be heard by the receiving station.

Also do not "kerchunk" the repeater, that is, keying and unkeying your rig without speaking. If you just want to check that you are reaching the repeater by listening for the courtesy tone, just say your call sign and "Radio Check." If you want to check the quality of your signal, say your call sign and "Signal Check Please." Repeat the request a couple of times if at first no one replies. Failure to identify may indicate interference, willful or otherwise, from some source, and is poor amateur practice.



## Next VE Session: Saturday, May 16

Our next VE exam session is scheduled for Saturday, May 16, exact times to be announced. The location will be the Bennett Valley Grange Hall, 4145 Grange Road, Santa Rosa. Walk-ins will be accepted and all test elements will be administered.

(http://www.sonomacountyradioamateurs.com/ve\_testing.html).

**Directions:** From Hwy 101, take Highway 12 East to Farmers Lane. Turn right onto Farmers Lane and then left onto Bennett Valley Road. Stay on Bennett Valley Road approximately 4.1 miles and turn right onto Grange Road. Bennett Valley Grange Hall is 0.5 miles from Bennett Valley Road on the right.

#### Candidates should bring the following:

- One (1) photo ID or two (2) non-photo ID
- FCC Registration Number (FRN, if you have one) or Social Security Number (if you do not have an FRN) If you have had any FCC license assigned to you, amateur or otherwise, or had any prior business with the FCC, you probably have an FRN.
- Original and photocopy of your current amateur radio license (if licensed)

- Original and photocopy of any valid CSCEs (if applicable)

- #2 Pencil and eraser

- \$15.00 exam fee. Checks may be made payable to "ARRL-VEC"

Calculators may be used, but it must be demonstrated that all memories and programs have been erased. The calculator function in a cell phone or PDA may not be used! If you have any special needs, please contact Brian Torr, N6IIY in advance.

Good Luck!

Brian Torr, N6IIY n6iiy@arrl.net (707) 575-5871



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## S.C.R.A GENERAL MEMBERSHIP MEET-ING March 4, 2015

The March 4, 2015 regular meeting of the Sonoma County Radio Amateur Club was called to order at 7:04 pm by President, Pat Coyle KG6JSL.

Board Members present were Pat, KG6JSL; Bryan, N7IIY; Iola, KK6HRE; Mike AD6YB, Joe K6JWA, Jeff KI6PBF, Charlie KZ6T. Guests attending were: Jeff Foster KD6RC, Robert & new member Cornell WA6HMN. A quorum of the membership was present.

**PROGRAM:** Charlie Sikes, KZ6T presented information regarding the Digital Radio system that the Repeater Committee is looking to purchase for the SCRA. Charlie introduced the Repeater Committee: John Felton, KE5RI; Craig Gravert, K6XLT; Dave Harrison, W6IBC; Curt Helstrom, WA6TIP; Eric McHenry, AA6EM; Charlie Sikes, KZ6T; John Tracy, W6SB; and Joe Fortuna K6AWA. Discussions on the Digital Radio system started with a

Survey in 2014 with 54% of membership interested with a Survey in 2014 with 54% of membership interested in the Digital System. John KE5RI and Charlie KZ6T agreed to do research on the digital radio system and prepared a 'white' paper on the topic. The survey was repeated with 74% showing interest if more information was available. Recently, Yaesu offered an \$1800 digital repeater for \$500 to qualifing groups. Digital Voice, like data, is another mode of communication. There are several Big Players in this field who use digital voice repeaters. Charlie discussed the Pro's and Con's of this program.

**RECOMMENDATIONS:** Purchase Yaesu System Fison Repeater and install at English Hill in place of the exiting UHF repeater. This will hopefully increase traffic on the UHF side. All existing Analog UHF radios will work.. Zero impact with the voter system. The committee plans to test this platform before considering moving it to VHF.

BREAK - 8:05 pm until 8:45 pm

**BUSINESS MEETING:** Motion made by Darryl KI6MSP, seconded by Bruce NG6D to approve the minutes of the last meeting as they appeared in the March issue of Short Skip. Motion passed with a delayed vote from Darryl!

# ANNOUNCEMENTS, NEW CALLS AND UPGRADES, LIES AND BRAGS

Dave KI6UGB: Boy Scouts have a new merit badge book that covers Morse Code proficiency. Jeff KI6PBF, amplifier purchased at the auction has been updated and works great. Pat KG6JSL, received an email from Jordon Hurt (707-2314259) about radio equipment his father, Zane Bates WB-6SRU, had. Pat KG6JSL has the complete list of equipment available and says that it just about stocks a full shack. Jack K6ROW has 100 feet of coax cable for sale at about .60 cents per foot. Ed W1EJ reports a Hamfest in Loomis on the 14th of April. Andrew KE6HID reports that a Hamfest is also scheduled on April 25th in Sonoma at the Vets Building.

## **COMMITTEE REPORTS:**

Short Skip Editor Dave KI6UGB, would like feed-back on format and contents. He would like input on subjects of articles you would like to see appear. Darryl KI6MSP suggests a ham radio puzzles. More technical articles for the Short Skip are needed. Send your articles to Dave KI6UGB at dave@kraybill.org. Charlie KZ6T reported that articles from ARRL/QSL cannot be use unless you get reprint approval and give credit to the author and ARRL.

**Education** – Dave W6IBC. We have a full class coming up in two weeks. General question pool tests on March 28th and ALL level tests at the First American Title.

**Emergency Services Chairman:** Brian N6IIY is looking to form a committee on how SCRA can format an Emergency Service program.

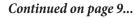
**Membership:** Mike AD6JB reports that there are 124 paid members as of this meeting. \$150 donation has been received from Tour de'Organics. Tax forms are in the process. Mike found a 10v supply. If anyone lost it, see Mike AD6JB to claim.

Field day – Brian N6IIY reports that the Youth Community Park has been secured again this year. Interested persons may sign up. There will be the usual Contests, public events, educational activity, operating under emergency conditions. Saturday night dinner is always enjoyable. We welcome the public to come and see what we are all about.

**OLD BUSINESS** – There was no Old Business to discuss. **NEW BUSINESS** - 1) Digital Repeater: John KE5RI moved that the club approve the recommendation that was presented with the exception to move money for amplifier into another account. Motion withdrawn.

2)Dave W6IBC moved that the club approve the \$2100 (to include the \$500 that the Board of Directors has already approved) for the DR1 repeater and associated hardware, wires, and 2 FC1 transceivers. Matt KJ6LJI seconded the motion. Motion passed. SCRA shall implement a fusion digital repeater system.

**TECHNICAL QUESTION:** A question was asked about the Chirp software being used with MacIntosh? Eric AA6EM said yes and will help and he will write an article for the Short Skip on this topic. John KB6FRZ has a CD ROM that came with a program that does not open. There is





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a solution through the manufacturer.

Dave KI6UGB would like a recommendation for getting portable mobile battery. Joe K6JWA suggests Harbor Freight battery for \$50. Andrew uses a D-cycle battery for mobile use.

NET CONTROL: March 10: Matt KJ6LJI 17: Joe K6AWA 24: Darryl KI6MSP 31: Craig K6XLT Meeting adjourned at 9:05 pm.

Respectfully submitted Iola Beckley KK6HRE

# SCRA BOARD OF DIRECTORS MEETING MINUTES — March 11, 2015

The March 11, 2015 SCRA Board Meeting was called to order by President Pat KG7JSL at 6:07pm at IHOP Restaurant, Fourth Street at Farmers Lane, Santa Rosa. Board Members in attendance included President Pat KG6JSL Vice President Brian N6IIY, Secretary Iola KK6HRE, Past President Charlie KZ6T, Directors Jeff, KI6PBF, Joe K6AWA, and Treasurer Mike AD6YB. Others attending the meeting were ShelleyRae KK6JXM, Doug KF6LMB; Activities Chairperson Darryl KI6MSP, Education Chairperson Dave W6IBC, and Membership Chairperson, Dan WA6CRB. Iola moved to accept minutes of the previous meeting as published in Short Skip. Jeff KI6PBF seconded the motion. Motion carried.

## **Officer and Director Reports:**

Treasurer: Michael AD6YB reports that he has turned the Roster over to George for printing.

Michael AD6YB also reported that he met a member, Roy Johnson KI6FFO who cannot attend meetings and who suggested that we change the date of the meetings. We currently have 121 Members.

Pat's KG6JSL Blog referred members to the website to check if their name was listed correctly. If you find any discrepancies, please contact Mike AD6YB. Discussion was held regarding what information should or should not be put on the website. Members have expressed their concern on having too much personal information available on the SCRA website. Iola KK6HRE & Joe K6AWA indicated that only Name, Call Sign and Email address should be listed. Consensus was to bring this to the members for a vote. **Committee Reports and business:**  April 2015

Blue Ribbon Membership report. Iola KK6HRE reports that a meeting was held on February 26th at 3pm at the Rincon Valley Mobile Estates Club House. Committee Members present were: Lee KE6EAQ; Doug KF6LMB; Mary KK6OVF, Dan WA6CRB, and Iola KK6HRE. The committee's recommendation was submitted in the form of a motion. "A membership committee to be created and added to the By-Laws; A Membership Chairman to coordinate the activities of a Membership Committee; and the Membership Committee to include: Recruiting new members; Merchandise; Refreshments at meetings; Roster; New Member Packets, and a Welcome Committee at meetings." Extensive discussion proceeded with no second to the motion. President Pat KG6JSL declared motion to be dead for the lack of a second. No action taken. Meeting Sign-Ins. The need for meeting sign-ins was questioned. The only reason for the sign-ins is that the Secretary is required to keep a list of members present at all meetings. No one seems to be responsible for preparing a sign-in sheet so Iola KK6HRE reported that she has taken first names and call signs from the Membership List and created a sign-in sheet for the monthly membership meetings. While creating this list a separate column was added so the list could also be used for Net Sign-ins by the Net Control person. This list is not an official list but is available to anyone who wants to be Net Control for the club. Pat KG6JSL stated that there is also a list on the website in Members Only section.

**Field Day:** Tech Bench, \$315 for the City plus \$100 to Brian. Budget covers this expense.

**Rotator:** Dennis Coulter KI6RED was given the program and the program was fully funded. Equipment will be retrieved and the project will be completed during Build Day in August. Brian N6IIY, Charlie KZ6T, and Dave K6IBC will stay on top of this project.

Activities: 1) Darryl KI6MSP has been researching a possible trip to the USS Hornet, however, Keith Farley is moving and there has been no response from KPH. 2) April has a Family Life Camping Expo with Part 2 of the Expo in May. 3) Darryl KI6MSP requests Public Relations events at all SCRA Events. Extensive discussion on when to have a public relations booth was held. The consensus is that this will spread our members to thin. No action taken.

## Continued on page 10...

**Repeater:** Charlie KZ6T reports that equipment has been ordered but he has received no equipment as yet. He expects the equipment to start arriving, possibly, within the next two weeks.

**Old Business:** 1) Mike AD6YB reports that there will be 150 Rosters printed. 2) There are three (3) \$50 HRO Gift Certificates that are still outstanding. HRO states that they will still honor the certificates. It was recommended to give certificates to Charlie KZ6T so he could purchase HT radios and wire boxes at HRO with the outstanding certificates.

**New Business:** 1) Doug KF6LMB has set the dates of August 13, 14, 15, for the Mini DX. Dave KF6LMB, Education Chairman will move the Tech Radio Class two weeks further out in August to the 27th, 28th, & 29th to accommodate this event. 2) Volunteer tracking hours will be taken from the Event Managers of volunteer time spent at events. Charlie KZ6T volunteered to take on this task for 2015. 3) Joe K6AWA wanted to know how the lending equipment was tracked. Charlie KZ6T is the person with the equipment and knows who has the equipment. The two new HT's will be used for tracking at events. These are dual purpose radios. Jeff KI6PBF moved and Joe K6AWA seconded to adjust. Motion carried.

Respectfully submitted. Iola Beckley, Secretary KK6HRE



## How To Work Net Control

The SCRA Net is heard every Tuesday night at 7:00 PM. In addition to member and guest check-ins, it provides the members with Club related announcements about what is going on with the Club and it features Newsline with current ham related news.

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Beyond that, working as Net Control provides valuable radio practice and development of your operational skills and traffic handling. After working Net Control your self-confidence will increase, and providers of Emergency and Public Service nets will have more confidence in your skills as well.

There are no particular tricks to working Net Control, but here are a few hints.

1. First and Foremost, do not be intimidated by the operators who seem to know everyone's name and call sign. Those guys have been doing it for years and can recognize voices. Don't worry about it. The crowd is on your side and will help you succeed.

2. Read and print out the net script from the Club Website <u>http://sonomacountyradioamateurs.com/wp/</u> <u>resources/net-script/</u>

3. Have pencil and paper ready.

4. Take check-ins at a pace you can manage. Five at a time is common, but by no means mandatory. You are the Net Control Operator so you can direct the traffic. Some operators take check-ins by call sign suffix, or prefix, or fewer than 5 at a time. It is your choice.

5. Ask for repeats or clarifications or corrections if there are doubles or you miss something. Accuracy is more important than speed.

So, get active on the Net. We all look forward to hearing you.



#### **April 2015**

## SELECTING A BATTERY FOR PUBLIC SERVICE OPERATIONS Pat Coyle, KG6JSL

Selecting a battery for portable or public service operation should involve more than buying whatever is available for whatever the price. Buying a bigger battery than you need wastes money; buying less than you need limits your time of operation and risks damaging your radio.

Industry standards rate battery capacity in amp hours available from a fully charged battery until the output voltage drops to 10.5 volts. Thus, a battery rated at say 30 amp hours will discharge to 10.5 volts after 30 amp hours of use. The problem for hams is that modern radios will not operate at much below 12 volts, so the full 30 amp hours rated are not available for ham radio use.

A common voltage requirement for modern radios is 13.8 VDC, plus or minus 15%. This gives a usable voltage range of 11.73 to 15.87 volts. Check the Specifications page in your radio manual. Operation outside this range risks damage to the radio. Power output decreases as voltage declines as well. Most batteries will reach 11.75-11.80 volts output at about a 30% charge. Thus, only 70% of the battery's rated capacity is available for ham radio use. When considering a battery purchase, multiply the rated amp-hours capacity by 70% to arrive at the amount of usable amp hours. Our hypothetical 30 amp hour rated battery will reach that 11.75 volt range after about 21 amp hours of usage.

Amp-hours is defined as the rate of current draw multiplied by the time of usage in hours (or fraction of hours). A radio drawing 1 amp will reach our hypothetical 21 amp hours of usable voltage (to 11.75 volts) after 21 hours, or conversely, will discharge to that point after 1 hour if drawing 21 amps. (Actually it is not quite that simple as rates of discharge affect amp hour capacity. However, the numbers used here are close enough for ham radio use.)

To calculate the amp-hours required for an event, multiply the amp draw (from the Specifications page of your manual) by the time of usage in hours or fractions of hours. The popular Yeasu 8800 draws .5 amps on squelch receive (a touch more when actually receiving). Estimate the time in hours the radio will be turned on and multiply by .5 amps. The Yeasu will draw 8.5 amps when transmitting at full power. Estimate the total time you will be transmitting in hours (or fraction thereof), and multiply by 8.5. Add them together for the total amp hours required.

For example, the amp hours needed for the Yeasu 8800 for say, a 5 hour public service assignment would be 5 hours at .5 amps when on receive for a total of 2.5 amp hours. Estimating one hour of actual full power transmission time over the course of the assignment (at 8.5 amps) yields 8.5 amp hours of transmission usage (one hour multiplied by 8.5 amp draw). Add that to the receive usage of 2.5 amp hours for a total of 11 amp hours of required battery capacity. You will need a battery that exceeds 11 amp hours at 70% of its full capacity rating.

Be aware that transmission time is the actual time you are talking. It is easy to overestimate transmission time. Most transmissions will, or should, take less than a minute. (Net Control will be happy if it is even less.) Ten minutes per hour average over 5 hours is a lot of actual key down time unless you are working net control. At most public service events estimating one hour of actual key down transmission time will be more than enough. Think about it. If say, 10 operators at an event were each on the air for 1 hour, the net would be quickly overwhelmed.

Remember too that usage time can be substantially increased by using less than full power. Calculate the amp draw at half power and you have twice the time of usage available. Most people just dial in full power. However, when setting up and checking in with Net Control, first try full power to establish contact then do a comm check at a lower power rating to see how it works. The SCRA repeater can be reached by most places on the Santa Rosa plain and elevated places in central Sonoma County at less than full power. Try it. Using the least required power is not only required by the FCC and is "good amateur practice," it is smart power management.

Continued on page 12...

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## ...Battery Continued from page 11

The average "booster battery" is generally rated at around 18 amp hours, which will give 12.5 amp hours at 70% capacity. Avoid using the cigarette lighter power plug on those batteries if possible. The contacts are poor and I have seen them get stuck. The portable batteries rated at 35 amp hours at Harbor Freight and elsewhere are light, portable and will give you 24.5 amp hours at 70% capacity. This is more than ample for public service events with substantial capacity for extra use. Shop around for good deals.

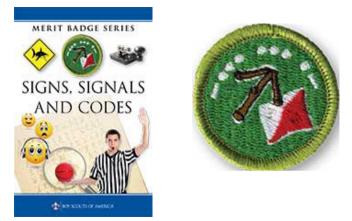
Automotive or marine type batteries have substantially more capacity, up to 100 amp hours, but are heavy and are much larger than needed for ordinary public service events. They do well as emergency power supply batteries when the power grid is down and can be used to power larger radios. Make an adapter for an inverter and they can charge your cell phone and run your computer too. Get the deep cycle type, which will tolerate multiple discharge cycles.

Wiring your battery, radio and accessories for Anderson Power Poles is an excellent idea. There is an article from QST magazine in the March, 2014, Short Skip on how to do this. It is available to SCRA members in the Short Skip Archives which can be accessed on the club website.

It is also a good idea to have a volt meter available to check the battery voltage occasionally. Start thinking about charging your battery as it approaches or falls below 12 volts. Harbor Freight sells cheap digital voltmeters which work fine. Amazon sells the in-line GT Power Wattmeter and Power Analyzer which displays voltage continuously and is very nice to have. This was reviewed in the September, 2014, issue of Short Skip, which is also available in the Short Skip Archives.

Finally, when buying a battery, think about how you are going to recharge it. The "booster batteries" have a simple plug-in. For lead-acid type batteries a cheap automotive battery charger will do the job. Trickle chargers may or may not recharge a depleted battery, depending on its quality (and price). Be sure to check its capabilities.

## Morse Code Rejoins the Boy Scout Merit Badge Line-Up



With the addition of new merit badge, "Signs, Signals and Codes", the Boy Scouts of America bring back the skill of Morse Code communication as part of a merit badge. While complete proficiency is not required, the scout is required to spell his name and send a message in Morse Code.

Morse Code became optional in the requirements for the Radio merit badge when it was revised from "Wireless" to "Radio" in the early 1920s.

This new merit badge approaches Morse Code as one of the many non-verbal communication methods available to our current generation.

Handy learning tools in the references include: Learn Morse Code - http://www.learnmorsecode.com Morse Code Machine - <u>http://www.boyslife.org/games/</u><u>online-games/575/morsecode-machine</u>

Dave Kraybill KI6UGB

## FIELD DAY IS COMING!

It's perhaps the most unique of club activities. It's an odd mixture of contesting, public demonstration, a social event, a technical training session, class on how to set up stations and antennas (and take them down, safely), an acid test for our radios and antennas, and a time to hone our operating skills.

And all that in one action-packed weekend! Specifically, the weekend beginning at around 5pm on Friday, June 26 and ending around 3pm on Sunday, June 28. The location will be the same as last year, Youth Community Park (aka Skateboard Park) at 1725 Fulton Rd, in Santa Rosa, across the road from Piner High School.

## A TRAILER HITCH ANTENNA MOUNT FOR PUBLIC SERVICE By: Pat Coyle, KG6JSL

This trailer hitch antenna mount is cheap to build, easy to use and quite effective. It was inspired by Doug Payne, KF6LMB, who has a similar set up on his truck.

The stem is square steel tubing the size of your trailer hitch. Heavy duty hitches are 2 inches square. Light duty hitches are smaller. Be sure to measure the stem to so it extends beyond your tail gate when it is open.

The mast base is 3/16" flat steel 2" wide bent to a U shape that is welded or bolted to the stem. (If bolted on, loosen the bolt and you can rotate your directional antenna.)The legs are 9" long and it is 4" wide. The dimensions are not critical. I have two left over if anyone wants them.

The mast is about anything you can attach your antenna to. Shown is military surplus camouflage supports but PCV pipe, wooden poles or whatever can be used. Drill two holes in the mast and the U base. Insert the bottom bolt to tilt up the mast and then slip in the upper bolt to hold it in place. Guy lines may or may not be required depending on the height and mast material.

I do like the mag mount adapter. It is 1/8" flat steel plate, with a pipe nipple sized to slip over the mast welded to the plate. The size is not critical, but the larger the plate the better the antenna will perform. An elevated mag mount will work very well from most places.

This is a very flexible set up. Operate from the back of your vehicle, or park at a distance and use good coax to reach your station. Field assembly can be done in less than 10 minutes.

The steel is available at Reliable Hardware in Santa Rosa. Parts are fabricated from standard stock and cost is around \$25.00 cut to length and shape









Valley of the Moon Amateur Radio Club presents HAMFEST 2015 Saturday, April 25th,

# 8 am to 12 noon

Featuring

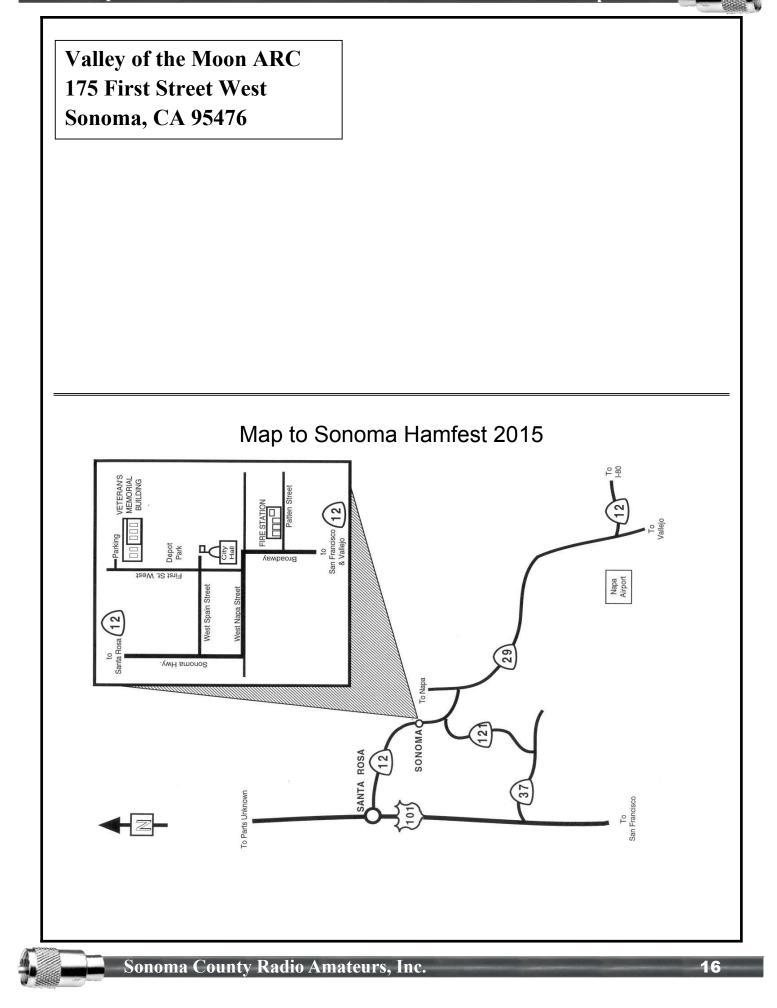
- Swap Meet (indoor and outdoor spaces)
- Breakfast
- VE Testing Session
- Station Demos
- Fox Hunt

PLUS: special exhibit of vehicles that support emergency communications Radio Control helicopter using 70cm. On the air demo of FreeDV digital voice on HF



Sonoma Veterans Memorial Building 126 First Street West Sonoma For info: 707-935-7441 Admission: FREE Breakfast: \$8.00 Talk-in on 145.350 MHz (88.5 pl) for flyer and map: <u>www.vomarc.org</u>

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#### R Ε B N G $\bigcirc$

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**BURBANK, CA** 1525 W. Magnolia Bl., 91506 (818) 842-1786 (877) 892-1748 Eric, K6EJC, Mgr. Magnolia between S. Victory & Buena Vista burbank@hamradio.com

OAKLAND, CA 2210 Livingston St., 94606 (510) 534-5757 (877) 892-1745 Nick, AK6DX, Mgr. I-880 at 23rd Ave. ramp oakland@hamradio.com

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# **KENWOOD**



TS-2000 HF/VHF/UHF TCVR

• 100W HF. 6M. 2M • 50W 70CM • 10W 1.2GHz w/ opt UT-20 module • Built-in TNC, DX packet cluster • IF Stage DSP • Backlit front key panel



## TM-281A 2 Mtr Mobile

• 65 Watt • 200 Memories • CTCSS/DCS • Mil-Std specs . Hi-quality audio



#### TS-590S HF + 6M Transceiver

• 100W HF + 6M • 500 Hz & 2.7 KHz roofing filter · Built-in auto tuner · Best dynamic range in class 32 bit DSP

#### TH-F6A 2M/220/440

• Dual channel receive • .1 - 1300 MHz (cell blocked) RX • FM, AM, SSB • 5W 2M/220/440 TX, FM • 435 Memories Li-Ion Battery



#### TM-V71A 2M/440 Dual Band

AZ, CA, CO, GA, VA residents add sales tax. Prices specifications,

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 High RF output (50W) • Multiple Scan • Dual receive on same band (VxV, UxU) • Echolink® memory (auto dialer) . Echolink® Sysop mode for node terminal ops



• 160-10M/6M/2M/70CM

• 2x DSP • Digital IF filters

· Digital voice recorder

2.5" color TFT display





#### IC-7600 All Mode Transceiver

• 100W HF/6m Transceiver, gen cov. receiver • Dual DSP 32 bit • Three roofing filters- 3. 6. 15khz • 5.8 in WQVGA TFT display • Hi-res real time spectrum scope



#### IC-V8000 2M Mobile Transceiver

• 75 watts • Dynamic Memory Scan (DMS) • CTCSS/DCS encode/decode w/tone scan • Weather alert • Weather channel scan • 200 alphanumeric memories



• D-STAR DV mode operation • DR (D-STAR repeator) mode • Free software download • GPS A mode for easy D-PRS operation • One touch reply button (DV mode) Wideband receiver D-STAR ready





#### FTDX-3000 100W HF + 6M Transceiver

• 100 Watt HF/6 Meters • Large and wide color LCD display • High Speed Spectrum Scope built-in • 32 bit high speed DSP /Down Conversion 1st IF



#### FT-7900R 2M/440 Mobile

• 50W 2M. 45W on 440MHz • Weather Alert • 1000+ Memories • WIRES capability • Wideband receiver (cell blocked)

## FT-60R 2M/440 5W HT

· Wide receiver coverage · AM air band receive • 1000 memory channels w/alpha labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan





#### FT-450D 100W HF + 6M Transceiver

• 100W HF/6M • Auto tuner built-in • DSP built-in • 500 memories • DNR, IF Notch, IF Shift



#### FT-857D Ultra Compact HF/VHF/UHF

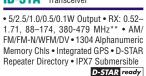
• 100w HF/6M, 50W 2M, 20W UHF • DSP included • 32 color display • 200 mems • Detachable front nanel (YSK-857 required)

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Sonoma County Radio Amateurs, Inc.



## SHORT SKIP ARCHIVES AVAILABLE

Mike, AD6YB, has set up archives for past and present issues of Short Skip. They are available on the Website, log into Members Area, Short Skip, click on the first sentence. Mike has scanned in the old paper issues and it is really interesting to browse through them to see what those guys were doing. There are historical photos as well. An important record of our history and ham radio in general. Good Stuff.

## (Click Me)

April 2015

## DIDN'T FIND WHAT YOU NEEDED?

If you are looking for something more on a topic or your topic of interest hasn't been covered lately, let us know. Something you'd like to see in Short Skip?

Contact the editor, dave@kraybill.org, or for general questions and /or suggestions, k6son@arrl.net

To join the Sonoma County Radio Amateurs, visit our Web site, or complete the following application:

Sonoma County Radio Amateurs, Inc. Membership Application						
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Address W Phone W Phone						
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ARRL Member? Yes [] No [] Receive Short Skip newsletter via email? Yes No						
Dues & Fees: January 1 to December 31		Payment Calculations: Make checks payable to SCRA				
Individual / Associate Member Family Membership	\$20 (\$5.00/qtr) \$30 (\$7.50/qtr)	Dues - Full Year new members only Dues -	\$			
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Call Sign			•			
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