



CLUB STATION
K6SON

Short Skip

The Newsletter of

Sonoma County Radio Amateurs, Inc.

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<http://www.sonomacountyradioamateurs.com>

Repeaters:

English Hill: 147.315+ 88.5 / 441.375 +88.5

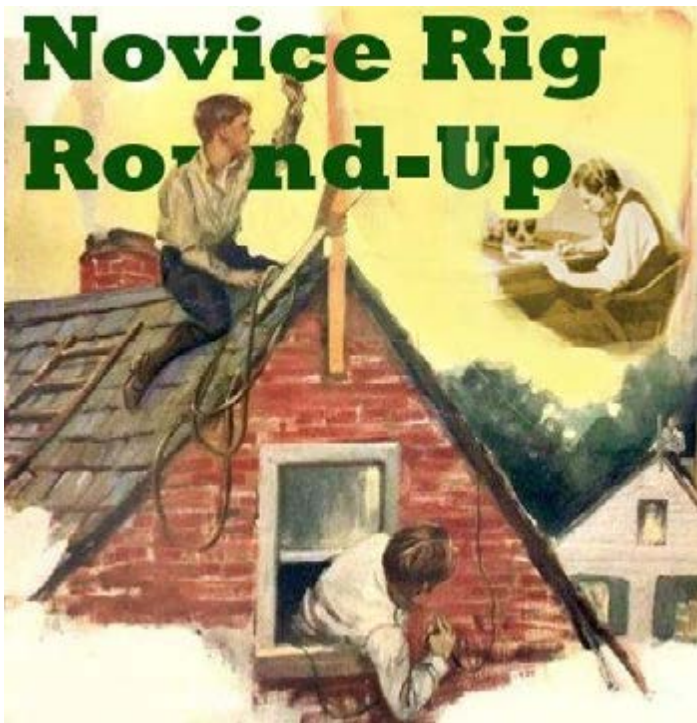


REPEATER STATION
W6SON

Volume 45, Number 3

March 2020

Novice Rig Roundup - Is it Really a Contest?



By Dave KI6UGB

Starting this coming weekend is the Novice Rig Roundup. You will find it on the contest list for March on [page 6](#). It is not your normal contest. It is really an opportunity for everyone who has an older simpler rig to get it on the air.

This event runs much longer than the normal 1- or 2-day contest. In fact, it continues for over a week, opening on Saturday, March 7 at 0000 UTC and closing at day's end on Sunday, March 16, 2359 UTC.

The emphasis here is on dragging the boat anchor out of the closet and applying power to make some contacts the old-fashioned way. There will be rigs on the air with limited frequency range, such as the old crystal sets. Fortunately, you can sign up and let participants know what band(s) you

will be on and check where others are in order to find the rock-bound stations that can't change frequencies.

If you don't have an older rig, you are still welcome to help make contacts on your current set.

Allowed bands are 80m, 40m, 15m, 10m and 2m. Typical NRR "watering holes" are at 3550 - 3650 kHz, 7100 - 7125 kHz, 21.100 - 21.150 MHz and 28.114, 28.120 MHz ... and don't forget to check the colorburst crystal frequency of 3579!

Due to the nature of the contest, part of the logging includes type of rig.

For more information check out the Amateur Radio Newsletter issue at <https://www.amateurradio.com/here-comes-the-novice-rig-roundup-nrr-2020/>

To sign-up and go over the rules go to the event website: <http://www.novicerigroundup.org>



PRESIDENT'S MESSAGE MARCH, 2020

Greetings! As I write, COVID-19 is in an adjacent county, knocking. Although we don't know what communication disruption it might bring, now is a good time to follow the Boy Scout motto "Be prepared". Who



knows, we might have to hunker down in place, and radio is a great pastime. Or be called into public service.

Speaking of public service, SCRA is gauging interest in a great classroom training experience on working public service events as a station operator, radio SAG, or comm boss, and on running the SCRA Tuesday night service net. This training will instill confidence in conducting radio operations that are not difficult and are definitely rewarding. To show your interest, sign up on the SCRA website. The March 18th date is only placeholder subject to change.

March 21st is the confirmed date for the Emergency Communications Class which provides training in radio operations, message handling, and digital modes including a Winlink demonstration. See website.

March 4th is the SCRA membership meeting. The presentation topic is "SCRA Public Service Events for 2020", which dovetails nicely with the training on March 18th.

March 20th is the cutoff to sign up for the April 17-19 Technician license session. Want to become a ham? Contact Darryl KI6MSP to sign up.

Welcome to the nine new hams who graduated from the February class. See details within.

April 1st is the annual Inverse DX ontest with points for closest QSO and a multiplier of inverse S-units. Submit paper logs to the incineration site.

Also in April, public service events start in earnest with the Fish Rock bicycle event on April 4th and the

Lake Sonoma 50 running event on April 11th. Sign up on the SCRA website.

Who wants to learn International Morse Code and get on the air on the HF bands? Technicians, this includes you as you have CW privileges on 80M, 40M and 15M. John WB6FRZ, an instructor par excellence, will be teaching the course. See details within.

- Fred AE6SF

MARCH PROGRAM

SCRA Public Service Events for 2020

by

John Prouty AG6PN and Randy AA6RH



<https://www.bikemonkey.net/>

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 <http://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>

2020 Club Officers

President	Fred Seitel	AE6SF
Vice President	Johnathan Brown	AK6VB
Secretary	Bill Dornbush	AA6BD
Treasurer	Iola Beckley	KK6HRE
Director	Randy Hall	AA6RH
	Warren Pierce	K6WRP
Past President	John Felton	KE5RI

Committee Lineup/Contacts

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Short Skip Advertising Rates

Business Cards	\$12 per month
1st Quarter Column	\$13 per month
Each Additional Quarter Column	\$4 per month
Full page (one side)	\$35 per month
Pre-printed inserts (each)	\$35 per month

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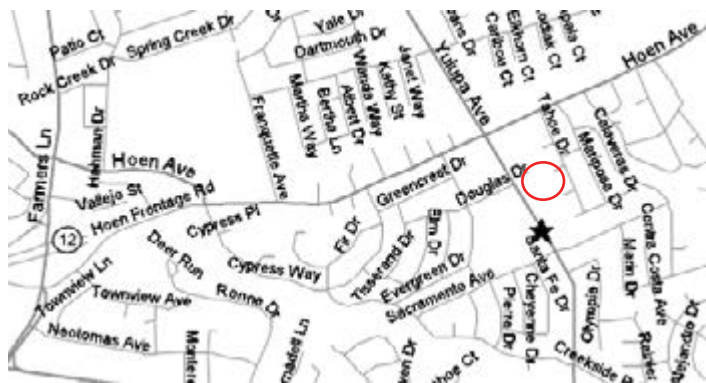


SCRA Club Meetings

The club normally meets the first Wednesday of each month, socially at 6:30 pm, program starting 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 is 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 **Round Table Pizza, 2424 Magowan Dr, Santa Rosa**. People start showing up at 5:15 PM. No RSVP is required.

NEW LOCATION!

Board of Directors Meeting

The SCRA Board of Directors will meet monthly on the Second Wednesday at Round Table Pizza, 2424 Magowan Dr, Santa Rosa. All members are welcome to attend, no reservations necessary. Arrive around 5:00pm for dinner. Meeting starts at 6:00pm.

LOANER RADIOS AVAILABLE

The Club has a variety of radios available to members to try out and improve their skills. We have a Kenwood T590 SG HF radio; Yeasu FT 2900 2 meter mobile; Yeasu FT1D, an analog/digital 2 meter and 440mhz HT; Yeasu FT 60, a 2 meter and 440 mhz HT; and a TYT TH-F5 VHF 2 meter HT. Trying these out is an excellent way to learn some radio and test before you buy. Contact Joe, K6AWA, at k6awa@yahoo.com with your request. Joe will forward an information form to you by return email.

UPGRADE TO GENERAL OR AMATEUR EXTRA CLASS

Get more privileges and enjoyment from your Ham Radio Hobby. Mentoring assistance is available. Contact the SCRA Education Chair, at education@sonomacountyradioamateurs.com.

Tuesday Night Net

The Sonoma County Radio Amateurs' net meets Tuesday at 7:00 PM on the SCRA repeater, 147.315, positive offset, PL 88.5.

All members and guests are invited to check in. The Net includes updates on SCRA activities, and News-line, the amateur radio community news service.

Anyone wishing to work as net control should contact lola kk6hre, at K6SON@ARRL.NET for assignment. Script and logs are available on the Website at <http://sonomacountyradioamateurs.com/wp/resources/net-script/>



The Weekly 160 Meter Net

Announcing the new 160 meter net which runs from 8:45pm to 9:30pm Tuesday nights, immediately following the 10 meter net hosted by Joe K6AWA. Tune your radio frequency to 1.900 Mhz. LSB. 160 meters requires a General or above license to transmit.

Your Tuesday Night Net Line-up

2 Meter Net (Membership Net) on the SCRA repeater, 147.315, positive offset, PL 88.5

10 Meter Net - starts at 8:00pm (new time) following the regular SCRA net Tuesday nights and ends at 8:45pm. Set your dial to 28,403.00 SSB, USB. Please note that all license classes (including technician) are welcome.

160 Meter Net - runs from 8:45pm to 9:30pm. Tune your radio frequency to 1.910 Mhz. LSB. 160 meters requires a General or above license to transmit.

Digital Mobile Radio Sonoma County Talk Group 31707!

The club's DMR footprint continues to expand! We established a beachhead on DMR and the BrandMeister network of repeaters and hotspots by adding a talk group for Sonoma County. We are using talk group number 31707 to keep in touch on DMR and be able to discuss local news and topics of interest. The use of a talk group like 31707 allows a wider variety of Sonoma County DMR hams to be able to consistently reach each other on the air. Best of all, the 31707 talk group can be reached on hotspots as well as repeaters, meaning you can tie into your local community wherever you are!

Sonoma County DMR Net happens on Thursdays at 6:30 PM PT.

We also started a DMR net for Sonoma County (using talk group 31707) that lets us practice a little bit of traffic handling, while also allowing us to get together and talk about ways we can integrate DMR into our normal operating habits. Currently Randy AA6RH runs net control. If you have a DMR radio, make sure to program it (or ask Randy to help you program it) to include talk group 31707 on any of the area DMR repeaters (there are at least four in Sonoma County.) and join us on Thursday evenings!

2020 SCHEDULE OF EVENTS

Check the [Club website](#) for details

Mar 21	Em Comm Class
Apr 4	Fish Rock Bicycle Adventure
Apr 11	Lake Sonoma 50
Apr 17	Family Camping Expo
Apr 17-19	Technician Class
Apr 19	ARRL Rookie Roundup SSB
Apr 25	VE Testing
May 2	Wine Country Century
May 2	Human Race
May 23	VE Testing
Jun 1 - Sep 25	Beginning Morse Code Class
Jun 13	Sonoma Cnty CF Cycle for Life 2020
Jun 14	Monte Rio Vineman Triathlon
Jun 20	Terrible Two – SRCC
Jun 26-28	Field Day
Jul 10-12	Technician Class
Jul 12	Night of Nights at KPH
Jul 18	VE Testing
Jul ?	Sonoma County Fair
Aug 15	International Lighthouse Weekend
Aug 15-16	Mini DX, with NA QSO Party
Aug 29	Tour de Fox
Sep 12-13	Waves to Wine
Sep 18-20	Technician Class
Sep 26	VE Testing
Oct 3	Levi's GranFondo
Oct 17	Jamboree on the Air
Oct 17	Pacificon STEM presentation
Oct 26	North Bay Science Discovery Day
Nov 6-8	Technician Class
Nov 14	VE Testing
Dec 2	Holiday Party

Reporter Wanted for Contest Corner

Frank NQ6E will be retiring from Contest Corner after the April issue. Short Ship is looking for a reporter to replace him in this capacity.

Qualifications for this position are mainly an interest in contesting. If you have experience in contesting that is a plus, but not completely necessary. As a reporter you could expand your current knowledge by contacting other operators and documenting their experiences. There is a lot of information available online as well. Interested persons should contact Dave KI6UGB at shortskipeditor@gmail.com.

CONTEST CORNER

Welcome to March 2020 and Contest Corner.

Contesting may not be your primary amateur radio activity or even in your consideration yet it is a sport that is continually growing in popularity amongst hams. The ever changing dynamics of amateur radio and solar conditions make for constant variation within radiosport. Worldwide participation can be expected in all DX contests, propagation driven of course. All modes are represented so no particular favorite is left out of the excitement. This in turn provides for more available choices for us to listen in, or join in with a clean signal using our best radio etiquette. Aim for clear, concise, and respectful contest qsos.

The month of March continues to provide a variety of contests for interested hams. A cw op can find a pick on any weekend be it a sprint, challenge, QSO Party, or other contest with cw in mind. Keep FISTS and SKCC in your search and experience a more relaxed pace with ops that are willing to work with new cw operators as well as experienced ones. A ssb op can't go wrong with the ARRL International DX Contest, SSB on March 7th and/or CQ WW WPX Contest, SSB on the 28th. These two favorites will test and increase your knowledge of propagation and operating skills while giving you a good assessment of your station.

Don't forget the state qso parties and any digital contest that may further enhance your skills. The North American Sprint, RTTY is on the 15th if that suits you or maybe try Feld Hell on the 21st. There are always a number of dedicated contests for Qrp ops that keeps reminding us of that growing segment within amateur radio. So whatever you choose, have fun!

Do not forget to check out <http://www.contestcalendar.com>

Contact nq6e@arrl.net for questions/comments/suggestions regarding Contest Corner.

72/73,
NQ6E

Bruce Draper, AA5B, aa5b.corral@gmail.com

Contest Corral

March 2020

Check for updates and a downloadable PDF version online at www.arrl.org/contests.

Refer to the contest websites for full rules, scoring information, operating periods or time limits, and log submission information.

Start - Finish Date-Time	Finish Date-Time	Bands	Contest Name	Mode	Exchange	Sponsor's Website
1 1200	1 1400	7	SARL Hamnet 40-Meter Simulated Emergency Contest	Ph	RS and serial	www.sarl.org.za
1 1200	1 2200	3.5	NSARA Contest	CW Ph Dig	RS(T), county (if NS)	nsara.ve1cfy.net/?page_id=82
1 1500	2 0059	3.5-144	North Carolina QSO Party	CW Ph Dig	NC county or SPC	ncqsoparty.org/rules
2 2000	2 2130	3.5	RSGB 80-Meter Club Championship, Data	Dig	RST, serial	www.rsgbcc.org/hf
3 0200	3 0400	3.5-28	ARS Spartan Sprint	CW	RST, SPC, power	arsgrp.blogspot.com
3 1900	3 2100	3.5	AGCW YL-CW Party	CW	RST, serial, name	agcw.org/index.php/en
4 2000	4 2100	3.5	UKEICC 80-Meter Contest	Ph	4-char grid square	www.ukeicc.com
5 1800	5 2200	28	NRAU 10-Meter Activity Contest	CW Ph Dig	RS(T), 6-char grid square	nrau.net/activity-contests
5 2000	5 2200	1.8-50	SKCC Sprint Europe	CW	RST, SPC, name, mbr or power	www.skccgroup.com
7 0000	8 2359	1.8-28	ARRL International DX Contest, SSB	Ph	W/VE: RS + SP Non-W/VE: RS + power	www.arrl.org/arrl-dx
7 0000	15 2359	3.5, 7, 21, 28, 144	Novice Rig Roundup	CW	Name, QTH, rig and/or NRR number	www.novicerigroundup.org
7 0600	7 0800	7, 14	Wake-Up! QRP Sprint	CW	RST, serial, suffix of previous QSO	qrp.ru/contest/wakeup/333-wakeup-eng
7 1200	8 2359	1.8-50	SKCC Weekend Sprintathon	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
7 1800	8 1359	1.8-28	Open Ukraine RTTY Championship	Dig	2-letter region (state/province/canton, etc.), serial	krs.ho.ua/openrtty
8 0700	8 1100	3.5	UBA Spring Contest, CW	CW	RST, serial, UBA section (if ON)	uba.be/hf/contest-rules
8 1800	8 2200	3.5	WAB 3.5 MHz Phone/CW	CW Ph	RS, serial, WAB square or country	wab.intermip.net
9 0000	9 0200	1.8-28	4 States QRP Group Second Sunday Sprint	CW Ph	RS(T), SPC, mbr or power	www.4sqrp.com
11 2000	11 2130	3.5	RSGB 80-Meter Club Championship, CW	CW	RST, serial	www.rsgbcc.org/hf
11 2300	15 2300	7, 14	AWA John Rollins Memorial DX Contest	CW	RST, equipment type and year	www.antiquewireless.org
14 0000	14 2359	3.5-28	YB DX RTTY Contest	Dig	RST, serial	rtty.ybdxcontest.com/dx-station-rules
14 1000	15 1000	3.5-28	RSGB Commonwealth Contest	CW	RST, serial	www.rsgbcc.org/hf
14 1200	15 1000	144, 432, 1296	SARL VHF/UHF Analogue Contest	CW Ph	RS(T), 6-char grid square	www.sarl.org.za
14 1200	15 1200	3.5-144	F9AA Cup, SSB	Ph	RST, serial	www.site.urb.asso.fr
14 1200	15 1200	28	South America 10 Meter Contest	CW Ph	RS(T), CQ zone	sa10m.com.ar/csa10m_rules.html
14 1400	14 2000	3.5-28	AGCW QRP Contest	CW	RST, serial, class, mbr or "NM"	agcw.org/index.php/en
14 1500	15 1500	1.8	Stew Perry Topband Challenge	CW	4-char grid square	www.kkn.net/stew
14 1500	15 2100	3.5-50	Oklahoma QSO Party	CW Ph	RS(T), county or SPC	k5cm.com/okqp.htm
14 1600	15 1600	3.5-28	EA PSK63 Contest	Dig	RSQ, EA province or serial	concurso.ure.es/en
14 1800	15 0559	3.5, 7	TESLA Memorial HF CW Contest	CW	RST, serial, 4-char grid square	radiosport.org.rs/HFTeslaMemorial
14 1800	15 1800	1.8-50	QCWA QSO Party	CW Ph Dig	Last 2 digits of year first licensed, name, SPC or QCWA chapter	qcwa.org/W2020-qso-party-rules.pdf
14 1900	15 1900	1.8-28	Idaho QSO Party	CW Ph	County or SPC	pocatelloarc.org/idahoqsoparty
14 2200	14 2300	1.8-28	QRP ARCI Spring Thaw SSB Shootout	Ph	RS, SPC, mbr or power	qrparki.org/contests
15 0000	15 0400	3.5-14	North American Sprint, RTTY	Dig	Other station's call, your call, serial, name, SPC	ncjweb.com
15 0700	15 1100	144	UBA Spring Contest, 2 Meter	CW Ph	RS(T), serial, UBA section (if UBA)	uba.be/hf/contest-rules
15 1800	16 0100	All (no WARC)	Wisconsin QSO Party	CW Ph Dig	County or SPC	warac.org/wqp/wqp.htm
16 0200	16 0400	1.8-28	Run for the Bacon QRP Contest	CW	RST, SPC, mbr or power	qrpcontest.com/pigrun
16 1800	16 2059	3.5, 7	Bucharest Digital Contest	Dig	RST, serial	yo3test201x.blogspot.ro/p/blog-page.html
17 1700	22 1700	3.5-28	CLARA Chatter Party	CW Ph	RS(T), name, SPC	clarayl.ca/chatter-party
19 0030	19 0230	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or power	naqcc.info
21 0200	23 0200	3.5-28	BARTG HF RTTY Contest	Dig	RST, serial, 4-digit UTC time	www.bartg.org.uk
21 1200	22 1200	1.8-28	Russian DX Contest	CW Ph	RS(T), 2-char oblast or serial	rdxc.org/asp/pages/rules.asp
21 1400	21 1800	144, 432	AGCW VHF/UHF Contest	CW	RST, serial, power class, 6-char grid	agcw.org/index.php/en
21 1400	22 2359	All (no WARC)	Virginia QSO Party	CW Ph Dig	Serial, VA county or SPC	qsl.net/sterling/VA_QSO_Party
21 2000	21 2159	1.8-28	Feld Hell Sprint	Dig	RST, mbr, SPC, grid	sites.google.com/site/feldhellclub
22 0700	22 1100	3.5	UBA Spring Contest, SSB	Ph	RS, serial, UBA section (if ON)	uba.be/hf/contest-rules
25 0000	25 0200	1.8-28	SKCC Sprint	CW	RST, SPC, name, mbr or power	www.skccgroup.com
25 2000	25 2100	3.5	UKEICC 80-Meter Contest	CW	4-char grid square	www.ukeicc.com
26 2000	26 2130	3.5	RSGB 80-Meter Club Championship, SSB	Ph	RS, serial	www.rsgbcc.org/hf
28 0000	28 2359	1.8-VHF	FOC QSO Party	CW	RST, name, mbr (if FOC member)	g4foc.org/qsoparty
28 0000	29 2359	1.8-28	CQ WW WPX Contest, SSB	Ph	RS, serial	www.cqwp.com
30 1300	31 0400	1.8-28	QCX Challenge	CW	RST, name, SPC, rig	qrp-labs.com/party.html

All dates refer to UTC and may be different from calendar date in North America. Times given as AM or PM are local times and dates. No contest activity occurs on the 60-, 30-, 17-, and 12-meter bands. Serial = Sequential number of the contact. S/P/C = State, Province, DXCC Entity. XE = Mexican state. Publication deadline for Contest Corral listings is the first day of the second month prior to publication date (May 1 for July QST) — send information to contests@arrl.org. Listings in blue indicate contests sponsored by ARRL or NCJ. The latest time for a valid contest QSO is the minute listed in the "Finish Time" column.

Sierra Foothills Amateur Radio Club's - W6EK.ORG

Loomis Hamfest 2020

Saturday, March 21st

First Swap of the Year - Rain or Shine

Historic Loomis Train Depot
5775 Horseshoe Bar Road, Downtown Loomis

6th Annual Loomis Hamfest
Meet & Greet Everyone - Visit
the ARRL Booth - Door Prizes
Hourly - Fusion, DStar, DMR
Workshop - Free Parking



Elmer Tours - Test Bench - Hot
Coffee and Donuts - Taylor's
Lunch Deal - SFARC Club Table

Buyers 7 AM - Noon
Sellers 6 AM

Grand Prize @ 11 AM



SFARC is an ARRL Affiliated and Special Service Club. ARRL is the National Organization Representing Amateur Radio Operators. Stop by the ARRL Booth and visit with Dr. Carol Milazzo, KP4MD, Sacramento Valley Section Manager.



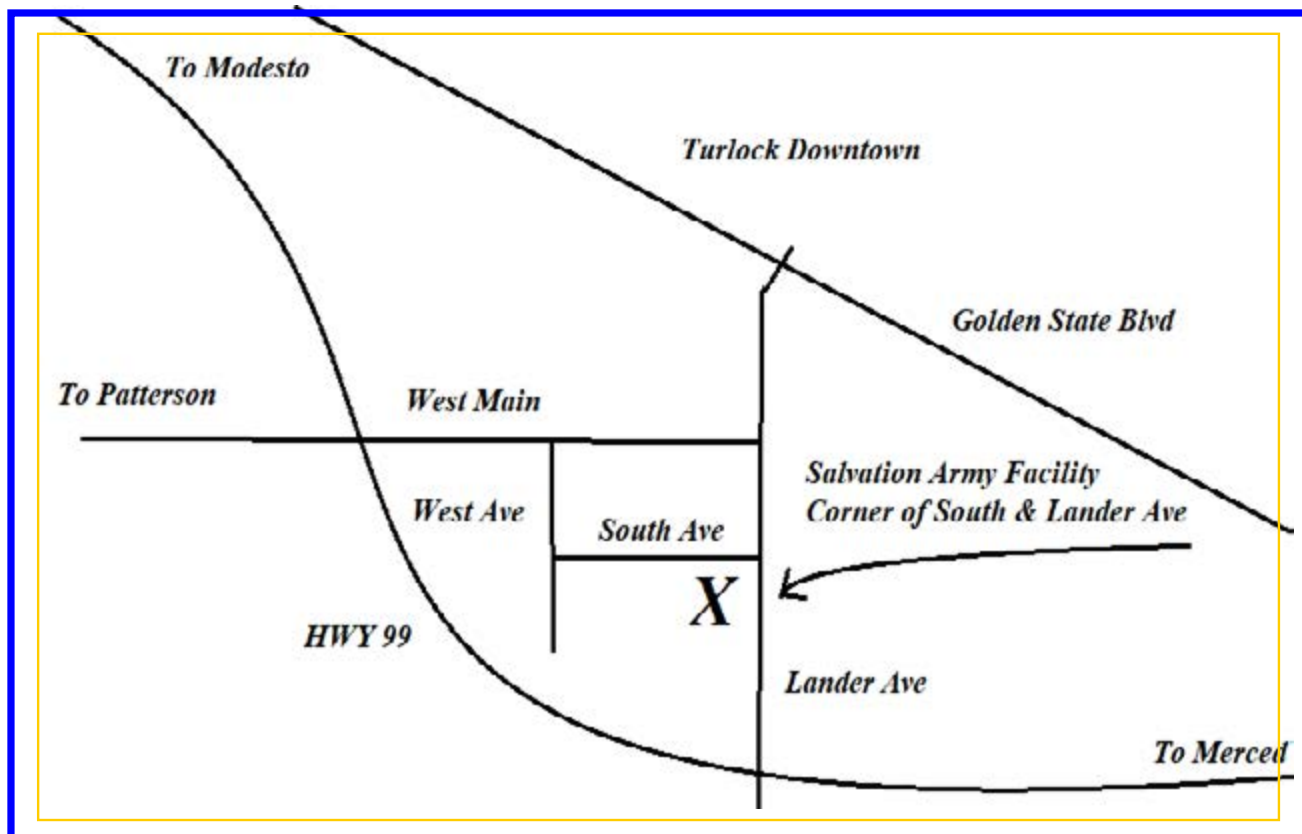
Talk-In - W6EK 145.430 PL 162.2 Hz - Talk-In

Turlock Amateur Radio Club Spring (Estate) Auction

Check pictures at www.w6bxn.org/auction/
Additional Items pending

Saturday April 18 2020
Doors open 8:00 am, Auction begins at 9:00
Lunch Fixins, Tri-Tipery - Tri-ip sammiches...

Salvation Army Facility
893 Lander Ave
Turlock CA



SCRA Merchandise QST

The limited edition SCRA 80th Anniversary Lapel Pins are available at \$5 each. These stylish 1.25" lapel pins feature our full color 80th Anniversary logo with an epoxy dome finish and a military/butterfly clutch back to secure the pin in place.

They not only look good on a lapel, but they'll give your hats, sweaters, jackets and tote bags that SCRA touch.



The SCRA/Halls webstore is on-the-air! Just tune your internet device to the website hosted by Halls Executive Gifts and Awards (AKA Frederick Engraving) at <http://scra.hallsapparel.com>.

This time, when you order a shirt, in the style, color and size of your choice, it will be available for pickup within a couple of weeks. And now you also have the option to either pick it up from Halls yourself or pick it up at a future membership meeting.

Most members have found that the shirt sizes fit as expected, but if you tend to run in between sizes, we recommend the larger size.



Please email any questions and comments to merchandise@sonomacountyradioamateurs.com.

SCRA Membership QST

The SCRA membership stands at 222, after 22 expired 2019 memberships were moved to the Past Members table on February 7, 2020.



Welcome new and returning members:

- Andrew Lee Associate Sebastopol
- Ed Peoples WA6DDO (T) Forestville
- George Gilsinan KN6HTT (T) Forestville
- Les Goldner Associate Santa Rosa
- Martin Olmsted KN6CAJ (T) Santa Rosa
- Martin Wood Associate Santa Rosa
- Maureen Chlubna Associate Santa Rosa
- Nick Zanolini Associate Santa Rosa
- Richard Stevens WB7APG (G) Santa Rosa
- Rick Richard KG6UZF (G) Santa Rosa
- Ron Fahey Associate



New call signs: none reported



License Class Upgrades: none reported

If you have recently achieved a new license class, obtained a new call sign, or changed your address, email or phone, please email membership@sonomacountyradioamateurs.com with your update. And don't forget to report your address change to the FCC!

Membership Count by License Class	
License Class	Count
Advanced	2
Amateur Extra	65
General	59
Technician	84

We have **12** Associate members.

154 SCRA members are ARRL members.



EMERGENCY COMMUNICATIONS CLASS

We will hold an emergency communications class on Saturday, March 21, 2020. The class will be held at the City of Santa Rosa Utilities Field Operations Building, Room M, the City EOC room, at 35 Stony Point, just south of College. Class will start at 9:00 AM. Come a bit early for coffee and donuts.

The class will be in 3 one hour segments. First will be Radio Operations by Pat, KG6JSL. Next will be message handling by Brian, N6IYY, followed by Charlie, K6ZT, and Bill, AA6BD presenting digital modes with a Winlink demonstration.

This will be an interactive class. Bring your HT. A frequency will be assigned at the class to test your ability to operate your radio. Register for the class on the Club website, and/or email Pat at coylaw@sonic.net. Course material will be emailed to you for review before the class.



Winter Field Day 2020 – Some Closing Comments

Now that I've collected all the logs and submitted them to the Winter Field Day Association, it looks like we did a little better than I thought.

While we didn't make as many contacts as last year, comparing this year's claimed score to the results from last year, we would have ranked 17th out of 134 entries in the Indoor category. Out of the 16 "4I" entries in 2019, we would have ranked 8th.

Considering the issues we had to deal with, I'd say we did pretty darned well! With a little better weather, we most likely would have had more operating time. And with a few improvements to the antenna layout I think we could have reduced our interstation interference. Both of these would have contributed significantly to our performance.

I want to thank all those of you who participated in any way with making Winter Field Day 2020 a reality. It's not too early to begin thinking about where we might hold WFD 2021. If you have any suggestions, please pass them along.

73,
Brian Torr, N6IYY
Winter Field Day Chairman





ROYAL LIFE for JANUARY, 1948

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EMERGENCY COMMUNICATIONS



IN AN EMERGENCY COMMUNICATION IS IMPORTANT AND COMMUNICATIONS PREPAREDNESS SHOULD BE A PART OF YOUR "FAMILY ALERT" PLAN.

IF ELECTRIC POWER IS OUT—A CRYSTAL SET MAY BE THE ONLY WAY TO KEEP IN TOUCH WITH LATEST NEWS, DISASTER REPORTS AND EMERGENCY INSTRUCTIONS. BECAUSE IT NEEDS NO BATTERIES OR ELECTRICITY.

THE SIMPLEST RADIO—THE CRYSTAL SET IS COMPOSED OF FEW PARTS AND CAN BE WIRED IN MANY WAYS. THE SET SHOWN ON THIS PAGE WAS MADE FROM:



1 A MAILING TUBE (SHELLACED) 2 1/2" IN DIAMETER BY 7" LONG, WRAPPED WITH #22 GAUGE WIRE FOR THE TUNING COIL.



2 A STRIP OF COPPER OR BRASS FOR THE TUNING SLUG.



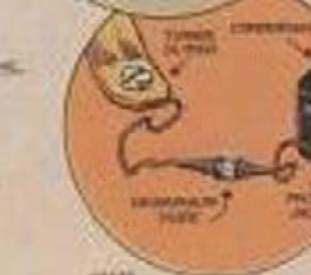
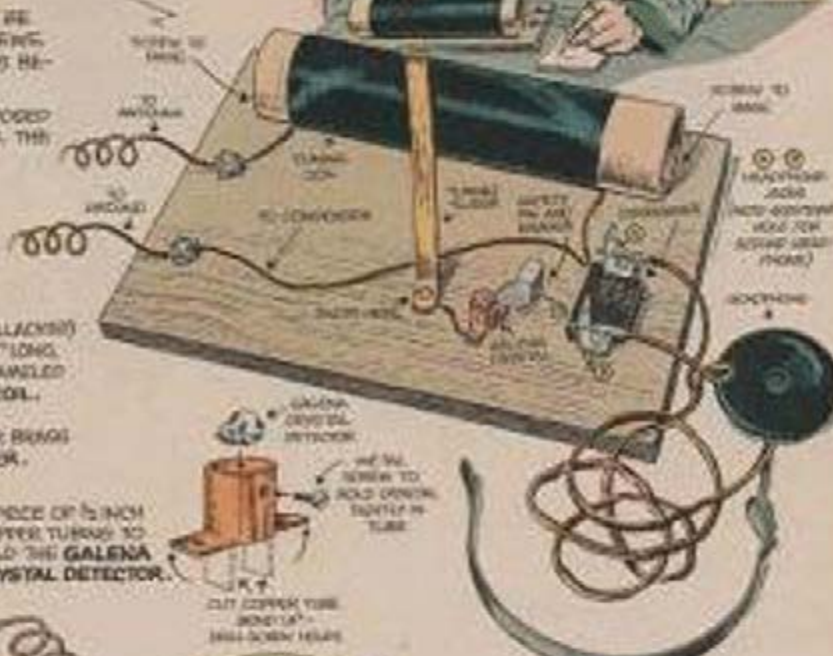
4 A BENT SAFETY PIN AND RUBBER ERASER...OR A PIECE OF COILED WIRE AS A CATWHISKER DETECTOR.

OR IN PLACE OF THE GALENA CRYSTAL...USE A GERMANIUM DIODE AS A DETECTOR. BUT THIS ISN'T AS MUCH FUN BECAUSE ONE OF THE THINGS OF BUILDING A CRYSTAL SET IS FINDING A SENSITIVE SPOT ON THE CRYSTAL THAT WILL BRING IN A RADIO SIGNAL.

3 A PIECE OF 1/2 INCH COPPER TUBING TO HOLD THE GALENA CRYSTAL DETECTOR.



WIRE TO HOLD GALENA CRYSTAL DETECTOR. WIRE TO HOLD COPPER TUBING. CUT COPPER TUBE BENEATH - BRILLIANT RESULTS.



THE ONLY VARIATION IN THIS SET IS IN USING A GERMANIUM DIODE IN PLACE OF THE GALENA CRYSTAL. WHEN SOLDERING WIRES TO A GERMANIUM DIODE DON'T HEAT TOO LONG OR YOU'LL DAMAGE THE DIODE. HOLD WIRES WITH LONG-NOSED PLIERS WHICH WILL DRAW OFF HEAT.



DON'T GIVE UP IF THE SET DOESN'T WORK AT FIRST. CHECK YOUR DIODES, ANTENNA, GROUND AND CONNECTIONS. USUALLY THE SET'S O.K. BUT IT'S EASY TO MAKE A SMALL MISTAKE.

- 5 A .01 MFD. (MICROFARAD) CONDENSER (OR CAPACITOR WHICH MEANS THE SAME).
- 6 10 NUTS AND 9 SCREWS TO HOLD CONNECTING WIRES AND PARTS IN PLACE ON THE 6" BY 8" PINE MOUNTING BOARD.
- 7 BRASS OR COPPER CLIP TO HOLD EXTRA SETS OF EARPHONES.
- 8 AN EARPHONE (ONE FOR EACH LISTENER)...CAN BE FROM A TRANSISTOR RADIO IN SOME CASES.
- 9 AN ANTENNA—USE A 100-FT. PIECE OF BELL CORD WIRE OR USE YOUR TV ANTENNA. IF YOU USE AN OUTDOOR ANTENNA, BE SURE TO ATTACH INSULATORS AT EACH END AND A LIGHT WIRE INSULATOR BETWEEN ANTENNA AND SET. MOUNT ANTENNA AS HIGH AS POSSIBLE AND AVOID CONTACT WITH ANY OTHER WIRES.
- 10 A BATTERY—USE A WATER WPC.





SCRA Code Class

(●●● -●-● ●-● ●- -●-● -●-● ● -●-● ●-●● ●- ●●● ●●●)

By John Breckenridge, WB6FRZ



Radio's rugged ranks in the Thirties
Enlisted chaps like old G5BD
Who never sat around wringing his hands
About contributions and countries lists
Or griped about slow factory service
On a chrome-trimmed Superduper-IV.
OM G5BD, with only one good arm
Couldn't wring his hands anyway
And had bigger problems to lick
Like no a.c. mains and a 10-watt limit.
Other things he had a-plenty
Were guts and that old ham spirit
So G5BD worked DX—and had a ball.
(Photo via W2GP)

Do you hold a Technician class license and want to use skywave on 80, 40, and 15 meters? You DO have privileges on those bands! Do you hold a General class license and want to take advantage of the lower frequency portions of your HF bands? Want to try making some HF code contacts hiking in the mountains?

the repeater during the week!

Contact John Breckenridge, WB6FRZ, for more information:

wb6frz@arrl.net
707-217-1017

For those of you who want to make use of the privileges the FCC has already granted you, come learn code on Monday evenings beginning June 3rd! This class is focused on beginners but if you know some code already then come join in on the fun anyway!

The class meets from 6:30 until 8PM on Mondays from June 1st through September 28th at a location to be determined.

You will learn to send and receive code and how to make radio contacts using code. There will be homework but you knew that was the case anyway, didn't you? It doesn't matter, we have a lot of fun in class and we might even have a code practice net over



Sonoma County Radio Amateurs Membership Meeting Minutes for February 5, 2020

Call to order and review agenda: The meeting was called to order at 7:00 pm.

The president, Fred Seitel AE6SF, reviewed the agenda and determined that a quorum is present.

Board members present: Fred Seitel AE6SF, Johnathan Brown AK6VB, Iola Beckley KK6HRE, Bill Dornbush AA6BD, Randy Hall AA6RH, John Felton KE5RI

Absent: Warren Pierce K6WRP

New members: Martin Woods, WB7APG Richard Stevens

Guests: Steve KN6HHN, Scott Woodham, Ron Fahey

NET CONTROL: The following members are the net control stations for:

Feb 11 – Jon WB6FRZ

Feb 18 – Brian N6IYY

Feb 25 – Kenn N4NTJ

Mar 3 – Dan KK6VIQ

Announcements Upgrades Lies Brags:

March Topic: Public Service by John Prouty AG6PN and Randy AA6RH

LMR Group Buy: KZ6T Charlie asked is there interest in LMR400, and if so, send an email to KZ6T@arrl.net

Darryl KI6MSP noted that a [draft band plan was published on arrl.org](#) proposing to the FCC including digital formats and technician privileges.

The Library has an emergency preparedness event and will start CERT training, see socoalert > events > Library.

Charlie KZ6T noted the results of the NA QSO Party, and that his team placed second in Mendocino County (out of 3).

Johnathan AK6VB said that at last month's meeting, he lost his badge, has not found it, and asked if anyone else had found it.

Andrew KE6HID said that the Marin County repeater at Big Rock was off the air.

Refreshments:

Fred AE6SF asked for signups for the future.

Feb-Apr: Erin K6ERI, Nick N1CKA

May-Jul: food John WB6FRZ and Carrie, setup and teardown Jeff KI6PBF

Radio loaner program: Joe K6AWA said we have all kinds of gear, contact him at K6AWA@yahoo.com. We have an Anytone radio missing and he asked if anyone knew who had it.

Program: Tri-Band Antenna TBJ-1 by Ed Fong WB6IQN who joined us via the Internet for his presentation on j-pole antennas and his patented tri-band antenna.

Approval of minutes: John KE5RI moved that the minutes of the January membership meeting be approved as posted in Short Skip. Rick WW6RC seconded the motion. It was approved by voice vote.

OLD BUSINESS - none

NEW BUSINESS

2020 Budget Approval: Fred AE6SF explained the budget proposed. John KE5RI moved that the budget be approved as proposed, Darryl KI6MSP seconded, and the motion carried on voice vote.

2020 Schedule of Activities: Fred AE6SF presented the schedule. Darryl KI6MSP noted that we could not participate in the Jan 18 event.

REPORTS

Treasurer report: Iola KK6HRE reported that both Federal and state report have been filed, and the balances on our bank accounts.

Continued on page 14...

Minutes continued from page 13...

Social committee: Iola KK6HRE noted no activity

Activities: no chair. Iola KK6HRE volunteered to be activities chair.

Community outreach: Darryl KI6MSP asked for participants in future activities.

Growing Radio Amateurs: Bill AA6BD has connected with the Sebastopol Maker group, Chimera, and wants to present amateur radio to community makers.

Education & CW class: Fred AE6SF reported that there is a Feb 14-16 Tech class with the place TBD. John WB6FRZ would like to do a CW course starting June 1 and ending Sept 28 one evening a week probably Monday.

Field Day: Brian N6IYY recapped Winter Field Day and showed a map of the sections we contacted. We got 2412 QSO points, 4500 bonus points, and should end up around 9000 points. Charlie KZ6T made a satellite contact for 1500 bonus points, and Iola KK6HRE brought Lasagna dinner for all.

Field Day may be at Youth Community Park.

Emergency Communications: There is planning for a Class 3/21 on WinLink as a disaster management tool. Darryl KI6MSP noted that there is ACS Level 1 training on Feb 29 at the county EOC and anyone interested should contact him.

Merchandise: Dan KK6VIQ will be replenishing stock in XXL and asked for interest.

Membership: Dan KK6VIQ said we have 212 members for 2020 now.

Repeater: Erin K6ERI said the DMR repeater has been moved to a new coordinated frequency.

DX Team: position is open

VE testing: Brian N6IYY noted the next sessions are with the tech class and the following weekend.

Public Service: Randy AA6RH asked for comm bosses for the events. Fred AE6SF is the comm boss for Fish Rock. Eric AA6EM is the comm boss for Lake Sonoma 50. Next month will be the kickoff. Darryl KI6MSP moved that we adjourn. Iola KK6HRE seconded the motion. The motion carried on voice vote. The meeting adjourned at 9:24.

Respectfully Submitted,
Bill Dornbush AA6BD

SCRA HAM OF THE MONTH RECIPIENTS			
Year	Month	Name	Call Sign
2020	Feb	--	--
2020	Jan	Cornell	W6HMN
2019	Dec	--	--
2019	November	Doug	KF6LMB
2019	Aug/Sep/Oct	Scott	KJ6QIQ
2019	June/July	Carol	KK6OLL
2019	May	Randy	AA6RH
2019	Apr	John	WB6FRZ
2019	Mar	Erin	K6ERI
2019	Feb	Fred	AE6SF
2019	Jan	Dave	KI6UGB
2018	Dec	--	--
2018	Nov	Iola	KK6HRE
2018	Oct	Dan	KK6VIQ

(Click cover to open magazine.)



SCRA BOARD OF DIRECTORS MEETING MINUTES

Date: February 12, 2020

The meeting was called to order by Fred Seitel AE6SF at 6 pm. A quorum was present.

Board members present: Fred Seitel AE6SF, Johnathan Brown AK6VB, Iola Beckley KK6HRE, Bill Dornbush AA6BD, Warren Pierce K6WRP, John Felton KE5RI, Randy Hall AA6RH.

Absent: none

Others: Dan Drummond KK6VIQ, Charlie Sikes KZ6T, Pat KG6JSL, Philip KF6GNH, Doug KF6LMB, John WB6FRZ, Howard Sidorsky K6SID, Jeff Tonelli KI6PBF

Approval of previous meeting minutes: Iola KK6HRE moved that the minutes from the January Board meeting as published in Short Skip be approved, John KE5RI seconded, and the motion was approved by voice vote.

OFFICER AND DIRECTOR REPORTS

Treasurer report: Iola KK6HRE reported on our account balances.

COMMITTEE REPORTS

Activities – Iola KK6HRE is working with Darryl KI6MSP for a USS Hornet visit with the Alameda radio club, and is hoping for 3 events this year. Howard K6SID noted that he was a member of the Alameda club and has connections there.

Community Outreach – Through Fred AE6SF, Darryl KI6MSP reported the county fair still is questionable, SCRA will have booth at air show if it happens, and the North Bay Science Discovery Day will be held March 13, 2021 due to recent October fires.

Growing Radio Amateurs – Bill AA6BD – is meeting with Will Bradley KG7PTW on the Chimera Maker Space on Saturday.

Education & Mentoring – Cornell W6HMN wishes to resign effective immediately. There is a Technician class coming this week, and the other instructors will make it happen. Fred AE6SF is looking for a new chair, with Fred AE6SF as the temporary chair. It was suggested we change the web site.

Emergency Service – Pat KG6JSL met with Charlie KZ6T and Bill AA6BD, and there will be a Saturday, March 21 class, a 3 hour course. Pat KG6JSL will instruct on radio operations, Brian N6IYY will instruct on message handling, and Charlie KZ6T and Bill AA6BD will demonstrate Digital methods. There will be homework and an announcement in short skip, with signups on the website and directly to Pat KG6JSL. Randy AA6RH will set up a web form for signups.

Field Day – Brian N6IYY – not present
Volunteer Examiners – Brian N6IYY – not present

Membership – Dan KK6VIQ – We have 219 renewals. Bill AA6BD will generate a revised roster March 1.

Merchandise – Dan KK6VIQ – will get new shirts to restore stock, and it is open to anyone to order short sleeve t-shirts, and maybe some items for outreach for Darryl KI6MSP.

Newsletter – Dave KI6UGB – not present

Website – Dave KI6UGB – not present

Programs – Randy AA6RH - There will be a launch of public service in April, with events every month except July, through October. The program on public service will be at the March membership meeting with John Prouty and others. Randy is considering a possible class on public service, and he is looking for comm bosses for some events. He got good comments on Ed Fong's program, and will send a spreadsheet for antenna orders, and will put a recording on the web site and make slides available.

Continued on page 16...

BoD Minutes continued from page 15...

Public Service – Randy AA6RH – see Programs above.

Radio Loanout program – Joe K6AWA – not present

Refreshments – Fred AE6SF is getting signups three months at a time.

Repeater – Erin K6ERI – not present

OLD BUSINESS

Credit card proposal: no action

Information: Adam McLaughlin KD6POC requested he be dropped from membership as he will remain associated with the Marin club.

John WB6FRZ discussed the Morse code class day of week, as there is Monday conflict with Emergency Comm nets. He could do on Friday, 6:30 – 8, will put blurb in short skip and weekly blog. Board suggested it be held on Monday if that works best for John.

NEW BUSINESS

Calsites wants annually to have copy of our insurance. Pat said he needs to be on as additional insured. Randy indicated he received an email asking for certificate as additional insured, and lola got it for him. Bob wants it annually without asking for it. Lola will check our policy to see if Calsites is listed as additional insured. It was suggested that we check the MOU.

Howard K6SID noted that he will be busy moving into his house and said he will make himself available as we ask him to.

lola KK6HRE asked that board members sign the bank signature page at the end of the meeting.

The Board resolved to revise signatures for our

Exchange bank account to the current officers of president, vice president, secretary, and treasurer and to remove the past president.

The meeting ended at 6:51 pm. Randy AA6RH moved that we adjourn, Bill AA6BD seconded, and the motion passed on voice vote.

Respectfully Submitted,
Bill Dornbush AA6BD

Field Day – Let's Show the Public What Amateur Radio is All About

When the ARRL proclaimed the first “International Field Day” in 1933, the purpose given was: “Besides offering an opportunity to get out in the open in this fine spring weather, the real object of this contest is to test “portables” wherever they may be available. If successful we want to make it an annual affair.”

Nowadays, Field Day is on the fourth full weekend in June (no longer spring). So this year it will be June 27 and June 28.

But it is still a means of testing our ability to operate at sites away from our normal stations and working “off the grid”.

Perhaps most importantly, however, it gives us a chance to demonstrate these capabilities to the general public.

On top of all that, it gives us a chance to socialize. We can even camp out on Saturday night.

Which brings us to Field Day 2020. Although June 27/28 may seem like a ways off, there is still quite a lot of planning to be done and we have scheduled several planning meetings. The first is coming up very soon, on Saturday, March 14, 10:00am to 11:30am, at the Field Day site, Youth Community Park, 1725 Fulton Road, Santa Rosa (across the road from Piner High School). If you are interested in any aspect of Field Day, please join us. Bring your own chair.

One of our first items on our agenda will be to find leaders for the many volunteers positions. Check out the Field Day website for the complete list (<http://sonomacountyradioamateurs.com/wp/events/field-day/>). You don't have to be a seasoned ham to be eligible.

Continued on page 17...

Field Day continued from page 16...

This is an event for all hams, regardless of skill level, to learn how to setup and operate HF and VHF stations in the field.

There will also be an Educational Activity on Saturday, June 27 (time TBD). I am looking for suggestions on what to do for this, so if you have any ideas, please let me know.

Most likely, we will have four HF stations: SSB, CW, Digital, and GOTA

What's "GOTA"? GOTA stands for "Get On The Air". It is an opportunity to introduce new hams, or even non-hams, to operating on the HF bands. Hams that have been licensed for several years, but have been generally inactive on HF are also eligible to participate.

We also hope to be able to make a satellite contact.

There will also be a barbeque dinner Saturday evening.

There is also a possibility of holding an Exam Session on Saturday, June 27, starting about noon or 12:30 pm and being done by 2:30pm. This will be the last opportunity (via SCRA, at least) to take an Extra class exam based upon the current question pool. A new set of questions takes effect July 1.

As you can see, Field Day should be an event-packed weekend. If you are looking to learn something, anything, about amateur radio, this will be the weekend to do it.

If you can make it to our next planning meeting on Saturday, March 14 at 10am, wonderful. If you can't make it, please send me an e-mail with any suggestions you may have or how you think you can help.

Let's make Field Day 2020 a huge success!

Brian Torr, N6IYY
 SCRA Field Day Chairman
 Tel: (707) 575-5871 (home)
 (707) 953-0377 (mobile)
n6iyy@arrl.net

On the Air Magazine

(<http://www.arrl.org/read-on-the-air>)

On the Air magazine is the newest ARRL member benefit to help new licensees and beginner-to-intermediate radio communicators navigate the world of amateur radio. Delivered six times a year, the magazine will present articles, how-to's, and tips for selecting equipment, building projects, getting involved in emergency communication as well as spotlighting the experiences of people using radio to serve their communities, and those using it for enjoyment.

Whether you just passed your Technician exam or have been licensed for years but never got around to making contacts or starting a project, On the Air can help you take your interest in radio to the next level with clear, useful information.





Ooh, ooh, I have a Question!

From the NEW 2019 -2023 General Class Question Pool:

G4E04 (B)

Why is it best NOT to draw the DC power for a 100 watt HF transceiver from a vehicle's auxiliary power socket?

- A. The socket is not wired with an RF-shielded power cable
- B. The socket's wiring may be inadequate for the current drawn by the transceiver
- C. The DC polarity of the socket is reversed from the polarity of modern HF transceivers
- D. Drawing more than 50 watts from this socket could cause the engine to overheat

And What About This?

From the Extra Class Question Pool:

E2C10 (D)

Why might a DX station state that they are listening on another frequency?

- A. Because the DX station may be transmitting on a frequency that is prohibited to some responding stations
- B. To separate the calling stations from the DX station
- C. To improve operating efficiency by reducing interference
- D. All these choices are correct

[New Amateur Extra Question Pool Released](http://arrl.org)

01/27/2020 (<http://arrl.org>)

The new Amateur Extra-class license examination question pool, effective from July 1, 2020, through June 30, 2024, has been released and is available at the [National Conference of Volunteer Coordinators \(NCVEC\) website](http://www.ncvec.org).

The [2020 - 2024 Extra-class pool](http://www.ncvec.org) incorporates significant changes compared to the current 2016 - 2020 question pool, which expires on June 30. The number of questions in the pool was reduced from 712 to 622. The result was 239 modified questions, 49 new questions, and 139 questions removed due to changes in what was felt to be an abundance of outdated questions, while areas of new technology and subjects were added.

In addition, an effort was made to balance the difficulty level, removing or replacing some questions deemed too easy or too

difficult compared to the rest of the pool. The 2020 pool has 10 diagrams, which have been renumbered because the new question pool has two fewer than the 2016 question pool.

Nine New Hams

Our February 14-16, 2020 Technician Class and subsequent VE exam resulted in the following nine persons earning their Technician Class license: Jennifer KN6HVJ, Michaela KN6HVK, Cynthia KN6HVL, Brad KN6HVM, Katherine KN6HVN, Sunali KN6HVO, Margie KN6HVP, Ronald KN6HVQ, Jean Wasp KN6HVR.

Congratulations one and all! When you hear them on the air, give them a call.

I give thanks to the instructors who donated their weekend: Darryl KI6MSP, Dave W6IBC, Jeff KI6PBE, John WB6FRZ, Fred AE6SF (yours truly). Thanks also go to Brian N6IYY and his VE team: Andru KJ6YFD, Bill WB6JAO, John KE5RI, Mary KG6GEX, Tom AF6TB.

The next class is April 17-19, 2020 with location to be determined. Sign up with an email to Darryl at education@sonomacountyradioamateurs.com.
- Fred AE6SF

Mentors

Having a problem with your equipment? Can't get the SWR down or your radio won't tune up? Notice some smoke escaping from your transceiver? You may need some help but where to go for this help. You could come to the club meetings and talk to people to see if they can help. You're bound to find someone to help you.

Help can also be found at the SCRA web site (sonomacountyradioamateurs.com). Just log in and click on the Member Area and then click on Mentors. Here you will find a list of hams that are willing to help out so you can your problem solved and get back on the air.

[SCRA Education Chair](http://sonomacountyradioamateurs.com)

SCRA Net Check-ins for 2019

by Dan KK6VIQ

While looking through old Short Skips on the website, I ran into an article in the Jan 2013 issue by Charlie KZ6T, the incoming SCRA President. It listed statistics for check-ins to the Tuesday night SCRA Net from 2012. This inspired me to report similar statistics from the data I had gathered in 2019 using the SCRA Net Control Lookup Tool spreadsheet.

2019 began and ended on a Tuesday, so there was a total of 53 SCRA Nets. I captured check-ins for 83% or 44 nets. I missed 9 nets, so my data only reflects trends. Here are my stats, using Charlie's format.

- There were 1,778 individual check-ins.
- The highest weekly total was 54 on Oct 8th.
- The lowest weekly total was 32 on May 7th.
- The average weekly total was 40.
- There were 17 individual net controls.
- Iola KK6HRE controlled the most nets with 8, followed by Darryl KI6MSP with 7 and Brian N6IIY with 6.

Thanks to all the 2019 Net Control Operators: AB7LG, AD6YB, AE6SF, K2IBE, K6AWA, K6ERI, K6ROW, KC6CTT, KF6LMB, KI6MSP, KK6HRE, KK6VIQ, KM6CPU, KZ6T, N4NTJ, N6IIY, WB6FRZ
I acknowledge my top 41 check-ins for 2019.

PLACE	CALL	CHECK-INS
1	K6TJP	42
1	KI6MSP	42
3	AE6SF	41
4	KK6HRE	39
4	KM6GYT	39
4	W6GEE	39
7	N7MOE	38
8	KC6CTT	37
8	KF6LMB	37
8	N1CKA	37
8	N6IIY	37

PLACE	CALL	CHECK-INS
12	KB6AQW	36
13	K6AWA	35
14	K6ERI	34
14	KG6BHI	34
14	KJ6BQM	34
14	KK6CPH	34
18	KK6QVH	33
18	N4NTJ	33
20	AK6VB	31
20	K6WRP	31
22	KD6WYH	29
23	K6BES	28
23	K6ROW	28
23	N5PSM	28
26	AA6BD	27
26	W6LZJ	27
26	WA6TIP	27
29	AG6CI	26
29	K6UIT	26
31	WA6IOQ	25
32	KI6TIJ	24
33	KE6HID	23
34	AD6YB	22
34	K6BX	22
34	WB6FRZ	22
37	KQ6OB	20
37	N6MEL	20
39	KB0EAT	18
39	W6HMN	18
41	AA6EM	17
41	KC6NEW	17
41	KF6GNH	17
41	KI6UGB	17
41	KM6DYD	17

Any corrections? ~ 73 ~



Sonoma County Radio Amateurs, Inc.
PO Box 116, Santa Rosa, CA 95402

(Please print & fill out the form and mail it in with your check payable to SCRA.)
 (Please check all that apply)

Date: _____ New Member: Renewal:
 1) Name: _____ Call Sign: _____ License Class: _____
 Address: _____ City: _____ Zip: _____
 Cell Phone: _____ Home Phone: _____
 Email: _____ Show contact info in Roster:
 ARRL Member:

SCRA Dues: The renewal date for SCRA dues is January 1st. Dues are \$20/year for individual, \$30/year for families, and \$15/year for youth (under 18).

*** Prorated Dues for New Members Only:** Reduced dues after the 1st quarter.
 2nd Quarter April–June: \$5.00 off — 3rd Quarter July–September: \$10.00 off
 4th Quarter October–December: Pay the yearly dues for next year and get the rest of this year free.

Family Membership Members:

2) Name: _____ Call Sign: _____ License Class: _____
 Address: _____ City: _____ Zip: _____
 Cell Phone: _____ Home Phone: _____
 Email: _____ Show contact info in Roster:
 ARRL Member:

3) Name: _____ Call Sign: _____ License Class: _____
 Address: _____ City: _____ Zip: _____
 Cell Phone: _____ Home Phone: _____
 Email: _____ Show contact info in Roster:
 ARRL Member:

4) Name: _____ Call Sign: _____ License Class: _____
 Address: _____ City: _____ Zip: _____
 Cell Phone: _____ Home Phone: _____
 Email: _____ Show contact info in Roster:
 ARRL Member:

I would like more information about:

- | | |
|--|---|
| <input type="checkbox"/> a) Public Service Events | <input type="checkbox"/> f) Training Classes |
| <input type="checkbox"/> b) Field Day (4 th Saturday in June) | <input type="checkbox"/> g) VE License Exams |
| <input type="checkbox"/> c) Contesting & DXing | <input type="checkbox"/> h) Field Trips |
| <input type="checkbox"/> d) Emergency Services | <input type="checkbox"/> i) Short Skip Newsletter |
| <input type="checkbox"/> e) SCRA Net Control | <input type="checkbox"/> j) SCRA Committees |
| <input type="checkbox"/> f) SCRA Loaner Radio Program | <input type="checkbox"/> k) Other _____ |

SCRA Dues: Individual \$20, Family \$30, Youth (under 18) \$15 (*see Pro-Rated Dues above)	\$ _____
Name Badge: \$10 each Please circle clasp type, either Clip or Magnet.	\$ _____
1) Call Sign: _____ First Name: _____ City: _____	Clip or Magnet
2) Call Sign: _____ First Name: _____ City: _____	Clip or Magnet
3) Call Sign: _____ First Name: _____ City: _____	Clip or Magnet
4) Call Sign: _____ First Name: _____ City: _____	Clip or Magnet
	SCRA Logo Patch: \$5 each \$ _____
	SCRA Logo Decal: \$2 each \$ _____
Please make check payable to SCRA.	Total Amount Due: \$ _____

HAM RADIO OUTLET

MULTI-STORE BUYING POWER!

ICOM



IC-9700
All Mode Tri-Band Transceiver



IC-7300
HF Transceiver



IC-7100
All Mode Transceiver



ID-5100A Deluxe
VHF/UHF Dual Band Digital Transceiver



ID-51A Plus2
VHF/UHF D-STAR Portable

KENWOOD



TS-590SG
HF/50MHz Transceiver



TM-D710G
2M/440 Dualband



TM-V71A
2M/440 DualBand



TM-281A
2 Mtr Mobile



TH-D74A
2M/220/440 HT

YAESU
The radio



FT-991A
HF/VHF/UHF Transceiver



FT-891
HF+50 MHz All Mode Transceiver



FT-450D
A100W HF + 6M Transceiver



FTM-400XD
2M/440 Mobile



FT-70DR
C4FM/FM 144/430 Xcvr

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- **PHONE** – Toll-free phone hours 9:30AM - 5:30PM
- **FAX** – All store locations
- **ONLINE** – WWW.HAMRADIO.COM
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Contact HRO for promotion details. Toll-free including Hawaii, Alaska and Canada. Call will be routed to the nearest store. All HRO 800-lines can assist you. If the first line you call is busy, you may call another. Prices, specifications and descriptions subject to change without notice.



SHORT SKIP ARCHIVES AVAILABLE

Mike, AD6YB, has set up archives for past and present issues of Short Skip. They are available on the Website under the tab, Our Club. 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.

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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, shortskippeditor@gmail.com or for general questions and /or suggestions, k6son@arrl.net

SHORT SKIP NEEDS YOUR INPUT

SHORT SKIP ARTICLES WANTED

Dave, KI6UGB, our Short Skip editor is always looking for articles of interest. They can be technical, a good (or bad) experience that other members may learn from, hints or kinks that worked for you in solving a problem, or just about anything ham radio related. Send your contributions to Dave at shortskippeditor@gmail.com

