



The

September 2019

# Propagator

The Monthly Newsletter of the South Orange County Amateur Radio Association

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## General Meeting

September 16,  
2019  
7:00 PM

NP Murray  
Center  
Veterans Way  
Mission Viejo

## President's Message, September 2019

FCC Proposed Rule Making Changes

Those of you who follow the FCC's doings, you may not have seen the following.

From the ARRL Website: The FCC is seeking public comment on proposed changes to the way rule making hearings will be conducted. The changes, promoted in the name of efficiency, are as follows (assuming I understand them correctly):

The current practice in rule making and other administrative matters, involves a public hearing before an administrative law judge. This resembles civil law adjudications, in that the parties present their arguments, verbally as well as written, with each side also to attempting to verbally rebut the arguments of the other side, and to present evidence to support their verbal testimony.

The new FCC proposal is to eliminate verbal witness testimony, and to have each side submit their cases in writing only, thereby providing the basis for the judge to make a ruling. The FCC argues that this will greatly streamline the rule making process. This is where I take issue and encourage all of you to inform yourselves of this proposed change, and to submit your written comments to the FCC.

My concern is that this proposed new process will enable the commercial concerns to easily drown out the concerns of the amateur community, with pages and pages of written testimony, together with pseudo-science evidence, that will enable them to successfully continue their relentless assault on the amateur spectrum which we now enjoy. Our spectrum is extremely valuable and could be monetized by commercial interests to the tune of millions, or probably billions of dollars.

I urge you to read the proposal, form an informed opinion, and then express that opinion in a comment to the FCC. The comment process

as well as the specifics of this proposed change can be found on the FCC website here: <https://docs.fcc.gov/public/attachments/FCC-19-86A1.pdf>

More info is also available from the ARRL here: <http://www.arrl.org/regulatory-advocacy>

On another and positive note, the recent proposal to the IARU by France, to reassign part of the current 2 meter band to aeronautical use has been withdrawn by the authors, and is at this time, no longer up for consideration. No longer, that is, until the next time, because this is but one more example of the constant attempts by other commercial interests to grab our amateur spectrum, and another good reason to remain vigilant and back the efforts of the ARRL and others to defend it.

73 and thanks for reading.

**Ray, AE6H**

## **General Meeting - September 16, 2019**

**Norman P. Murray Center, 24932 Veterans Way, Mission Viejo**



Please join us at the Norman P. Murray Center in Mission Viejo, CA on Monday, September 16th at 7:00 pm for our General Meeting with our guest speaker Bob Brehm from Palomar Engineers.

Is your transmitter the SOURCE of RFI affecting electronic devices in your own house or your neighbor's house? Would you like to find a quick and easy solution so you can have more time to operate and enjoy ham radio rather than troubleshooting RFI issues?

Are you the VICTIM of RFI from your own electronic devices or from devices in your neighborhood? Do you want to reduce your receiver noise floor so you can hear local contacts and more DX?

If you answered YES to either of these questions, then you should attend this presentation where you will learn how to make ham radio more enjoyable by eliminating problems caused by RFI.

Bob Brehm, AK6R is Chief Engineer of Palomar Engineers (Palomar-Engineers.com), and has been a ham for over 50 years with experience in contesting, RTTY, amplitude modulation, vintage radio restoration, boat anchors, linear amps and unique antennas. He is active on 3.870 AM and 3.895 Vintage SSB as well as other nets offering his expertise to new and old hams alike.

**Contacting Soara:** Questions about SOARA? Postal mail: P.O. Box 2545, Mission Viejo, CA 92690  
Send e-mail to [membership@soara.org](mailto:membership@soara.org) or leave a message at 949-667-0173  
Facebook: K6SOA Twitter: @K6SOA

Ham Radio Examinations will be administered at 6:00 PM, prior to the start of our general meeting. Cost is \$15/attempt. Pre-registration is not required and you don't need to be a SOARA member to take the test.

**Erik Wresch W6INE**  
**Vice President/SOARA**

**SOARA Elmer Saturday (SES) September 21**  
**Murray Center, Antenna Analyzers**

The September SOARA Saturday will be on the 21st at the Murray Center, 9am to noon, coffee and donuts will be provided. The theme is Antenna analyzers, bring your analyzer, antennas or both. I will bring a few analyzers and some demos.

If you want to be an Elmer, please talk to me. The main requirement is the willingness to help fellow amateurs with your knowledge and experience. I will gladly make you a special green SOARA Elmer badge! Goto: [www.soara.org/elmers-corner/](http://www.soara.org/elmers-corner/)

We need to work on next year's 2020 calendar. Tim K6TJO offered some of his ideas below, I added more, let me know what you want...

- D-Star Clinic, DMR, Fusion Clinic
- Emergency power and radio operation (October 2019)
- Magnetic loop antenna and automated tuner (SOARA Faire)
- Antenna Analyzers & Antenna Workshop (September 2019)
- EchoLink & IRLP Clinic - All about using EchoLink & IRLP
- Tape measure antennas, attenuators
- Electronic Kit building / Soldering / Safety
- Arduino and Raspberry Pi project demos
- SDR on Raspberry Pi 4
- 3D Printing ham radio parts
- Field strength meter (Past kit building SES)
- QRP, Pixie radio kit (Past kit building SES)
- CW Morse code getting started (need Elmer)
- How to setup a HF rig, what to buy & why
- Dipole antennas, baluns, random wire, need subject matter expert
- Electronics basics, ohms law, measurements
- Radio basics, building oscillators, filters...EMI / RFI (September Meeting)

**73,**  
**Ed, WA6ED**  
**SOARA Elmer Saturday Coordinator**

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## Membership Report

Dues are due in October. Please help make this process as smooth as possible. This is the busiest time for this director position. So, help me out and pay your dues promptly. We will send a mailing as usual. Also make sure to check if you have a credit. Many new members have a significant credit. No new members since last month.

Let me know if anybody needs help with an application! Receive the most from your membership and participate go to [www.soara.org](http://www.soara.org) and check out the calendar for activity information. Get radio-active!

**73,  
Ed, WA6ED  
SOARA Membership Director**

## Change in SOARA Non-Profit Status Bylaws Change

SOARA is in the process of compiling the application to change our non-profit tax status from 501(c)(7) to 501(c)(3), which would make all donations to the Club tax deductible if approved. The I.R.S. requires specific wording that our current Dissolution Clause does not contain. In accordance with our Constitution, making the necessary change to our By-laws requires a vote of approval from 2/3 of our membership.

Please review the change as approved by our Board of Directors. Within the next few days you will receive an e-mail ballot. The Board recommends that you vote for Approval so we may move forward with the application process. In accordance with our Constitution, any votes not cast will count as "In Favor".

### Current Wording:

X. Dissolution of the Club can be determined by unanimous approval of the Board and two thirds (2/3) approval of the membership. In the event that SOARA members and officers approve dissolution of the club, All Club property, including repeaters, radios, antennas, etc., shall be donated to the American Radio Relay League (ARRL). All coordinated frequencies revert to the respective area coordination boards and/or authorities, and any and all revenues shall be donated to the American Radio Relay League (ARRL).

### New Wording Approved by Board:

X. Dissolution of the Club can be determined by unanimous approval of the Board and two third (2/3) approval of the membership. In the event that SOARA members and officer approve dissolution of the Club, all Club assets shall be distributed to one or more amateur radio organizations that qualify under I.R.S. Section 501(c)(3), or corresponding section of any future tax code, at the time of distribution. The specific organization(s) selected to receive the assets shall be determined by a majority vote of the Board at the time of dissolution. Any such assets not so disposed of shall be disposed by a Court of

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Competent Jurisdiction of the county in which the principal office of SOARA is then located, exclusively for such purposes or to such organization or organizations, as said Court shall determine, which are organized and operated exclusively for such purposes.

Reasoning:

- Incorporates language required by the IRS
- It doesn't make sense to donate large equipment such as repeaters and antennas to the ARRL. With proposed wording the Board could approve donating cash assets to the ARRL, and equipment to a local amateur radio club that qualifies.
- Board discussed that there is no need to specifically address coordinated frequencies.

**73 de NI6X**

**Lori Carey, Treasurer**

**[Equipment For Sale - Donated by Hal Silverman's Family](#)**

Hi to all from the custodian of Hal's (WB6WXO)'s amateur radio estate". We have sold quite a bit of gear so far, but there is still a lot left. If you put in a bid to buy something and did not get a response please e-mail me again with your requests and I will do my best to fulfill them. If anyone out there knows of someone who really likes old Heathkit gear we are willing to make them a good deal on radios, power supplies, and amplifiers. There is also a complete TS-520 Kenwood radio set.

Thank you for your patience and understanding. Note: All items are subject to prior sale and will be sold to the first acceptable bid.

Kenwood TS-520S Transceiver  
Kenwood MC-50 Microphone  
Kenwood VFO 520 Remote VFO  
Kenwood SP-180 Speaker  
Industrial Communication Engineers Model 621 Lowpass RF Filter Assembly  
Yaesu YH-55 Headphones  
MFJ 962C Versatuner III Antenna Tuner  
TC 142 Sencore Tube Checker  
Yaesu FT-7800 Transceiver w/mic, speaker, 2 antennas  
Box of Switches, SWR meters  
Box of Heathkit manuals  
Heathkit HW-100 Transceiver  
Plastic box labeled "Heath Parts"  
Assorted small tubes, loose  
Plastic box of tubes  
Heathkit Single Bander SSB Transceiver with cover attached  
Diamond SX-200 SWR Power Meter  
Heathkit HW-12 SSB Transceiver  
Variac  
3 large tubes  
Alinco DR135 single band 2M transceiver  
Alinco DR235 single band 220mhz transceiver  
Alinco DR435 single band 440Mhz transceiver  
Marion Meter Tester (wood case)  
BK Precision 4003 Function Generator  
Global Specialities Model 3200 Dual Display LCR Meter  
CFX-324 Comet Triplexer  
RCI -2950 10M Transceiver w/mic  
Uniden Speaker ESP 25  
Dentron MT200A Antenna Tuner  
Heathkit SB-100 Transceiver without cover  
Heathkit Single Bander SSB Transceiver without cover

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Uniden Speaker ESP 25 (second)  
Heathkit SB-101 without cover  
2 "Little Joe" kits, built  
Siglent Oscilloscope  
3 Misc Antennas  
2 MFJ Dummy loads  
Alpha Delta 2 port Antenna switch  
Astron RS4 power supply  
Alinco DR-235 transceiver 22Mhz (second?)  
(2) Kenwood TH-F6A Handheld transceivers  
Rapid charger for Kenwood TH-F6A with battery  
Aluminum box with variable capacitor(?)  
Heathkit HW-102 SWR Bridge  
Misc cables  
M-9803 R Multimeter  
Heathkit HS 1661 Speaker  
Heathkit Single Bander SSB Transceiver with cover loose  
Heathkit manuals, loose  
LCM 1950 Multimeter new in box  
Heathkit SB-101 with cover  
Heathkit SB-200 Amplifier  
Regulated DC power supply APS-5A30V  
Kenwood Station Monitor SM-220  
(2) MFJ 392-B Headphones  
(2) small antenna switches  
Heathkit HP-10 Transistorized power supply  
CDR Antenna Rotator  
Heathkit HW-101 Transceiver  
PS Regulated Power Supply 30V5A  
Eico 232 Voltmeter  
Simpson 1699 Voltmeter  
MFJ 962C Versatuner III Antenna Tuner  
Marion M2 Meter Tester (wooden box)  
Power Design 4005 R Transistorized Power Supply  
Astron type power supply  
Heathkit HW-100 Transceiver  
Heathkit HP-10 Transistorized power supply  
Heathkit HP23B AC Power Supply  
Heathkit IP-17 Regulated Power Supply  
Lodestar Signal Generator SG-4162 AD  
RSR DC Power Supply HY3002-3  
Heathkit SB-100 w/o cover  
Heathkit HW-101 Transceiver w/o cover  
Heathkit HW-101 Transceiver w/o cover  
Heathkit Single Bander SSB Transceiver w/o cover  
Heathkit HW-100 w/cover  
Assorted Heathkit covers/cases  
Astron RS-35M power supply  
Plastic bins of assorted tubes and headphones

**Thanks**

**Heiko AD6OI [ad6oi@soara.org](mailto:ad6oi@soara.org)**

## **[SOARA Equipment For Sale Online Site](#)**

Based on numerous requests from SOARA members for a place to post Ham Radio related items for sale to other club members, we have set up an opt-in based Mailman mailing list on our server. Interested SOARA members are invited to join the mailing list. The SOARA organization and Board of Directors do not provide any warranty or guarantee for the items being advertised, buyer beware!

To subscribe, navigate to:

<https://soara.org/mailman/listinfo/forsale>

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Enter your "real" email address, not your at "soara dot org" alias. You must be able to send and receive email from the address you provide.

Once subscribed, you will receive email when other members post items for sale. When posting to the list, you should provide an accurate description of the item for sale, its condition, and asking price. Replies to postings should be sent to the poster of the item, and not the list.

The archives of postings are publicly available on the web here:  
<https://soara.org/pipermail/forsale/>

This mailing list may be suspended or discontinued at the discretion of the SOARA Board of Directors should that become necessary.

**Brian NJ6N**

## **[San Diego County Hamfest - October 5, Lakeside, CA](#)**

The Lakeside Amateur Radio Club cordially invites you to attend our San Diego Hamfest. The Hamfest will be held on October 5th, at the Lakeside Rodeo Grounds located at 12584 Mapleview Street in the town of Lakeside, CA. Gates open at 7AM and close at 3PM. Radio Gear Trade Show starts at 6AM. Yes, free parking and antenna friendly! Admission is only \$5.00 per person! Radio Gear Trade Show sellers space is only \$5.00!

We have Vendors! Need that hard to find feed line part, power cable connector, or radio? We have it! San Diego Amateur Radio Clubs from all parts of the county will have a table set-up, so you can visit them, and acquire more information about them.

Sit down and hear one of our many Speakers talking about interesting topics about Ham Radio! Oh yes, there will be Door Prizes too! Want to upgrade or know someone who is ready to get their Ham Ticket? Well, we will have VE's standing by to administer the test! So pencil in the date October 5, 2019 Hamfest at the Lakeside Rodeo Grounds! So come on out and let's Ham it Up!

More information: <http://www.lakesidearc.org/sdhamfest/sdhamfest.php>

- Randy Standke, KQ6RS - Topic: "Identify and Track Down RFI, from solar power systems using SolarEdge inverters"
- Clint Bradford, K6LCS Topic: "How to Work Amateur Satellites with Your HT"
- Kristen McIntyre, K6WX Topic: "A Wire In The Air - what matters most"
- Bob Brehm, AK6R Topic: "RFI Solutions"
- Chris Claborne, N1CLC Topic: "Summits On The Air"
- Brian Slosson, KC2GNV Topic: "Introduction to Ham Radio DMR"
- ARRL Forum, Dick Norton, N6AA Dick Norton, N6AA Topic: ARRL Southwestern Division

**Dale Tyler, W6EDT**

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# 2019 SOARA Calendar

Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
General Meeting 7:00 PM	28	25	18	15	20	17	15	19	16	21	18	-
Program	DXpedition	-	-	-	Spring Auction	Field Day Prep	-	SOARA Fair	-	-	Fall Auction	-
FCC Ham Exam 6:00 PM	28	25	18	15	20	At Field Day (2pm)	15	19	16	21	18	-
Education Classes 8:00 AM	Tech 26	-	-	Tech 13	General 18	Tech 15	Extra 13	Tech 17	General 14	-	Tech 16	-
SOARA Elmer Saturday 9:00 AM	Feb 2 Murray	Mar 2 Murray	23 Murray	20 Gilleran	25 Murray	22 Gilleran	20 Gilleran	24 Murray	21 Murray	26 Gilleran	23 Gilleran	-
SOARA T-Hunt 1:00 pm	-	-	-	-	-	-	22	26	23	28	25	-
Board Meeting	Feb 4	Mar 2	25	22	28	-	22	26	23	28	25	-
Special Events	Quartz-fest 20-26	Yuma 15-17		Visalia DX 12-14	Dayton Ham-vention 17-19	ARRL Field Day 21-23	HRO Ham Jam -	SOARA Picnic August 4		JOTA		SOARA Holiday Party -
Major HF Contests		ARRL DX-CW	ARRL DX-SSB CQWPX SSB		CQWPX CW	ARRL Field Day 21-23			CQWW RTTY	CQWW SSB	CQWW CW	
Volunteer Events	OC Chili Run	Paws Fur Pink OC Chili Run	OC Chili Run Baker to Vegas	Dessert Storm Rally Ride for Rwanda	HD Trails OC Marathon LH Marathon	ARRL Field Day 21-23	MV Fire-works 4			Vision Quest		Run for a Claus

Dates subject to Change - Check the SOARA Web Site (<http://www.soara.org>) to verify locations and times

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# SOARA Information

**SOARA** meets at the Norman P. Murray Center, 24932 Veterans Way, Mission Viejo, CA on the third Monday of every month at 7:00 PM. For the months of January and February the third Monday is a holiday and the meeting is held on the fourth Monday.



**License Exams:** Amateur License Exams are given prior to SOARA meetings, except June. Exams are at 6pm. Prior registration is not required and walk-in applicants are welcome. For June, exams are held at Field Day. For further information, email Sean Reigle, AJ6B, at [aj6b@soara.org](mailto:aj6b@soara.org).

**SOARA Library:** SOARA has many amateur radio related books such as hand books, books about electrical theory, etc. available to lend out to club members. Contact Heiko Peschel [ad6oi@soara.org](mailto:ad6oi@soara.org) for more info.

**Web Site:** SOARA maintains a web site with current club information. The URL is: <http://www.soara.org/>

**Repeaters:** The Laguna Beach, San Clemente, and Trabuco repeaters are open. The Santiago Peak repeaters are closed. For details or questions on the repeaters contact the repeater director, or [repeater@soara.org](mailto:repeater@soara.org).

2m	—	147.645	-	(110.9)	Laguna Beach
2m	—	146.025	+	(110.9)	San Clemente
2m	—	145.240	-	(110.9)	Trabuco
D-STAR 2m	—	146.115	+	(K6SOA C)	Laguna Beach
220	—	224.100	-	(110.9)	Laguna Beach
220	—	224.640	-	(pvt)	Santiago Peak. (C)
440	—	445.660	-	(110.9)	Laguna Beach
D-STAR 440	—	445.705	-	(K6SOA B)	Laguna Beach
440	—	447.180	-	(pvt)	Santiago Peak. (C)
D-STAR 1.2G	1282.600	-	(K6SOA A)	Laguna Beach	

## **Nets:**

UHF/VHF (447.180, 147.645 & 224.640): Tuesdays @ 8:00PM

D-STAR (146.115 C module): Wednesdays @ 8:00PM

40 meter HF (7.200 MHz +/- for QRM), Sundays @ 8:00AM

10 meter HF (28.410 +/-) Sundays after the 40m net.

Gordo HF (7.250 MHz +/- for QRM), Weekdays @ 8:30AM



## **SOARA OFFICERS**

**President:** Ray Hutchinson, AE6H 949-322-8468  
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**Secretary:**

**Treasurer:** Lori Carey, NI6X 949-444-8190  
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## **SOARA APPOINTMENTS**

**Past President:** Tom Hobbs, AE6SH 949-830-8131  
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**Activities Coordinator:** Dana Wresch, KM6LZG  
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**S. Saturdays:** Ed Barnes, WA6ED 949-468-7706  
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**Testing:** Steve Kuver K6UVR [k6uvr@soara.org](mailto:k6uvr@soara.org)

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**Ambassador:** Spencer Ammermon, NG6K  
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