



The

July 2019

Propagator

The Monthly Newsletter of the South Orange County Amateur Radio Association

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General Meeting Auction

July 15, 2019
7:00 PM

NP Murray
Center
Veterans Way
Mission Viejo

President's Message, July 2019

Greetings all. In this month's President's message, I'll touch on several topics briefly.

First, events this immediate past July 4th and 5th are, for us here in Southern California, a not so subtle reminder that "shift happens" and the need to be prepared. As Licensed amateur radio operators, we have a bit of increased incentive and responsibility to be a bit more prepared for the certainty that our area will experience similar events.

Preparedness starts at home with the usual supplies, first aid equipment, water, non perishable food, a means to prepare it (camp stove, etc.) blankets, sleeping bags, etc. Keeping those HT batteries charged, and even large automotive batteries available to operate that mobile vhf/uhf, and even that HF rig operating. Think about a random wire antenna, or other simple portable antennas that could easily be set up in the back yard, in case your home isn't structurally safe there are many available lists of personal survival supplies to guide you. A little thought and preparedness action can go a long way when crisis strikes. Again, I emphasize water, a gallon per person per day, for at least a week! It doesn't have to be stored bottled water. Our water heaters, swimming pools, even toilet tanks are clean water sources, and boiling and settling questionable water can help you survive.

Along similar lines, summer offers many opportunities for outdoor operating, whether it be something ambitious like summiting and a SOTA event, or just setting up portable or mobile in a campground, park, or at the beach. Doing these things, although possibly eliciting some rolling eyes or even groans from other family members, are great practice for a disaster. Volunteering to work a public event such as bike ride, marathon, etc. also hones our skills to operate remotely, and become more familiar with our gear.

Next, Tuesday evening will be the first official meeting of the SOARA Digital Exploration Committee. This committee is an independent group, free from SOARA Board influence, to determine the desires,

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interests, and needs of the general membership, as well as determine what will enable the club to bring those desires, interests, and needs to fruition. Expect to receive a survey questionnaire by email from the committee in the near future, Please take some time to thoughtfully respond to that questionnaire, as the information gained will determine where the committee and SOARA go from there. Your input will be important.

Finally, I just want thank all who turned out to support a great field day. Although it will take several months for the ARRL to compile all the statistics from the hundreds of field day operations all over North America, I think we can safely declare SOARA's Field Day 2019 an unqualified success. Remember, Field Day was conceived as, and continues to be an emergency preparedness exercise. A special shout out to Dana, KM6LZG, our FD coordinator for pulling it all together, for great meals, and overall one of the smoothest, best coordinated FD's that I can remember for the last 20 years, or so. Thank you Dana, and thank you to everyone who participated. It was a great example of teamwork.

best 73 to all, Ray, AE6H

[General Meeting - July 15, 2019](#)

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



Robert MacHale (KE6BLR) will be expanding on his Space Communicator presentation delivered at the DX Convention in April 2017. The focus of this presentation is on making contact with the International Space Station by sending and receiving APRS text messages to and from the RS0ISS callsign. We will discuss the basics of tracking satellites in real time with Two Line Elements (TLEs).

He has developed a home brew Az/El rotator with robotics parts from ServoCity and Arduino parts from Adafruit. This project code named "R2D2M2" mounts either the Arrow II antenna or the Elk antenna. These are the two most commonly used portable antennas for 2m/70cm and satellite communications.

Robert also works with Boy Scouts achieving merit badges in Radio, Robotics, and Space Exploration. He is a leading member of Space Communicator Club providing tools for iGates sharing Satellite APRS traffic over the APRS-IS network.

Visit <http://www.spaceCommunicator.club/igates> for more information on packets heard via Satellite APRS.

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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 \(SES\) July 20](#)
[Gilleran Park, Static, Lightning Protection and Grounding](#)

The July SOARA Saturday will be on the 20th at Gilleran Park, 9am to noon, coffee and donuts will be provided. We will be discussing reasonable static and lightning protection for your station radios. I plan to bring some demos. If you have something to share please do so.

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/

We need to work on next year's 2020 calendar. Tim K6TJO offered the following ideas. What do you want to see?

D-Star Clinic

- Learn all about our D-Star Repeaters
- How to configure radios
- Live Demos
- Review membership Manual for accuracy

EchoLink & IRLP Clinic

- All about using EchoLink & IRLP
- How to use it
- Review membership Manual for accuracy
- Live Demos

Antenna Workshop

- Using and comparing Analyzer types
- How to handle various SWR scenarios for different antenna types
- Show and Tell of various antenna types

Digital Modes

- Discuss types
- Setup between computer and rigs
- Live demo's

73,
Ed, WA6ED
SOARA Elmer Saturday Coordinator

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Membership Report

We now have 223 active members.

Four New Members:

Mike, WD6E
Kenneth, KN6CVE
Darren, KN6CUV
Arthur, KN6CLY

Receive the most from your membership and participate in the activities. There are various nets, Tuesday evening UHF/VHF @ 8pm. Wednesday evening at 8pm is the DSTAR net. There are Sunday morning 8am 40 meter & 9am 10 meter HF nets. Go to www.soara.org and check out the calendar for more activity information. Get radio-active!

73,
Ed, WA6ED
SOARA Membership Director

SOARA Summer Picnic - August 4, 2019 - Dana Point



On the first Sunday of August SOARA holds a picnic to give an opportunity for the families of the club members and their friends to meet in an informal setting. SOARA will be providing hamburgers and hot dogs with all the fixings as well as lemonade, iced tea and water. We ask that club members bring a side dish to share. The public is welcome although we request that you recognize that this function is provided on a first come, first served basis and supplies will be limited.

WHEN: August 4, 2019

TIME: 11:00am - 2:00pm

WHERE: 24600 Dana Drive, Dana Point Harbor (just west of the Richard Henry statue)

PARKING: We will be allowed to park inside the Dana West Yacht Club

Check your email to SOARA Members to go out the Friday before the picnic for details on parking access

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Questions? Email me!

**73,
Dana, KM6LZG
SOARA Activities Director**

SOARA Fair, August 19

Next month is the Annual SOARA Fair. This is an excellent opportunity to showcase your talents and interest to rest of the club members and guests.

Past items have been Emergency Radio, MESH network, Battery boxes, Arduino projects, FT8, APRS, Transmitter Hunting, Satellite and ISS communication, Magnetic Loop Antennas, QSL Card Collections and 3D Printing just to name a few. Several of these have been regular repeats and some haven't. We've had a lot of new people this past year and I'm sure they will find this to be very interesting presentation.

We generally have space to set up 6-8 tables which should be plenty of room for 2 presenters at each table giving us up to 16 spots. Depending on the response received, prefer to not have any more to 2 individuals requiring an entire table to themselves. Please email me at w6ine@soara.org if you are interested in presenting at the August Fair and provide me your name, call sign, and a description of what you would like to present. I would appreciate if you could submit your request to me no later than August 13th.

**Erik Wresch W6INE
Vice President/SOARA**

Equipment For Sale - Donated by Hal Silverman's Family

We, SOARA, have received from the estate of Hal Silverman (WB6WXO SK) the following equipment and would like to sell it.

If you are interested in any of it please make us an offer and you may get it.

- Three section 60ft approx. height, steel tower with rotor and control box.
- 4 element beam antenna for HF.
- Twelve element 2M beam antenna
- Eight element 440mhz beam antenna,
- Diamond x2200 dual band base antenna
- 2x Diamond x3200 tri-band base antennas
- Cobra Ultralite mini dipole antenna,
- Dipole antenna, possibly 40m.

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Please respond to me or the SOARA board.

Thanks
Heiko AD6OI

[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>

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

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	-	-	-	-	-	-	-	-	-	-	-	-
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.

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 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.

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 @ 7:30PM

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

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SOARA DIRECTORS

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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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