



The

May 2022

# Propagator

The Monthly Newsletter of the South Orange County Amateur Radio Association

## In This Issue

Meeting.....1

Elmer Saturday  
.....2

Membership ...2

Ht Antenna  
Shoot out.....3

Inexpensive  
Vertical.....5

Repeater  
Etiquette.....7

Nets/Repeaters.  
.....9

Swap Meets are  
Back!.....10

Financial Report  
.....11

Soara Library 11  
Sale Mail List.12

## General Meeting

NPM Center  
May 16, 2022

7:00 PM

Norman P. Murray  
Center

23492 Veterans  
Way, Mission Viejo,  
CA 92692

## Auction - General Meeting

6:30 pm, May 16th - Norman P. Murray Center

We will be back at the Murray Center for our first auction of the year. Please review the auction rules under our Activities Section. Due to time constraints, we are starting the auction at 6:45 pm and ending at 8:30 pm sharp but we did increase the lot limit. All items brought for sale must be out along with all of us at 9pm as that is when the Murray Center closes. You may start bringing in your items starting at 6pm for previewing and we will start at 6:45 sharp. Under the Live Auction Section is a hyperlink to a file for you to print out your tags for the items you wish to sell. We will have some on hand at the Murray Center but we encourage you to print you own in order to maximize time.

We will NOT be testing for Ham Licenses this evening. Please email Steve Kuver K6UVR at [k6uvr@soara.org](mailto:k6uvr@soara.org) if you wish to find out more about testing.

**SOARA MEMBERS;** please join us on June 20th at 7pm at the Murray Center as we finalize plans for Field Day 2022 to be held at Gilleran Park starting at 3pm on Friday, June 24th. Volunteers will be needed for set up on Friday and tear down on Sunday as well as other things.

**Erik Wresch**  
**W6INE**

**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

## [SOARA Elmer Saturday, 4/23/22 Murray Center](#)

I updated the SOARA Saturday page on [www.soara.org](http://www.soara.org). Go there and see the schedule. The next SOARA Saturday will be at Gilleran Park, May 28, 9am to noon, coffee and donuts will be provided. HF radio in the park. We will setup some HF antennas and radios. Bring your ideas and questions! Or, just chat about radio.

Here's the SES link: <https://www.soara.org/activities/soara-saturdays/>

The SOARA Saturday tech net log is under the above link too

**73,  
Ed, WA6ED**

### [SOARA Membership Report](#)

Welcome new members:

Ravi, KN6SIP  
Tim, KK6WXN

SOARA is looking for a new membership director. If you are interested in volunteering contact the SOARA board [board@soara.org](mailto:board@soara.org). Also, I will be happy to let you know the details of this position and do some training.

Basic duties are listed in the SOARA Bylaws as described below:

The Membership Director shall:

- 1) Maintain the roster (membership database).
- 2) Promote new member recruitment.
- 3) Prepare membership badges.
- 4) Prepare and disseminate annual dues notices.
- 5) Oversee production of membership handbooks.

Statistic	Value
<b>Total Records</b>	<b>691</b>
<b>Types</b>	<b>-</b>
<b>Silent Key</b>	<b>29</b>
<b>Family Member</b>	<b>13</b>
<b>Inactive Member</b>	<b>438</b>
<b>Life Member</b>	<b>3</b>
<b>Regular Member</b>	<b>204</b>
<b>Student Member</b>	<b>4</b>
<b>Total Active Members</b>	<b>224</b>
<b>Classes</b>	<b>-</b>

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<b>Advanced</b>	<b>14</b>
<b>Extra</b>	<b>228</b>
<b>General</b>	<b>195</b>
<b>Novice</b>	<b>1</b>
<b>Technician</b>	<b>247</b>
<b>Not Licensed</b>	<b>6</b>
<b>Dues Status</b>	<b>-</b>
<b>PAID</b>	<b>221</b>
<b>UNPAID</b>	
<b>Membership Dues 2021/2022</b>	<b>\$-11052.16</b>
<b>Dues Payment 2021/2022</b>	<b>\$10480.50</b>
<b>Initiation Fee 2021/2022</b>	<b>\$-420.00</b>
<b>New Member Dues 2021/2022</b>	<b>\$-321.00</b>

Let me know if you need a badge, lanyard or email a copy of the membership manual PDF. I will be updating the manual soon. If you have any roster database changes, please let me know. Email [membership@soara.org](mailto:membership@soara.org).

**73,  
Ed, WA6ED**

### **HT Antenna Shoot Out, Part 1**

Since I've started the hobby a year ago, I've collected a few tri-band HTs and a several antennas. Which of these antennas has the best chance of being an effective match for a tri-band radio?

Last SOARA Saturday, with a Comet CA-550 and Heiko's (AD6OI) expert operation, it was time to put them to the test. Of all of the antennas I brought in, my bet was on the Smiley collapsible antenna. I thought, it can adjust to meet the wavelength. How do you beat that? I also expected the longer antennas to do better.

Overall, the Comet HT-224 did the best in the tests for an antenna that would be viable on a tri-band radio. The runner up is the Diamond SRH-320A. I'm glad I didn't bet.

<b>Brand</b>	<b>Model #</b>	<b>2m SWR</b>	<b>1.25m SWR</b>	<b>70cm SWR</b>
Comet	HT-224	1.5:1	2.0:1	2.1:1
Diamond	SRH-320A	1.1:1	1.2:1	2.1:1

In general, the vast majority of the antennas would work well in two bands, but not in three bands. Some antennas would only operate well in one band. To be fair, most of the antennas in this test are not tri-band, but they are expected to be dual-band, and some of those dual bands didn't do well in both bands specified. I wonder if this has to do with our configuration? Brian (NJ6N) pointed out it would be better if they had a ground plane to work against.

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Brand	Model #	2m Resonance	2m SWR	1.25 Resonance	1.25m SWR	70cm Resonance	70cm SWR	Notes
Baofeng	Stock VHF	145	1.9:1	∞	∞	∞	∞	
Baofeng	Stock UHF	∞	∞	∞	∞	396	1.8:1	
Nagoya	NA-320A		1.8:1	271	3.0:1		6.0:1	
Nagoya	NA-24j	∞	∞	185	2.2:1	434	4.0:1	
Nagoya	NA-771	160	2.5:1	∞	∞	439	2.5:1	
Nagoya (Hieko)	NA-771 (older version)	160	2.5:1	∞	∞	435	5.0:1	
Signal Stuff	Super-elastic Signal Stick	156	2.0:1	∞	∞		5.0:1	
Comet	CA-2X4SR		3.0:1				1.2:1	
Diamond	SRH77CA		2.2:1		4.5:1		1.9:1	
Comet	HT-224		1.5:1		2.0:1		2.1:1	
Kenwood	Stock	142	1.5:1	219	1.2:1	∞	∞	
Yeasu	Stock	148	1.5:1	223	1.3:1	∞	∞	
Diamond	SRH-320A	112	1.1:1	260	1.2:1	452	2.1:1	
Smiley	Triband	146	2.0:1					Fully extended
Smiley	Triband				2.0:1			4 segments down
Smiley	Triband						∞	2 segments down
Smiley	Triband						∞	All down

This suggestion and inconsistent data suggest further research is required. To that end, I am setting up a new testing rig. I have a setup a wood plank with a bracket holding an adapter with a perpendicular counterpoise. This 8' plank is to give the antenna elevation and is connected through 6' of tested LMR-400. This setup is not just to give a ground plane, but also to avoid any effects of the tester and operator that could bias the results.

More testing is in the future!

**George Robinson**  
**KN6OFF**

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## [How An Inexpensive Vertical Antenna Changed Me From a One-Band Man at my Cabin](#)

I have been using a 40 meter antenna I built based on the commercial Buddistick design ([HBSPLANSAPRIL2010.doc \(google.com\)](#)) for the past few years at my cabin. This antenna was inexpensive and didn't block my neighbors view (Figure 1). The bottom of the vertical dipole is made from PVC and the top with a 9-ft extendable whip. The 40 meter coil is mounted between these two parts. However, due to the high winds at the cabin I had to cement the 40 meter coil to the PVC forming the bottom portion of the antenna to prevent the coil from working out of the PVC and causing the antenna to break in half. Thus, I am unable to replace the 40 meter coil to work other bands.



Figure 1. My 40 meter antenna is mounted on the railing of my cabin's deck with the counterpoise running along the deck railing.

Since I wanted to operate on more bands including 20 meters, 17 meters, 15 meters, 12 meters, and 10 meters and couldn't use this antenna I needed a solution to the problem. My solution was to build another similar antenna that only needed a coil for 20 meters. The remaining bands could be achieved by shorting the 20 meter coil and adjusting the length of the whip antenna for the desired band which was easy to do. The resulting antenna is shown in Figure 2. Both the 40 meter antenna and the new one incorporate a single counterpoise whose length is adjusted to minimize the antenna's SWR at the desire frequency. I also wrapped a few turns of coax near the feed point to act as an RF choke.



Figure 2. The new 20 meter antenna is mounted in a similar manner to the railing.

A plot of the 20 meter antenna SWR using a NanoVNA with Easy Saver software is shown in Figure 3. Note the SWR is 1.55 at 13.83 kHz and less than 2.0 over the entire 20 meter band. I could probably adjust the counterpoise and antenna lengths and move the minimum SWR to the center of the 20 meter band but felt this wasn't warranted.

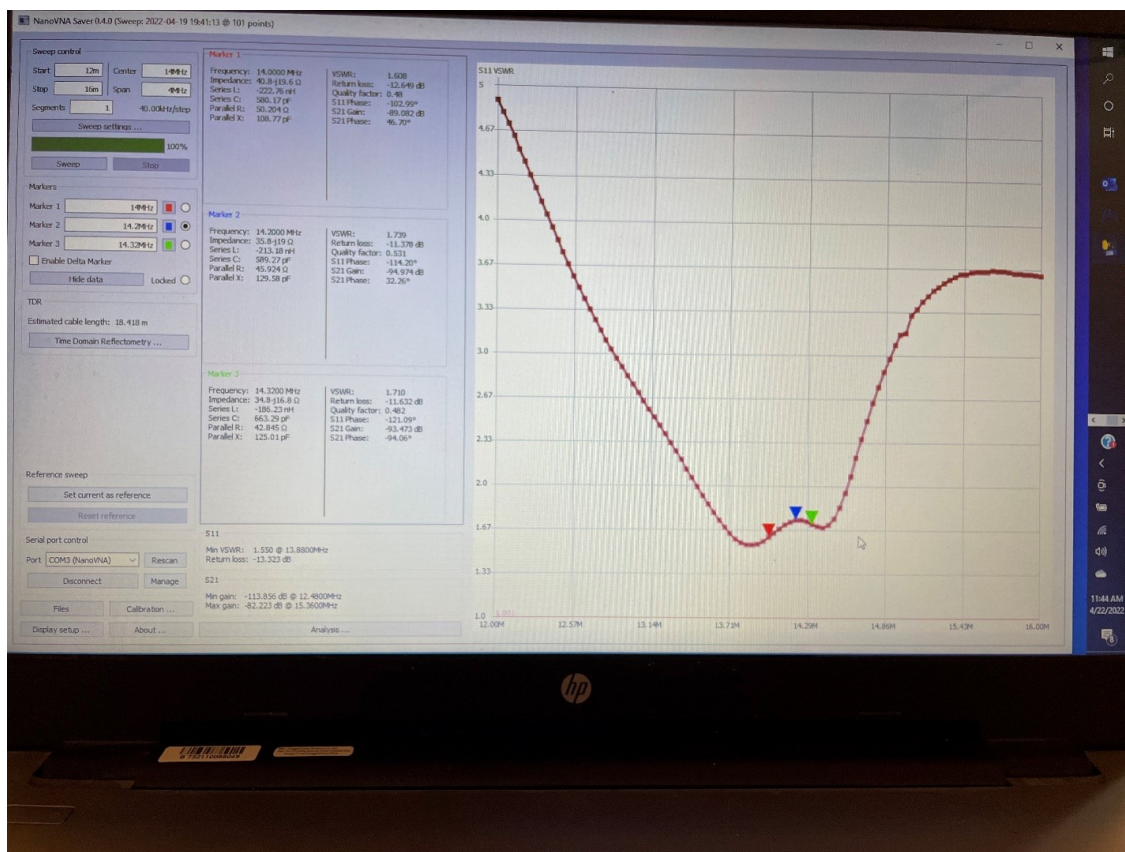


Figure 3. I used my NanoVNA with Easysaver software on my laptop to minimize the antenna's SWR and determine its useful bandwidth.

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In conclusion, although this type of vertical dipole is not very efficient at 40 meters or even 20 meters it still performs well with acceptable SWR values. Even better is that the antenna can be made a quarter wave at 17 meters, 15 meters, 12 meters, and 10 meters so its efficiency is much better. Regardless of the antenna's efficiency I can regularly contact distant stations on all bands. In fact, I was able to hear a CW signal on 20 meters transmitted from my cabin near Bryce Canyon, Utah on an SDR located in Washington, DC. Please feel free to contact Charlie (KC6FZY) at [KC6FZY@ARRL.Net](mailto:KC6FZY@ARRL.Net) if you have any questions about this article.

**Charlie Hightower**  
**KC6FZY**  
**May 14, 2022**

## [Repeater Etiquette](#)

Often a new ham (or even an old ham) may develop bad habits and bad operating procedures only because of a lack of knowledge of proper procedures. This guide to repeater etiquette gives the conscientious repeater user some basic guidelines.

### **Before You Key the Mic**

- When first turning on your radio, listen to the frequency for at least 15-30 seconds before you transmit.
- Speak into your microphone at a normal voice level. Don't mumble, ramble, slur, chew food or burp while talking.
- Key your microphone before you speak and unkey it after you finish speaking.

### **If A Conversation Is In Progress**

- Don't break into the middle of the conversation if you have to make a call to another station or want to join the conversation.. Wait (at least) until the thought in progress is completed and then announce your callsign. Do so by allowing the talking station to unkey the mic, and then make a quick call before the repeater "beeps" its courtesy tone or drops its squelch tail..
- Identifying a station with "Break", "Call please", "Quickie", "Comment," or any other such words without station identification is not an acceptable form of identification, and those stations should not be acknowledged. However, "I have a comment, KX2ABC" is acceptable.
- You don't have to identify after each transmission-just once every 10 minutes, or at the end of the communication before you go off the air. If you think a new station coming on frequency doesn't know who you are, as a courtesy you can give your name and call. You do not have to identify any other station, only your own, but if you do, your identification (callsign) comes at the end of your transmission, e.g., "KZ3DEF and the group (or you can mention all callsigns in the group), this is KX2ABC."
- The station that is to get the frequency next is the only station that should acknowledge the breaking station (a station breaking into an existing conversation). The reason for this is that the next station to get the frequency was

supposed to talk next anyway, so why not let that station handle the breaking station?

- Even if the breaking station is your best friend, if it's not your turn, don't say. "Hello, Seymour. How are you?" Wait until it's your turn.
- Stations hearing another station calling have two choices: Acknowledge that you heard the calling station ("KX2ABC recognized.") and give the frequency to the station at the end of your conversation, or, if you have nothing important to say, give the frequency immediately to the calling station.
- A station that is given the frequency after identifying can join the conversation in progress, and then give it back to the station that gave it to him; or he can give it to the next station in a group discussion if he knows who gets it next. It is poor operating practice to throw the frequency up in the air for grabs.
- If a breaking station is given the frequency to make a call, and if the call is not acknowledged, the breaking station should give it back to the station that gave it to him.
- If a breaking station is given the frequency to make a call and the called station is contacted, the conversation should be brief, or both stations should move to an unused frequency, unless the station(s) originally talking on the frequency say it's okay to stay.
- If you are in the middle of a long recitation and have to unkey the microphone in order not to time out the repeater, leave some room in case a breaking station has to make a transmission. Remember, a repeater is a very valuable asset to mobile stations who might have emergency traffic.
- Leave some room after the courtesy beep or squelch tail has dropped to allow another station to break in if necessary.
- Do not make comments or remarks during someone else's discussion.
- Do not try to transmit over another station (called doubling). First of all, it's illegal; and second, nobody wins, since in most cases neither station can be understood.
- If you think you are possibly doubling with another station, unkey your mic for a few seconds and listen.
- If the repeater is being controlled by one station, such as the weekly check-in net or a technical net, stations given a chance to talk should always give the frequency back to the net control station unless the net control station instructs them otherwise.

### **Emergency Traffic**

- If you are reporting an accident or other emergency traffic, the police department wants at least the following information: nature of the emergency, e.g. "Vehicle on fire."; location, including cross streets or mile markers (especially on a highway), e.g. "Belt Parkway eastbound, 100 yards past West Street exit."; description of vehicle(s), e.g. "White station wagon in the left lane."; any injuries, e.g. "Possible injuries."
- When you are reporting (originating) emergency traffic (such as a mobile accident) to another station, make sure you stay on frequency in case the station handling (passing) the traffic has to furnish the responding agency (police, fire, etc.) with additional information.



- If you are a mobile station passing emergency traffic directly through the repeater autopatch, let the emergency operator know that you are a MOBILE AMATEUR RADIO OPERATOR. If you are a base station passing emergency traffic, let the emergency operator know up front that you are an AMATEUR RADIO OPERATOR in communication with a mobile station. Emergency 911 operators should have been visited by members of the ham radio community and should know who we are. Could be a nice club project!

### **The Proper Lingo**

- "Q" signals were not designed for phone conversations, strictly for code. However, "Q" signals are finding their way into everyday phone conversations. You should know some of them; they were on the test. QSL?
- Don't use 11 meter ("10-4 good buddy ..."), military, police ("K"), or other terms not indigenous to the HAM bands.
- The word(s) BREAK (not to be confused with a breaking station), BREAK BREAK, or BREAK
- BREAK BREAK, are reserved for emergency traffic. Any station in communication on frequency hearing the word BREAK should give the frequency to the breaking station. BREAK should not be used for breaking into a conversation just so you can get a turn to talk. (This might be an exception in certain parts of the country. Check with your local repeater users for advice.) "Break" is a term mostly found on 11 meters.
- Remember: Amateur radio is a hobby! You can have fun on the repeater! You can even joke around! But keep it sensible!

Contact Alan Glasser NY2G at 2133 661h Street, Brooklyn NY 11204.

**Alan Glasser  
NY2G**

## **SOARA Nets and Repeaters**

We all understand that amateur radio is about communications, but it is much more than that. It includes learning from others, interacting with others, teaching others, and improving our service (hobby).

Having said that I would like to talk about our nets and our repeater system.

On Temple Hill in Laguna we have six repeaters, three FM and three D star and they can be linked within their modes.

On Santiago Peak we have two FM repeaters that can operate stand alone or as a linked set.

When we have recurring nets such as Tuesday, Wednesday and Saturday, they link automatically about five minutes before the net is due to start.

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Tuesday, 147,645, 224.640, 447.180 and sometimes 146.025, are linked at 7:55pm.  
Wednesday I manually link 147.645 with 447.180 and sometimes 224.640, at 6:55pm.  
Friday, we link the repeaters if there is a request otherwise the net is at 7pm on 447.180.  
Saturday , 147,645, 224.640, 447.180 and sometimes 146.025, are linked at 8:55am.

This happens every week so please listen before you key down.

On a different note I would like all of you to use our repeaters more often, especially the Temple Hill repeaters in Laguna. Whether you enjoy talking on FM or on D star we can accommodate you.

**Heiko AD6OI**  
**Director of Communications for SOARA**

### [Swap Meets and Auctions are Back](#)

One of the most fun I have as an electronics enthusiast and amateur radio operator is attending electronic swap meets and auctions. They are great places to pick up some cables, used ham gear, test equipment and much more.

The Yuma Hamfest and Swap meet was held February 18-19 in Yuma, AZ. There were a number of good presentations and a swap meet. As usual, I found some bargains, including 2 BK8514 1200W Programmable DC loads (need repair) for \$40, a Bird 79-2 coax switch (DPDT - rare) and a big variable capacitor and tapped inductor. Plus assorted coax connectors and switches. They also had new equipment for sale in the Exhibit Hall. \$10 for all weekend - a great deal. I highly recommend attending next year.

We have two local swap meets that are up and running monthly.

The TRW Swap meet is held on the last Saturday of each month. The swap meet hours are 7:00 AM to 11:30 AM., located on the southeast corner of Aviation Blvd. and Space Park Drive (one traffic signal south of Marine Ave.) in Hawthorne, CA. More information can be had at [W6TRW Swap Meet](#) The next one will be on April 30, which does not conflict with SOARA Saturday, then May 28 and June 25. They even happen on Christmas - attendees are pretty dedicated. SOARA has a booth where excess club equipment is being sold by Heiko, AD6OI. There were about 30 vendor booths in February. My find last month was a a 3 pack of 433 MHz remote controlled outlets for \$20.

The Claremont Amateur Radio Society (CARS) Radio/Electronics Swap meet is held on the third Saturday of each month, except December. 6:00am to 11:00am, at the parking lot of Granite Creek Community Church 1580 N Claremont Blvd, Claremont, CA 91711. There are usually 10 or so vendors selling radios, components and other items. I picked up a AR-22 antenna rotor and control box rebuilt and tested for \$40. The next swap meet is May 21, which unfortunately conflicts with SOARA Saturday.

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There was also a used equipment sale at Silicon Salvage in Anaheim. They had a really diverse selection of RF gear, test equipment and assorted stuff. This is a great surplus sale and it is definitely worth going to when they have them.

There is also the former ACP Swap Meet, used to be held on the 4<sup>th</sup> Sunday of each month at Edinger and Grand in Santa Ana. This event has mostly faded away and there were no vendors the last two months, but I mention it just in case it re-appears.

Finally, SOARA is holding an auction at our November General Meeting. There rules will be different than at prior SOARA auctions to make the auction go more quickly and to avoid the many unsold items that plagued prior SOARA auctions. Details on auction rules and item limitations will be sent to all members by email are in this Propagator.

Remember, one person's "junk" is another person's "treasure".

**Dale - W6EDT**

### **SOARA Statement of Income and Expenses** **October 1, 2021 - April 30, 2022**

Seven Months Ending	April 2022	April 2021	Increase (Decrease)
Income:			
Memberships	7,548	10,429	(2,881)
Other	1,849	1,068	781
Total Revenue	9,397	11,497	(2,100)
Expenses:			
Repeaters including site rental, utilities & insurance	4,828	4,875	(47)
Member Activities	2,174	201	1,973
Other expenses	1,102	432	670
Total Expense	8,104	5,508	2,596
Net Income	1,293	5,989	(4,696)
Beginning Cash - October 1	27,741	22,722	5,018
<b>Ending Cash - April 30</b>	<b>29,034</b>	<b>28,711</b>	<b>322</b>

Note: If any member has questions about the financials, please contact the Treasurer or any board member.

**Ron Mosher - K0PGE**  
**SOARA Treasurer**

### **SOARA Library**

As some of you have already heard the AD6OI/SOARA Library is now up and running at our house. (Please see attached picture for details). This library contains ARRL

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Handbooks, Repeater location guides, Tech modification books, radio and electrical books and a wealth of radio related information. For now the library will be open from 1pm to 4pm on Saturdays, and other times by appointment, if you call first, either by radio or telephone. E-mail will also work but allow at least 24 hours for a reply.

**Thank you**  
**Heiko AD6OI**  
**Director of Communications for SOARA**

### **[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**

# 2022 SOARA Calendar

Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
General Meeting 7:00 PM	24 Online	28	21	18	16	20	18	15	19	17	21	-
Program	Vehicle Repeater	-	-	-	Spring Auction	Field Day Prep	-	-	-	-	-	-
FCC Ham Exam 6:00 PM		-	-	-	-	-	-	-	-	-	-	-
Education Classes 8:00 AM			13	17	15	-	17	14	18	16	13	-
SOARA Elmer Saturday 9:00 AM	29 WFD Gilleran	Mar 5	26 Murray Center	23 Murray Center	28 Gilleran Park	25 FD Gilleran	23 Gilleran Park	27 Gilleran Park	24 Murray Center	22 Murray Center	26 Murray Center	-
SOARA T-Hunt 1:00 pm	<a href="#">updates</a>	<a href="#">updates</a>	<a href="#">Updates</a>	<a href="#">Updates</a>	<a href="#">Updates</a>	<a href="#">Updates</a>	<a href="#">Updates</a>	<a href="#">Updates</a>	<a href="#">Updates</a>	<a href="#">Updates</a>	<a href="#">Updates</a>	<a href="#">updates</a>
Board Meeting	31	Mar 7	28	25	23	FD	25	22	26	24	28	-
Special Events	<a href="#">Quartz-fest 17-23</a>	<a href="#">Palm Springs Yuma</a>		<a href="#">Visalia DX Canceled</a>	<a href="#">Dayton Ham-vention</a>	<a href="#">ARRL Field Day 25-27</a>	HRO Ham Jam		<a href="#">SOARA Picnic 18</a>	<a href="#">JOTA 16-18</a>		<a href="#">SOARA Holiday Party TBA</a>
Major HF Contests		<a href="#">ARRL DX-CW 20-21</a>	<a href="#">ARRL DX-SSB 6-7</a> <a href="#">CQWPX SSB 27-28</a>		<a href="#">CQWPX CW 29-30</a>	<a href="#">ARRL Field Day 25-27</a>			<a href="#">CQWW RTTY</a>	<a href="#">CQWW SSB</a>	<a href="#">CQWW SSB</a>	
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 LH Marathon	ARRL Field Day 25-27	MV Fire-works 4				Vision Quest OC Marathon 7	

Dates subject to Change - Check the SOARA Web Site (<http://www.soara.org>) to verify locations and times or click on the live links in the table

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Send e-mail to [membership@soara.org](mailto:membership@soara.org) or leave a message at 949-667-0173  
Facebook: K6SOA Twitter: @K6SOA

# 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:**

- 40 meter HF (7.200 MHz +/- , Sundays @ 8 AM
- 10 meter HF (Technicians Welcome) (28.415 +/-) Sundays @ 9 AM
- General Membership Net - UHF/VHF (447.180, 147.645 & 224.640): Tuesdays @ 8 PM
- Astronomy - VHF 147.645: Wednesdays @ 7 PM
- D-STAR (146.115 C module): Wednesdays @ 8 PM
- Dinner Net - 147.645, 224.640, 447.180: Fridays at 7 PM
- Tech Net - 147.645, 224.640, 447.180: Saturdays @ 9 AM
  
- California Rescue Communications (Gordo Net) HF (7.250 MHz +/- for QRM): Weekdays @ 8:30AM
- MVRACES - 447.180: Tuesdays @ 7PM
- Tri-Cities RACES - 146.025: Wednesdays @ 8 PM
- LNACS - 147.645: Thursdays @ 7 PM
- OC Parks Fire Watch - 447.180: Thursdays @ 8 PM

## **SOARA OFFICERS**

**President:** Ray Hutchinson, AE6H 949-322-8468  
[ae6h@soara.org](mailto:ae6h@soara.org)

**V.P.:** Erik Wresch, W6INE 714-883-7694  
[w6ine@soara.org](mailto:w6ine@soara.org)

**Secretary:** Charles Schultz  
[NY6I@soara.org](mailto:NY6I@soara.org)

**Treasurer:** Ron Mosher, K0PGE 949-363-0047  
[k0pge@soara.org](mailto:k0pge@soara.org)

## **SOARA DIRECTORS**

**Repeater:** Brian Roode, NJ6N 949-257-2749  
[nj6n@soara.org](mailto:nj6n@soara.org)

**Publications:** Dale Tyler W6EDT 949-360-1717  
[w6edt@soara.org](mailto:w6edt@soara.org)

**Membership:** Vacant

**Education:** Steve Kuver, K6UVR 949-874-1972  
[k6uvr@soara.org](mailto:k6uvr@soara.org)

**Technical:** Tom Hobbs, AE6SH 949-887-6527  
[ae6sh@soara.org](mailto:ae6sh@soara.org)

**Communications:** Heiko Peschel, 949-421-7910  
[ad6oi@soara.org](mailto:ad6oi@soara.org)

## **SOARA APPOINTMENTS**

**Past President:** Tom Hobbs, AE6SH 949-830-8131  
[ae6sh@soara.org](mailto:ae6sh@soara.org)

**Activities Coordinator:** Joe Perrigou K7KCE  
[k7kce@soara.org](mailto:k7kce@soara.org)

**S. Saturdays:** Ed Barnes, WA6ED 949-468-7706  
[wa6ed@soara.org](mailto:wa6ed@soara.org)

**Raffle:** Bill Colvin KM6FOY [kn6fof@soara.org](mailto:kn6fof@soara.org)

**Testing:** Steve Kuver K6UVR [k6uvr@soara.org](mailto:k6uvr@soara.org)

**Website:** George Robinson KN6OFF  
[kn6off@soara.org](mailto:kn6off@soara.org)

**Ambassador:** Spencer Ammermon, NG6K  
[ng6k@soara.org](mailto:ng6k@soara.org)

**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  
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