



The

February 2022

# Propagator

The Monthly Newsletter of the South Orange County Amateur Radio Association

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## General Meeting

February 28,  
2022 7:00 PM

[Join Meeting Online](#)

## Presidents Message - February 2022

Help Wanted. No prior experience required. Will train! No, in spite of what it says, this isn't a chance to make some extra cash, but SOARA has an outstanding opportunity for someone looking for a way to help out your club. We are looking to fill the position of Membership Director. This is a critical position on the SOARA Board, and I believe anyone who wishes to take it on, will find it rewarding, not monetarily, but with the satisfaction of helping out our club and ham radio in So Cal. Only the hardy need apply. Hi Hi. Contact Ray, AE6H@soara.org or Erik, W6INE@soara.org, if interested, for more information.

Also, we're working on more opportunities for our members to enjoy ham radio operating. SOARA is working toward establishing an interested group of hams to join in club activations POTA. POTA, stands for Parks on the Air, and applies to National and State Parks, monuments, state and national forests, beaches, publicly accessible natural and wildlife preserves and landmarks, etc. The only caveat(s) is the parks must be owned by a State, Provincial, or Federal entity and they must be open to the public. Unfortunately, no city or county or private conservancy lands qualify. There is an extensive list of qualifying lands, along with their numerical designators available on the POTA website: parksontheair.com. There are about 10 sites that qualify right here in Orange County.

Not only can you be an Activator, logging points for contacts made with-in the physical boundaries of the "park", you can also be a Hunter, operating from the comfort of your own home shack, vehicle, driveway, etc. just not within the confines of a qualifying "park". Points can be earned either way just by registering beforehand, and submitting your logs. Very similar to ARRL field day, but much more portable and impromptu.

Ron, K0PGE and I recently met for coffee with, Jess, W6LEN, a very experienced and active POTA Activator here in OC and beyond. We learned a great deal, were pointed to several good resources, and discussed the practicalities of making it a club activity as well as an

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individual one. We determined that it should be really fun and help our members hone their emergency and portable operating skills both on vhf, uhf as well as HF. We look forward getting an interested SOARA group together and going out to activate soon.

For more info on POTA activating, check out: [parksontheair.com](http://parksontheair.com)

**73 de Ray, AE6H**

## [General Meeting Online at 7pm, February 28<sup>th</sup>](#)

Guest Speaker: Jason Oleham KM4ACK from Murfreesboro, TN

Jason is a huge fan of the tiny little Raspberry Pi computer and uses them on a daily basis for all things ham radio.

During the early years of learning Linux and the Pi, he was often frustrated with the complexity and various ways to install applications. Another pain point was online tutorials that often assumed the user had previous experience with Linux. With no formal computer programming training, he began to write Build a Pi (BAP). BAP is a Linux script written in Bash that makes it as easy as possible for someone with little to no Linux experience to get a Raspberry Pi up and running with ham radio applications. The script does the heavy lifting for you.

Jason's primary modes of operation are JS8call, Winlink, and APRS. Interested to know what got him into ham radio? This video explains the tragic event.  
<https://youtu.be/XSCxKsl-83M>

You can also read about Jason in the Member Spotlight on page 13 of the April 2021 QST and visit his webpage at <https://app.simplenote.com/publish/2Y1FNZ>

Please join the SOARA meeting on GoToMeeting from your computer, tablet or smartphone. [Click here to join the meeting](#)

You can also dial in using your phone. (408) 650-3123  
Access Code: 579-207-405

Erik Wresch  
W6INE

## [SOARA Elmer Saturday, 2/05/22 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 the Murray Center, March 5, 9am to noon, coffee and donuts will be provided. Bring you cable making tools and demo cable making. Radio test instruments would be good too. The RigExpert antenna analyzer can test cables so that would be interesting. Suggestions for new, different, or past activities are welcome.

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](#)

We are at 235 total active members. 216 paid dues and 16 unpaid. Membership is proceeding well. I have sent several reminders to those where dues are unpaid. If you are unpaid your membership will go inactive soon.

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**

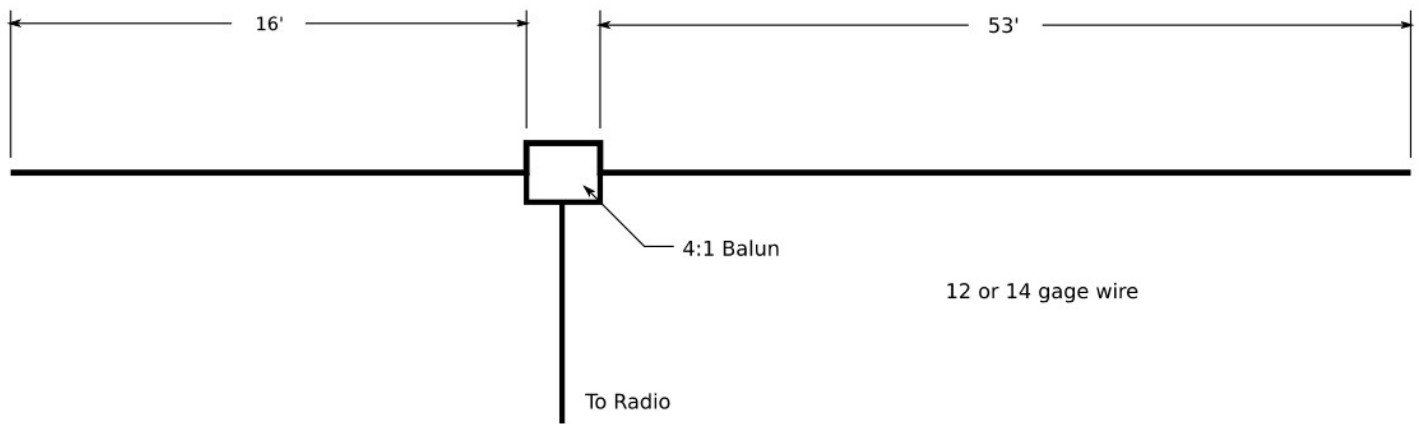
### [OCF Dipole](#)

This antenna will tune from 160m to 10m using just the internal tuner on my H.F. radio. It is not as good as my alpha delta trapped dipole or my OCF dipole but it works.

Here is a description of the antenna.

- Overall length is 33ft .
- The short side is 11.5 feet divided into equal parts with a coil in the middle.
- The long side is 21.5 feet.
- There is a 4 to 1 current balun between the sides.
- The coil is plastic about 8 inches long and 3.5 inches in diameter.
- There are 25 turns centered on the coil, on the plastic, with wire about 6 inches off either end looped through a hole in the plastic for strain relief.
- The wire on the coil should be about the same gauge as the antenna wire.

Another design that seems to work even better on 20M-6M, but is somewhat larger.



**Heiko AD6OI**

### [MultiMode Digital/Analog Repeater](#)



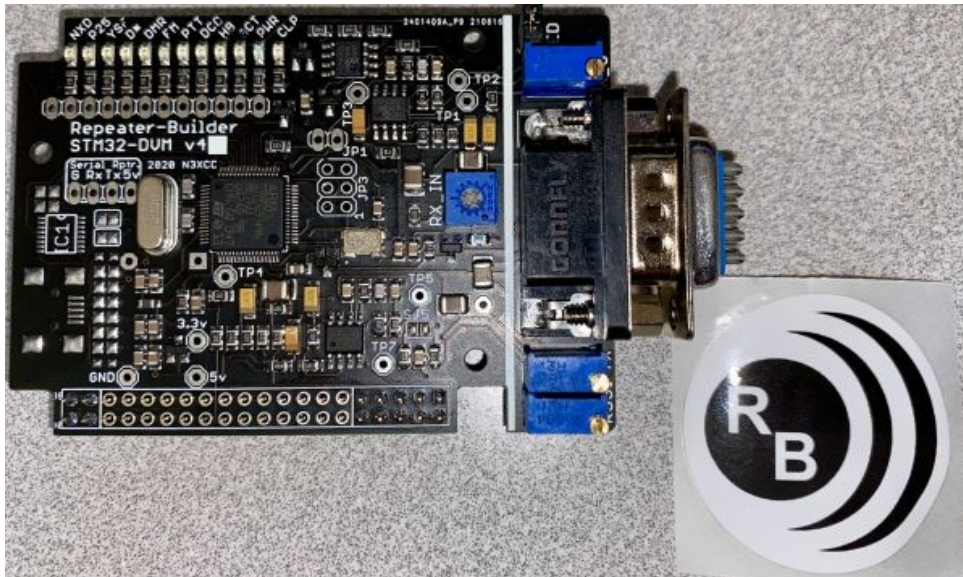
Recently, I built a full duplex repeater that supports FM, Yaesu System Fusion, DMR, and D-STAR all on one frequency pair. Like many SOARA members, I use an MMDVM hot spot for digital modes. My new repeater is essentially a full duplex hot spot using a MMDVM (multi mode digital voice modem) board as the controller. The MMDVM modem board does not have an RF transceiver as it is designed to interface to external transmitter and receiver.

Support for FM was recently added to the MMDVM firmware as well as to the Pi-Star software. The STM32-DVM board even has an LED indicator that lights up when FM is being used.

The repeater consists of two Motorola mobile transceivers and a Repeater Builder STM32-DVM MMDVM board attached to a Raspberry Pi single board computer. I'm using a Raspberry Pi 3A+ board and Wifi for the network connection. The STM32-DVM board and Raspberry Pi are powered through the 9-pin interface connector. A buck converter is attached to the underside of the STM32-DVM board to regulate the voltage down to 5 volts.

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The Pi-Star/MMDVM controller can easily be replaced with a Radio Interface board and Debian linux computer running svxLink software to provide the repeater controller function as well as EchoLink.

The radio transceiver signals (Receive Audio, Transmit Audio, COR, and PTT) are accessible via a back panel DB9 connector. Using the “Kantronics” standard adds flexibility to use different controllers. Both the Repeater Builder interface as well as the Masters Communications RA-35 USB Radio Adapter interface use this wiring standard.



The RA-35 is an excellent (and inexpensive) way to interface your radio to a computer via USB.

Using the MMDVM board, this full duplex repeater supports FM, D-STAR, Yaesu System Fusion, and DMR. Only one mode can be operational at a time.

If an FM signal with the right PL tone is received, the MMDVM modem switches to FM mode and repeats the signal like a conventional FM repeater. Repeater ID is sent every 10 minutes when there is FM activity. If another mode is heard, the repeater will switch to that mode, for example DMR.

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Balancing the usage of different modes can be tricky. Depending on the usage level of each mode of operation, there may be conflicts. If you would like to try out the repeater, it is currently co-channelled with our low-level 445.660 repeater. PL 123 for FM. For DMR users, I need to configure your DMR ID into the access control list. YSF is currently connected to the Parrot room so you can test your audio. D-STAR is connected to REF088C.



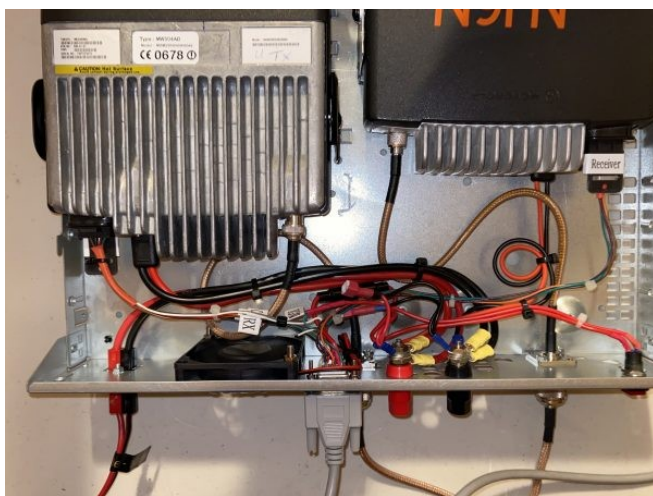
Using a 3D printed template, I cut a hole in the front of the Tivo cabinet for the CDM-750



The completed CDM-750 transceiver installation



Rear Panel view of the Tivo cabinet - Power, Antenna, & Controller connections



Inside View before installation of Fan thermostat control

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Close up view of the 3D printed enclosure for Nextion, Pi 3A+ and STM32-DVM board



Front view of the completed project

#### Repeater System Components

- Transmitter - Motorola GM380 UHF mobile transceiver, 20 watts output
- Receiver - Motorola CDM-750 UHF mobile transceiver
- Interface board - Repeater Builder STM32-DVM
- Computer - Raspberry Pi 3A+ with Nextion 3.2" display in custom 3D case
- Duplexer - A "Flat pack" 6 cavity band reject duplexer provides isolation between transmit and receive
- Antenna - Comet CX-333 up 25 feet
- Enclosure - A discarded Tivo was used to enclose the repeater components

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# Pi-Star Digital Voice Dashboard for NJ6N

Dashboard | Admin | Configuration

Modes Enabled	
D-Star	DMR
YSF	P25
YSF XMode	NXDN
DMR XMode	POCSAG

Network Status	
D-Star Net	DMR Net
YSF Net	P25 Net
YSF2DMR	NXDN Net
YSF2NXDN	YSF2P25
DMR2NXDN	DMR2YSF

Radio Info	
Trx	TX DMR Slot 1
Tx	445.660000 MHz
Rx	440.660000 MHz
FW	MMDVM:RB_STM32
TCXO	12.0000 MHz

D-Star Repeater	
RPT1	NJ6N B
RPT2	NJ6N G
D-Star Network	
REF088 C DPlus/Out	

DMR Repeater	
DMR ID	3106616
DMR CC	1
TS1	enabled
TS2	enabled

DMR Master	
BM 3102 United St..	

YSF Network	
ZZ PARROT	

### Gateway Activity

Time (PST)	Mode	Callsign	Target	Src	Dur(s)	Loss	BER
10:54:40 Feb 17th	DMR TS1	WB6YES (GPS)	TG 31078	Net	24.0	0%	0.0%
10:53:26 Feb 17th	DMR TS1	NJ6N (GPS)	TG 31078	RF	0.4	0%	4.4%
10:52:02 Feb 17th	DMR TS1	9990	NJ6N	Net	1.9	0%	0.0%
10:51:20 Feb 17th	D-Star	NJ6N/INFO (GPS)	CQCQCQ	Net	6.8	0%	0.0%
10:49:23 Feb 17th	D-Star	NJ6N/WOOF (GPS)	CQCQCQ	RF	0.8	0%	0.0%

### Local RF Activity

Time (PST)	Mode	Callsign	Target	Src	Dur(s)	BER	RSSI
10:53:26 Feb 17th	DMR TS1	NJ6N (GPS)	TG 31078	RF	0.4	4.4%	S9+50dB (-43 dBm)
10:49:23 Feb 17th	D-Star	NJ6N/WOOF (GPS)	CQCQCQ	RF	0.8	0.0%	S9+50dB (-43 dBm)

Pi-Star / Pi-Star Dashboard, © Andy Taylor (MW0MWZ) 2014-2022.  
 ircDDBGateway Dashboard by Hans-J. Barthen (DL5DI),  
 MMDVMDash developed by Kim Huebel (DG9VH),  
 Need help? Click here for the Facebook Group  
 or Click here to join the Support Forum  
 Get your copy of Pi-Star from here.

**Brian - NJ6N**

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## **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.

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 accomodate 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.

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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 March 26, then April 30 and May 26. 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 15 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 January 29, which unfortunately conflicts with SOARA Saturday.

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. I got 4 HP latching coax SPDT 26.5/18 GHz switches, a couple of Narda 4 pole 1KW coax switches, 2x 1GHz RF attenuators, Teflon wire, 10KV wire and a big roll of Shielded Cat5e cable and more for \$140. 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.

Finally, AD6OI is running a swap meet at his house, 4 Parrell in Foothill Ranch on Saturday mornings for the next few months. If you want to buy, stop by. If you want to sell, bring a table for your stuff and a chair. Contact [ad6oi@soara.org](mailto:ad6oi@soara.org) for details.

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

**Dale - W6EDT**

### **SOARA Statement of Income and Expenses** **October 1, 2021 - January 31, 2022**

4 Months Ending	January 2022	Increase 2021 (Decrease)
General Account: Income:		
Memberships	7,068	9,539 (2,472)

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Other	1,479	199	1,280
Total Income	8,547	9,738	(1,192)

Expenses:

Repeaters:

Site rental	1,400	1,050	350
Utilities	525	415	109
Equipment & Maintenance	-	484	(484)
Property Insurance	-	-	-
Total Repeaters	1,925	1,950	(25)
All Other Expenses	2,777	183	2,594
Total Expense	4,701	2,132	2,569
Net Income	3,845	7,606	(3,761)

Beginning Cash - October 1	25,697	20,661	5,036
<b>Ending Cash - January 31</b>	<b>29,542</b>	<b>28,267</b>	<b>1,275</b>

Raffle Account:

Current Year Net Cash	(235)	(153)	(82)
Beginning Cash - October 1	2,044	2,214	(170)
<b>Ending Cash - January 31</b>	<b>1,809</b>	<b>2,061</b>	<b>(252)</b>

SOARA General Ledger Fiscal Year: 2022 Month: January

General Account #6355	Oct-Dec January	Current YTD	Current YTD
Membership Dues:			
Renewal	685.00	6,112.55	6,797.55
New	50.00	100.00	150.00
Initiation Fee	40.00	80.00	120.00
Total Member Dues	775.00	6,292.55	7,067.55
Other Revenue:			
Auctions		78.00	78.00
Equipment sales		5.00	5.00
Donations		332.00	332.00
Winter Social		1,064.00	1,064.00
Other	-	-	-
Total Other revenue	-	1,479.00	1,479.00
<b>TOTAL REVENUE</b>	<b>775.00</b>	<b>7,771.55</b>	<b>8,546.55</b>

Expenses:

Repeater Expenses:

Site rental-Santiago	350.00	1,050.00	1,400.00
Site rental-San Clemente			-
Site Rental-Laguna Beach			-
Utilities- DSL and Telephone	117.84	406.70	524.54
Equipment purchases	-	-	-
Maintenance	-	-	-

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Total Repeater Expense	467.84	1,456.70	1,924.54
Other Expenses:			
Activities:			
SOARA Saturday		55.59	55.59
Field Day			-
Meetings			-
Summer Social		223.04	223.04
Winter Social	24.57	1,737.39	1,761.96
Total Activity Expense	24.57	2,016.02	2,040.59
Web Hosting	12.50	37.50	50.00
Payment processing fees	25.20	118.10	143.30
Insurance			-
P.O. Box rental	-	166.00	166.00
All other	-	376.99	376.99
TOTAL EXPENSES	530.11	4,171.31	4,701.42
NET INCOME	244.89	3,600.24	3,845.13

Beginning Bank Balance	29,297.34	25,697.10	25,697.10
<b>Ending Bank Balance</b>	<b>29,542.23</b>	<b>29,297.34</b>	<b>29,542.23</b>

Raffle Account #7515:			
Raffle Income	-	860.00	860.00
Raffle & Door Prize Expense	-	1,094.53	1,094.53
Net Cash	-	(234.53)	(234.53)

Beginning Bank Balance	1,809.01	2,043.54	2,043.54
<b>Ending Bank Balance</b>	<b>1,809.01</b>	<b>1,809.01</b>	<b>1,809.01</b>

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

**Ron Mosher - KOPGE**  
**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 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 Repeat ers	-	-	-	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</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 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	<a href="#">Paws Fur Pink  OC Chili Run</a>	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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# 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:** Ed Barnes, WA6ED 949-468-7706  
[wa6ed@soara.org](mailto:wa6ed@soara.org)

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

**Technical:** Tom Hobbs, AE6SH 949-830-8131  
[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 [km6foy@soara.org](mailto:km6foy@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  
Facebook: K6SOA Twitter: @K6SOA