



The

October 2019

Propagator

The Monthly Newsletter of the South Orange County Amateur Radio Association

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General Meeting

October 21,
2019
7:00 PM

NP Murray
Center
Veterans Way
Mission Viejo

President's Message, October 2019

Hams Are Universally Connected

Just this morning, (Saturday, October 19) I had a reminder on how we, as Ham Radio Operators are universally connected. I don't mean connected in the traditional ways such as via RF, Echolink, attending club meetings, hamventions, and the like. We're connected in a sort of universal sister-brotherhood. Let me explain:

I had an unfortunate experience this morning, here in Maine where I am for the next few days. I was involved in a two car vehicle accident which left my vehicle inoperable, and most likely totaled. The usual things occurred. I dialed 911, the Police, the Fire-EMS and 2 tow trucks responded. Fortunately none of the people involved in either vehicle were seriously injured. The other person refused medical care, and I had a small finger laceration that was treated with a band aid.

Then the ham universal connection kicked in. One of the responding Firefighters, Dave, N1DAE (great call) recognized me as a member of the local Pine State Amateur Radio Club. He also saw the mag-mount antenna on my car and asked if I had a radio installed. I did, so he immediately told the tow truck drivers to hold off, forced open the mangled passenger door, and promptly removed my dual band radio, brackets, mic and all, Another firefighter helped me pull out the coax and remove the mag mount antenna.

I thanked Dave and the fire crew, and strolled across the street to a fast food restaurant to await a ride home from a friend. As I was crossing the street, I received a text message on my phone. After crossing and entering the restaurant I checked my text, and it was from Steve, KD1OM (another great vanity call), President of the club, asking if there was anything he could do to help. Luckily, I had no further needs. When I answered Steve in the negative, thanked him for checking, and commented that "Wow, news travels fast", his reply was "Hams are connected." Steve was so right. We hams really are connected, wherever we are.

73 and good connections.

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, October 21st at 7:00 pm for our General Meeting with our guest speaker Mike Pettus WD6E.

Mike was licensed as WB6VZY General in 1966 during high school. He graduated CSUF 1972 BA Philosophy Science and Mathematics. He upgraded to WD6E extra in 1984 and has been working in the wireless high-tech industry for over 30 years and has earned 15 issued patents. Mike specializes in RF systems engineering with the last 10 years in millimeter wave systems and techniques.

The night's presentation will go through a quick background on the fundamentals of RF, with a look at the spectrum from "DC to Daylight". Then a hunt for TX/RX technologies for the 60 GHz band. How we got involved with IBM and got early access to some cool 60 GHz chips. We'll dive into the techniques on "how to make it work" at these frequencies and how we evolved designs to work with modern millimeter wave IC packages. He will talk about the development of a 60 GHz "waveguide module" and then show some real applications with products that use these devices for 60 GHz data transmission. He will end the talk in an area of personal interest: millimeter wave radio astronomy.

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

Contacting Soara: Questions about SOARA? Postal mail: P.O. Box 2545, Mission Viejo, CA 92690
Send e-mail to membership@soara.org or leave a message at 949-667-0173
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Repeater Director's Update

What's that awful noise I hear on the 445.660 repeater frequency?

What you're hearing is DMR also known as Moto TRBO. Our Temple Hill machine is co-channelled with a repeater in Hollywood Hills that runs MotoTRBO digital. If you use PL 110.9 CTCSS on your receiver, you should not hear that anymore. When talking to others on the repeater, you should be able to hear the repeater over the DMR signal.

Brian NJ6N

SOARA Elmer Saturday (SES) September 26 Gilleran Park - Emergency Power and Operations

The October SOARA Saturday will be on the 26th at Gilleran Park, 9am to noon, coffee and donuts will be provided. The theme is emergency power and operation. We will setup tables and chairs at the connex box. Bring batteries, solar panels, generators, or whatever you would like to demo. We can also setup radios to demo how we prepare for emergencies. This is a share your ideas and knowledge event.

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 edition green SOARA Elmer badge! Goto: www.soara.org/elmers-corner/

We need to work on next year's 2020 calendar. I'm getting little feedback. Let me know what you really want or I will pick...

- APRS, automatic packet reporting system
- Digital modes D-Star Clinic, DMR, Fusion Clinic
- Cable making, power cables and coax, soldering and crimping
- Magnetic loop antenna and automated tuner
- EchoLink & IRLP Internet Radio Linking Project Clinic
- Electronic Kit building / Soldering / Safety
- SDR on Raspberry Pi 4
- Field strength meter (Past kit building SES)
- CW Morse code getting started, need Elmer
- Dipole antennas, baluns, random wire, need subject matter expert
- EMI / RFI (September Meeting)

73,
Ed, WA6ED
SOARA Elmer Saturday Coordinator

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Membership Report

226 active members, 95 paid and 129 unpaid. 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. Also make sure to check if you have a credit. Many new members have a significant credit. Let me know if anybody needs help with an application! Receive the most from your membership and participate go to www.soara.org and check out the calendar for activity information. Get radio-active!

New members!

KN6EXX, Sean
KN6EBE, Steve

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

SOARA Holiday Party - December 1

Save the Date!

Sunday, December 1st will be the Annual SOARA Holiday Party. This year we will be celebrating the season at Peppino's Italian Restaurant at Mission Viejo Lake. Non-members are also invited to join us for this event.

The cost will be \$30 per person and includes dinner, dessert and a raffle ticket. We have some great prizes this year that you won't want to miss. We will also present the annual Richard Coyne Memorial Award to a SOARA member who has contributed greatly throughout the year to both SOARA and Ham Radio.

Looking forward to seeing you all there!

**Dana Wresch - KM6LZG
SOARA Activities Director**

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.

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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
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

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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

[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

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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.

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 @ 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

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