



PROPAGATOR

The Monthly Newsletter of the South Orange Amateur Radio Association

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Meeting

Oct. 17, 2016

7:00 PM

N.P.
Murray Center
Veterans
Way
Mission Viejo

California Fire Museum

The California Fire Museum-Safety Learning Center (CFM-SLC) will make a presentation to the South Orange Amateur Radio Association during our October 17 meeting. The Power Point presentation will cover the history and operations of the CFM-SLC and their future plans for their project at the OC Great Park. After the presentation CFM Vice President Don Croucher will answer questions. The meeting is at the Norman P. Murray Community Center off La Paz, 24932 Veterans Way, Mission Viejo. The meeting starts at 7 PM, their presentation will begin around 7:45 and our meeting ends at 9 PM.



Regards:

Don Croucher, Vice. Pres.
California Fire Museum -
Safety Learning Center
Orange County Fire Services Historical Society
24861 El Cortijo Lane
Mission Viejo CA 92691-5232

Phone: 949-916-0146
Cell: 949- 212-8344
e-mail: crowncoach@aol.com
Web: www.cafiremuseum.org

SOARA's WW7D Award

Many of you have no doubt heard of the SOARA, Richard Coyne WW7D award, but may not know the story behind it. Here's a quick history and an explanation of the purpose of the award.

Annually, beginning in 2005, SOARA has presented the WW7D Award at the Holiday banquet. The award consists of a certificate, and an obelisk with clock, bearing the names of all recipients, and the year they received the award. The purpose of the award is to recognize the SOARA member who, over the previous year, has made outstanding contributions, to the club, and to the Amateur radio hobby and community. Our first honoree, in 2005, was Lou Frank KG6FCT, and last year's 2015 recipient was Hal Silverman, WB6WXO.



The WW7D award, derives it's name from, was created to honor longtime SOARA member, Richard Coyne, WW7D who passed away unexpectedly on May 28, 2002. Richard would have been a worthy recipient of his own award, for he gave freely of his time and effort both to amateur radio,

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SOARA Meeting
Oct 17

SOARA Saturday
Oct 22

CQWW SSB
Oct 26-27

SOARA Fall Auction
Nov 21

SOARA Holiday Party
Dec 11

VEC License Exams

6pm—before the General Meeting

Please see our [website](#) for more info.

Walk-ins ok.

Extra | General | Technician

SOARA Saturday

WE NEED SOME VOLUNTEERS TO BRING EQUIPMENT AND DEMO T-HUNTING for the next SOARA Saturday!!!

I can't believe it's October already. This is an early reminder the next SOARA Saturday is October 22 at the Murray Center from 9am to 12 noon. Coffee and donuts will be provided.

Tony W6TNY had the idea to make tape measure T-Hunt antennas. So, Tony W6TNY and I, and hopefully others will be making tape measure antennas at the October SOARA Saturday. There is a Harbor Freight coupon out right now for a free tape measure with a purchase. I just got one and it is better than my old Lufkin. So, my t-hunt Yagi will be a Lufkin Yagi.

Links to build parts, bring your parts and we will help you build your antenna.

Antenna: http://theleggios.net/wb2hol/projects/rdf/tape_bm.htm

Attenuator:

<http://kc9on.com/ham-radio/fox-hunting/>
<http://kc9on.com/store/amateur-radio-kits/fox-hunt-offset-attenuator/>

I will have a few extra attenuators available. I originally found them on eBay. So, I bought them at a slightly higher price. \$9.25 including shipping. I think the above link is \$8 plus shipping.

Tape measure:

Harbor Freight or an old junker in your tool box.



Reference information:

Richard Saunders, K6RBS sent this useful link, you should read:
<http://www.homingin.com/joek0ov/offatten.html>

Cliff N6PWC was kind enough to send me this information to share:

Hidden Transmitter (Fox) Hunting Information & Equipment

Info

[Homing In](#) - An extensive site on the hobby of radio direction finding. Probably the best location you will be able to find on the subject: <http://www.homingin.com/>

Also google transmitter hunting, radio direction finding,

Equipment Sources

VK3YNG VHF Sniffer (blue box): <http://www.foxhunt.com.au/>

In the US: <http://www.rdfantennas.com/index.php>

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The K7RA Solar Update 10/14/16

Solar flux and sunspot numbers rose over the past week, while geomagnetic indicators were down.

Average daily sunspot numbers for October 6-12 rose 34.3 points to 55, and average daily solar flux rose 15.2 points to 101.9, referenced to the previous seven days.

Average planetary A index declined from 21.4 to 6.6, and mid-latitude A index from 15.1 to 5.

Predicted solar flux is 95 on October 14, 90 on October 15-21, 85 on October 22-26, 80 on October 27-29, 90 and 95 on October 30-31, 100 on November 1-2, 105 on November 3-7, 110 on November 8-9, 105 and 100 on November 10-11, 95 on November 12-14, 90 on November 15-17, and 85 on November 18-22



[WM7D's Solar resource Page](#)

[DX Operations: www.nq3k.com](#)

[ARRL HF Propagation Charts](#)

SOARA Raffle

Here are the raffle prizes for Monday's (October Meeting) raffle.

\$5 prize:

Yaesu Hand Held VX-6R
Covers 2M-220Mhz-440Mhz
Whoever wins, can trade this in for a store credit. Yaesu also has a 4 band handheld that adds 6M.



\$1 Prizes:

Cordless screwdriver
Drill and Light set with battery and charger
Yaesu Baseball Cap
Digital Multi-Meter
Flashlight set

73.....Hal WB6WXO

New Dues Payment System

SOARA has recently switched to a more streamlined payment solution from Braintree payments. Using this system allows us to post your transaction faster and safer. You may visit the SOARA website and click on the "Pay Dues Online" under Membership. Braintree payments is a PayPal company and securely handles your credit card information. SOARA does not have access to nor will store your payment information.

Holiday Party Update

Date & Venue Changed!

The details of the Holiday Party are coming together.

It will now be at The Murray Center December 11th from 5-8pm

The ticket price will be the same as last year \$30, in advance.

Menu is still TBD as is the Door Prize.

-Jon KJ7ON - Activities Director



September's Raffle winner, Richard, W6LBX,
with Hal, WB6WXO.



Membership Report

Dues are now due.

We are now accepting payments.

Please go to the SOARA website to make a payment and please review the note about our new payment system on page 3.

We have 226 active members. Go to www.soara.org and review monthly event details on the calendar.

If you know someone that wants to get started in ham radio lets help them!

I hope to hear you on the radio and see you at the upcoming SOARA events!

73,
Ed Barnes, WA6ED

Membership Director
membership@soara.org

Now Pay Dues Online
Just Click Here 

Interference on the Repeaters

Our private high level 440 repeater has been experiencing several instances of extended interference lately. Interference may be intentional, or unintentional. It is often hard to tell which it is. We've all heard unintentional transmissions made by someone who has keyed their transmitter by leaning against the radio's PTT button on the car seat, or by a handie-talkie pressing up against something (e.g. in a backpack). For this reason, we recommend that you set your radio's "time out timer" (TOT) to at most, 3 minutes. This way your radio will stop transmitting after the timer has been reached and possibly even beep to let you know that you were transmitting.

If you are hearing someone playing music, tones, or otherwise transmitting "noise" through any of the SOARA machines, please do not respond or otherwise engage the person in a conversation. Instead, switch to the INPUT of the repeater (usually by pressing the REV or MON key on your radio) and record the signal strength, your current location, and any other details that might be useful including signal description, was it constant in strength, what type of antenna you were using, the bearing if you have a beam antenna, etc. Send your report to qrm@soara.org

The information collected from reports like this will help us track down and stop whomever is transmitting the unwanted noise through our repeaters. We have been very successful in tracking down and stopping interference with the expert assistance of our avid Transmitter Hunters.

Vy 73, Brian, NJ6N, Repeater Director

Reminder:

Support Passage of the Amateur Radio Parity Act!

On September 12, 2016, the US House of Representatives, passed H.R. 1301, a bill known as the Amateur Radio Parity Act. While there has been quite a bit of publicity about this bill in the Ham world, still I run into those who aren't familiar with this important bill or the provisions in it. In a nutshell, this bill extends FCC ruling, PRB-1 to deed-restricted communities with Home Owner's Associations. Those deed restrictions are typically known here in California as Conditions, Covenants, and Restrictions, or CC&R's. Unfortunately, a large number of us live in areas that are bound by those CC&R's, and are applied to us as a contractual agreement we signed, often unknowingly, when we purchased our homes.

Fortunately, there is a move, heavily supported by the ARRL, and others to invalidate CCR's where they apply to reasonable amateur radio antennas. Those efforts have brought us to where we are today, on the cusp of having those deed restrictions removed by H.R. 1301. As I indicated above, this bill to remove the antenna restrictions just passed the U.S. House of Representatives, and is now awaiting action by the U.S. Senate.

We encourage each of you to contact your California U.S. Senators, Barbara Boxer, and Dianne Feinstein (or the Senators in your state).



Send your letter here!:

<http://arri.rallycongress.net/>

(Continued from page 2) - **SOARA Saturday**

Offset Attenuator, tape measure beam kits, and listing of other t-hunting sites:

<http://www.west.net/~marvin/>

Tape Measure Beam Building Instructions Google "tape measure beam" There are quite a few variations on this. Add the 5 to 7 turns of coax shown in some of them. The original design can be found here: http://theleggios.net/wb2hol/projects/rdf/tape_bm.htm

Doppler Kits:

<http://www.silcom.com/~pelican2/PicoDopp/PICODOPP.htm>
<http://www.kn2c.us/>

Controllers and Transmitters: <http://www.byonics.com/>

Phone Apps – These are smartphone apps that allow you to plot bearings to transmitters on a map.

Foxhunt & Foxhunt Pro for iOS
 SigTrax for iOS and Android

Hunts:

SOARA Monthly T-Hunt: Normally the 1st Sunday of the month starting at 1:00 pm. Hunt frequency is 146.565 MHz and co-ordination is on the SOARA 447.180 MHz repeater, pl of 131.8 Hz. Boundaries are south of the 55 and 91 freeways to the county line (basically, south Orange County) on publically accessible property. To sign up to receive SOARA T-hunter emails, go to: <http://www.soara.org/mailman/listinfo/thunters>

OCRACES Co-operative Hunt: Second Monday of the month after the OCRACES net. Hunt frequency is the input (146.295 MHz) to the OCRACES 146.895 MHz repeater, unless otherwise announced. Co-ordination is on their 449.100 MHz repeater, pl of 110.9 Hz.

Southern California Transmitter Hunters (list of other SoCal T-Hunts): <http://www.thunter.org/>

**73,
 Ed, WA6ED
 SOARA Membership Director
 Acting SOARA Saturday Appointment**

If you are interested in running SOARA Saturday's or even to help, please let me know.



(Continued from page 1) - **WW7D Award**

and to SOARA. He served on the SOARA Board of Directors, mentored many new hams, participated in nearly every club activity, often taking the lead in organizing these events. In addition to SOARA he was a member of the ARRL the San Bernardino Microwave Society, Mission Viejo RACES, and more.

Proposed by Malcom Levey, K06SY, now also a Silent Key, this award is a rotating one, with the recipient having custody of the obelisk for a year, and then it is returned to SOARA for addition of a name plaque, and awarding to the new recipient.

Hope this clears up the mystery of the WW7D Award.

73 de Ray, AE6H
 SOARA President



**Sean Reigle, AJ6B,
 receiving the WW7D
 award in 2013.**

Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
General Meeting 7:00 PM	25	22	21	18	16	20	18	15	19	17	21	-
Program	TASMA	LFP Batteries	WU6D	Arnie Shatz N6HC	Spring Auction	Field Day Prep	Battery Boxes	SOARA Fair	Arduino Rsb. Pi	Fire Museum	Fall Auction	-
VE Testing	25	22	21	18	16	At Field Day 25	18	15	19	17	21	--
Educational Classes	Tech 23	Extra 20	Tech 19	-	General 14	Tech 18	Extra 16	-	Tech 17	-	-	-
SOARA Saturdays (9am)	30 Murray	27 Murray	26 Murray	23 Gilleran	21 Gilleran	18 Gilleran	23 Gilleran	20 Murray	24 Murray	22 Murray	26 Murray	-
SOARA T-Hunt	10	14	6	3	1	5	3	14	4	2	6	11
Board Meeting	Feb 1	29	28	25	23	27	25	22	26	24	28	-
Special Events	Quartzfest 17-23	Yuma Hamfest 19-20	Palm Springs Hamfest 12	Visalia Intl DX 15-17	Dayton Hamven- tion 20-22	ARRL Field Day 25-26	HRO Ham Jam 16	SOARA Picnic 7		JOTA 14-16		SOARA Holiday Party 11
Ham-Related Swap Meets	TRW 30 C.A.R.S. 16	27 20	26 19	30 16	28 21	25 18	30 16	27 20	24 17	29 15	26 19	31 17
Major HF Contests		ARRL DX-CW 20-21 CQWPX RTTY 13-14	ARRL DX-SSB 5-6 CQWPX SSB 26-27		CQWPX CW 28-29	ARRL Field Day 25-26			CQWW RTTY 24-25	CQWW SSB 26-27	CQWW CW 26-27	
Volunteer Events	OC Chili Run 23	Paws Fur Pink 21 OC Chili Run 27	OC Chili Run 19 Baker to Vegas 19-20	Desert Storm Rally 1-2	HD Trails 7-8 OC Mara -thon 1 Memorial Day 1/2 Mara- thon 30	ARRL Field Day/ Setup/ Ops/ Clean 24-26	4th of July Fire -works 4			Vision Quest 22		Run for a Claus 3

*Dates subject to change. Check the [SOARA website](#) to verify locations and times.

[K4KIO Hexbeam](#)

(20m only right
now)



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 — (123.0)	Santiago Peak. (C)
	440 — 445.660 — (110.9)	Laguna Beach
D-STAR	440 — 445.705 — (K6SOA B)	Laguna Beach
	440 — 447.180 — (131.8)	Santiago Peak. (C)
D-STAR	1.2G 1282.600 — (K6SOA A)	Laguna Beach

Nets:

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

D-STAR (146.115 C module):
Wednesdays 7:30pm

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

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



SOARA OFFICERS

President: Ray Hutchinson, AE6H 949-322-8468
ae6h@soara.org

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aj6b@soara.org

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kk6wow@soara.org

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kk6orr@soara.org

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nj6n@soara.org

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k6msm@soara.org

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wa6ed@soara.org

Education: Steve Kuver, K6UVR 949-874-1972
k6uvr@soara.org

Technical: Tom Hobbs, AE6SH 949-830-8131
ae6sh@soara.org

Communications: Heiko Peschel, AD6OI 949-859-3868
ad6oi@soara.org

SOARA APPOINTMENTS

Past President: Tom Hobbs, AE6SH 949-830-8131
ae6sh@soara.org

Activities: **Jon, KK6WFF (temporary)** —please contact us (board@soara.org) if you are interested.

S. Saturdays: Ed Barnes, WA6ED 949-468-7706
(temporary - please contact us) wa6ed@soara.org

Raffle: Hal Silverman, WB6WXO 714-897-5002
wb6wxo@soara.org

Testing: Sean Reigle, AJ6B 714-261-1717
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aj6b@soara.org

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ng6k@soara.org