



PROPAGATOR

The Monthly Newsletter of the South Orange Amateur Radio Association

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Meeting

Nov. 21, 2016

7:00 PM

N.P.
Murray Center
Veterans
Way
Mission Viejo

SOARA FALL AUCTION

Time to clean out the HAM shack and pick up some new projects for the winter! All are welcome to attend the next SOARA Fall Auction on Monday, November 21 at the Norman P Murray Center in Mission Viejo starting at 7pm. For more information and rules of the SOARA live auctions, check [here](#) or see the attachment on the Propagator email. A regularly scheduled FCC licensing examination will occur prior to the meeting at 6pm.



Vigilance Needed

Regardless of where you sit on the political spectrum, as radio amateurs, I believe that the results of our recent national elections signal a certain thing: a businessman will be entering the White House in January, bringing an increased business perspective to the incoming administration. Therein lies cause for our concern. A purely business perspective among the new administration appointees, including the chairman of the FCC, a political appointee, will mean seeking ways to monetize the operations of the FCC to function as a business. This will likely bring a search for ways to improve the bottom line.

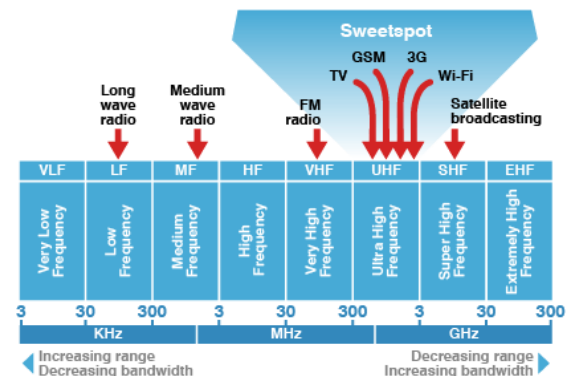
We as radio amateurs, are sitting on a veritable treasure trove of valuable, to telecommunications businesses, radio spectrum. That spectrum could be sold or leased to a large number of interests with a hunger to add consumer wireless services and devices, thereby deriving profit. [This is already happening to [broadcast TV](#) -Ed] Seeking to max-

imize potential sources of profit is what businesses do. There are significant amounts of money to be made.

History has shown that there have been numerous recent attempts to usurp our allocated spectrum by private enterprise, but it has been decades since an administration in Washington has been so business driven. I foresee an increased push to commercialize rf spectrum, and that that allocated to mere "amateurs" will be regarded as available for the taking. That's why I believe we must be extra vigilant in the years to come.

What can I do, you ask? Quite simply, be aware, be involved, and yes, be vigilant. Be vigilant to attempts and challenges to spectrum grabs. Keep informed by reading ARRL notices and any other ham radio news sources you can find. Join the ARRL's Spectrum Defense Fund. Whenever spectrum bills come before congress, write your elected representatives and let them know your position. It's so simple and easy to do in this age of emails to Congress. SOARA will attempt to keep all our membership informed, but if you learn of some move afoot, please call it to our attention so we may alert all our members. Once again, more than ever, our vigilance is needed.

73 de Ray, AE6H, SOARA President





**SOARA
Fall Auction**
Nov 21

**SOARA
Saturday**
Nov 26

**CQWW:
CW**
Nov 26-27

**SOARA Holiday
Party**
Dec 11

**No December
General Meeting**

VEC License Exams

6pm—before
the General
Meeting

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

Walk-ins ok.

Extra | General |
Technician

SOARA Holiday Party

When: **December 11th 2016**

Where: **Norman P. Murray Center (Palo Verde Room) same as our general meeting**

Time: 5pm - 8-pm

Price: \$30 per person (please get your tickets ASAP: [see the website to purchase tickets](#))

We will have plenty of room to mingle and move around this time.

In lieu of a regular club meeting in December, SOARA presents a holiday social gathering for its membership, friends and family. There are always great door prizes (see below)! A new radio anyone?? Maybe? Also, we will announce a few special awards for our membership, including the WW7D Award.

The Richard Coyne WW7D Memorial Award was created in 2005 to recognize an individual SOARA member who had made an outstanding contribution to the club and the HAM community throughout the prior year. The award is traditionally presented at the annual SOARA Holiday party and banquet in December.

The rotating award was created by the SOARA Board in memory of Richard Coyne WW7D, a very active member of the HAM community, longtime SOARA member and past SOARA board member. Richard passed away unexpectedly in May 2002. Richard would certainly been a worthy recipient of the award that bears his name.

Door prizes:

- Kenwood TM-V71A dual band mobile radio
- Kenwood THF-6A tri-band handheld
- WD 1T Passport hard drive
- 2 sets of headphones
- And possibly more

The caterer will be Zena's. The quality of the food is amazing! If you like steak and chicken you are good to go! (There will be plenty of vegetarian options as well)

This will be an alcohol free event. Cost prohibitive for permits and security.

73

-Jon KJ7ON

Activities Director





The K7RA Solar Update 11/18/16

Solar flux and sunspot numbers moved in opposite directions over the past week, and differences were more extreme than usual. Normally we expect daily sunspot numbers and solar flux to track together, and geomagnetic indices to track with each other as well, at least approximately. Average daily sunspot numbers over the past reporting week (November 10-16) rose ten points from 18.7 to 28.7, while average daily solar flux dropped from 76.9 to [75.8]. These comparisons express differences from the previous reporting week, November 3-9.

Over the same dates average planetary A index increased markedly from 6.4 to 12.7, while the mid-latitude A index changed from 4.3 to 10.1.



[WM7D's Solar resource Page](#)

DX Operations:
www.nq3k.com

ARRL HF Propagation Charts

Membership Report

Dues were due October first. Please pay your dues as soon as possible. We currently have 232 active members, with 117 paid and 112 with unpaid dues. Go to www.soara.org and review the calendar's monthly event details. 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! We have four new October members:

- 1) William Colvin, KM6FOY
- 2) Dale Tyler, W6EDT
- 3) Steve Tobey, (not yet)
- 4) John Yamanaka, KM6FPF

And two new members for September:

- 1) Steven Winnat, KM6FPE
- 2) Ed Janke, KM6FPA

Welcome everyone to SOARA! I will be making another batch of badges soon for the new folks, so send me an email if you need one. We also have membership guides. This is a document every SOARA member needs to read.

73,

Ed Barnes, WA6ED

Membership Director

membership@soara.org

Now Pay Dues
Online
Just Click Here 

SOARA Saturday November Report

Many enjoy this informal educational environment. It's easy to walk around and ask questions. So, show up, have fun, share experiences, and knowledge. SOARA will provide coffee and donuts. If you want to bring donuts or coffee please let me know prior to the meeting. I want to save SOARA money wherever possible.

Last, October SOARA Saturday

We built three element tape measure & PVC pipe type Yagi antennas for t-hunting. Scott K6WHC, Erik KK6UZS, & Frank AG6QV & Frank KK6AWB that made antennas also participated in the November SOARA transmitter hunt. We had great fun. I was impressed how well our homemade antennas with attenuators functioned. Several antennas were tuned and measured SWR at about 1.1:1 on about 146 MHz; Quite impressive!

Next, November 26 SOARA Saturday at Murray Center (T-hunt practice)

This month's SOARA Saturday will be at the Murray Center on 11/26 at 9am. Bring your t-hunting equipment. If you don't have any equipment that's okay too. Just pair up with someone, have fun, & learn. I will have the SOARA transmitter and possibly four more 1/2 watt transmitters to find. I will demo the transmitter setup too. At first, we will setup a transmitter and practice with a known location. Then, we will go hide them and see how it works out. I expect we will be sharing experiences and ideas that will be helpful for future hunts. Beware, many hunters are very competitive. You might also want this book:

Transmitter Hunting: Radio Direction Finding Simplified ***Paperback – June 1, 1987***

by [Joseph D. Moell](#) (Author), [Thomas N. Curlee](#) (Author)

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One concept Erik & I learned is there are several strategies you need on a real t-hunt. First, you need to go big and just find the signal somehow. There's no point having several cars following each other when you don't hear the transmitter. You need to spread out. After you find the signal, you need to get closer and zero in. Once you are close, you have to find it. It might be under leaves, behind a metal sign where the sign is the antenna, in a bush or up in a tree. Who knows?

There is also lots to learn from experienced T-hunters. I was impressed with Dale's W8RRV antenna and radio setup. He was more than happy to explain the details to me. I found out later, the neighbors weren't sure about those funny looking antennas on top of cars. Congratulations Dale, he also won the t-hunt this month!

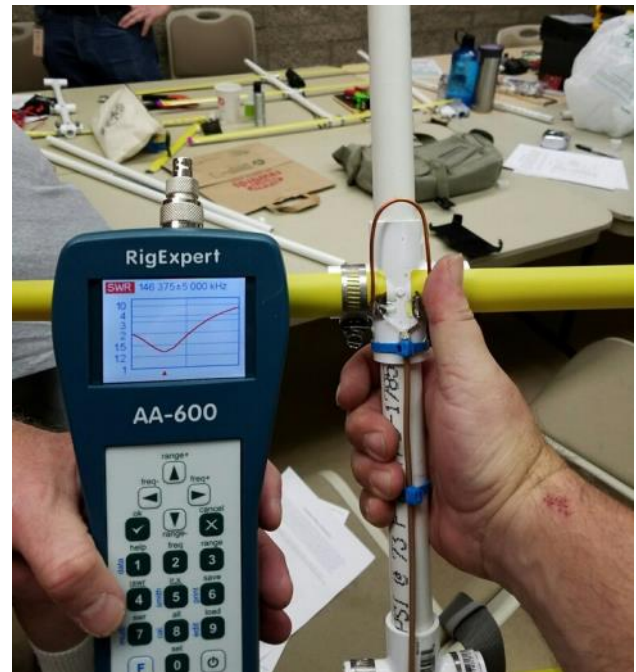
Future SOARA Saturdays:

January, QRP radio. Check out that pixie kit you built when you learned to solder. Or, bring your QRP radio equipment and share your experiences. I expect to bring several built radio kits including some tuna cans from www.qrpme.com. My next major goal is to learn Morse code...

February, DMR, Mikkel NR6E will present and demo DMR radio. Bring your DMR radio and share your experiences.

- March... open to suggestions, suggestions welcome
- Harbor Freight DMM signal strength meter
- HF demo
- HT programming with keypad and PC
- Repeater guidelines 101, best practices, how to move to simplex...
- Emergency preparation
- EMI, chokes, and noise
- WSJTX JT9 & JT65
- Morse Code starting out
- Propagation of RF Signals
- Antennas
- Modes, CW, Voice, Image modes, weak signal, digital
- Power Supplies
- Setting up a station
- Transmission Lines
- WiFi Wireless PC technology
- Radio history, crystals, tubes, to transistors
- Safety
- Grounding
- DSP, Digital signal Processing
- Nets, HF nets verses UHF/VHF

73,
Ed, WA6ED



Erik's, KK6UZS, tape measure beam from October's SOARA Saturday session.

T-Hunt Report

The following hunters found the hidden T on November 6th. It was hidden in Pebble Creek Park off El Toro road at CreekSide. Unfortunately, this location was fairly difficult to find. Several hints had to be given.

2:20pm Dale Griffith, W8RRV
 2:25pm Karl Miljevich, KF6MDF
 Gray, WA6BJY & Alan, KK6EMC
 Scott Holcomb, K6WHC
 Benjamin Kromann, KK6EMG
 Frank Kromann, AG6QV
 Frank Young, KK6AWB
 Kriss Larson, KR6ISS
 Erik Wresch, KK6UZS

We ended the T-Hunt about 3:30.
 We gave everyone a chance to find the transmitter.

I have the T. I plan to use it for the next SOARA Saturday. Then, I will deliver it to Dale Griffith for next month's hunt.

73,
 Ed
 WA6ED



October's \$5 Raffle Winner, Richard (KB6POE - right) - right with SOARA President, Ray (AE6H - left)

No Raffle this month as it gives way to the SOARA Auction.

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	4
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](#)

(A compact 20m antenna)



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



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kk6orr@soara.org

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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

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