



# PROPAGATOR

The Monthly Newsletter of the South Orange Amateur Radio Association

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## Meeting

July 20th,  
2015

7:00 PM  
N.P.  
Murray  
Center  
Veterans  
Way  
Mission Viejo

## A Visit to the World's Biggest Antenna!

All are welcome to the next SOARA general meeting on Monday, July 20 at 7pm at the Norman P Murray Center in Mission Viejo.



The speaker for our July 20th meeting will be Chip Margelli, K7JA. In January, Chip and his wife Janet, KL7MF (of HRO fame) attended the Puerto Rico Section ARRL Convention, and were able to visit the renowned Arecibo Observatory, the world's largest radio telescope. They were privileged to be allowed to trek up the catwalk to the feed platform, suspended 500 feet above the 1000-foot reflective dish below. Come to the July 20th meeting for a VIP tour of Arecibo!

## Hello, from Your New Secretary

Hello, my name is Lambert Matias, KK6WOW. I am proud to be the new Secretary for the club. And being so, I wanted to say hello and write a little something about myself by way of introduction.

First, I mostly go by Lam, or "Lam Jam" which has been my nick-name for many years. When we talk next, ask me how my nick-name "Lam Jam" came about.

Next, I would like to welcome all of the newest

members to our club. We are very happy to have you and we hope you jump right in and start being on the air using your radios and participating in club events. I would also like to send a big THANK YOU to the great Volunteer Examiners who run our testing and make things easy for new Hams to get licensed.

So about me. I'm a rookie. I tested on Feb. 23rd, 2015 and received my Technician's license on March 6th 2015. I am very excited to be a new Technician-Class operator, and I am just starting to hit the airwaves on 2m and 70cm. I can't wait to work HF, but I don't have a radio yet. I'll be studying and testing to upgrade to General shortly.

Back in 1973 as an 8 year old kid growing up in Washington D.C., I tested for and received my Citizens Band license. I was known as "Kid Slick" KBKX1827. I have been in love with radio communications, wireless technology, and electronics ever since. In Chicago in 1979 I took the HAM exam, and failed. I was not good enough with my Morse code. Unfortunately, I did not re-test at that time and kind of forgot about HAM until I got much older. But I did maintain my affinity and love for computers, gadgets and all things tech.

In the 1980's my brother and I were computer geeks programming in BASIC, Fortran and Pascal. I'll never forget having to work with punch



(Continued on page 3)



**SOARA**  
Saturday  
July 25

**SOARA Summer Picnic**  
August 2

**SOARA Fair**  
August 17

**Hamcon**  
Sept 11-13

## VEC License Exams

6pm—before the General Meeting

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

Walk-ins ok.

Extra | General | Technician Exams

## SOARA Summer Picnic

**WHEN:** Sunday, August 2, 2015  
**TIME:** 11:00am - 3:00pm  
**WHERE:** End of Island Way, Dana Point ([map](#))  
**TALK-IN:** 146.025+ 110.9Hz (San Clemente Repeater)

The first Sunday of August, SOARA holds a picnic to celebrate Summer and to give an opportunity for the families of the club members to meet in an informal setting.

SOARA provides hamburgers, hot dogs, tea and water. We ask that club members bring a side and/or desert item.

There is no cost for this event. The public is welcome although we request that you recognize that this function is provided on a first come first served basis and supplies may be limited.



## SOARA Raffle

Hal Silverman

The \$5 raffle this month is a Yaesu FT-79000R. We would need 60 to 65 tickets to raffle it off. May take two months.

The \$1 raffle will consist of items from Harbor Freight and HRO.

If there are any comments or suggestions for either the \$1 prizes or a future \$5 prize, please contact me at [WB6WXO@SOARA.org](mailto:WB6WXO@SOARA.org)

73.....Hal WB6WXO



July's Raffle Prize: Yaesu FT-79000R



Bob, KK6JVF, winner of the June \$5 raffle



## Message from the President

First of all, I'd like to thank everyone who worked hard to make this year's field day a great success. Although we don't know our corrected scores or standing among Class 3A groups yet, I believe that Field Day 2015 was a great success. The planning, coordination, and execution were truly amazing to watch. Thanks to our commencing set up on Friday, the entire effort went much more smoothly and stress free. This is a result of good planning, but also thanks to the City of Mission Viejo Parks Department for allowing us to do so. This is a departure in policy from years past on their part as early set up was not allowed by them, and we were previously restricted to a single overnight (Saturday) stay. This is an excellent example of what cooperating agencies and organizations can accomplish. Had there been an actual emergency in progress, clearly we once more demonstrated that we could step up to the challenge and be handling emergency communications quickly and efficiently.

This brings me to another point. We, as amateur radio operators, are supposed to be trained as skilled and effective communicators, and effective communications is crucial in most endeavors in life, not just in emergency situations. Exercises such Field Day, public service events, ARES /RACES drills, and even social nets such as SOARA's 40m net, the "Gordo Net", also on 40m, and our own Tuesday night VHF/UHF net offer opportunities to practice our skills. We can learn much, not just as net controllers, but with every time we check in.

First, we can learn to listen to the instructions of the net controller, such as, "Please check in with your call sign phonetically, followed by your name." Now this isn't a normal speech pattern for us, but by simply listening, then following these or other instructions instruction is great training for good communications. Another tip, is to briefly mentally form your response before activating the PTT. This avoids some umms and awws, and even misspoken thoughts, and makes you sound more professional on the air. After all, it is a "party line" with potentially many listeners, so we all want to sound good. Another step, if your interested further is to make use of the resources online through the ARRL, such as ARES, Public Service, Education, Etc.

Amateur radio allows us to continue lifelong with learning, and this learning isn't just restricted to becoming more competent with the latest technologies. While this is valuable, learning to effectively communicate has many applications inside and outside of our hobby of ham radio.

73,

Ray, AE6H

### *(Continued from page 1) - Hello from Your New Secretary*

cards and hanging out in the dark computer labs at school. It is funny to remember that I used to start a program in the lab and then run it all night and into the next day before finding out if there were some errors, only then to re-write lines of code and run it again. We had kit computers at home like the Sinclair and then gradually found it fun and easy to play with Commodores and Atari's. Back when the first IBM PC's were starting to get popular, my brother and I were selling them. I worked at Sears and my brother worked at Montgomery Wards. We were both selling office machines, typewriters, cameras and computers. I always had floppy disks and computer magazines on me and I was always trying to get machines to do clever things.

I want to tell you about a couple of gadgets that changed my life. One was my prized Texas-Instruments scientific programmable calculator. I paid \$260 for in college. I think it was the TI-59 and I wish I still had it. It was the first device that made me realize that using technology could actually help my life by speeding things up and making things easier. The other was a Radio Shack echo machine, circa 1981, which fascinated me with how it distorted sound waves creating very cool microphone voice effects. This one gadget got me started in recording and sound engineering and led to me opening a recording studio and being in the music business for over 3 decades. I guess Joe Walsh (WB6ACU) and I have a lot in common...except he is famous and rich.

*(Continued on page 6)*



## HAMCON 2015

The ARRL 2015 Southwestern Division Convention returns to the Los Angeles area and explores Amateur Radio's second century.

September 11-13, 2015

### Explore, learn, and meet amateur radio's future

See what's new under the Sun at the largest ham radio convention in the Southwestern United States:

#### Four program tracks looking at the future

- Emergency Communication
- DXing and Long-Distance Communication
- Technical Topics
- Topics for New Hams

#### Win ham radio prizes

Every paid registered attendee receives four free door prize tickets and has an equal chance to win—no tickets will be sold.

#### 65-booth Vendor/Exhibitor Hall

See and purchase the latest in ham radio equipment, speak directly with many manufacturers and retailers.

MEET  
FELLOW HAMS  
FROM ACROSS THE  
SOUTHWEST.

*Early-bird registrations get free patch or pin with distinctive convention logo, shown above.*

Other things you can do at HAMCON 2015:

Operate ARRL station W1AW/6, participate in a "Fox Hunt," get initiated in the ARRL Wouff Hong, inspect emergency communication vehicles of area government-affiliated amateur radio groups, ARRL QSL checking, get licensed or upgrade at VE session.

Visit <http://www.hamconinc.org/> to register online, download a registration form, make special-rate hotel reservations, or get updated convention program information. Early-bird registration ends August 1, 2015.

### HOTEL INFORMATION



#### The Torrance Marriott South Bay Hotel

3835 Fashion Way, Torrance, CA 90503

Our convention site is one of the area's top hotels. A special discounted \$119 per night rate (including free in-room high-speed internet and discounted \$5 per night parking) is available to HAMCON 2015 attendees. Online reservations at this special rate can only be made through Marriott's link on HAMCON's website, [www.hamconinc.org](http://www.hamconinc.org) then click on Hotel Reservations in the Main Menu. Or call Marriott at 1-800-228-9290 and say, "HAMCON Convention." Act now: This special rate is only available for reservations made by Aug. 15, 2015.

## From Membership



We now have 219 active members. This is up 6 members.

**Field Day:** We had a very productive field day membership drive with 22 applicants and two renewals. The board will be voting on the applicants at our next meeting. Tony Sanchez stopped by during field day and donated a bunch of pens and pads. Thank you Tony!

**Badges:** If you have a faded or worn badge, just email [membership@soara.org](mailto:membership@soara.org) and make a request. I know the orange paper fades easily. I will make you a new badge and have it available at the next meeting or event I attend. Let me know if you have a better idea for the back to the badge. The back of the badge now looks like this [see figure to the right]:

**Repeater User's Guide & Membership Manual:** Version 7.0 is now available. I will have them available at meetings and other SOARA events I attend. So, be sure and stop by and get yours.

This guide and manual has all types of good content. It covers repeater control and access, Echolink, IRLP, D-STAR, repeater operating guidelines, emergency comms's group using SOARA repeaters, constitution, bylaws, activities calendar, active membership roster, repeater information, telephone numbers and monitor frequencies.

**New Member Reference:** I'm working on a reference document for new SOARA members. I know from my own experience there's lots to learn about amateur radio. My friend Jim, KI6LOM supplied me with tons of radio links. I will be filtering through these links and sending out a PDF. Email membership if you are interested in a copy. I plan to email this to new members and possibly visitors. We might want something different for visitors. Suggestions for content are welcome too.

I look forward to seeing you at meetings, club events, SOARA Saturday's, and hearing you on the radio.

73,  
Ed Barnes, KK6PUB, Membership Director

Freq.	PL	Name
145.240-	110.9	SOARA, Trabuco canyon
146.025+	110.9	SOARA, San Clemente
147.645-	110.9	SOARA, Laguna Beach
224.100-	110.9	SOARA, Laguna Beach
224.640	123.0	SOARA, Santiago Peak
445.660-	110.9	SOARA, Laguna Beach
447.180-	131.8	SOARA, Santiago Peak
146.895-	136.5	OC RACES
1282.600-	n/a	SOARA, K6SOA "A"
445.705-	n/a	SOARA, K6SOA "B"
146.115+	n/a	SOARA, K6SOA "C"
1299.900	n/a	D-STAR DD
OC Sheriff Dispatch		949-770-6011
CHP Dispatch OC		949-559-7888
OC Fire Authority		949-573-6600
Unauthorized duplication prohibited		
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## Education Update—Class Dates!

We have the Lantana room at Norman Murray from 8AM-5PM (actual times TBD) on the following dates:

**08/08, 09/19, 10/10, 11/14**

I expect tech-level class on the 8th, and don't know for sure, but a General would probably be good in September.

The important thing is we have the dates now, so we can work out whatever sequence of classes best suits the membership. Please contact me with suggestions.

-Steve, K6UVR, Education Director ([k6uvr@soara.org](mailto:k6uvr@soara.org))



*(Continued from page 3) - Hello from Your New Secretary*



So after 39 winters, I left Chicago just 2 years ago and now live in Aliso Viejo. I feel like I am on the longest vacation ever. The first thing I noticed being from Chicago is that all the cars are clean here, there are no tornado shelters, no pot-holes in the roads and the the news anchors all have tans. I am also not use to NFL games starting in the morning.

Today, I own a company that sells specialized wireless and mobile communications. But really, I am just a technology enthusiast with a knack for serving others and a love for meeting people.

Anyway, since receiving my Technician class amateur radio license I have a renewed excitement about radio and all things wireless and communications. I expect to be learning a lot, getting advice, and working on gear and rigs and experimenting with different communication modes. After all, isn't that what it is all about?

By the way, I had an opportunity to volunteer to work the OC Marathon this year (2015) and it was really fun and exciting. 20,000 runners. Try it some time. We are always looking for volunteers to help out with communications. I got to run the communications at a First Aid Station (#5) with 2 paramedics and a great group of high schoolers who were working the water station. Even though I had to get up at 4am, it was lots of fun and I will be doing it again. I am also volunteering for FireWatch and ARES.

Whether you are a new member or a SOARA veteran, I encourage you to get involved in some of the club activities like the meetings, nets and other events. You may not know it, but sharing your individual knowledge and experience, whatever it may be, could greatly benefit the club and our members in some way. If you have some ideas, suggestions or projects that you would like to share we would love to hear from you. I look forward to talking to you on the radio and meeting you in person very soon!

73,

Lambert "Lam Jam" Matias, KK6WOW

## HamShield Kickstarter

Ed Barnes, KK6PUB

Club members may be interested in a Kickstarter called HamShield by [Casey Halverson](#). The HamShield is a UHF/VHF shield for the Arduino platform. The Arduino is an easy to program open-source embedded computer. Arduino Uno R3 costs about \$25-27 and are available from Amazon, Sparkfun and Adafruit to name a few.

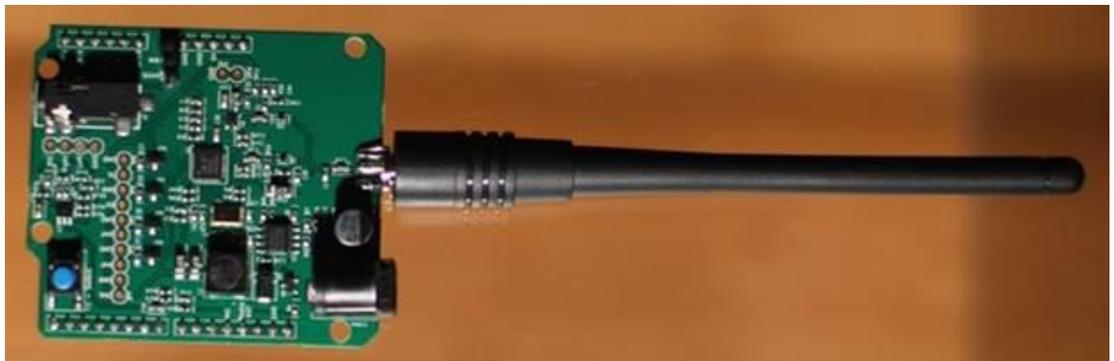
The HamShield is powered by the Auctus 1846S radio transceiver IC. There are only about 9 days left before the kick-start closes. So, If you want one you should pledge your order quickly. \$120 for shield, power supply and antenna. \$99 for shield. Estimated delivery October 2015.

Search YouTube for hamshield. There are several example videos.

Here's the KickStarter link: <https://www.kickstarter.com/projects/749835103/hamshield-for-arduino-vhf-uhf-transceiver>

Arduino information link: <https://www.arduino.cc/>

Photo of hamshield that plugs into the Arduino



*(Continued on page 7)*



### How to Treat a Volunteer

I have been a volunteer for over 40 years now. As such I think that I can speak from personal experience. My history goes back to the mid seventies when I started with foot races and then bike races. This led to getting a ham license in '93 and more volunteering.

We are all volunteers in this service (hobby) and should be treated as such. Whether you agree or disagree with someone you should always keep your language and opinions at a respectable level.

When you disagree with someone use your skills and abilities to help them, and use positive points to encourage their efforts.

Remembering that when your actions and words make it less than fun for the other party you may lose their assistance and involvement. So please be respectful to your fellow volunteers.

Thanks.  
Heiko, AD6OI

## T-Hunting : ARDF Championships

Early registration is now open for the 2015 USA and IARU Region 2 ARDF Championships, which will take place during the last week and weekend of August. The site will be Peaceful Valley Scout Ranch, a beautiful 3300-acre facility at 7000 feet elevation, about 40 miles south-east of downtown Denver and 30 miles northeast of Colorado Springs. Events will include classic competitions on two meters and eighty meters, plus sprints and foxoring, all on excellent orienteering maps.

An optional ARDF "training camp" will take place on Monday through Wednesday, August 24-26, just prior to the championships. Separate morning and afternoon sessions are being planned for each day. Participants can attend as many sessions and days as they wish. These practices will concentrate on taking reliable bearings, interpreting reflected signals, determining the likely control locations, course strategies, route choices, and other essentials for doing well.

The training venues will be separate from the weekend competition areas. The training courses are expected to be shorter than competition courses, and will be suitable for first-timers as well as experienced radio-orienteers.

Classic two-meter and 80-meter competitions, as well as foxoring and the sprints, will take place at the Scout Ranch. The Event Information Page (<http://www.homingin.com/usachamps2015>) includes the schedule, transmitter frequencies, directions, plus details about maps, transportation, lodging, ranch rules, weather and much more.

To insure your place at the championships, register online now. Every adult and youth entering PVSR must be registered, including competitors, spectators, officials and volunteers, so that a daily head count can be provided to PVSR staff. Go to <http://www.homingin.com/farsnews> for registration instructions.

Please pass this message along to anyone interested in on-foot hidden transmitter hunting.

Thanks and 73,  
Joe Moell K0OV  
ARRL ARDF Coordinator

*(Continued from page 6) - HamShield Kickstarter*

### Specifications from the KickStarter website:

1. Form Factor: Arduino-compatible stackable shield
2. Arduino Pins: I2C; GPIO, PWM and ADC
3. Frequency RX/TX: 134-174MHz, 200-260MHz, 400-520MHz
4. Amateur Radio Bands: 2 Meter, 1.25 Meter, 70 Centimeter
5. Power Output: 250 milliwatts (preliminary)
6. Radio SoC: Auctus A1846S
7. Channel Bandwidth: Selectable between 12.5KHz and 25KHz
8. Subaudio Modes: CTCSS, CDCSS (transmit/receive independent)
9. Advanced Features: Volume, Squelch, VOX, DTMF encode, DTMF decode, tail noise elimination, tone generator, tone detector, RSSI
10. Pre-Emphasis: Can be disabled to assist with digital modes
11. Antenna Connector: SMA, 50 Ohm (optional "rubber duck")
12. Audio Connection: Hardware selectable between TRRS (mobile phone style headset) and Arduino PWM/ADC inputs and outputs, PWM/ADC smoothing filters built in
13. Input Voltage Range: 5-20VDC, 4xAA, 7.4 volt lithium battery pack, power adapter capable (requires external power supply as Arduino does not supply enough power for shield)



### A note from Communications

Our nets are going well, but we are always looking for more volunteers. The 40m net on Sundays is going well with different net controls every week. We have had Ed, KK6PUB, Sidney, K6DMT, Lou, KG6FCT and myself the last month. If any of you would like to take a turn, please show up on 7.200 at 8am on Sunday mornings and we'll be glad to let you run it.

The Tuesday evening 2m/220/440 net at 8pm is doing well but we are always on the lookout for more net controls. The current group of Mikkel, NR6E, Sean, AJ6B, Norm, KJ6SON, Drew, KI6IZD and myself AD6OI can always use some relief. So if you're interested feel free to send me an e-mail or give me a phone call. The D-star net on Wednesdays at 7:30 is run by Ernie, W6ETS and he is always looking for more check-ins. Thanks and hope to hear you on the air.

Heiko  
[AD6OI@soara.org](mailto:AD6OI@soara.org)

## Recent SOARA Repeater Maintenance Activity

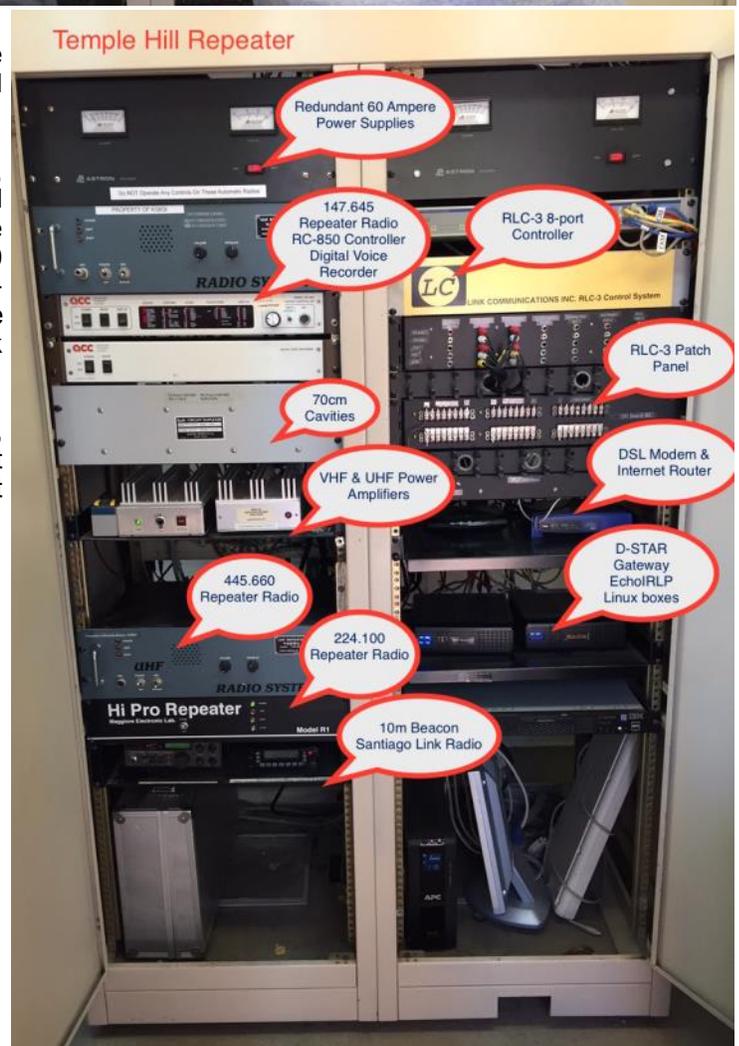
On Sunday, July 12th, we moved the 147.645 repeater radio, link to Santiago Peak 447.180, and EchoIRLP system over to the new RLC-3 controller. The ACC RC-850 repeater controller is no longer being used at Temple Hill. The current list of commands for the new RLC-3 repeater controller may be found on page 9 of your new SOARA handbook. More features and functionality will be added over time.

We now have the ability to link any of the repeaters on Temple Hill to each other, and to Santiago Peak. In the future we will be adding links to the Trabuco and San Clemente sites as well.

On Monday, July 13th, Ray, Horst, and I returned to the Temple Hill repeater site to replace a defective cooling fan in one of the two 60 Ampere power supplies that powers the repeater equipment. We also replaced a 16 port network switch that had failed recently.

Many thanks to Howard, Ray, Heiko, and Horst for their expert guidance and assistance that went into the recent repeater work.

Vy 73,  
 Brian, NJ6N



## Field Day Results

Thank you for all of those who participated with Field Day this year. I believe we all had a great time and look forward to next year!

We are looking for speakers for upcoming SOARA general meetings.. if you a request to hear a particular topic or would like to present to the club, please contact me.

Sean, [aj6b@soara.org](mailto:aj6b@soara.org)

Additional Field Day pictures can be found at:  
[http://www.dgtak.com/PhotoGallery/Gallery-SOARA\\_FieldDay\\_150627/](http://www.dgtak.com/PhotoGallery/Gallery-SOARA_FieldDay_150627/)

SOARA (K6SOA) made 1756 contacts this year, which exceeded last year's count of 1724. The GOTA station (K6WO) made a further 168 contacts. Great job all!

Here is a summary of K6SOA contacts, by mode and band.

Top operators:

DR (K6NR): 394  
 SK (K6UVR): 277  
 PS (KB7V): 237  
 SR (AJ6B): 208  
 TA (W6Si): 207  
 PL (WA6LDI): 120

CW	842
Phone	914
80m	156
40m	475
20m	732
15m	301
10m	25
6m	46
2 & 1.25	21



## Sparky, NG6K, in England

[Spencer's Mission Blog](#)

6/22: The big accomplishment of the week is that I am now driving. I did my three hours with an instructor, and now we can use the car. I'm getting used to driving on the opposite side much faster than I thought I would. With only one day of real driving down, it is starting to feel really natural.

One of my favorite things to do when street contacting or tracting is to look for any house with a ham radio antenna on top, and this week I found three. While in Whitham on Thursday, I met Nick, M3IMR. We were on our way to a dinner appointment when I saw a beam and a VHF/UHF vertical on a tower on a house. I was so excited I ran across the street without thinking about it, and we found Nick working on his car in the driveway. We talked for about 20 minutes, and I found out that two of his antennas came from the states... I left him with a card with my call sign and phone number on it. The next house I found had an HF vertical in the back yard, but the wife of the ham was the only one home. We did talk about the Church, but the antenna served as a great ice breaker. We also left her a card. The last house I found had some type of Ford in the driveway with two dual band verticals on it, and I could see wire antennas in the back yard. No one was home, so we left them a card on the door.



Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
General Meeting 7:00 PM	26	23	16	20	18	15	20	17	21	19	16	—
Program	N6HC DXped.	Old Time Radios	Gordon West	Light House/ Ship	<a href="#">Spring Auction</a>	<a href="#">Field Day Prep</a>	Arecibo	<a href="#">SOARA Fair</a>	TBD	TBD	<a href="#">Fall Auction</a>	—
VEC Testing	26	23	16	20	18	At Field Day	20	17	21	19	16	—
Educational Classes								8 Tech	19 General	10 TBD	14 TBD	—
SOARA Saturdays (9am)	31	28	21	25	23	20	25	22	26	24	21	—
SOARA T-Hunt	11	8	8	12	3	7	5	2	6	4	1	6
Board Meeting	Feb 2	Mar 2	23	27	Jun 1	22	27	24	28	26	23	—
Special Events	<a href="#">Quartzfest 18-24</a>	<a href="#">Yuma Hamfest 20-21</a>	<a href="#">Palm Springs Hamfest 14</a>	<a href="#">Visalia Intl DX 17-19</a>	<a href="#">Dayton Hamven- tion 15-17</a>	<a href="#">ARRL Field Day 27-28</a>		<a href="#">SOARA Picnic 2</a>	<a href="#">ARRL SW Division 11-13</a>	<a href="#">JOTA 16-18</a>		<a href="#">SOARA Holiday Party 6</a>
Major HF Contests		<a href="#">ARRL DX-CW 21-22</a>  <a href="#">CQWPX RTTY 14-15</a>	<a href="#">ARRL DX-SSB 7-8</a>  <a href="#">CQWPX SSB 28-29</a>		<a href="#">CQWPX CW 30-31</a>	<a href="#">ARRL Field Day 27-28</a>			<a href="#">CQWW RTTY 26-27</a>	<a href="#">CQWW SSB 24-25</a>	<a href="#">CQWW CW 28-29</a>	
Volunteer Events	OC Chili Run 24	Paws Fur Pink 14 OC Chili Run 21	OC Chili Run 14 <a href="#">Baker to Vegas 28-29</a>	Ride for Rwanda 25	<a href="#">HD Trails 2</a> <a href="#">OC Mara- -thon 3</a> <a href="#">Memorial Day 1/2 Mara- -thon 25</a>	<a href="#">ARRL Field Day/ Setup/ Ops/ Clean 26-28</a>	4th of July Fire -works			<a href="#">Vision Quest 24</a>	Stache Dash TBD	

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



**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 — (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  
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