



RF



ORANGE COUNTY AMATEUR RADIO CLUB, INC.

VOL. LVII NO. 08

P.O. BOX 3454, TUSTIN, CA 92781-3454

August 2016

The Prez Sez.....

By Nicholas AF6CF



Hello!

August is now here, and this means that there is less than a year to the next ARRL Field Day! Seriously speaking, we hope that next year will be at least as successful as this one was. We have big plans for the rest of the year with the upcoming Show-N-Go activity, the Club Auction in October and a few excellent speakers for this month and the November meetings.

This month we have more than one speaker, actually a panel composed of some the best DX ham operators in the world, or

even the Solar System (or maybe just the county). These laureates will explain to us the uninitiated all the nuances of a good DX operation, like working split frequencies, how many kilowatts is the minimum power required for any contact, etc etc. So mark your calendars and do not miss this presentation. Once again, thanks to the generosity of its members, the Club did not lose money on the Field Day activity as generally expected.

The Christmas party date and location is already set and now the VP and the Activities chair are already working on the preparations.

As usual, I look forward to an eyeball contact with you all at the next General Meeting.

Again, thanks to all.

73 DE AF6CF

Speaking at next OCARC General Meeting will be a panel composed of some the Best of the Best DX ham operators in the world that we know!

Please see the

'Distinguished Panel of DXers'

write-up that appears on Page05 in this month's RF Newsletter for more details.

The next General Meeting will be on:

**Friday, August 19, 2016
@ 7:00 PM**

ENTER from the WEST SIDE entrance of the Red Cross Building, Room 208
Take elevator to the 2nd Floor. See you there!

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2016 Club Appointments:

W6ZE Club License Trustee:

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Contact the Newsletter:

Feedback & Corrections:
rf_feedback@w6ze.org

Submit Articles:

editors@w6ze.org

Monthly Events:

General Meeting:

Third Friday of the month
at 7:00 PM held at:
American Red Cross
600 Parkcenter Drive
Santa Ana, CA
(Near Tustin Ave. & 4th St.)

Club Breakfast (Board Mtg.):

Normally First Saturday of month at 8am
Marie Callender's Restaurant
1821 North Grand Ave
Santa Ana, CA
(Between 17th & Santa Clara)

Club Nets (Listen for W6ZE):

28.375 ± MHz SSB
Wed- 7:30 PM - 8:30 PM
Bob AF6C, Net Control

146.55 MHz Simplex FM
Wed- 8:30 PM - 9:30 PM
Bob, WB6IXN, Net Control

7.086 ± MHz CW **OCWN**
Sun- 9:00 AM – 10 AM
Ann K6OIO, Net Control



Club Dues for 2016:

Regular/New Members* - - - - - \$30
Family renewal/Join** - - - - - \$45
New Member Join Jul-Dec*** - - \$15
Replacement Badge**** - - - - - \$ 3

* New members Jan-Jun, w/badge.

** Two members or more, w/badge.

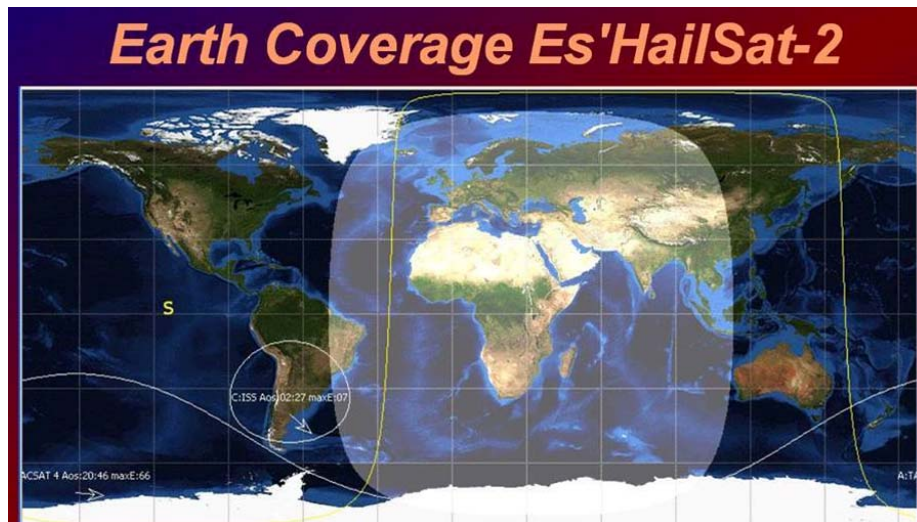
*** New members Jul-Dec, w/badge.

**** There is a \$1.50 charge if you'd like to have your badge mailed to you.

Geostationary Es'HailSat-2 satellite is planned with Ham Radio transponders by Ken Konechy W6HHC

As a result of a concept proposed by the Qatar Amateur Radio Society, the Es'HailSat (the Qatar Satellite Company) announced that their new geostationary Es'HailSat-2 communications spacecraft will provide two transponders for use by radio amateurs. The spacecraft is expected to be ready for launch by the middle of 2017 (currently planned for 2017 Quarter-3).

Es'HailSat-2 will provide a 250 kHz linear transponder intended for conventional analog operations (CW, SSB, FM) in addition to another transponder which will have an 8 MHz bandwidth. The latter transponder is intended for experimental digital modulation schemes and DVB amateur television. Think of the wideband transponder as a 8 MHz-wide "bent-pipe". The technical design support of the two ham transponders is under the leadership of AMSAT-DL. The geostationary position will give coverage of Europe, Africa, Asia out to Thailand, and a piece of Brazil.



Map of signal coverage for the two Ham Radio transponders
(courtesy of AMSAT-DL)

Narrowband (250 KHz) Linear transponder

- 2400.050 - 2400.300 MHz Uplink
- 10489.550 - 10489.800 MHz Downlink

Wideband (8.0 MHz) Digital transponder

- 2401.500 - 2409.500 MHz Uplink
- 10491.000 - 10499.000 MHz Downlink

There is a YouTube video of the AMSAT-UK conference presentation on the ham radio DATV transponder given in July 2016 by Dave G8GKQ of the British Amateur Television Club (BATC).

<https://www.youtube.com/watch?v=hnALEzG8rEQ&index=10&list=PLTDI7Ibh1cWoBqnxVSkIHfzZmCHcC2ZG2>

While this satellite coverage does not reach United States or any part of North America, Peter Guelzow DB2OS (President of AMSAT-DL) explains that this ground breaking project is expected to provide an exciting new phase of activity for radio amateurs for the 21st century.

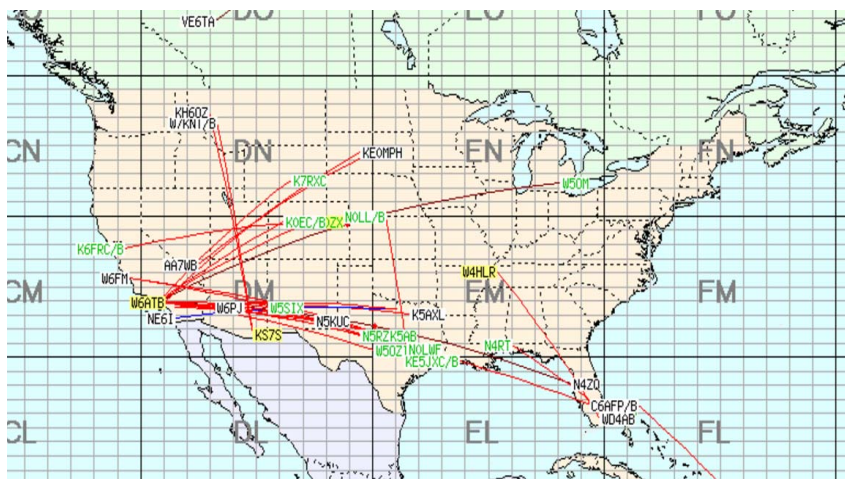
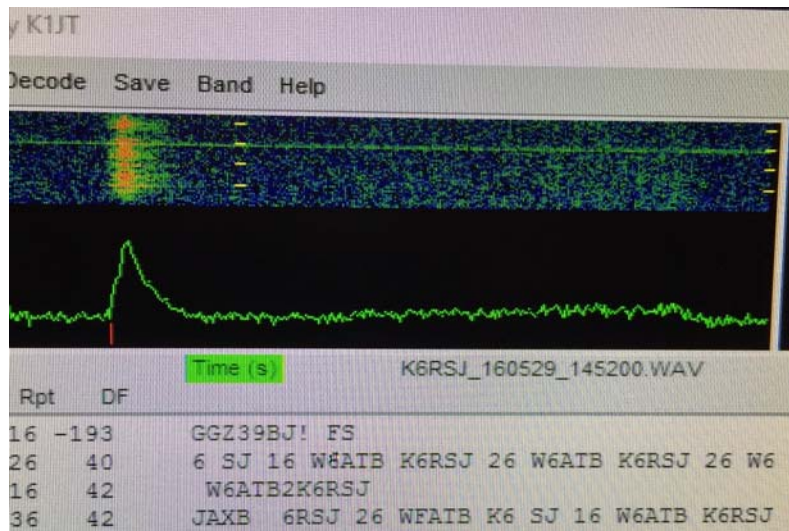
On the Bands - 50 MHz & Above

by Greg Bohning W6ATB

The month of July with warmer weather has brought good tropospheric propagation and many hours of Sporadic E (Es) above the 50MHz mark. So far in the month of August, (Es) conditions have remained good and on many nights extending late into the evening. Also this month the Perseids meteor shower peaks around August 12. Perseids Meteor Shower is the big summer event for Hams who enjoy meteor scatter operations on 6 & 2 meters. I operate digital (WSJT software) Meteor Scatter almost daily in the early morning hours, on the 6 & 2 meter bands. I have made numerous MS contacts, on both 2 & 6 meters, with my brother Dave, K6RSJ and others. Dave is located in Redmond, OR about 746 miles from my City of Orange QTH.

The top picture shows a Meteor Scatter contact I recently made with K6RSJ on 2 meters. Some say 2 meters isn't a good meteor scatter band and I disagree, you just need to know the sweet spot distant between stations. For 6 meters the best distant is 400 to 600 miles and for 2 meters the distant is between 700 to 900 miles.

The bottom DX Maps picture shows a very good (Es) day on 6 meters for me (W6ATB). This computer snap shot was taken on July 7 and I was using the digital mode JT65 (not meteor scatter).



Distinguished Panel of DXers

by Tom Cowart W6ETC

Distinguished Panel of DXers
August 19th, 2016 @ the ARC Santa Ana

Topic: "Tips and Tricks of DXing and everything you wanted to know about DXing - but was afraid to ask!"

Panelist's include:

1. **Arnie Shatz N6HC**
2. **Bob Harrington AA6PW**
3. **Chip Margelli K7JA**
4. **Dan Dankert N6PEQ**
5. **Douglas Wood K6PGH**

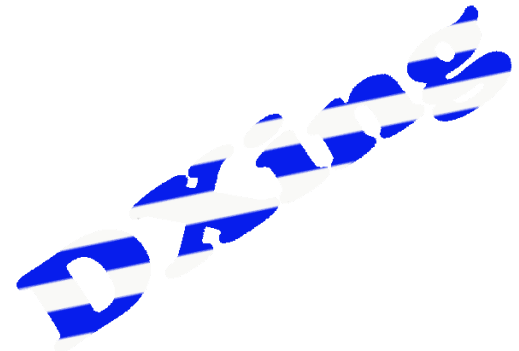
The Orange County Amateur Radio Club membership meeting being held on August 19th at the American Red Cross in Santa Ana will be hosting a Panel of Experts regarding an important topic concerning Amateur Radio. We have carefully selected the Best of the Best of DXers that we know of for this distinguished panel.

This event offers very interesting, fun filled, informative and thought provoking based on open discussions and Q&A about various aspects of amateur radio specific to DXing. The term DX itself basically denotes the practice of amateur radio op's making two way radio contact with other amateurs in distant countries (aka DXers). The name of this hobby comes from shorthand telegraphic term DX for "distance" or "distant" (Wikipedia).

Do you have a burning question that you've always wanted to ask an experience ham operator re-

garding DX? Have you been intimidated by the DX process? At this event you will get excellent advice from DX experts in different areas of amateur radio? This is your opportunity to learn more about contesting, DX training, digital operations, meteor scatter, QRP, DX nets, ham shack set-ups, and that DX question that you wanted to know but was afraid to ask! So plan on being at the next OCARC membership meeting August 19st 7:00PM at the American Red Cross.

Recently I've been asking around to the amateur radio community about their burning DX questions.



I've compiled a list of the top 15+ questions thus far:

Mark your Calendar: OCARC August 19th Membership Meeting, 7:00PM at the American Red Cross in Santa Ana

1. Where did the term 'DX' come from and what does it mean?
2. How do you determine the when the conditions exist to operate DX?
3. Don't you need special equipment? (Can I use a mobile radio, +beam antenna necessary?)
4. What are some of the **tips and tricks** of DXing?
5. What is and how do you **successfully operate split** to get through the pile? (Common question)
6. What DX nets would you recommend?
7. What are the best DX internet sites?
8. Which HF bands are best during the day or evening?
9. What is a DX spot page? What is a DX (cluster) map and how do you read it?
10. What DX contests are the most fun for you?
What about contests for a beginner?
11. What type of equipment do you use for DXing and why?
12. Do I need a lot of power to be heard?
13. Does DX require special license privileges to operate?
14. What are the **biggest Don'ts** when it comes to operating DX?
15. What is a DXCC?

The OCARC Board of Directors believes that the DXing aspect of amateur radio is something of a mystery for some and for others a bit of a challenge. If you want to improve your success with DXing make sure you attend!

Coming in August Show and Go

What is Show and Go: A remote activation followed by a fox (transmitter) hunt! Members will arrive at Vista Park, Fullerton (Southwest corner of East Bastanchury Road and St. College) at 8:30am on Saturday August 20th. This also the location for Summit House Restaurant, please park in the lower parking lot off St. College Blvd. We will assist you to activate on HF with just your normal "HF go kit" gear. No generators, towers or fancy gear needed; just the basics. Then all participants will have the opportunity to further hone their skills by joining a "fox hunt".



2016 OCARC SHOW & TELL SCHEDULE

This is a list of suggested Show and Tell activities for the 2016 calendar year. Bring your item to show and tell! *

- August:** Morse Code
- September:** Digital Modes
- October:** Auction – no "S-n-T"
- November:** Linear Amplifiers
- December:** X-MAS Party - no "S-n-T"

*If you wish to participate in the "Show & Tell", please contact the Activities Chairman Tim, N6TMT N6TMT@w6ze.org, or just bring your "treasured stuff" to OCARC meetings to share with the other members.

Note: Topics are subject to change without notice.

Quick-View OCARC 2016 Calendar and Topic Schedule

	OCARC Membership*	Board of Directors Meeting B
8	8/19	
9	9/16	9/03
10	10/21	10/01
11	11/20	11/05
12	Christmas Party 12/09	open

OCARC Board of Directors schedules breakfast meetings on the 1st Saturday of each month. ' B ' Indicates Breakfast available at extra cost, meeting held offsite at a location; Marie Calanders.

*OCARC membership meetings are typically held the 3rd Friday each Month.

OCARC Cash Flow - Year To Date

1/1/2016 through 8/11/2016

Category	1/1/2016- 8/11/2016
INFLOWS	
ARRL Membership Dues	39.00
Badge Income	6.00
Battery-Box-Kit	150.00
Dues, Membership 2016	1,670.00
Dues, New Member 2016	180.00
Field Day Food Advance	398.50
Food Snacks Donations	33.00
Old Generator Sold	100.00
TOTAL INFLOWS	2,576.50
OUTFLOWS	
ARRL Membership Expense	34.00
Bank Svc Chg	35.00
Battery-Box-Parts	166.25
CA Statement Of Info filing	20.00
Coffee Supplies Expense	76.73
Field Day Food	612.50
Food Snacks	181.44
Money Back For Change	10.00
OCARC Historian	159.46
PO Box Rental	60.00
Postage	39.16
Storage Locker	664.00
Web Site Hosting	44.97
TOTAL OUTFLOWS	2,103.51
OVERALL TOTAL	472.99

OCARC General Meeting Minutes July 15, 2016 by Ken W6HHC

The OCARC General Meeting was held at the Red Cross Complex in Santa Ana on July 15th 2016. There were a total of 35 members and visitors in attendance. There was a quorum of officers, with all directors present except Greg W6ATB and Don N6XBP.

PROGRAM:

Our main speaker for the evening was Carl Gardenias WU6D, ARRL Section Manager for the Orange section, speaking on:

"Update on Orange Section and ARRL Headquarters..."



ARRL Orange Section Manager Carl WU6D has been our SM since 2003

Carl WU6D discussed ARES EmComm, gave an ARRL Orange Section update, described resources on the internet and YouTube, outlined what is happening at the ARRL HQ, and held an open forum.

Carl reported that the new ARRL President is Rick N5UR and the new ARRL CEO is Tom NY2RF. The ARRL website points to great resources available on the internet and YouTube. One new resource is "**The Doctor is in**", a twice-monthly podcast produced by Joel Hallas W1ZE on all things technical. Go to www.ARRL.com/doctor/

Cathy Gardenias K6VC talked on the Amateur Radio Educational Foundation that is

injecting Ham Radio into schools. Go to <http://arEduFoundation.org/>

Other Business and reports

- The Catalina repeater group has set up a new 6M repeater on 51.860 (0.5 MHz offset)
- El Presidente Nicholas AF6CF reported that the PayPal work-group was actively working towards adding PayPal button to the club web site for new and renewing members.
- Show-n-Tell – Nicholas AF6CF opened a shipment from Hong Kong containing two Tytera model MD-380 UHF DMR (Digital Mobile Radio) handheld radios.



The TYT MD-380 UHF radio operates 400-480 MHz

The TYT MD-380 hand held will output 5 watts and operate in both the DMR digital mode as well as FM mode. One of the radios is for Nicholas and the second radio is for Tom W6ETC.

Respectfully submitted **by Ken W6HHC**



OCARC BOARD MEETING MINUTES

2016-08-06

The OCARC Board meeting was held at the Marie Callender's Restaurant on Grand Ave in Santa Ana on August 06th, 2016. There were a total of 12 directors and members and visitors attending. There was a quorum with all Directors present except Bob AF6C and Don N6XBP.

Director Reports:

- **Treasurer** – Greg W6ATB just returned from a vacation in Europe and had no financial report for the Board, yet. He explained he will publish a YTD Financial Report in the August RF Newsletter. Greg did report that the OCARC has two new club members who have paid up, Brian Ahn KM6CXL and John Willoughby N6WDK.
- **Activities** – Tim N6TMT reported that he has organized a “Show-and-Go” park-gathering event followed by an OCARC 2M T-Hunt for Saturday August 20th...starting at 8:30 AM. The club event will be held at Vista Park, Fullerton (Southwest corner of East Bastanchury Rd and St. College), near the Summit House Restaurant. A detailed write-up will appear in August RF Newsletter.

OLD BIZ:

• Newsletter Editors

Aug - Greg W6ATB
 Sept - Brian KM6CXL
 Oct - Nicholas AF6CF
 Nov - Paul W6GMU
 Dec - Don N6XBP

• Programs for Club Meetings

Aug - “Operating DX” with a panel of experts discussing DX techniques
 Sep – Don KE6BXT & Joe AE6XE on “Mesh Networks”
 Oct – OCARC Radio Auction
 Nov – perhaps DMR and EchoLink overview?

• OCARC Equipment Storage

- AF6CF, W6ETC, and W6HHC planned to move two beam antennas (10M 3-ele and 15M 5-ele) and an American flag, and coffee urn to the clubs new storage unit after the Board meeting.
- Ken W6HHC organized and updated inventory list audit while the team was visiting the OCARC storage unit after the Board meeting.

• OCARC Membership Roster (PDF)

Don N6XBP still needs to prepare an updated 2016 PDF roster for e-mailing to membership and upload-

ing to club web site.

• HRO Ham Jam

- AF6CF, K6PGH, W6ETC, and N2VAJ reported that Ham Jam was fun...but not enough “new hams”. Perhaps better advertising?
- OCARC needs to have a table-top-banner to identify our club at similar events....Doug K6PGH to investigate.
- AF6CF proposed that the club should have “OCARC pens” to hand out at similar events. Doug K6PGH to investigate.

• OCARC Membership Renewal Reminder

Don N6XBP still needs to prepare a membership-renewal e-mail reminder to be sent out to non-renewed members

• PayPal Button

Ken W6HHC gave a PayPal “progress report” that he ran into some tech difficulties trying to code the PayPal Button form. Bob AF6C quickly identified that the issue was caused by trying to launch PayPal button form from inside of a membership info-gathering form. Work is continuing.

• VE Team

Tom W6ETC recommended that new members of OCARC VE Team plan to obtain some VE testing experience at other VE testing events.

• Club history material at Santa Ana library

Historian, Corey KE6YHX, said he did visit the SA library and was told the library inventory shows an OCARC Field Day photo and ???. Corey will make an appointment and visit the library again to inspect.

• New Assistant WebMaster

Ken W6HHC reported that training of Don N6XBP is expected to begin in August.

• Updated OCARC Tri-fold Brochure

Doug K6PGH Says he had a “glitch” trying print up a batch of brochures on 8.5x14 paper. The brochure image on web appeared too high? Doug will contact AF6C on issue.

• Using CARA Repeater for OCARC

Tony N2VAJ continued discussions exploring using the CARA repeater for a new OCARC net, perhaps once a month. No decision was made.

NEW BIZ:

Election Committee – AF6CF, W6FPS, W6HHC, and W6ETC volunteered to serve on the “Election Committee” for identifying 2017 officers.

Respectfully submitted by *Ken Konechy W6HHC*
 -
 OCARC Secretary

OCARC BOARD MEETING MINUTES

2016-07-09

The OCARC Board meeting was held at the Marie Callender's Restaurant at 1821 N. Grand Ave in Santa Ana on July 9th, 2016. There were a total of 9 members and visitors attending. There was a quorum with all Directors present except Don N6BXP, Tim N6TMT, Doug K6PGH, Clem WØMEC, and Greg W6ATB.

Director Reports:

- **Treasurer-** Greg W6ATB was not present, but had provided the board with a report that the club had taken in a total of \$2,516 so far this year and that the net profit was currently \$705.

OLD BIZ:

- **Newsletter Editors**

Aug - Greg W6ATB
 Sept - (hopefully Brian KM6CXL??)
 Oct - Nicholas AF6CF
 Nov - Paul W6GMU
 Dec - Don N6XBP

- **Program Speakers for Club Meetings**

Aug - DXing Panel of Experts
 Sept - Perhaps MESHing?
 Oct - club radio auction

- **Field Day Equipment**

- Ken W6HHC showed in an updated inventory list that all borrowed FD equipment had been returned to the OCARC storage unit.
- Bob AF6C was authorized to purchase a new tarp for the club generator that is stored at his hose.

- **OCARC Membership Roster (PDF)**

Don N6XBP still needs to prepare an updated 2016 PDF roster for e-mailing to membership and uploading to club web site.

- **OCARC Membership Renewal Reminder**

Don N6XBP still needs to prepare a membership-renewal e-mail reminder to be sent out to non-renewed members

- **PayPal Button**

The PayPal button project for the club web site has resumed. Tom W6ETC, Nicholas AF6CF, and Ken W6HHC will have a PayPal work session on July 13.

- **VE Team**

The VE Team planning is on hold until August Board meeting.

- **Club History Material at Santa Ana Library**

The club's new Historian, Corey KE6YHX, will determine the status of the historical information at the Santa Ana Library.

- **New Ass't WebMaster**

Ken W6HHC reported that he now had time to train the club's newest assistant webmaster, Don N6XBP. Training is expected to begin in August.

- **Updated OCARC Tri-fold Brochure**

Bob AF6C reported that he had updated the club's tri-fold brochure and will post it on the club web site. The plan is to have the Publicity chairman print up a batch of 500 color copies on 8.5x14 paper (ideally either off-white or light "orange-ish").

- **Moving more Equipment into Storage**

The Board agreed to help Ken W6HHC move more club antennas (10M, 15M, and 20M) and a coffee urn into the storage unit immediately after the August board meeting.

NEW BIZ:

Using CARA Repeater for OCARC Board talks?

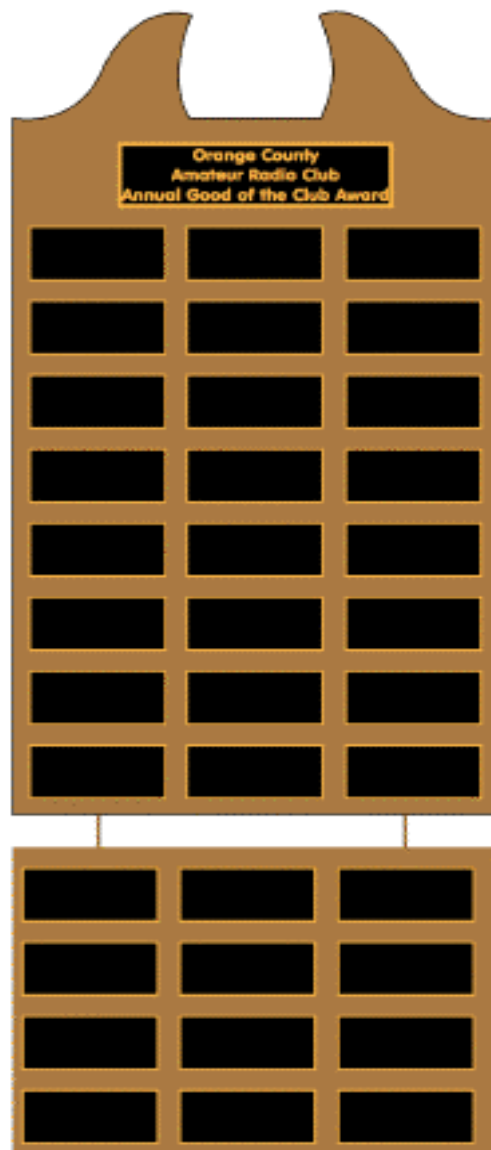
Tony N2VAJ initiated discussions about OCARC using the Catalina repeater to have OCARC Board discussions over the air whenever needed. No decision was made.

Respectfully submitted by *Ken Konechy W6HHC*
 - OCARC Secretary

Calling All Members...

The Good-of-the-Club Award plaque for the years prior to 1979 is missing from the archives. It was loaned from the OCARC archives many years ago, and was never returned. It is described as "pine-colored, with more names on a separate piece hung on the bottom." Please notify the Club Historian, Corey Miller KE6YHX at corwinv@earthlink.net, or by phone at (714) 639-5475 if you have any information as to its whereabouts, or when it was last seen. It may be returned anonymously to the Santa Ana Red Cross main desk at the North entrance to the Chitty Building. Ask the receptionist to give it to the facilities coordinator, Justin Houghton. We would appreciate the plaque's return, no matter its present condition.

Thank you, Corey Miller KE6YHX OCARC Historian





An ARRL Special Service Club

OCARC 2016 Club & Special Event Calendar

Aug. 19, 2016 **OCARC General Meeting @ the ARC Santa Ana** <http://www.w6ze.org/MeetingInfo.html>

Aug. 20, 2016 SHOW-and-GO OCARC Activity

Aug. 20-21, 2016 North American QSO Party (SSB) <http://ncjweb.com/NAQP-Rules.pdf>

Sept. 03, 2016 OCARC Board of Directors Meeting <http://www.w6ze.org/MeetingInfo.html>

Sept. 16, 2016 **OCARC General Meeting @ the Red Cross** <http://www.w6ze.org/MeetingInfo.html>

Sept. 16-18, 2016 The 35th Annual ARRL & TAPR Digital Comm. Conference <https://www.tapr.org/dcc.html>

Sept. 24-25, 2016 CQWWDX-RTTY CQ WW RTTY DX Contest <http://www.cqwwrtty.com/>

Oct. 01, 2016 OCARC Board of Directors Meeting <http://www.w6ze.org/MeetingInfo.html>

Oct. 01-02, 2016 California QSO Party <http://www.cqp.org/> rules: <http://www.cqp.org/Rules.html>

Oct. 21, 2016 **OCARC Auction** (Link Pending)

Oct. 14-16, 2016 ARRL Pacific Division Convention (PACIFICON) <http://www.pacificon.org/>

Oct. 22-23, 2016 JOTA (Jamboree-on-the-Air) <http://www.scouting.org/JOTA.aspx>

Oct. 26-27, 2016 CQ Worldwide DX Contest, SSB <http://www.cqww.com/>

Nov. 05, 2016 OCARC Board of Directors Meeting <http://www.w6ze.org/MeetingInfo.html>

Nov. 05-07, 2016 ARRL CW November Sweepstakes <http://www.arrl.org/sweepstakes>

Nov. 19-21, 2016 ARRL November Sweepstakes Contest, SSB <http://www.arrl.org/sweepstakes>

Nov. 20, 2016 **OCARC General Meeting @ the ARC Santa Ana** <http://www.w6ze.org/MeetingInfo.html>

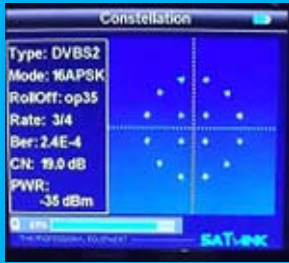
Nov. 26-27, 2016 CQ Worldwide DX Contest, CQ <http://www.cqww.com/>

Dec. 02-04, 2016 ARRL 160-Meter Contest <http://www.arrl.org/160-meter>

Dec. 10-11, 2016 ARRL 10-Meter Contest <http://www.arrl.org/10-meter>

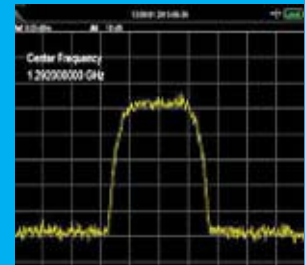
Dec. 09, 2016 **OCARC Holiday Party**

(booking confirmed at Mimi's Cafe on 17th Street in Tustin)



Digital Amateur TeleVision Exciter/Transmitter

Now available from



DATV-Express



- A more affordable DATV exciter can now be ordered
- Fully assembled and tested PCBA
- DVB-S protocol for DATV (using QPSK modulation)
- Can operate all ham bands from 70 MHz-to-2450 MHz
- RF output level up to 10 dBm (min) all bands (DVB-S)
- Software Defined Radio (SDR) architecture allows many variations of IQ modulations
- “Software-Defined” allows new features to be added over the next few years, without changing the hardware board
- Symbol Rates from 100K to 8000K Symb/sec allows RB-DATV
- Requires PC running Windows or Ubuntu Linux (see User Guide)
- Price is US\$300 + shipping – order using PayPal



For more details and ordering
www.DATV-Express.com

Register on the web site
 to be able to see
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