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!
2016 Board of Directors:

President: Nicholas Haban, AF6CF
(714) 693-9778
AF6CF@w6ze.org

Vice President: Tom Cowart, W6ETC
(714) 454-0571
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Treasurer: Greg Bohning, W6ATB
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w6atb@w6ze.org

Membership: Don Mech, N6XBP
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n6xbp@w6ze.org

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(714) 744-8909
n6tmt@w6ze.org

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(714) 501-5527
k6pgh@w6ze.org

Technical: Clem Brzoznowski, WØMEC
(714) 927-4065
WØMEC@w6ze.org

2016 Club Appointments:

W6ZE Club License Trustee:
Bob Eckweiler, AF6C
(714) 639-5074
af6c@w6ze.org

Club Historian(s) (Updated)
Bob Evans, WB6IXN (Retiring)
(714) 543-9111
WB6IXN@w6ze.org
Corey Miller KE6YHX (Incoming)
(714) 639-5475
KE6YHX@w6ze.org

RF Editor – August - Rotating:
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af6c@w6ze.org

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Arnie Shatz, N6HC
(714) 573-2965
n6hc@aol.com
John Schroeder, N6QQ
(562) 404-1112
n6qq@msn.com

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.
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.

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=PLTDI7lh1bPwnxVSkIHfzZmCHcC2ZG2

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.
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
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 regarding 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 setups, 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 19th 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:

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!

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

<table>
<thead>
<tr>
<th>OCARC Membership*</th>
<th>Board of Directors Meeting B</th>
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<tr>
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<td>8/19</td>
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<td>9/16</td>
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<td>12</td>
<td>Christmas Party 12/09</td>
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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

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<tr>
<th>Category</th>
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<td><strong>INFLOWS</strong></td>
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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…”

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
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-

**NEW BIZ:**
- **Election Committee** – AF6CF, W6FPS, W6HHC, and N2VAJ volunteered to serve on the “Election Committee” for identifying 2017 officers.

Respectfully submitted by Ken Konechy W6HHC
- OCARC Secretary
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.

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

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. 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. 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]

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]

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 the PURCHASE page