



RF



ORANGE COUNTY AMATEUR RADIO CLUB, INC.

VOL. L NO. 10

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

October 2009

The Prez Sez..... by Nicholas AF6CF



QST,QST,QST!!!

It's that time of year again...

Time for the Club Auction! Clean out the shack and garage and bring your treasures on down to the meeting, make money for yourself and help the Club too. Our Club Auction is an open event, so everybody is welcome, members and non-members alike.

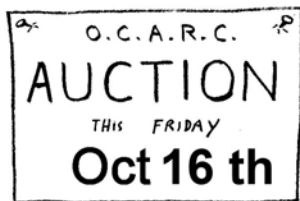
November is Elections month for the Board. If you consider running for a position, even if you have never done so before, see Rich KE6WWK the Elections Committee Chairman. We also have set a date for the famous OCARC Halloween Potluck event, hosted by the PEQ's. Do not miss this fun event.

Finally, we have the wonderful Christmas Dinner Party on Friday evening Dec. 11th where you will be able to enjoy great food and win wonderful prizes.

[Editor's Note: "el Presidente's" newest grandchild in PIX at left]

See you all at the auction and

73's DE AF6CF



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The next meeting will be:
**Friday, October 16th
@ 7:00 PM**
We will be meeting in Room 208
In the east Red Cross Building

**ORANGE COUNTY
AMATEUR RADIO CLUB**
www.W6ZE.org



2009 Board of Directors:

President:

Nicholas Haban, AF6CF
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AF6CF@w6ze.org

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W6GMU@w6ze.org

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KE6WWK@w6ze.net

George Jacob, N6VNI
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N6VNI@w6ze.org

2009 Club Appointments:

W6ZE Club License Trustee:

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(714) 639-5074

AF6C@w6ze.org

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W6HHC@w6ze.org

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(714) 639-5074

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ARRL Awards Appointee:

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(714) 573-2965

N6HC@aol.com

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(714) 557-7217

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OCCARO Delegate:

Steve Brody, N1AB
(714) 974-0338

stevebrody@sbcglobal.net

Monthly Events:

General Meeting:

Third Friday of the month
at 7:00 PM

American Red Cross
601 N. Golden Circle Dr.
(Near Tustin Ave. & 4th St.)
Santa Ana, CA

Club Breakfast:

First Saturday of the month
at 8:00 AM

Jagerhaus Restaurant
2525 E. Ball Road
(Ball exit off 57-Freeway)
Anaheim, CA

**Club Nets (Listen for
W6ZE):**

7.086 ± MHz CW **OCWN**
Sun- 9:00 AM – 10 AM
Rick KF6UEB, Net Control

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

VISIT OUR WEB SITE

<http://www.w6ze.org>

for up-to-the-minute club information, the latest membership rosters, special activities, back issues of RF, links to ham-related sites, vendors and manufacturers, pictures of club events and much more.

Club Dues:

Regular Members ...\$20
Family Members* ...\$10
Teenage Members ..\$10
Club Badge**\$3

Dues run from January thru Dec and are prorated for new members.

*Additional members in the family of a regular member pay the family rate up to \$30 per family.

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



AUCTION !!!

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AUCTION !!!

It's that time of year again. The OCARC annual ham radio auction is Friday, October 16th at 7:00pm.

Bring your gear to sell. Come bid on other equipment.

This is always a fun event.
Bring your ham radio friends
too!!!

Please visit the OCARC
website for a map and auction
rules.



The Orange County
Amateur Radio Club "OCARC"
P.O. Box 3454
Tustin, CA 92781

Web: www.W6ZE.org

Email: OCARC_info@w6ze.org

ANNUAL RADIO AUCTION

Friday, OCT 16, 2009

Auction rules

The OCARC Annual Auction will take place on Friday evening, October 16th, 2009, at 7:00 PM at the American Red Cross facility located at 601 N. Golden Circle Drive, Santa Ana. The room will open at 6:00 PM to allow registration, set-up and viewing. All buyers and sellers are welcome. The following rules for the auction will be in effect:

- 1) Only Ham Radio or electronic equipment/items will be auctioned (that is: no fishing equipment, etc)
- 2) Buyers and Sellers must register at the door with the OCARC treasurer.
There is NO registration fee.
- 3) Only 3 items from a Sellers lot will be auctioned during each turn. After auction 3 items, the auctioneer will move on to the next lot. After the first 3 items from every lot have been offered for bidding, the auctioneer will start the second round of auctioning with the next 3 items in Lot #1.
- 4) Sellers should number each item in their lot. A tag should indicate the minimum bid they expect.
- 5) Auction bidding will take place as follows:
 - (a) \$0.00-to-\$5.00 bidding will take place in \$0.50 increments.
 - (b) Over-\$5.00-to-\$50.00 bidding will take place in \$1.00 increments.
 - (c) Over-\$50.00-to-\$100.00 bidding will take place in \$5.00 increments.
 - (d) Over-\$100.00 bidding will be in \$10.00 increments.
- 6) Payments for purchased items are due at the end of the auction and shall be by cash or check with the appropriate ID. No two-party checks or credit cards are allowed. Disbursements to the Sellers will be by OCARC check, only. Sellers will be charged 10% of the selling price for items sold by OCARC.

A special table will be set up for donated items. The proceeds of donated items will go to the OCARC

The American Red Cross Building
601 North Golden Circle Drive
Santa Ana, CA.
Second Floor, Room 208*
(Enter from the West Side.)

Note:

If the door is locked and no one is there to let you in. Call W6ZE on the talk-in frequency for admission.

TALK-IN 146.55 MHz Simplex

* Room is subject to change.

OCARC 2009 Radio AUCTION Partial Equipment List

OCARC has the following items being brought to the AUCTION:

- BIRD Model 43 wattmeter (no slugs....like new)
- KENWOOD Model TM-7730 2M FM Mobile (with mike and internal PLL board)
- AMP SUPPLY Model LA-1000 RF Power Amplifier (160M thru 15M)
- TEN-TEC Model Scout 555 HF 50W Rig (With Manual) With coils for 80 – 10 M (13.6 VDC req'd)
- COMET 2.4 GHz 7.4 dBi gain Antenna (with N connector, new in package)
- TEKTRONIX Model 475 Portable Oscilloscope (200 MHz bandwidth, dual-channel, probes)
- HEATHKIT Model HO-1424 Active Antenna
- KENWOOD Model PG-3B NOISE FILTER Vehicle noise filter – 20A ICAS, 16A cont.
- ??? Low-Pass Filter
- ARRL 2008 complete set of QST Magazines
- KENWOOD TS-450S Transceiver w/Built-In AT (Demonstrated on the 10-meter net.)
- ASTRON RS-20M 13.8V Power Supply for above (Metered Analog Power Supply)
- REALISTIC DX-200 5-Band Communications Receiver
- REALISTIC PRO-2021 Programmable Scanner
- BEARCAT Model 210XL Scanner
- ASANTE FriendlyNet 8-port 10/100 Ethernet Switch
- Hard-case tote box containing cell-phone modem, antenna, and cable.
- Miscellaneous adapters and connectors

OCARC HALLOWEEN POTLUCK

Saturday, October 31st

QTH: Dan (N6PEQ) & Kristin (K6PEQ) home

WHEN: October 31st – starts at 1 pm

WHAT TO BRING: You, a friend or significant other and a food item. If you are unable to attend the breakfast or club meeting in October to sign up for food, please email Kristin at k6peq@w6ze.org. We are looking for appetizers, side dishes and desserts.

We will be providing hamburgers & hot dogs. We are encouraging you all to come in costume. Who says only kids can play dress up!?!? We hope you will be able to come and have fun!

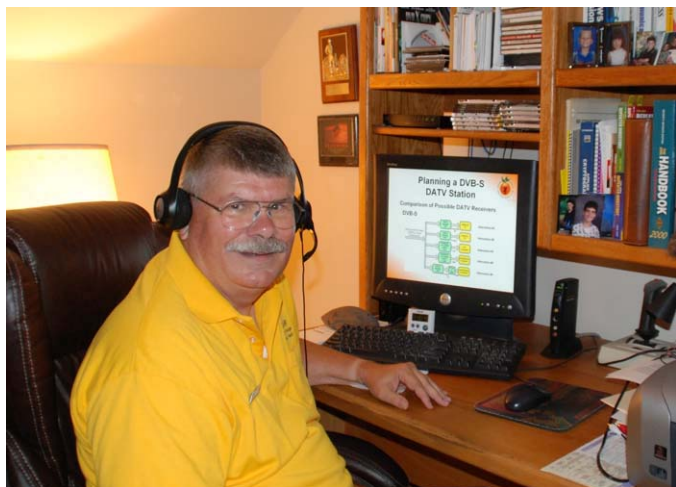
PLEASE RSVP & Sign up for food by Wednesday, October 21st!

**Two OCARC Members
Make Presentation for
2009 ARRL-TAPR Dig Comm Conv'tn
on
Digital-ATV (DATV)
by Ken W6HHC**


Two OCARC members, Robbie Robinson KB6CJZ and Ken Konechy W6HHC, made a presentation to the national convention on digital communications. The ARRL TAPR DCC was held in Chicago on Sept 26-27, 2009. Their PowerPoint topic:

"Planning a DATV Station on DVB-S"

was presented remotely from the comfort of their homes by using SKYPE and Adobe ConnectNow.



Ken W6HHC Makes TAPR Presentation from Home



**2009 ARRL TAPR
Digital Comm Conference**

Planning a DATV Station on DVB-S

by

- Ken Konechy W6HHC
W6HHC@ARRL.net
- Robbie Robinson KB6CJZ
KB6CJZ@ARRL.net

A copy of the Digital-ATV PowerPoint presentation and the conference proceedings paper can be found on the OCARC WEB site at:

www.W6ZE.org/DATV

2010 Field Day

Planning

Begins!!

The OCARC Board is looking for input from our members for the upcoming 2010 Field Day. We would like to hear nominations for a Field Day Chairman and your suggestions on how to make next year's FD event even better. Please email the Board of Directors at

ocarc_board@W6ZE.org

HOW TO SEND AN ARTICLE TO THE EDITOR

Do you have an article or a picture you took or that you found that you think may be of interest to the OCARC members??

Just e-mail the article to

EDITOR@W6ZE.org

Also, JPEG files are the best format for sending pictures. Use WORD files or .TXT files to send the article-body to the editor.

TechTalk #78
Digital-ATV – Testing Report – Part 2
 by **Robbie KB6CJZ**
 &
Ken W6HHC

On Oct 3, a County-wide RACES/MOU emergency communications drill was organized by the Orange County RACES (Radio Amateur Civil Emergency Service). Robbie Robinson KB6CJZ, with help from Sam James W6RDS, Cam Burke WV6V and Ken Konechy W6HHC, (all members of the COAR RACES group in the City of Orange), conducted DATV tests by sending digital ATV pictures to the Orange PD RACES Radio Room and EOC (Emergency Operations Center). This may have been the first use of DATV during a RACES operation in the Western United States?



Figure 1 – DATV DVB-S 1 mW Transmitter for 1.2 GHz

We did not have enough time to complete testing of the RF Power Amps, so the RACES testing of DATV was “jerry-rigged” using a portable 1 mWatt DVB-S transmitter that is shown in **Fig 1** and **Fig 2**, This D-ATV transmitter was more fully described last month in TechTalk 77 article (see www.W6ZE.org/DATV). The portable DATV transmitting station used a 20-element 1.2 GHz yagi antenna.

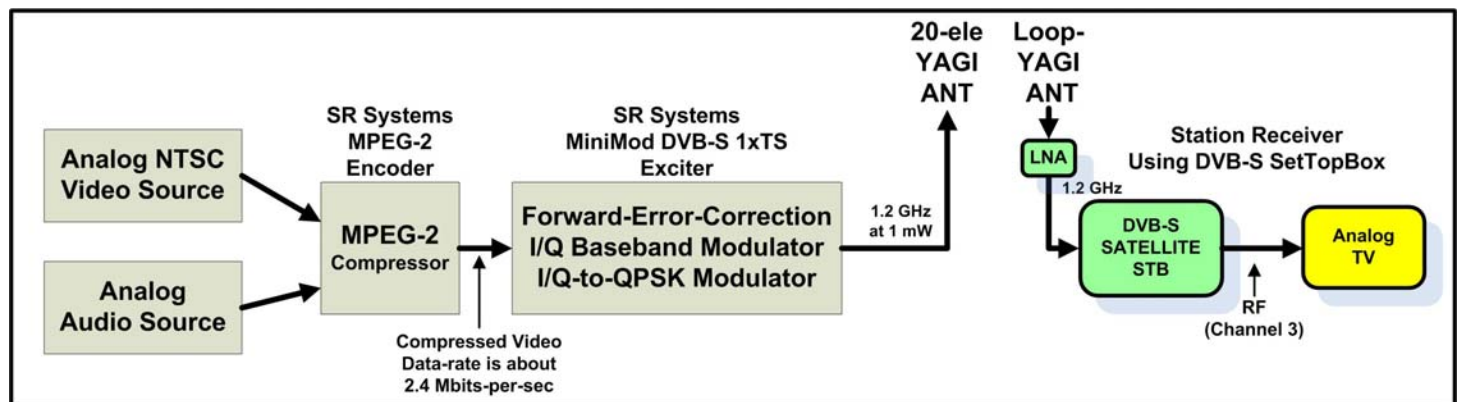


Figure 3 – Robbie KB6CJZ Adjusts RCVR Loop-Yagi

The receiving antenna was located on top of the Orange Police Department roof, near other RACES antennas normally used by COAR (City of Orange Amateur Radio) team. **Fig 3** shows Robbie-KB6CJZ adjusting the long 1.2 GHz loop-yagi antenna. A receiving Low-Noise-Amplifier (LNA) was used and can be seen in the lower-right corner of **Fig 3**. The coax then took the signals down three stories to the COAR Radio Room.

DATV cont'd – see Pg 09

Figure 2 – Block Diagram Showing DATV Station being Tested



DATV – from Pg 08



Figure 4 – Inside COAR RACES Radio Room

Fig 4 shows some of the radios and displays inside the OPD COAR RACES Radio Room. The lower display is an analog TV that shows the received DATV video directly. The larger display is also an analog TV that is connected to the network of video displays in the nearby City of Orange EOC room.



Figure 5 – COAR member Sam W6RDS watches DATV video being sent to the Radio Room

The video displayed inside the RACES Radio Room in **Fig 5** is being transmitted a distance of about 80-to-85 meters, from the far end of OPD parking lot. Not bad for 1 mWatt on 1.2 GHz!!



Fig 6 – Cam-WV6V watches the DATV networked-video

Test Results

In **Fig 6**, Cam-WV6V checks the DATV video quality that is now on the network that can be switched into the EOC room displays. The received video picture quality was great.

- Picture Quality - was perfect P5
- Signal Strength - was 3/4 scale on STB
- Signal Quality - was full scale on STB

In the preparation work for this RACES/MOU drill, Robbie-KB6CJZ had observed that the picture quality was either perfect or “blue screen” (aka “no picture”) as he drove around town. This is very characteristic of Digital-ATV that uses Forward-Error-Correction (FEC) to correct for noise or multipath distortion.

DATV Testing Plans

Ken-W6HHC and Robbie-KB6CJZ are now working on adding RF power amplifiers to the tiny 1 mWatt RF output of the DATV transmitter. We have a 1 Watt RF amplifier stage (that will be set to about 100 mWatt output) to feed a 30 Watt RF Power Amplifier (that will be set to around 10 Watt output). Once the power amplifiers are in place, further testing will be tried across town, including from portable locations in the hills of the City of Orange.

OCARC

General Meeting Minutes

2009-09-03

The OCARC Sept General Meeting was held at the Red Cross complex in Santa Ana at 7:00 pm on Friday evening September 18, 2009. There were a total of 32 members and guests present. There was a quorum of all directors present. Nicolas AF6CF opened the meeting with the Pledge of Allegiance and then turned the meeting over to Kristin to introduce our guest speaker.

Kristin introduced our guest speaker Bob Grimmick – N6OX and his presentation on

“Fernando de Noronha ZYØF DXpedition”

Bob along with Anderson PY2TNT, Fabio PY2AAZ/AC2AC, and Alex PY2WAS operated from the Fernando de Norona Island (SA-003). Bob shared some great stories and wonderful pictures of the island with the group. This DXpedition was sponsored by Spiderbeam Antennas.



As Bob N6OX said “what happened on the island, stays on the island”. Bob did a great job and as always his presentation was greatly enjoyed by the group!

After Bob’s presentation, the break featured cake and cookies as a treat for OCARC’s 31st Anniversary

As you can see in the photos, the goodies were enjoyed by the group.

Roll call was taken and we had a quorum.



Nicholas AF6CF shared with the group that he had been to Edwards Air Force Base and had the opportunity to tour the area and see the space shuttle on the 747 getting ready to head back to Florida. A neat experience.

Paul W6GMU gave the Treasurer’s report stating the club is solvent. The Annual Fall Potluck will be held on Saturday October 31st at 1:00 pm at the home of Kristin and Dan Dankert (the PEQ’s). Please RSVP to Kristin – It is Halloween so plan on a costume.

Ken W6HHC is requesting items for the auction. Everyone check out your stuff and see what can be auctioned off.

George N6VNI will contact Tom Woodard to discuss a donation to the Red Cross for their hospitality to OCARC.

Kris KC6TOD shared information regarding a testing session sponsored by the City of Whittier’s Disaster Preparedness Program. Friday, October 23, 2009 5pm to 9pm, Saturday, October 24, 2009 9:00am to 4 pm, and Sunday, October 25, 2009 9:00 am until 3:00 pm. Testing will be Sunday afternoon. The cost is \$20.00 which includes the materials and F.C.C. exam fees. Please contact the Whittier Disaster Preparedness Program, 562/464-3390 before October 19, 2009

Meeting adjourned at 9:00 PM. Raffle followed.

Respectfully Submitted by:

Kristine Jacob KC6TOD - OCARC Secretary

OCARC**Board Meeting Minutes****2009-10-03**

The OCARC Board meeting was held at the JagerHaus Restaurant, 2525 East Ball Road, Anaheim, at 8:15AM Saturday, October 3, 2009. There were a total of 6 directors and 4 visitors – Larry Mallek K6YUI, Steve Brody N1AB and Mary & Charles Wallace attending. There was a quorum of directors present, with the following directors absent: Dan N6PEQ, Ken W6HHC, Rich KE6WWK and Hank W6HTW.

DIRECTOR REPORTS:

- Treasurer Paul W6GMU reported \$4424.95 and we are solvent.
- Kristin K6PEQ confirmed speakers were covered through the end of the year; she has arranged for speakers for the first quarter of 2010 (Jan. Arnie N6HC Midway & Feb. Bob N6OX). The annual potluck is Saturday, October 31st Halloween at 1 PM. She and Dan are asking everyone to RSVP and let them know their potluck contribution (to avoid duplications). Remember it is Halloween so think of a costume.
- George N6VNI has left a message with Tom Woodard from the Red Cross and will follow up with him.
- Kristine KC6TOD said the cake & cookies at the September meeting was a tremendous success.

OLD BUSINESS:

- **RF Newsletter "Rotating" Editors**
 - October – Ken W6HHC
 - November – Kristine KC6TOD
 - December – Bob AF6C

- **QSL Printing and Mailing** – Ken is handling the cards.
- **Guest Speakers** – Kristin has the remainder of the year covered and has speakers for the January and February 2010 to help the incoming VP.
- **Morse code Class** - On hold at this time
- **2010 Field Day Plans & Suggestions** – a call to the membership will be issued to seek a volunteer for Field Day Chairman as well as finding someone to volunteer for the Chuck Wagon.
- **October Auction** – the Auctioneers will be Chip Margelli K7YA and Dan Dankert N6PEQ. Ken W6HHC, Paul W6GMU and Kristine KC6TOD will work on the sales and recording.

NEW BUSINESS

- **Election Committee designation** - Rich KE6WWK has worked his magic and the slate for officers is nearly full.
- **Christmas Dinner date and preparations** – The Christmas dinner will be held on Friday night December 11th 7:00 PM at the Jagerhaus Restaurant on Ball Road in Anaheim. The budget for the Christmas dinner will be \$600.00 for regular raffle and \$100.00 for the Ladies raffle. Motion by Bob AF6C to accept the budgeted amounts and seconded by Paul W6GMU. The cost per person will soon be determined but will not be over \$25.00 per person.

Meeting adjourned 9:30 AM

Respectfully submitted:

Kristine Jacob KC6TOD, Secretary

PLEASE SUPPORT OUR SPONSORS

The following organizations support our club's events in numerous ways. Please consider them when making your Amateur

Radio and Electronics purchases:

A&A Engineering

<http://www.a-aengineering.com/>

ADI / Pryme Radio Products

<http://www.pryme.com/>

Burghardt Amateur Center

<http://www.burghardt-amateur.com/>

The DX Store

<http://www.dxstore.com/>

Elecraft

<http://www.elecraft.com/>

Ford Electronics

<http://www.fordelectronics.com/>

Ham 4 Less.com

<http://ham4less.com/>

Ham Radio Outlet, Anaheim, CA

<http://www.hamradio.com/>

Hamstore.com

<http://www.hamstore.com/>

Heil Sound

<http://www.heilsound.com/>

Hobby Radio stop

<http://www.bearcat1.com/scanners.htm>

ICOM Elmer.Com

<http://www.icomelmer.com/>

M2 Antenna Systems

<http://www.M2inc.com/>

MFJ Enterprises

<http://www.MFJenterprises.com/>

NGC Company / Comet

<http://www.cometantenna.com/>

Nifty Ham Accessories

<http://www.niftyaccessories.com/>

Photo QSLs.com

<http://www.photoQSLs.com/>

Universal Radio

<http://www.universal-radio.com/>

Vibroplex

<http://www.vibroplex.com/>



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Is Believing



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Ham Radio Accessories!



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The DX Store

Amateur Radio Equipment for DXers!



Whether you're operating from
halfway around the world or just
up the hall from your living room,
you want equipment you can
count on to perform... You want



sales@dxstore.com

www.dxstore.com



Ham4Less.com

Your online discount store



Your internet source for quality used gear

ELECRAFT

PRYME
Radio Products

