



# RF



## ORANGE COUNTY AMATEUR RADIO CLUB, INC.

VOL. LI NO. 1

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

January 2010

### The Prez Sez.....

by Kristin K6PEQ



### Happy New Year!

It is hard to believe that we are already starting a new year. I was so happy to see the great turn out we had at the Holiday party. It was a great night of food, prizes and fun! I would like to start having show and tell at the meetings again so bring something that you love about amateur radio to our next meeting to share!

Since you are already bringing something for show and tell, bring a friend or fellow ham to the meetings as well. I am really excited about this year and I know it is going to be great!

73,  
Kristin, K6PEQ

### New Net Proposed

A new OCARC two meter net was proposed at the January board meeting so those that do not have a base station can participate. The new net will be held on Thursdays at 8 PM (beginning Jan 21) on the N6ME Western Amateur Radio Association two-meter repeater at 145.400 MHz with a PL tone of 103.5 Hz. If you have an HT (or base) and would like to participate, give the new net a try!

### NEW BREAKFAST DATE

The Breakfast board meeting date has been moved to the Second Saturday of every month, so the next Board meeting will be held on February 13<sup>th</sup>, 2010.

### --- OCARC --- Jan. 15th Meeting

**The Speaker for the Jan. 15<sup>th</sup> will be Arnie Shatz - N6HC, who will talk on his trip to put Midway Island on the air from Oct 9 to Oct 19, 2009. If you worked Midway in October then come and see the operation from the other side at the January meeting!**

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The next general meeting will be:

**Friday, Jan. 15th  
@ 7:00 PM**

We will be meeting in Room 208  
In the east Red Cross Building

**ORANGE COUNTY  
AMATEUR RADIO CLUB**  
[www.W6ZE.org](http://www.W6ZE.org)



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**2009 Club Appointments:**

**W6ZE Club License Trustee:**

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**ARRL Awards Appointee:**

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Larry Beilin, K6VDP  
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**OCCARO Delegate:**

Steve Brody, N1AB  
(714) 974-0338  
[stevebrody@sbcglobal.net](mailto: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. & 4<sup>th</sup> St.)  
Santa Ana, CA

**Club Breakfast:**

Second Saturday of every  
month at 8:00 AM  
Jagerhaus Restaurant  
2525 E. Ball Road  
(Ball exit off 57-Freeway)  
Anaheim, CA

**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

145.400 MHz (-) PL 103.5 Hz  
Thur – 8:00 PM – 9 PM  
Nicholas AF6CF, Net Control

7.086 ± MHz CW **OCWN**  
Sun- 9:00 AM – 10 AM  
John WA6RND, 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  
much more.

**Club Dues:**

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

Dues run from Jan 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.



## Renew Your OCARC Membership

It's that time of the year again. Time to renew your OCARC membership for 2010, if you have not already done so.

Help continue to support your growing club. There are many entertaining monthly meetings, speakers and events planned for this year. But it can't happen without your support for OCARC.

Dues can be paid at the monthly club meetings, club breakfasts or via snail mail. Regular dues are only \$20. Additional family members are \$10 (Total). Membership for teenagers under the age of 20 is only \$10 as well. What a deal!



OCARC  
P.O. Box 3454  
Tustin, CA 92781

## December 11, 2009 OCARC Christmas Party

The OCARC Christmas Party was held at the Jagerhaus Restaurant, 2525 E. Ball Road, Anaheim, CA. We had fifty guests gathered together to enjoy the marvelous German family style meal.

Everyone enjoyed the great fellowship and food; it was obvious from the happy conversations and laughter. After the meal was finished, we had the changing of the Presidents Nicholas AF6CF handing the gavel off to Kristin K6PEQ. Kristin presented a plaque to Nicholas for his service to the club for 2009. The introduction and new name badges of the club officers for 2010:

Vice President – Paul W6GMU  
Treasurer – Ken W6HHC  
Secretary – Kristine KC6TOD  
Activities – Dan N6PEQ  
Membership – Loran AF6PS  
Publicity – Robbie KB6CJZ  
Technical – Bob AF6C  
Director-at-Large – Nicholas AF6CF  
Director-at-Large – Larry K6YUI

Kristin K6PEQ presented the Good of the Club Award for 2009. As she explained there was a tie in the nomination for this presentation and the decision was to present two Good of the Club awards. The recipients were Chip Margelli K7JA and Kristine Jacob KC6TOD for their significant contributions to OCARC.

Next was the Holiday Raffle... we had a terrific selection of raffle prizes and the grand prize a Yaesu 857 was won by Sandy Sherwood, the YL of Richard Sherwood N6RU. Richard was certainly very happy.

Happy Holidays to All!

As a personal comment to the evening – I would like to thank each of you for the honor given to me this evening by being awarded the Good of the Club Award for 2009 and sharing this award with a man whose accomplishments & dedication far exceed what words can describe – Chip Margelli K7JA.

Respectfully submitted.  
Kristine Jacob KC6TOD  
Secretary



**For her outstanding support and contributions to the OCARC, Kristine – KC6TOD received one of the two Good of the Club Award certificates that were awarded.**

# OCARC HOLIDAY PARTY PICTURES



The Raffle prizes are closely examined while the presidency transition is discussed in the background...

The YL's in attendance had a chance to win a beautiful basket created and donated by Beverly, KI6APH.



Everybody enjoyed the good food...



The outgoing President received a plaque from the Club for his services during 2009.



Chip Margelli, K7JA also received the Good of the Club Award certificate for his support and contributions to the OCARC.





The first basket winner was Deb N6DEB, and some YL's had a hard time choosing among the baskets, as they were all sooo nice...



A neutral party was selected to pick the winning raffle number for the Yaesu FT-857 grand prize; in this case Sandy (owner of the Jagerhaus restaurant) was the one chosen for the task. Dan N6PEQ was the number's custodian.

The number was only revealed at the end of the party...

And the Winner is...

**Sandy Sherwood, wife of Richard N6RU (shown on right) wins the Grand Prize**





**TechTalk #80****Comparing DATV Repeater Designs  
– Part 2**

by **Ken W6HHC**  
&  
**Robbie KB6CJZ**

Last month, the TechTalk series from the OCARC newsletter described three DATV repeaters, located in Australia and United States. This latest TechTalk article on DATV (Digital-ATV) technology looks at the design of five more D-ATV repeaters. First we will look at GB3BH, GB3KM, and GB3PV in England and then look at DB0DLH and DB0SRS in Germany. We find it fascinating to study the different approaches that hams can use for DATV with repeaters!

**GB3BH DATV Repeater Design**

The South West Herts UHF Group operates the GB3BH repeater that is located in Bushey Heath, North London. As their Test Card shown in **Fig 2** states, 10 Million people live in range of their signals.

- DVB-S Uplink on 1.2 GHz
- DVB-S relaying from GB3TZ repeater
- FM relaying from GB3HV repeater
- Analogue FM Downlink on 2.4 GHz and 10 GHz
- Internet-streaming to BATC

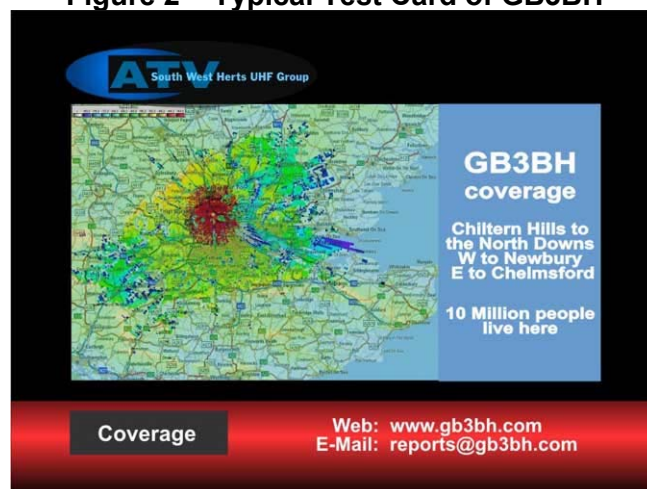
**Fig 1** below shows that there is a DVB-S uplink receiver on 430 MHz and a 2.3 GHz DVB-S receiver to relay the signals from the GB3TZ repeater. 70cm DATV is a new band for the GB3BH members and it interesting for

them to be able to work long distances on that band.

Dave Mann G8ADM explains their choice of DVB-S for the GB3BH uplinks "...We do not use DVB-T on the amateur bands in the UK because of the high bandwidth requirements, 8 MHz. With DVB-S the RF bandwidth is similar to the symbol rate and the Power Amp linearity is not so critical."

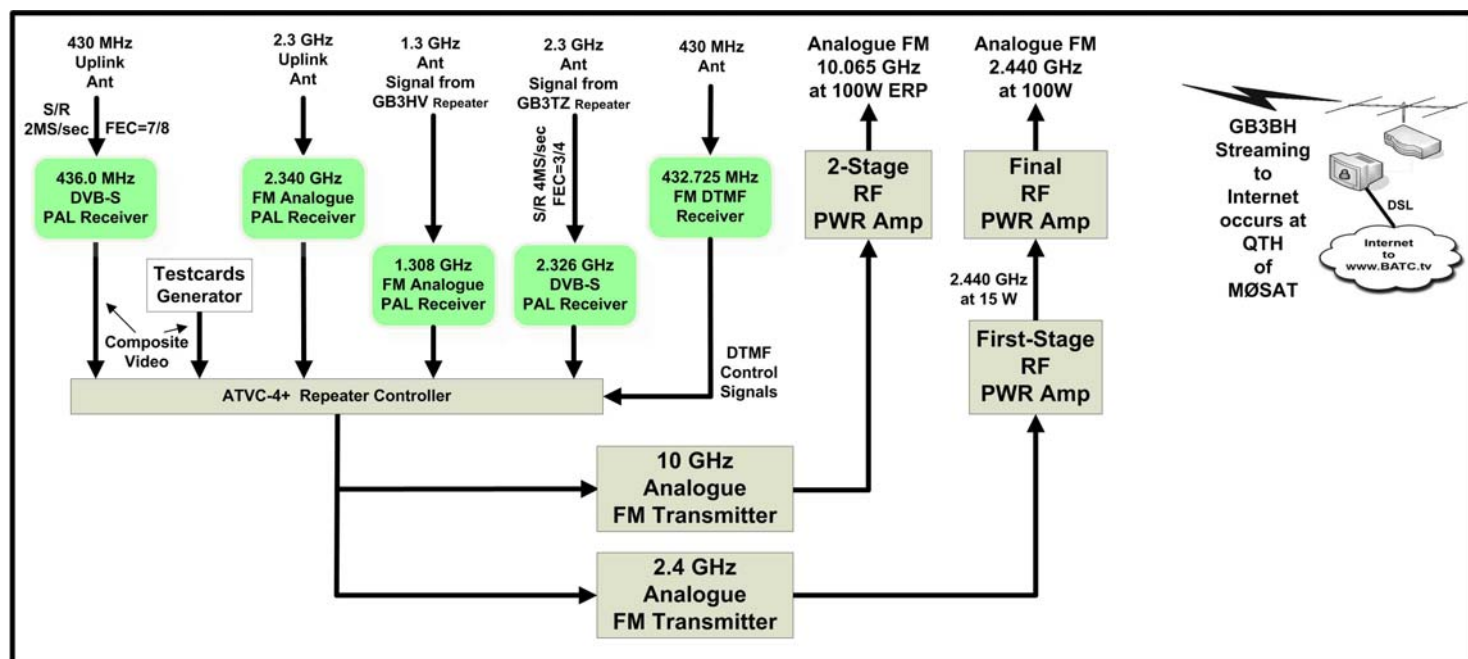
Dave G8ADM further pointed out that "...There are many repeaters in the UK that can be switched to digital or analogue using DTMF tones."

**Figure 2 – Typical Test Card of GB3BH**



Streaming to the internet, is performed by Dave M0SAT receiving the 10 GHz signal at his home station and uses Adobe Flash Encoder to direct the stream to the BATC.TV web site for viewing (See the **Internet-Streaming** side bar on the next page).

**Figure 1 – Block Diagram of the DATV Repeater Design for GB3BH**



### GB3KM DATV Repeater Design

The Kirk Merrington DATV Repeater is located about 225 miles North of London. The block diagram for the GB3KM DATV repeater design is shown in **Fig 3**.

- DVB-S Uplink on 1.280 GHz
- Analogue Uplinks on 1.2 GHz, 2.3 & 10 GHz
- Analogue FM Downlinks on 2.4 and 10 GHz
- Internet-streaming to BATC

Currently the two output transmitters on the GB3KM repeater are both FM analogue. The same video is run simultaneously to the 2.4 and 10 GHz transmitters. Rob Swinbank M0DTS explains that "...We run a full duplex repeater so we have decided that a digital output is not the best option for us. This is due to the combined input and output delay in full duplex digital operation being in the order of 2 seconds.... not good enough for us!. Even 1 second of delay is not easy when more than two stations are in the same QSO with each other."

Rob reported that he is planning to add DATV on the 436 MHz band. "70cm seems to be the best choice over here for us as the digital signal is more 'friendly' to other users on 70cm band and should yield better DX!"

Streaming to the internet, is performed by Rob M0DTS receiving the 10 GHz signal at his home station and injects it into the internet to be viewed at [www.BATC.TV](http://www.BATC.TV). He also uses the free-download Adobe Flash Media Live Encoder 3 software program on his PC and his home DSL line to achieve the video-streaming to the BATC site.

### Internet Streaming your Repeater

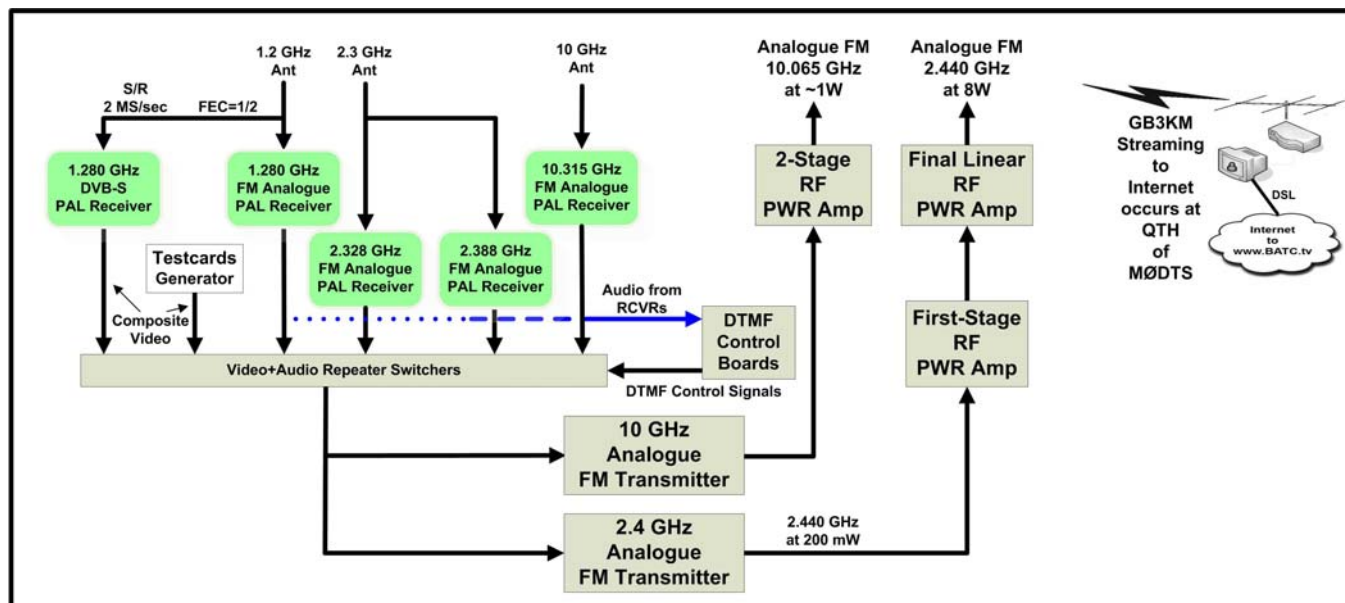
Ever wonder how to stream your video onto the internet? The DATV repeaters that we studied in this article all receive the ATV signal at a local ham station (where a DSL line exists) and then inject the received (composite) video into a PC using "video capture" hardware such as the typical USB unit seen below.



An application software program can then direct the video-and-audio stream from the PC to a remote WEB site. The app software favored by England is the Adobe Flash Media Live Encoder 3 (free download from Adobe). There are two app software programs favored by the German hams: open-source VideoLan Client (called VLC) and open-source NullSoft Video (called NSV). The viewing web-site runs a server type software to allow many people to watch at one time.

British hams stream to [www.BATC.TV](http://www.BATC.TV) for viewing  
German hams stream to [www.D-ATV.net](http://www.D-ATV.net) for viewing

**Figure 3 – Block Diagram Showing GB3KM DATV Repeater Design**



### GB3PV DATV Repeater Design

The GB3PV DATV repeater is operated by Cambridge Repeater Group and is located in Madingley, Cambridgeshire - about 50 miles North of London. The block diagram for the GB3PV DATV repeater design is shown in **Fig 4**.

- Analogue FM Uplink on 1.2 GHz
- A planned DVB-S uplink for 1.2 GHz
- DVB-S Downlink on 1.3 GHz
- Analogue FM Downlink on 1.3 GHz
- Internet-streaming to BATC

As Gavin Nesbitt M1BXF explains "...The repeater group uses single RX and TX frequency on GB3PV mainly due to the restrictions from the CAA (Civil Aviation Authority). Using DTMF it is possible to switch the TX between analogue and digital. The beacon also alternates between analogue & digital."

**Figure 5 – Test Card Stream from GB3PV**



Ken W6HHC also had some interesting DATV RF Bandwidth conversations with Brian Shaw G6HFS of the Cambridge Repeater Group. Brian had even remeasured the GB3PV RF BW for Ken and reported that it was about 4.2 MHz, very close to their

SymbolRate (abbreviated as S/R) of 4.165 M Symbols/Sec. That was also the value of BW that Prof. Uwe Kraus DJ8DW of the German AGAF group had told the repeater group to expect. In our TechTalk76 article on DVB-S BW, we had reported that QPSK bandwidth is stated as

$$\text{RF BW} = \sim 1.33 \times \text{SymbolRate}$$

This formula would result in an expected BW of 5.6 MHz, not 4.2 MHz? Why is there a difference?? You may have noticed the hams at GB3BH equate DVB-S BW with S/R, too. See **Further BW Discussions** in the side bar below.

### Further Discussions on DVB-S RF Bandwidth

Through searches on the internet, we have confirmed that there are three ways for defining RF BandWidth for QPSK modulation.

#### "minus 3 dB" bandwidth method

With this method, bandwidth is measured at the points that are down 3 dB. This is a typical method for measuring a filter bandwidth and represents the "half-power point" if you are looking at voltage on a spectrum-analyzer. (Symbol-Rate is shown as S/R.) Mathematically,  $\text{BW}_{-3\text{dB}} \approx \text{S/R}$  for this definition.

#### "occupied" bandwidth method

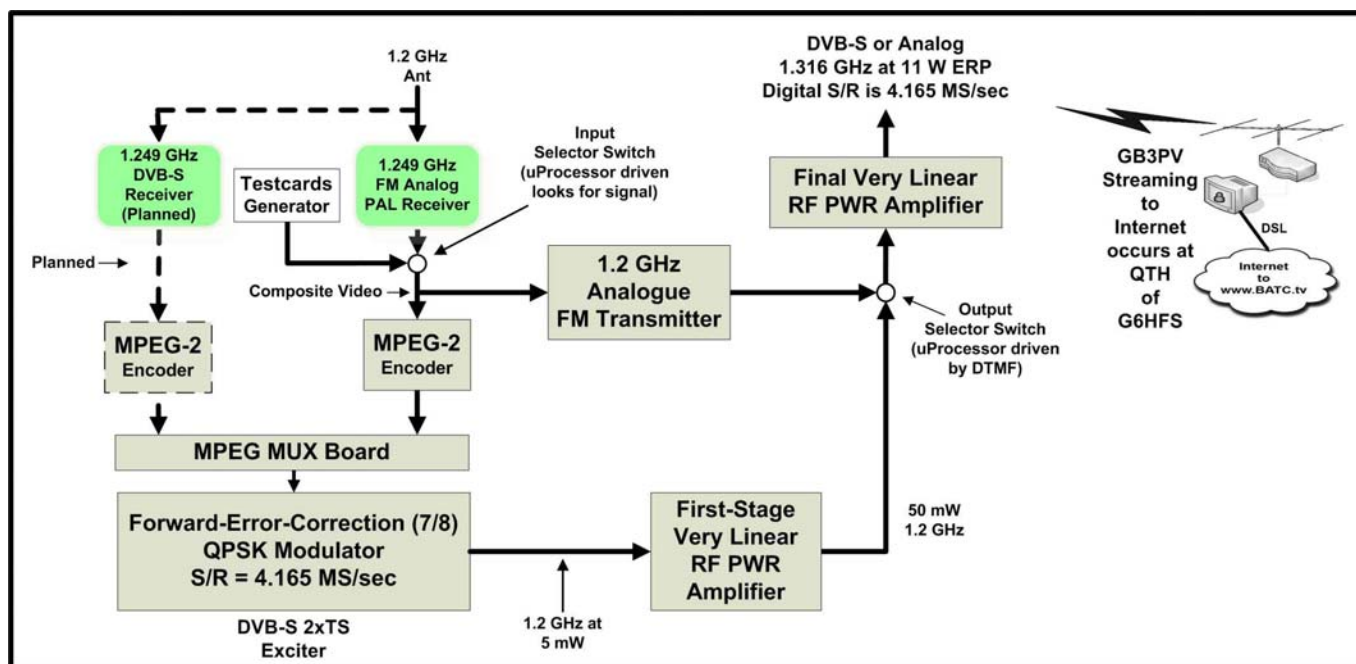
This occupied bandwidth is defined as  $\text{BW}_{\text{occupied}} = 1.19 \times \text{S/R}$ . The signal level is down by about 10dB at the edges of the occupied bandwidth.

#### "allocation" bandwidth method

This method provides a little guard-band between adjacent DATV signals. Allocation bandwidth uses formula  $\text{BW}_{\text{allocation}} = 1.33 \times \text{S/R}$ . This formula is equivalent to measuring at down about 17 dB.

An ONLINE BW CALCULATOR is listed in Related DATV Links. It seems to us that the "allocation" bandwidth is the most meaningful value of bandwidth for people trying to determine how many DATV stations to squeeze into a band plan. Significant power would overlap frequencies if we spaced several DATV stations on their 1/2-power-points...hence potential interference.

**Figure 4 – Block Diagram Showing GB3PV DATV Repeater Design**



### DB0DLH DATV Multimedia Repeater Design

The DB0DLH DATV repeater is operated by the Lufthansa Amateur Radio Club Hamburg and located at the Hamburg-airport (HAM) in Northern Germany (near the Denmark border).

- 2 DVB-S uplinks on 2.355 GHz and 2.360 GHz
- 4 Analogue uplinks on 2.3 GHz and 10 GHz
- DVB-S relaying from six repeaters
- Analog downlinks on 5.7 GHz and 10 GHz
- DVB-S re-distribution by DB0FS repeater
- Internet Streaming by two external sources

We were very impressed that the DB0DLH repeater also has two SKYPE inputs that are selectable. Notice in **Fig 6** that the DB0DLH repeater relays six DATV signals coming from repeaters outside of Hamburg. These include DB0DAN, DB0EUF, DB0FS, DB0HEX, and DM0HMB repeaters. As Hans Hass DC8UE explains "... It is a living repeater and we are always modifying and changing the possibilities.....". Their selection and switching & "quadro-picture-in-picture" (see **Fig 7**) capabilities for DB0DLH are very impressive.

Hans DC8UE also explained that "...The 10GHz-signal is running a short way to the DB0FS repeater and is there received and coded to generate a digital DVB-S-signal. After muxing with three local produced videos, this signal is then digitally re-distributed on 1288MHz (DVB-S FEC 3/4) from the DB0FS tower to the DB0DAN & DB0EUF repeaters. The reason for this complex way is the

circumstance that the location of DB0DLH is not high enough...therefore DB0DLH cannot directly pass to the DB0DAN or DB0EUF repeaters."

### Fig 7 - Typical DB0DLH "quadro" Live Picture on Internet-Stream

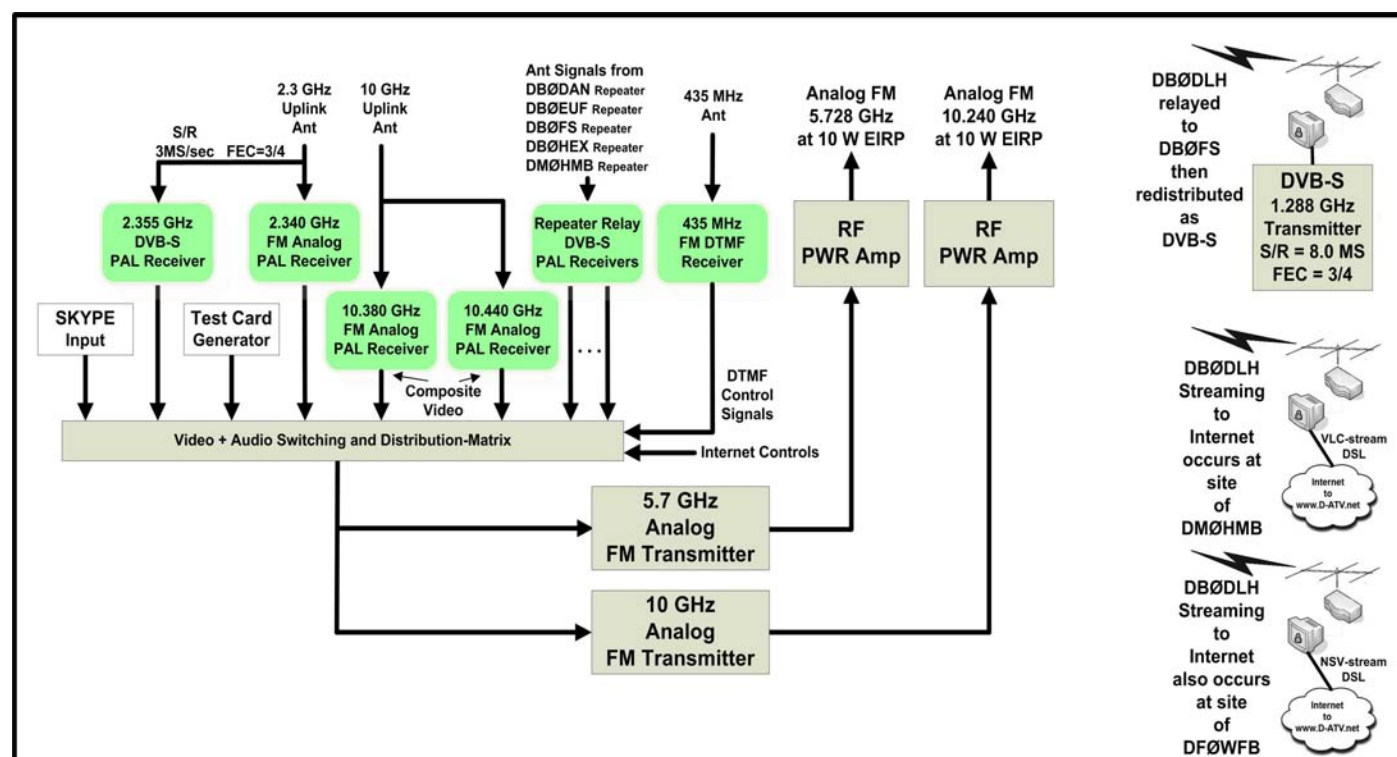
Upper-Left - Michael DF4HR from Hamburg

Lower-Left - Karl DM2BMB from Grabow via DB0EUF



Streaming to the internet occurs at two different locations. The DB0DLH signal is received over the air at the DM0HMB repeater site and then sent over the internet to [www.d-atv.net/db0dlh.aspx](http://www.d-atv.net/db0dlh.aspx) in the VLC-mode (requiring a VLC-player to be watched). The DB0DLH signal is received over the air at the DF0WFB repeater site and then sent over the internet to [www.d-atv.net/db0dlh.m3u](http://www.d-atv.net/db0dlh.m3u) in the NSV-mode (that requires a WinAmp-player to be watched).

Figure 6 – Block Diagram Showing DB0DLH DATV Repeater Design



## DB0SRS DATV Repeater Design

The DB0SRS repeater, located in Steinau an der Strasse, about 60 KM East of Frankfurt, is one of several DATV repeaters operated by Stefan Reimann DG8FAC (of SR-Systems).

- FM Analog Uplink on 1,2 GHz
- DVB-T relaying from DB0LWK & DB0CWS repeaters
- DVB-S2 relaying from DB0NQ repeater
- FM relaying from DB0HAU & DB0HAU repeaters
- DVB-T Downlink on 3,4 GHz
- Six Transport Streams (6xTS) with 12 Pictures (PIDs)
- Internet-streaming to the DB0CWS repeater

Stefan DG8FAC explained that "...In D-ATV we don't need special LINK QRGs, we perform monitoring and filter out the PIDs which we don't need, so we select from 16 Programs for the repeater. The Ethernet connections from the MiniMUX Boards are connected to a standard D-Link 5-port 10/100Mbps switch, on this switch we have also connect the PC and D-Star. The 6xTS DB0SRS then transmits 12 Programs, each with net-Data-Rate of 2.5 Mbps in the D1 Resolution

(720\*576 PAL) and 64kBit Audio Dual Channel mode."

Although there is no "internet streaming" to a central streaming location (such as D-ATV.net), DB0SRS does place a small Internet connection, on the other side is the DB0CWS repeater, this is the "Internet" entry point. Finally, note that the DB0NQ repeater is being received as DVB-S2, the modulation is 16APSK with FEC=8/9 and 13,5 MSymbolRate for total net-data-bit-rate of 47,56Mbit and 18 MHz Bandwidth.

### Acknowledgements

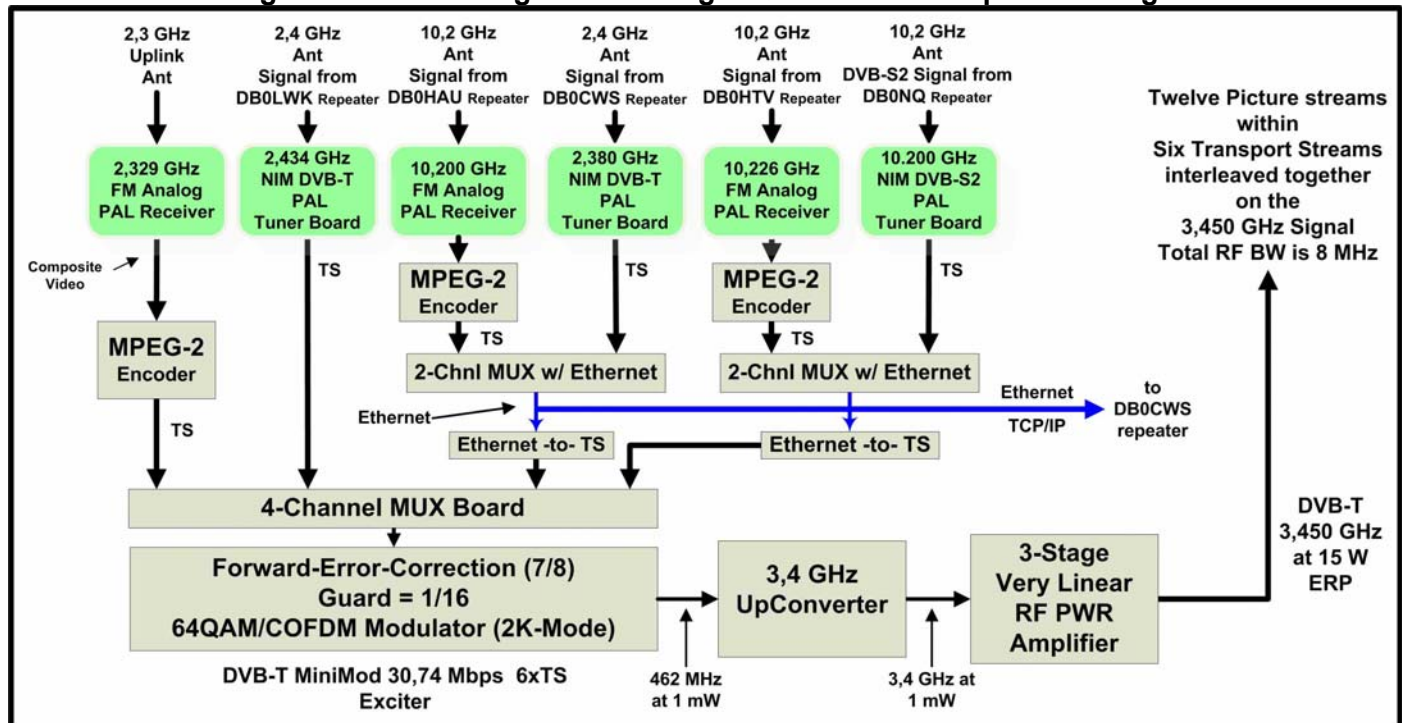
We would like to thank Darren G7LWT, Graham G3VZV and Klaus DL4KCK for suggesting DATV repeaters for this article and providing contact information.

A special thanks to:

Dave G8ADM for sharing info on GB3BH repeater  
Gavin M1BXF and Brian G6HFS for sharing info on the GB3PV repeater

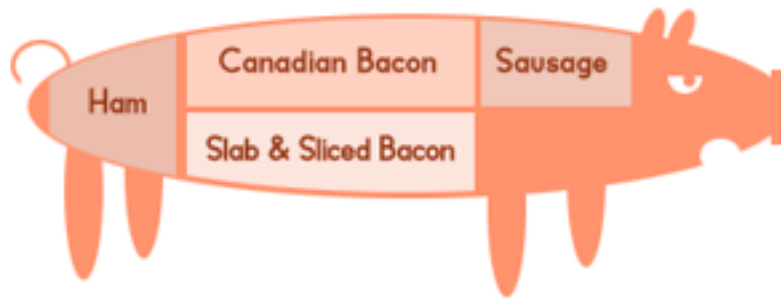
Rob M0DTS for sharing info on GB3KM repeater  
Hans DC8UE for sharing info on DB0DLH repeater  
Stefan DG8FAC for sharing info on DB0SRS repeater.

**Figure 8 – Block Diagram Showing DB0SRS DATV Repeater Design**



### Related DATV Links

- South West Herts UHF Group – GB3BH – see [www.GB3BH.com/](http://www.GB3BH.com/)
- Cambridge Repeater Group – GB3PV – see [www.CambridgeRepeaters.net/?page\\_id=13](http://www.CambridgeRepeaters.net/?page_id=13)
- Kirk Merrington ATV Repeater – GB3KM – see [www.M0DTS.co.uk/GB3KM/](http://www.M0DTS.co.uk/GB3KM/)
- Lufthansa Radio Club Hamburg DB0DLH streaming via VLC-mode – see [www.d-atv.net/db0dlh.asx](http://www.d-atv.net/db0dlh.asx)
- Lufthansa Radio Club Hamburg DB0DLH streaming via NVS-mode – see [www.d-atv.net/db0dlh.m3u](http://www.d-atv.net/db0dlh.m3u)
- SR-Systems D-ATV boards for Hams – see [www.D-ATV.org/](http://www.D-ATV.org/)
- British ATV Club – select from about 25 streaming repeaters – see [www.BATC.TV/](http://www.BATC.TV/)
- Orange County ARC newsletter series of DATV articles – see [www.W6ZE.org/DATV/](http://www.W6ZE.org/DATV/)
- RF Bandwidth online calculator for DVB-S & DVB-S2 – see [www.satellite-calculations.com/Satellite/bitrates.htm](http://www.satellite-calculations.com/Satellite/bitrates.htm)



## Ham Cuisine

*by Kristin, K6PEQ*

## Bean & Pork Soup

### Ingredients:

1/2 pound dried borlotti beans, pinto or red kidney beans, 2 tablespoons olive oil, 1 1/4 cups minced yellow onions, 2 teaspoons minced garlic, 4 small smoked pork chops, or 8 ounces other smoked pork, such as smoked ham hock or smoked ham cut into 1-inch cubes, 1 bay leaf, plus 1, 6 to 8 cups **water**, 4 ounces pancetta, chopped, 1/2 pound sauerkraut, rinsed and drained, 1 teaspoon **sugar**, 1/4 teaspoon whole peppercorns, 1/4 teaspoon **salt**, 4 ounces prosciutto di San Daniele, Extra-virgin olive oil

### Cooking Directions:

Place the beans in a large bowl. Cover with cold water by 2 inches and soak overnight. Drain. In a large pot, heat the oil. Add the onions and cook until soft, about 4 minutes. Add the garlic and 1 bay leaf and cook, stirring, for 30 seconds. Add the pork chops and cook, turning, for 2 to 3 minutes. Add the beans and enough water to cover (6 to 7 cups) and bring to a boil. Reduce the heat to medium-low and simmer, stirring occasionally, until the beans are tender, about 1 hour. With a heavy wooden spoon or potato masher, mash about half of the beans against the sides of the pot. Continue cooking until very tender, 10 to 15 minutes. Meanwhile, in another pot, cook the pancetta over medium heat until the fat is rendered, about 6 minutes. Add the sauerkraut, 1 cup of water, the remaining bay leaf, the sugar, peppercorns, and salt. Reduce the heat and simmer uncovered, stirring occasionally, until tender and aromatic, about 30 minutes. Add the sauerkraut mixture to the beans and stir well to combine. Cook, stirring occasionally, for 15 minutes. Adjust the seasoning with salt and pepper. Remove from the heat and discard the bay leaves. Ladle into 4 deep bowls, giving each person 1 pork chop. Top with the diced prosciutto. Grind freshly ground black pepper over the top and drizzle with extra-virgin olive oil. Serve.

Wine suggestion: Serve with a chilled Chardonnay or if you prefer a red wine, a Pinot Noir.

### Serving Suggestions:

Would be great with a side of polenta or add croutons to the top for an added crunch!

# SATELLITE PRESENTATION IN FULLERTON

-----Original Message-----

From: Clint Bradford [mailto:clintbradford@mac.com]

Sent: Sunday, January 10, 2010 2:34 PM

Subject: Ham Satellite presentation - Fullerton

AMSAT area coordinator Clint Bradford, K6LCS, will be presenting his "Working Amateur Satellites With Your HT" multimedia session at the January 20, 2010 meeting of the Fullerton Radio Club. All are welcome to attend.

"Tentatively, we'll have a workable pass of AO-51 at 5:12PM that evening," Clint reports. "If you would like to show up early, I'll be working the satellite from the Ruby's Diner parking lot ... " - which is where the club informally meets before the 7PM meeting.

Wednesday, January 20, 2010  
5:15PM - dinner before the meeting  
Ruby's Diner  
1301 S. Harbor Blvd.  
Fullerton, CA 92832

7:00PM - FRC Club Meeting  
Fullerton Senior Center  
340 West Commonwealth Avenue  
Fullerton, CA 92832-1711

Attendees should download Clint's four-page tutorial and radio programming matrix before the meeting from ...

<http://www.work-sat.com>

And Clint welcomes pre-presentation questions - call him at 909-241-7666, or send email to [clint@clintbradford.com](mailto:clint@clintbradford.com)

If you'd like this lively, hour-long presentation to be held at your club or organization - just contact Clint.

/end/

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**OCARC****Board Meeting Minutes****1-9-2010****OCARC Board Meeting Minutes for:****January 9, 2010**

The OCARC Board meeting was held at the JagerHaus Restaurant, 2525 East Ball Road, Anaheim, at 8:15AM Saturday, January 9, 2010. There were a total of 10 directors and 5 visitors – Diane Konechy, George N6VNI, Steve N1AB and two non hams Meredith & Richard. There was a quorum with all directors' present, fine start to the New Year.

**DIRECTOR REPORTS:**

- Kristin K6PEQ was pleased with the entire board "10" Directors being present.
- Vice President Paul W6GMU – with Kristin's assistance has speakers arranged for the first four months: January – Arnie N6HC, February – Bob Grimmick N6OX, March – TBD, and April – Video of Queen Mary Ham Station.
- Treasurer Ken W6HHC – transfer of banking to be completed today, Audit committee to be set and reminder for remaining 2010 dues to be paid by membership.
- Secretary Kristine KC6TOD, thanked the board for the receiving the 2009 Good of the Club Award and looks forward to a great year.
- Activities Dan – N6PEQ discussed the date for Morse Code class
- Loran AF6PS Membership - is in the process of receiving transfer of information.
- Robbie KB6CJZ has flyers to be taken to HRO
- Nicholas AF6CF has the legacy and all is well
- Bob AF6C – Larry K6YUI – nothing at this time

**OLD BUSINESS:**

- **RF Newsletter "Rotating" Editors:**  
January – Nicolas AF6CF  
February – Kristin K6PEQ  
March – Paul W6GMU

April – Doug Britton W6FKX

May – Kristine KC6TOD

- **Guest Speakers**

Kristin has the first 4 months – confirmed with speakers

- **Morse code Class**

Morse code class to resume in May 8<sup>th</sup>.

- **2010 Field Day Plans**

Walter Knott School will be the location, need to find Field Day Chairman or co-Chairman. Suggestion to use large generator as last year.

- **Christmas Dinner Recap**

Huge success, great raffle prizes, 50 people attending, profit on raffle. Only suggestion is that those guests seated in the center of the tables did not receive enough food, next year suggest platters be placed at the end of each table and the center as well.

- **Audit Committee**

Kristin K6PEQ, Kristine KC6TOD, George N6VNI, [Paul W6GMU] and Ken W6HHC will meet at the PEQ's Friday the 22<sup>nd</sup> of January to complete the audit.

**NEW Business**

- **New Net Proposal-** Nicholas AF6CF had proposed a new net using a 2M repeater for those who cannot make Simplex or the 10 meter net on Wednesday night. Nicholas discussed with George N6VNI – President of WARA, the possibility of using the WARA Repeater 145.400 for the new net (with a PL tone of 103.5 Hz). The WARA Board is fine with this idea and the new net will be on Thursday evenings ~~7:30~~ pm [Editor's Note: the Net Control Station prefers **8 PM**] (beginning on Jan 21). A hand shake on the part of the two club president's sealed the agreement – OCARC's Kristin K6PEQ & WARA's George N6VNI. WARA would like to see more activity on the N6ME Repeater.

**NEW Business (continued)**

- **NEW Activities** – we currently have a potluck, suggestions for picnic, beach party
- **Board Meeting Date Change** – suggestion to change the OCARC monthly board meeting from the first Saturday of each month to the second Saturday. This will avoid conflicts with major Monday holiday weekends and in addition the use of the Jagerhaus meeting room instead of the corner of the restaurant. Motion made by Kristine KC6TOD, seconded by Ken W6HHC. All members were in agreement. Kristin K6PEQ to contact Sandy at the Jagerhaus to make the change
- **Club officers** – President, Vice President, Treasurer and Secretary to go to the bank after this morning meeting to change signature card.

**GOOD OF THE CLUB**

- Kristin received an email from Paul Jacobs WD6DVT; he would like to make a donation of Drake equipment to OCARC. Bob AF6C will help list the donation on the website.

Motion made to adjourn meeting by Dan N6PEQ, seconded by Paul W6GMU.

Meeting adjourned 9:05 AM

Respectfully submitted:

*Kristine Jacob KC6TOD*, Secretary



## 6th Annual Yuma Hamfest & Emergency Preparedness Show Yuma, Arizona Feb. 19 & 20

Yuma County Fairgrounds  
2520 East 32<sup>nd</sup> Street, Yuma, Arizona

**[www.yumahamfest.org](http://www.yumahamfest.org)**

Check the Website for Additional Information  
and a Current Schedule of Activities and Seminars

### Amateur Radio Equipment Disaster Preparedness Information Emergency Supplies Solar Power Batteries & Power Inverters Emergency Bug Out Bags

Gates Open for Camping Thursday, 4 pm  
Vendor Setup Friday, 7 am - Noon  
Event Hours Friday, Noon-5 pm Saturday, 8-5 pm  
Buzzard BBQ & Grand Prize Drawing Saturday Night

### Country Store (Equipment Con- signment Sales)

### Testing for New Hams Seminars License Upgrades Hospitality Area

Hamfest Talk-In Frequency: 146.840 (–) PL 88.5 Hz

**Contact for more Information:**  
**Richard Palaszynski (KC2LGR)**  
**[kc2lgr@gmail.com](mailto:kc2lgr@gmail.com)**

Presented by Yuma Amateur Radio Hamfest Organization  
(YARHO)

## A HISTORY of OCARC PRESIDENTS

by Ken Konechy W6HHC  
with great assistance from our  
Club Historian, Bob Evans -

### YEAR

2010 Kristin Dankert K6PEQ  
2009 Nicholas Haban AF6CF  
2008 Willie Peloquin N8WP  
2007 Kristin Dankert K6PEQ  
2006 Willie Peloquin N8WP  
2005 W6HHC Ken Konechy  
2004 N1AB Steve Brody  
2003 KQ6JD Lowell Burnett  
2002 KE6WIU Cory Terando  
(now AE6GW)  
2001 KD6BWH Bob Buss  
(later KØBWH)  
2000 K6LDC Larry Hoffman  
1999 WA6VPP Bud Barkhurst  
1998 KD6BWH Bob Buss  
(later KØBWH)  
1997 WA6VKZ Frank Smith  
1996 AF6C Bob Eckweiler  
1995 N6XTJ Jim Roberts  
1994 KJ6ZH Chris Breller  
1993 KC6TAM Jane Breller  
1992 WA6VKZ Frank Smith  
1991 W6HHC Ken Konechy  
1990 KJ6ZH Chris Breller  
1989 WA6VKZ Frank Smith  
1988 W6HHC Ken Konechy  
1987 N6JSV Jim Talcott  
1986 WA6VKZ Frank Smith

### YEAR

1985 AF6C Bob Eckweiler  
1984 KA6IMP Chris Breller  
(now KJ6ZH)  
1983 W6IBR Al Watts  
1982 KA6HNY Robin Hoff  
1981 WA6VKZ Frank Smith  
1980 WA6FOW Ernie Prichard  
1979 WB6IHZ Terry Mathers  
1978 WA6LFF Jim Kingsbury  
1977 WA6WZO Fried Heyn  
1976 WB6PEX Martin Raymond  
1975 WA6LHB Art Sheldon  
(now K7ZE)  
1974 W6HHC Ken Konechy  
1973 WB6QNU Bob Eckweiler  
(now AF6C)  
1972 WA6FIT Ron Cade  
(now W6ZQ)  
1971 WB6CQR Billy Hall  
(now N6EDY)  
1970 WB6UDC Jack Hollander  
(now N6UC)  
1969 WA6ROF Jerry VerDuft  
(now ADØA)  
1968 W6COJ Dave Hollander  
1967 WB6GPK Jim Hill  
1966 WA6YWN Jack Shaw  
1965 K6KTX Rolland Miller  
1964 W6WRJ Ralph Alexander  
(later W6RE)  
1963 W6DEY Roy Maxson  
1962 K6LJA Ted Glick  
1961 K6IQ Roy Morriss  
1960 K6TXS Charles(Ed)Edwards  
1959 W6BVI Ken Kesel  
1958 W6BVI Ken Kesel

### YEAR

1957 - CLUB DISBANDED -  
1956 W6HIL Bob Swenson  
1955 W6BVI Ken Kesel  
1954 W6UPP Marinus Conway  
1953 Probably only informal  
meetings, no officers?  
1952 W6QZQ Horace Bates  
1951 W6LDJ Sam(Mac) McNeal  
1950 Probably only informal  
meetings, no officers?  
1949 W6CGF Chuck Lunder  
1948 W6BWO Dale Bose  
1947 W6ALO Tommy Gentges  
1946 W6DEY Roy Maxson  
1945 W6DEY Roy Maxson  
1944 - **ALL OFF TO WAR!!**  
1943 - **ALL OFF TO WAR!!**  
1942 W6IBN Roy Cumpston  
1941 W6BAM Shelley Trotter  
1940 W6KLU Harold Christen-  
sen  
1939 Probably only informal  
meetings, no officers?  
1938 W6NSA Les Gates  
1938 W6ADT Noral Evans  
1937 W6LYN Noral Evans  
(Also reissued W6ADT)  
1936 W6LYN Noral Evans  
(Also reissued W6ADT)  
1935 - CLUB DISBANDED!!  
1934 W6IGO Earl Moore  
1933 W6IGO Earl Moore

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**OCARC 2010 Dues “are Due”!!!**

## 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/>

### 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/>

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

### ICOM Elmer.Com

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

### M2 Antenna Systems

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### 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

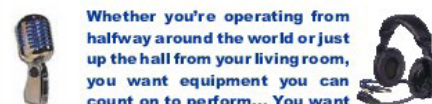
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