



RF



ORANGE COUNTY AMATEUR RADIO CLUB, INC.

VOL. LII NO. 5

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

May 2011

The Prez Sez.....

By Paul W6GMU



"The month of May" is proving to be the best month yet this year, full of beauty and promise.

This bodes very well for a wonderful Field Day event next (yes, NEXT) month. I'm really looking forward to FD as I expect that we'll all have a fabulous time at this, our annual Club event.

Please check the update from Jeff and Doug to see what's still needed for FD and plan to help, if possible.

The "Portables in the Park" activity last month was very much enjoyed by all who attended.

Watch the "RF" for info on future "Portables in the Park" events.

During this month's meeting we'll be informed about the Civil Air Patrol, this being particularly interesting to Hams in general and licensed pilots in particular. I attended one of their meetings a few years ago and found it fascinating.

Have fun y'all, & CUAGN at the June 17th General Meeting.

73 de Paul W6GMU



May General Meeting

"The Mission of the Civil Air Patrol"

Amateur operators John Freichs - N6VCW and William Phinizy - K6WHP will talk on the mission of the Civil Air Patrol (CAP).

See the following link:

<http://www.cawg.cap.gov/default.htm>



The next general meeting will be on:

**Friday, May 20
@ 7:00 PM**

As usual, we will be meeting in the east Red Cross Building, Room 208. See you there!

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



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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:

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

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.

City of Orange PD Communications during the Baker-to-Vegas Race 2011

by Ken W6HHC

Since 1985, law-enforcement running teams (from around the world) have entered in a competitive foot-relay-race through the desert. This race, known as "Baker-to-Vegas" (and aka B2V), is a 120 mile long race, that starts outside Baker (CA), runs through the desert to Shoshone, then runs through Pahrump, NV and finishes at the Hilton Hotel in Las Vegas. (see **Fig 1**) The B2V race is broken into 20 "legs" or stages. This year, more than 260 different law enforcement teams participated. The runners of the Orange Police Department have been supported for many years with communications by hams belonging to COAR (City of Orange Amateur Radio) RACES, the OCARC members, and Communications Volunteers from Cypress. This year, nine OCARC members helped the OPD running team by providing planning and communications over the entire race course...and two more OCARC members helped other organizations (OC RACES and SD RACES).

The COAR RACES activities for the 2011 races began at least seven months before this year's race began. The COAR B2V communications project required the following five phases:

- Planning Sessions
- Equipment Testing Workshops
- Equipment Set-up for the Race
- Staffing and Operating the B2V event
- Post B2V Review Sessions

The City of Orange RACES plan was to set up five communications centers along the B2V race course in order to provide a "communications backbone" to support the mobile units used during the race.

- Ibex Pass, California
- Shoshone, California
- Pahrump, Nevada
- Sandy Valley Road, Nevada
- Las Vegas, Nevada

The race started on Saturday April 16 and finished Sunday morning. This year, the Orange PD running team finished very well and placed 51 out of more than 260 teams.



Fig 1 – Map of B2V Race that starts about 18 miles outside of Baker. Red DOTS are COAR Communication Centers.



Fig 2 – One of Several COAR Planning Meetings that were conducted before the B2V Race (Photo by Ken W6HHC)

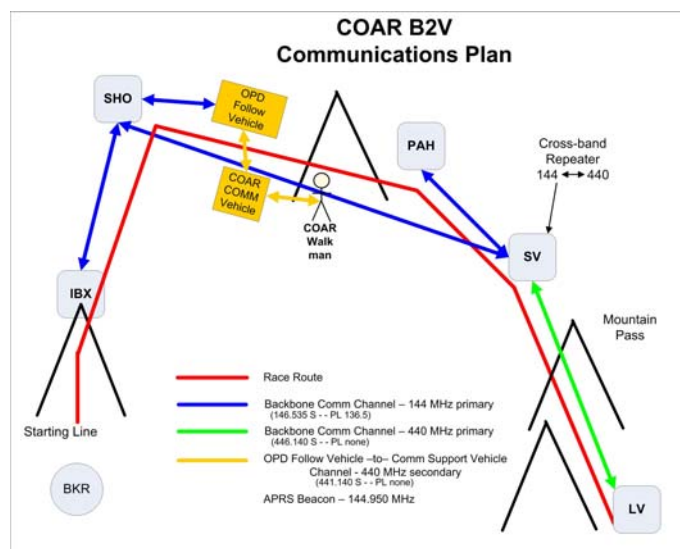


Fig 3 – This Diagram is the Communications Plan for COAR RACES. The OPD runner's Follow-Vehicle was always in contact with one of the five Communications Centers. (Diagram by Ken W6HHC)



Fig 4 – Ken W6HHC (standing in the back-right) set up a test bench for radios to be used at the Pahrump Comm Center at his QTH two weeks before the B2V race.
(Photo by Ken W6HHC)



Fig 5 – This meeting before the race shows some of OPD runners (Team #41), some of their support team, and some of the COAR RACES communications team (yellow shirts)

(Photo by Jay KI6WZU)



Fig 6 – Just before the race, Dave KG6RWU (Chief Radio Officer for COAR) finishes installing the "Follow Vehicle" with three radios and three sets of antennas. Two radios are for voice communications (144 and 440 MHz) and one radio is a 2M APRS beacon for tracking the runner.

(Photo by Bill W6VKO)



Fig 7 – At the Communications Center in the very small town of Shoshone, Steve KB6ROL experimented with solar power this year to run all the radio equipment during B2V.

(Photo by Rich KR6BA)



Fig 8 – The Orange PD runner, Officer Jeff Burton, is seen here going over Leg #3 with the OPD follow-vehicle.

(Photo by Polly KI6CUK)



Fig 9 – This photo taken in 2006 provides a great "feel" and terrific view of the open desert with the OPD runner (then Team #57) leading what seems to be an endless line of runners and support vehicles from competing teams.

(Photo by Byron KC6YNG)



Fig 10 – In Pahrump, Nicholas AF6CF takes a turn with the “voice radios” to keep in touch with the OPD Follow-Vehicle and Las Vegas Comm Center.
(Photo by Ken W6HHC)



Fig 11 – At the Pahrump Comm Center, Ken W6HHC (at keyboard) and Jay KI6WZU use a spreadsheet to keep track of the runner's reported times. The same computer is used for APRS tracking the progress of the OPD runner.
(Photo by Ken W6HHC)



Fig 12 – The Comm Center located at Sandy Valley Road is “in the middle of nowhere”!! There are no fancy hotels (like in Shoshone)...just hard working hams and a few motor homes and trailers. The cross-band repeater kept communications flowing on both sides of the mountain ridge.
(Photo by Bill W6VKO)



Fig 13 – At the Las Vegas Comm Center are (L-R) Steve KI6DDE and Robbie KB6CJZ taking a shift on the COAR RACES radios during the race.
(Photo by Sam W6RDS)



Fig 14 – In Las Vegas, COAR set up a “long john” 16-element 440 MHz yagi beam that is clamped to the hotel railing. This beam is aimed up at the cross-band repeater that COAR has set-up at Sandy Valley Road on top of the mountain ridge.
(Photo by Sam W6RDS)



Fig 15 – This group photo shows most of the volunteers who helped COAR RACES provide communications for the OPD B2V running team.
(Photo by Ken W6HHC)

Heathkit of the Month #29: by Bob Eckweiler, AF6C

Heathkit

Heathkit W-4AM 'Williamson Type' Hi-Fi Amplifier.

Introduction:

In the late 1940's a new craze hit America. Electronic technology had made a leap during the war and quality music reproduction was in demand and now possible. The 33-1/3 RPM Long-Playing (LP) record album had recently been introduced along with new changer turntables with Hi-Fi needle cartridges. People were listening to music in their homes with new high-fidelity equipment and records. The Hi-Fi era was upon us. Stereo was still in the future, but good audio reproduction had replaced the distorted poor response audio of pre-war phonographs and shellac records.

A significant breakthrough in audio reproduction came about in 1947 when D. T. N. Williamson published a two-part article in the April and May issues of **Wireless World**. His article entitled: "Design of a High Quality Amplifier"¹ presented a new design offering low distortion and excellent frequency response. In November of 1949 D. Sarser and M. C. Sprinkle published "Musician's Amplifier"² in **Audio Engineering**, showing the design of a practical Williamson amplifier. See figure 1.

The Williamson design revolutionized the Hi-Fi industry and quickly became the standard for accurate sound reproduction. A 20 watt Williamson type Hi-Fi amplifier often boasted frequency re-

sponse specifications of $\pm 1\text{dB}$ from below 20 cps³ to over 100 kcps⁴ at 1 watt output. Intermodulation and harmonic distortion were also significantly reduced over other designs of the day.

The Williamson Design:

What makes the Williamson design so good? First, it relies on a large amount of negative feedback including a feedback loop that encompasses the entire circuit including the output transformer. This feedback path is from the highest impedance tap on the secondary of the output transformer to the cathode of the first audio stage. Second, no transformer coupling is used between stages, eliminating a major frequency dependent component. And third, a clever circuit is used to convert the single ended audio into split phase audio without the need of an interstage transformer.

A typical Williamson amplifier circuit consists of five tubes: a rectifier tube in the power supply, usually a 5V4, 5U4 or 5R4 dual diode; two twin triode tubes, often 6SN7 octal tubes or later on 12AU7 miniature 9-pin tubes, and two

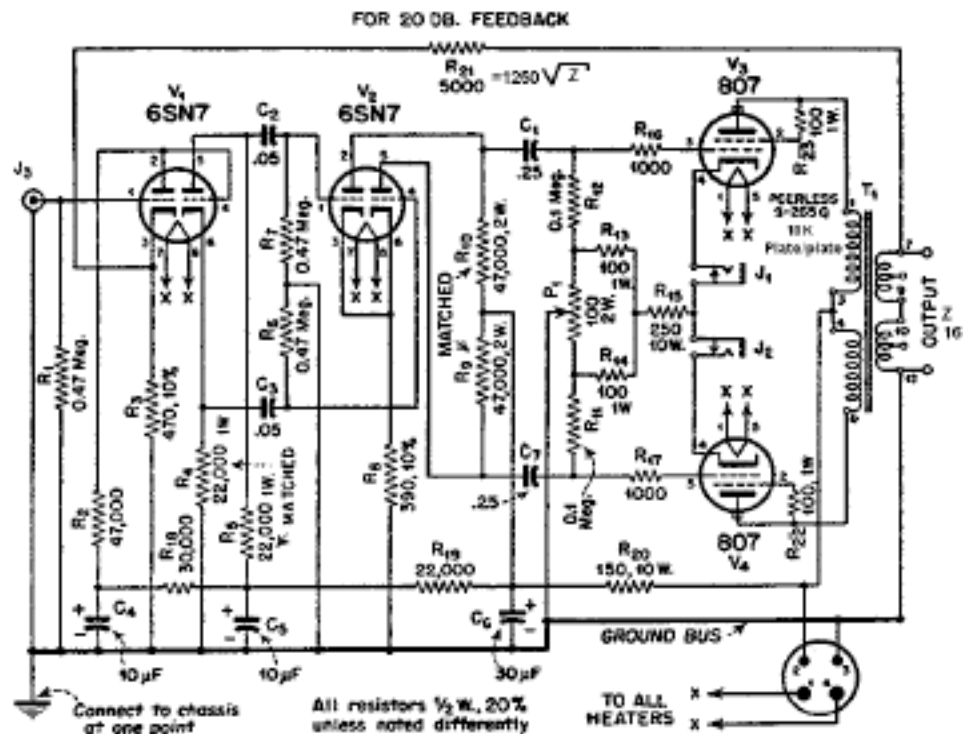


Fig. 1: The "Musician's Amplifier" circuit (circa Nov. 1949)

audio power tubes in push-pull. The first twin-triode is used as two stages of directly coupled audio amplification, the second stage providing two signals 180° out of phase, each driving one section of the second twin triode. The second twin triode outputs each drive one-half of the push-pull output stage. Various output tubes are used; mostly they are tetrodes/pentodes such as the 807, KT-66, KT-88, 5881 or the 6L6. In some early models the output tubes were connected as triodes with their screen grids tied to the plate through a low value resistor. In later units the screen grids were tied to special taps on the output transformer improving linearity even further. Acrosound, named this output transformer design *ultra-Linear*.

The Heathkit W-1 [and W-1A?]



Fig. 2: Heathkit W-1. Power Supply is on the left, Amplifier Chassis is on the right.

Heathkit's first Williamson type amplifier was the W-1. It consists of two chassis, with the power supply separated from the audio chassis. Heathkit claimed the dual chassis design gave more versatility for layout, though hum reduction may have also played into the reason. I could find little information on the W-1 except that it appears in a 1950 era Heath flyer and uses two 6SN7 dual-triodes, two 807 tetrodes and a 5V4 rectifier. Some report the W-1 is a copy of "The Musician's Amplifier circuit (which also incorporates the power supply on a separate chassis).

In the original W-1 design the 807 power tubes are triode connected with the screen grid tied to the plate through a small resistance; however evidently Heath came out with a later version (perhaps designated the W-1A or WA-1) that has an updated output transformer providing "ultra-linear" taps for the screen grids. The W-1 appeared in 1949 or 1950; I could not find the W-1A in any of my catalog references.

The Heathkit W-2M and W-3M

The Heathkit W-2M replaced the W-1 series around 1951 and is listed in their 1951 flyer. Around the same time the W-3M was introduced. Heath continued the practice of the power supply being on a separate chassis. These amplifiers use 5881 output tubes instead of 807s. The units have identical circuitry except for the output transformer. the W-2M uses a Peerless transformer and the W-3M uses an Acrosound "Ultra-linear" transformer. Because they use different transformers there are some minor component value differences between the two units, mostly in the outer feedback loop compensation. the W-2M and W-3M each sold for \$49.75; their shipping weight was 29 lbs.

The power supplies for the W2-M and W-3M are almost identical, providing around 380 - 420 VDC and 6VAC at 4 amperes for the filaments. The power transformer used in the W-3M is rated at 810 VCT at 135 ma while the W-2M transformer is rated at 750VCT at 120 ma.

The multi-chassis units are connected by a cable that uses octal tube socket connectors. The power supply has an octal socket that carries the B+, filament power and switching connections for the AC power. The amplifier comes with parts to make a 3-ft cable with an octal plug on the end that mates with the octal socket on the power supply. If a longer cable is required, user supplied cable, with heavier gauge wire, must replace the supplied cable. The amplifier chassis also has an additional octal socket that can be used to supply power to the optional WA-P1 preamplifier.

The “M” designation in these, and future, model numbers designate the amplifier unit by itself. Ordering the W-2 or W-3 without the “M” designates the amplifier and a WA-P1 (or later the WA-P2) preamplifier kit would be packaged and shipped together for an additional \$19.75 and 8 shipping pounds.

Heathkit W-3AM

The W3-AM amplifier replaced the W-3M around the end of 1956. It is basically the same amplifier with about eight minor circuit changes to improve stability and also to provide another voltage source, through pin-5 of the octal socket, to the new WA-P2 preamplifier if used.

The Heathkit W-4M, and W-4AM

The W-4 series are the first Heathkit Williamson type Hi-Fi amplifiers that have the power supply and amplifier combined on a single chassis. Very little information on the W-4M could be found. It is evidently based on the W-3M but in order to cut costs it uses a lower cost Chicago Standard output transformer.

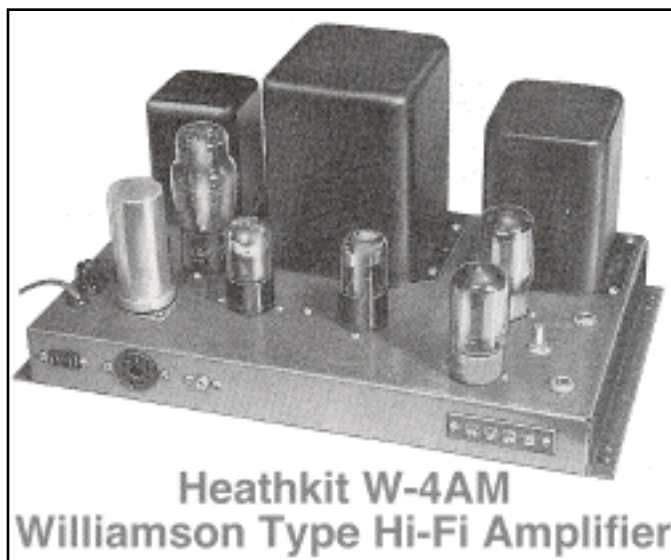


Fig. 3: Heathkit W-4AM

The W-4AM (figure 3) quickly followed the W-4M and adopts many of the stability improvements of the W-3AM in a single chassis unit, modified to meet the characteristics of the Chicago output transformer. This amplifier became very popular and is still in use by many

vacuum tube audiophiles; it is usually used in pairs for true stereo.

W-4AM Circuit Description:

Figure 4 shows the schematic of the W-4AM. Like its Heathkit predecessors it uses a pair of octal 6SN7 dual triode tubes. It also uses a pair of Tung-Sol 5881 output tubes like the W-2 and W-3. The rectifier is a 5V4G dual diode. Note that in the schematic there is an error. The cathode of the 5V4 is shown connected to pin 2 internally; it is actually connected to pin 8. The schematic external to the tube is correct.

The first audio stage (1/2-6SN7) input is capacitively coupled unlike the initial design. It is a single triode with no capacitor in the cathode resulting in lower gain but better linearity (a Williamson theme that holds for every stage except the output stage.) The grid of the second audio stage and phase splitter is directly coupled to the plate of the first stage for best frequency response. However a phase compensating network (4.7K and 420 pF) is present across the combination 47K grid and plate resistor. A similar network was added between the W-3M and W-3AM models. Matched 22K 1W resistors, one in the cathode and one in the plate circuit develop identical signals that are 180° out of phase. Each of these signals are capacitively coupled to their own section of the second 6SN7, wired in push-pull. Matching 47K 2W plate resistors develop identical but opposite signals that drive the output stage.

The push-pull output stage runs in class AB, each tube drawing with no signal about 50 - 60 milliamperes. A potentiometer is provided in the cathode circuit to balance this quiescent current in each tube. 1/4" phone jacks are provided in each cathode circuit so a milliammeter can be plugged in to read the current. The jacks are self-shorting when nothing is plugged in.

The Chicago Standard output transformer has primary *ultra-linear* taps for the screen grids. The transformer secondary has outputs for 4, 8 and 16 ohm speakers.



Fig. 5: W-5M

Heathkit built two additional amplifiers under the “W” brand in the mid-to-late fifties, the W-5M and the W-6M.

The Heathkit W-5M

The W-5M (figure 5) is the second single chassis Williamson type amplifier. It is also the first amplifier of its type to come with a top chassis cover. It also boasts a totally new tube lineup, replacing the octal 6SN7 tubes with 12AU7 9-pin miniature tubes. The power output stage uses KT-66 tubes and boasts 25 watts (42 watts peak) output. The rectifier tube is a higher current 5R4GY. This amplifier contains two tip jacks instead of the two phone jacks used to balance the output stage. A voltmeter is connected between these jacks and the balance pot is adjusted for zero voltage with no signal.

While the preceding amplifiers, with possibly the exception of the W-1 have a switched convenience AC outlet, the W-5M also includes a second non-switched AC outlet. The W-5M sold for \$59.75 in 1956.

The Heathkit W-6M

Heathkit's final “W” amplifier, (figure 6), has drawn some controversy as to whether it is a true “Williamson” design or not. The W-6M uses 5880 audio output tubes and produces 70 watts of audio power. Three other tubes are used, all different type 9-pin miniature dual triodes: A 12AU7 as audio amplifier and phase splitter, a 12AX7 as push-pull audio amplifier and a 12BY7 as the driver for the 5880s. This additional driver stage is a large part of the

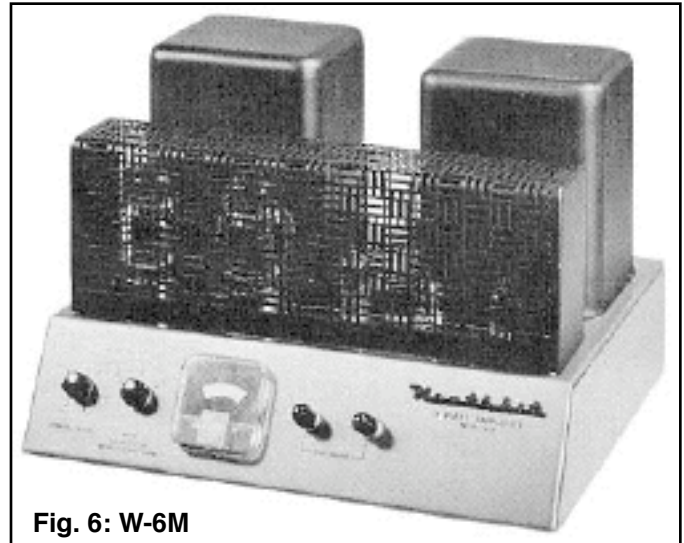


Fig. 6: W-6M

“Williamson” controversy. In fact Heathkit doesn't mention Williamson in their advertising. You may have noticed a rectifier tube was not mentioned; that is because there is not one. Heathkit took a large step forward introducing silicon diode power rectifiers in this amplifier.

Heath also added some new features to the W-6M including front controls to adjust damping and set the bias, as well as a meter to monitor the bias settings. The W-6M, with a shipping weight of 59 lbs, sold for \$109.95 in 1957.

Notes:

- ¹ The article can be found in http format in two parts on the web starting here:
<http://www.keith-snook.info/Articles-for-the-Web/Williamson-Amplifier-1947/Williamson-WW-April-1947.html>
- ² A reproduction of the article in pdf format may be found on the web at:
http://oestex.com/tubes/mus_amp%20.pdf
- ³ cycles-per-second. Today Hz
- ⁴ kilocycles-per-second. Today kHz

73, from AF6C



Remember if you come across any old Heathkit Manuals or Catalogs that you do not need, please pass them along to me.

Thanks - Bob, AF6C

OCARC
Portables in the Park
April 23, 2011

Photos and report by Jeff Hall W6UX



Orange County Amateur Radio Club's second annual Portables-in-the-Park was held on Saturday April 23rd at the Jeffrey Open Space Preserve in Irvine, CA. Coordinated by Jeff Hall (W6UX), a total of 10 club members attended and two guests checked in. In the photo above, Tim (K6GEP) is being ~~harassed~~ ~~heckled~~ cheered on by Kristin (K6PEQ) and half-a-Dan (N6PEQ). During the event, a ham operator, licensed in South Korea was walking by and stopped to say hello. A few curious onlookers walking their dogs asked if we were trying to contact E.T. I educated them ;). A group of kids riding by on their bikes stopped to see what all the fuss was about...they thought having a radio station was "cool". Weather was great, but the bands were kind of dead on 15 meters. Dee (N8UZE) and Carl (N8AE) strung up their 80m dipole which they plan to bring to Field Day. Paul (W6GMU) and Nicholas (AF6CF) experimented with a tiny loop antenna which was receiving really well on 20m...not so much transmitting because Nicholas forgot to bring part of the antenna's framing structure, so they just draped the loop horizontally and did their best they could with it. Paul later put up his Super MP-1 and made contacts on CW. Tim helped me field test my 15m vertical dipole and K8RA paddle -- it worked well, getting a few contacts into the mid west and east coast. Very little DX was heard, but we did get a special event station in Mexico on 15m SSB. Hannah (KJ6LDW) showed me a really neat trick for quickly coiling coax so that it easily unravels, and I've encouraged her to show the club this trick!

All in all, a good effort by everyone who brought out their gear. Next up...FIELD DAY!

-Jeff W6UX

**International
DX
Convention**



Visalia, CA



**April 15-17,
2011**



Photos submitted by:
Dan (N6PEQ)
Paul (W6GMU)



OCARC GENERAL MEETING MINUTES April 15, 2011

Submitted by Doug Britton W6FKX

The OCARC April General Meeting was held at the Red Cross complex in Santa Ana at 7:00 pm on Friday evening, April 15, 2011. Once again the OCARC secretary forgot to count the attendance (he is guessing around 127 attended). Steve Brody (N1AB) called the meeting to order and led the Pledge of Allegiance. The members in attendance watched a very well produced DVD presenting the Official BS7H Scarbrough Reef DXpedition conducted in 2007.

Following the DVD, Jeff Hall (W6UX) updated the club on the status of Field Day, mentioning that 80M and 10M band captains were still needed. Carl and Dee Flint (N8AE and N8UZE, respectively) volunteered as band captains for 80M. Jeff also reminded us that help with setup on Friday and tear down on Sunday will be needed and appreciated.

Meeting was adjourned at 8:03 pm.

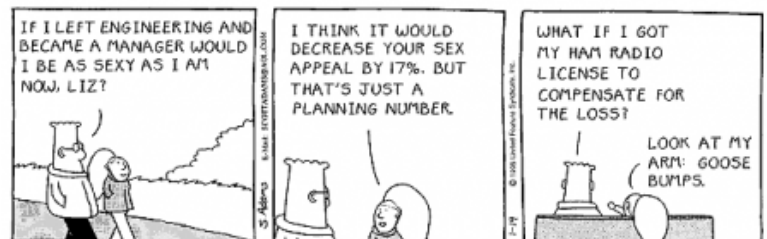
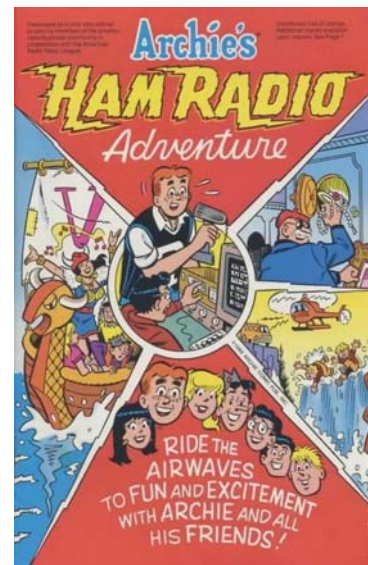
- Doug Britton W6FKX, OCARC Secretary

REMEMBER THOSE WHO SERVED



ALL GAVE SOME, SOME GAVE ALL

Just For Fun Ham Radio in Popular Culture



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Ok, this one cracked me up!

OCARC CLUB MEMBER POTLUCK



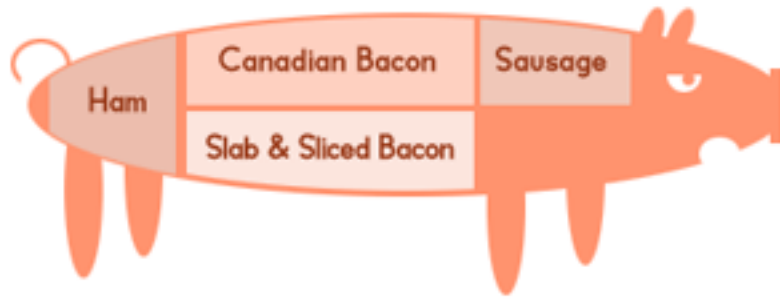
May 28th!

QTH: Dan (N6PEQ) and Kristin's (K6PEQ) home

When: May 28th, 1 p.m. until?

What to Bring: You, a friend or significant other and a food item. If you are unable to attend a meeting to sign up for food but would like to attend the potluck, please e-mail Kristin-K6PEQ at k6peq@w6ze.org.

We will be providing hamburgers and hot dogs. We hope you will be able to come and have fun!



Ham Cuisine

by Kristin, K6PEQ

Apricot-Sauced Ribs

The season of BBQ is upon us! Grab those flip flops and head outdoors for an amazing feast from the grill. Corn on the cob and sweet potatoes can also be grilled at the same time which means less dishes and more enjoyment. So invite a few friends over and have a great time!

Ingredients:

- 4 pound pork spareribs, cut into serving-size pieces
- 1 8-oz. can undrained apricot halves
- 3 tablespoons ketchup
- 3 ½ tablespoons brown sugar
- 2 tablespoons lemon juice
- 1 ½ tablespoon Dijon-style mustard
- 1 teaspoon dry ginger
- 1/8 teaspoon salt

Cooking Directions:

Prepare medium-hot coals for indirect grilling in covered grill. Place ribs on grill not directly over coals, cover grill and cook ribs over indirect heat for 1 1/2 hours. Meanwhile, blend remaining ingredients together in blender. Brush ribs generously with sauce and continue to cook, about 15-20 minutes, basting and turning 2-3 times.

Serves 4

OCARC Board Meeting Minutes April 9, 2011

ORARC Board Meeting Minutes for: April 9th, 2011

The ORARC Board meeting was held at the JagerHaus Restaurant, 2525 East Ball Road, Anaheim, at 8:15AM Saturday, April 9th, 2011. There were a total of 9 directors present. There was a quorum with the directors' present.

DIRECTOR REPORTS:

- President Paul W6GMU followed up on Field
- Vice President George N6VNI turned the paperwork into Ken W6HHC the confirmation for Field Day 2011 at Walter Knott School. The keys can be picked up the Wednesday before Field Day. George confirmed guest speakers and programs from May through August.
- Treasurer Ken W6HHC –Balance on hand \$6,350.00
- Secretary – Doug W6FKX (absent) Kris Jacob KC6TOD taking notes.
- Activities Kristin K6PEQ reported that Portables in the Park was posted on Facebook, the May potluck will either be the second or fourth week in May.
- Membership Jeff Hall W6UX reported that the Field Day meeting will be after the Board Meeting and the membership roster had been updated with 12 delinquent members.
- Technical Bob AF6C the loaner radio TS450 is available.
- Publicity Steve N1AB will handle the April meeting since several board members will be participating in Baker to Vegas as well as it is the same weekend as the International DX Convention in Visalia
- Director Larry K6YUI – nothing at this time
- Director Dan N6PEQ – nothing at this time

OLD BUSINESS:

- **RF Newsletter “ Rotating” Editors – thank you to all who volunteer!**
 - June – Kristine KC6TOD
 - July – TBD
 - August - Kristin
- **Field Day** – Jeff W6UX reported that following the board meeting there will be a field day meeting. He is hoping that W6ZE will be 6A using the logging software from N3FJP. The Boy Scouts from Redondo Beach will be joining the Field Day activity this year, enthusiastic young people.
- **Club Generator** – Ken W6HHC is asking that the old club trailer and generator needs to find a new home. The trailer is in good condition. He

proposed that the old generator be removed from the trailer and sold and in turn mount the new club generator in its place. As Ken had asked to find a home for the trailer, his wife Diane would like that section of their back yard vacated. Tom at the Red Cross mentioned possibly storing the trailer at the Red Cross but there is no fence or security. IF you possibly have a side yard or space available please contact a member of the board and let them know that you can help.

- **OCARC equipment** inventory will be completed shortly
- **Portables in the Park – April 23rd, 2011 at Jeffrey Park in Irvine.** Jeff Hall W6UX has worked hard to put this together.
- **Bob AF6C** suggestions for a class to create a kit building project – ideas were for PSK31 kit, field strength meter, code practice oscillator or direction finding antenna. The one concern was the cost of a kit. Discussion is still open.
- **Steve N1AB** suggested that after Labor Day we have a Drive In Mobile Antenna program. Members and Guests open their vehicles and show off installations and antennas. The plan is in the works.
- **FACEBOOK & Twitter** - Kristin K6PEQ has updated Facebook with a link to W6ZE website and Jeff Hall W6UX will set up Twitter.
- George N6VNI and Ken W6HHC will handle the bank cards after the meeting today.

NEW BUSINESS

- **Orange County Fair** – Kristin K6PEQ has requested two days for OCARC and we hope to be in a new building with a 20 foot booth.
- The club has ordered 12 new mugs and Kristin will pick them up from Cheryl in Visalia.
- Field Day shirts are available on the ARRL website.

GOOD OF THE CLUB - Bob AF6C will follow up on updates to the W6ZE website.

Motion made to adjourn meeting by Dan N6PEQ and seconded by Larry K6YUI. Meeting adjourned at 9:10 AM

Respectfully submitted: **Kristine Jacob KC6TOD**, on behalf of Doug Britton W6FKX



Memorial Day Special Event Stations

Commemorating Memorial Day

May 28-May 30, 1500Z-2200Z, W0FSB, Waterloo, IA. Five Sullivan Brothers Amateur Radio Club. 21.240 14.240 7.240. Certificate & QSL. Five Sullivan Brothers ARC, 4015 Independence Ave, Waterloo, IA 50704. t-mc-nulty@msn.com

Memorial Day

May 30, 1500Z-2245Z, W5KID, Baton Rouge, LA. Baton Rouge and USS Kidd Amateur Radio Clubs. Gen class bands CW in QRP freqs 20 m SSB 40 m CW preferred other bands possible. QSL. W5KID, 305 S River Dr, Baton Rouge, LA 70802. lsu.edu/brarc/uss_kidd.htm

2011 ARRL CONTEST SCHEDULE

JUNE

June VHF QSO Party: Second full weekend in June, 1800 UTC Saturday through 0259 UTC Monday.

Field Day: Fourth full weekend in June, 1800 UTC Saturday through 2059 UTC Sunday.

JULY

IARU HF World Championships: The second full weekend of July, 1200 UTC Saturday through 1159 UTC Sunday.

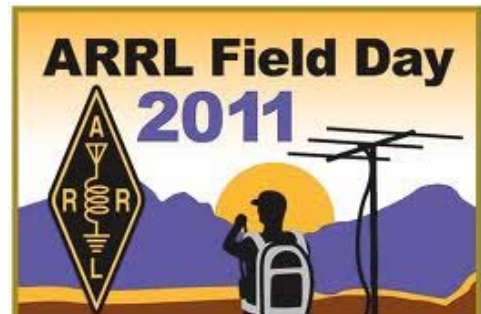
AUGUST

August UHF Contest: First full weekend of August, 1800 UTC Saturday through 1759 UTC Sunday.

10 GHz & Up Contest - Leg 1: Third full weekend of August, 6:00AM local time Saturday through 11:59pm local time Sunday.

Rookie Roundup: Third Sunday, 1800 UTC through 2359 UTC.

**OCARC
2011 Field Day Update
June 25 – 26, 2011**



The following is a copy of the agenda planned for the May 14, 2011 Field Day Band Captain meeting.

Personnel Status

FD Organizer/15m Band Captain
FD Organizer
6m/2m/70cm Band Captain
20m Phone Band Captains
20m CW Band Captain
40m Band Captain
80m/10m Band Captains
GOTA Station Captain

Jeff Hall W6UX
Doug Britton W6FKX
Robbie Robinson KB6CJZ
Bob Eckweiler AF6C & Ken Konechy W6HHC
Paul Gussow W6GMU
Tim Goeppinger K6GEP
Carl Flint N8AE & Dee Flint N8UZE
Steve Brody N1AB

Old Business

- Towers and Antennas (identify each station antenna planned)
- Station shelters (tents, EZ-ups; who has what, and who needs what?)
- Band pass filters (AF6C – have we located them?)
- **Field Day Bonus Point Coordinator needed**

New Business

- Food Czar – Doug Britton W6FKX to set up catered BBQ, Subway order, and pizza order; Kris Cutting W6KJC to pick up Subway Sandwiches, and organize Sunday Breakfast same as last year (thanks!)
 - Friday BBQ (catered)
 - Saturday lunch – subs
 - Saturday dinner – pizza
 - Sunday breakfast – McDonalds and Starbucks (must be pre-ordered!)
- Equipment available from George Jacob, N6VNI
 - 6' tables, Ice chests, EZ-up?
- Walter Knott field will be available @ 11:00 AM Friday (confirmed)
- Johnson Matchbox for 40m antenna available from Chip (Tim please confirm)
- Yagi/40' mast available for 15m station (Brett please confirm)
- ARRL GOTA article – good advice for training newbies!
- Generators
 - Should we bring two (one for backup)? Rent or use the club generators?
 - How many feet of power cable do we have (Ken??)
- U-Haul rental (Thurs – Sun) again for towers this year. Carl N8AE will drive.
- Discuss preliminary antenna layout to minimize interference; verify we have enough cabling