



# RF



## ORANGE COUNTY AMATEUR RADIO CLUB, INC.

VOL. LII NO. 1

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

January 2011

### The Prez Sez.....

By Paul W6GMU



### Happy New Year!

Welcome to a new year that promises to be truly amazing. Propagation continues to spike up sporadically and may, through the appearance of the long-awaited plethora of sun-spots, register an ever-increasing SFI number. Personally, I still dream of the day when the purpose of the 10M bandswitch position will become obvious.

I believe, from all I've heard, that all attendees at our Holiday Party had a great time. I know I sure did! Kudos to The Jaegerhaus Restaurant for do-

their outstanding food and hospitality.

This year, I hope to expand, in a modest way, the number of Club activities and to broaden the Club's appeal to many Amateurs. Several ideas along those lines were discussed at our January 2011 board meeting and, as a result, OCARC is now officially on Facebook, thanks to Kristen Dankert, K6PEQ. Great job!!

Please enjoy our fine club. I'm proud to lead us through 2011 and am humbled by the great honor that has been bestowed upon me. 73, Paul W6GMU



### OCARC 2011 Dues

#### It's Dues Time:

It is 2011, and that means that it's time to renew your club dues. You have through March 2011 to pay your dues without falling in arrears. Don't miss out on the events

planned by our new Board.

Have you paid YOUR dues already? Please visit our Membership webpage to check. If something seems incorrect, please email the 2011 Treasurer and Membership Chairman and we will investigate the situation.

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The next general meeting will be on:

**Friday, Jan. 21st  
@ 7:00 PM**

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

The speaker for the Jan. 21<sup>st</sup> Meeting will be announced on the OCARC website.

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

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.

## Heathkit of the Month #25: by Bob Eckweiler, AF6C

# Heathkit

### Heathkit AT-1 Introductory CW Ham Transmitter

#### Introduction:

We briefly touched on this Heathkit back when the DX-40 was covered (see the April 2008 *RF* - HoM #3). However, the AT-1 was the first ham transmitter offered by Heathkit and deserves an article of its own.

Heathkit introduced the AT-1 in 1951 when ham radio was in a simpler time. This coincided with the FCC implementing a new ham radio licensing structure which included a new introductory class, the Novice. Novices were allowed privileges in small CW segments of the 80 and 11 meter ham bands. They could run up to 75 watts input power but the transmitter had to be crystal controlled. The AT-1 is shown in figure 1 as it appeared in a 1951 Heathkit flyer.

The AT-1 offered an inexpensive transmitter for the novice that could allow him or her to use

additional features after upgrading to a higher license. The three tube AT-1 ran 35 watts input, CW only with crystal control. The AT-1 did have connections for an external VFO and an AM modulator. Heathkit introduced the VF-1 VFO in 1952, but never offered a modulator, per say. The AT-1 sold for \$29.50.

#### Circuit Description:

The AT-1 circuit consists of three sections, the power supply, an oscillator - multiplier section and the output amplifier - doubler section; each uses one tube. A schematic of the AT-1 is shown in figure 2.

The transformer power supply section uses a 5U4GB rectifier tube in a simple full-wave, capacitor - choke - capacitor circuit. The transformer provides 860 volts AC center tapped, 5 VAC for the rectifier filament and 6.3 VAC for the other two tube filaments and the accessory socket. Each filter capacitor provides 4  $\mu$ F by series connected 8  $\mu$ F capacitors. A pair of series bleeder resistors complete the supply. The standby switch opens the secondary HV center tap lead to remove voltage from the oscillator and amplifier when receiving.

The oscillator uses a 6AG7 metal octal pentode as a grid-plate Colpitts crystal oscillator. The

**Heathkit AMATEUR TRANSMITTER KIT**

Here is the latest Heathkit addition to the ham radio field, the AT-1 Transmitter Kit, incorporating many desirable design features at the lowest possible dollar-per-watts price. Panel mounted crystal socket, stand by switch, key click filter, AC line filtering, good shielding, etc. VFO or crystal excitation — up to 35 watts input — single knob band switching — pre-wound coils — built-in power supply, 52 ohm coaxial output, all represent outstanding Heathkit features. Built-in power supply provides 425 volts at 100 ma. Amazingly low kit price includes all circuit components, tubes, cabinet, punched chassis, and detailed construction manual. (Crystal not supplied.)

**NEW HEATHKIT ANTENNA COUPLER** specially designed for the Heathkit AT-1 Transmitter. Can be used with any 52 ohm coaxial input — up to 75 watts power. Low pass filter with a cut-off frequency of approximately 36 mc — L section tuning network — neon tuning indicator — rugged compact construction — transmitter type variable condenser and high Q coil are featured. The AC-1 has both inductance and capacity tuning for maximum operating versatility. Shipping wt. 3 lbs., cabinet 8 1/8" wide x 4 3/8" high x 4 7/8" deep. **\$14.50**

SPECIFICATIONS	
Range.....	80, 40, 20, 15, 11, 10 meters
6AG7.....	Oscillator multiplier
6L6.....	Amplifier doubler
5U4G.....	Rectifier
105-125 volts AC 50/60 cycles 100 watts	
Dimensions.....	8 1/8" high x 13 1/8" wide x 7" deep

**MODEL AT-1**  
**\$29.50**  
SHIP. WT. 16 LBS.

Figure 1 - Ad from 1951 Heathkit Flyer



plate circuit can be either untuned or tuned and when tuned the stage may operate as a multiplier. The frequency of the crystal used depends upon band as shown in Table 1.

Freq.	Xtal Range		Band	Osc.	Multiplier	
Band	Low	High	Sw.	Out	Osc.	Amp.
80 M	3500	4000.0	80 M	3500	x1	x1
40 M	3500	3650.0	40 M	3500	x1	x2
20 M	3500	3587.5	20 M	7000	x2	x2
20 M	7000	7175.0	20 M	7000	x1	x2
15 M	5250	5362.5	10 M	10500	x2	x2
11 M	6740	6807.5	10 M	13480	x2	x2
10 M	3500	3712.5	10 M	14000	x4	x2
10 M	7000	4000.0	10 M	14000	x2	x2
10 M	14000	14850.5	10 M	14000	x1	x2
Band in Meters (M) – Others in KCPS [kHz]						
Table 1 – AT-1 Freq. Multiplier Chart						

The amplifier stage uses a 6L6 metal octal tube. On 80 meters it runs straight through and on the other bands, depending on the crystal used acts either as a doubler or runs straight through. The output stage does not offer a Pi-network, which is not yet well known; instead it is link coupled and loading for best output requires an antenna tuner, such as the AC-1 (see the Feb 2009 *RF* - HoM #13). Though the ad says 35 watts input, the Heathkit manual more realistically specifies the AT-1's input power at 25 - 30 watts.

#### TVI:

Television was finding its way into homes in the early fifties and TVI became a dilemma for many hams. The AT-1 took a series of precautions to help prevent TVI. The AC power line leads were bypassed, shielding was used throughout the AT-1 and the manual included a chapter on TVI including how to build a low pass filter for the transmitter, a high-pass filter for the TV and an RF line filter for the AC line.

#### Controls:

The T-1 is simple to operate. The front panel is laid out in three rows. The top row just has a basic meter that measures grid or plate current. The second row has the **Driver** tuning control (0 - 10), the **Band Switch** (80M - 40M - 20M - 10M) (the 10M position is also used for 11 and 15 meters), and the **Output** tuning control (0 - 10). The third row has the Crystal socket, power **OFF - ON**, meter switch marked **Current (Grid - Plate)**, **Plate-on - Standby** switch, and a 1/4" **Key** jack.

On the rear, left to right is an octal socket for an external modulator, the power line cord, an SO-239 antenna connector and a second octal socket for an external VFO. The modulator socket requires an external octal plug that shorts pins 3 and 4 for normal operation when no modulator is in use.

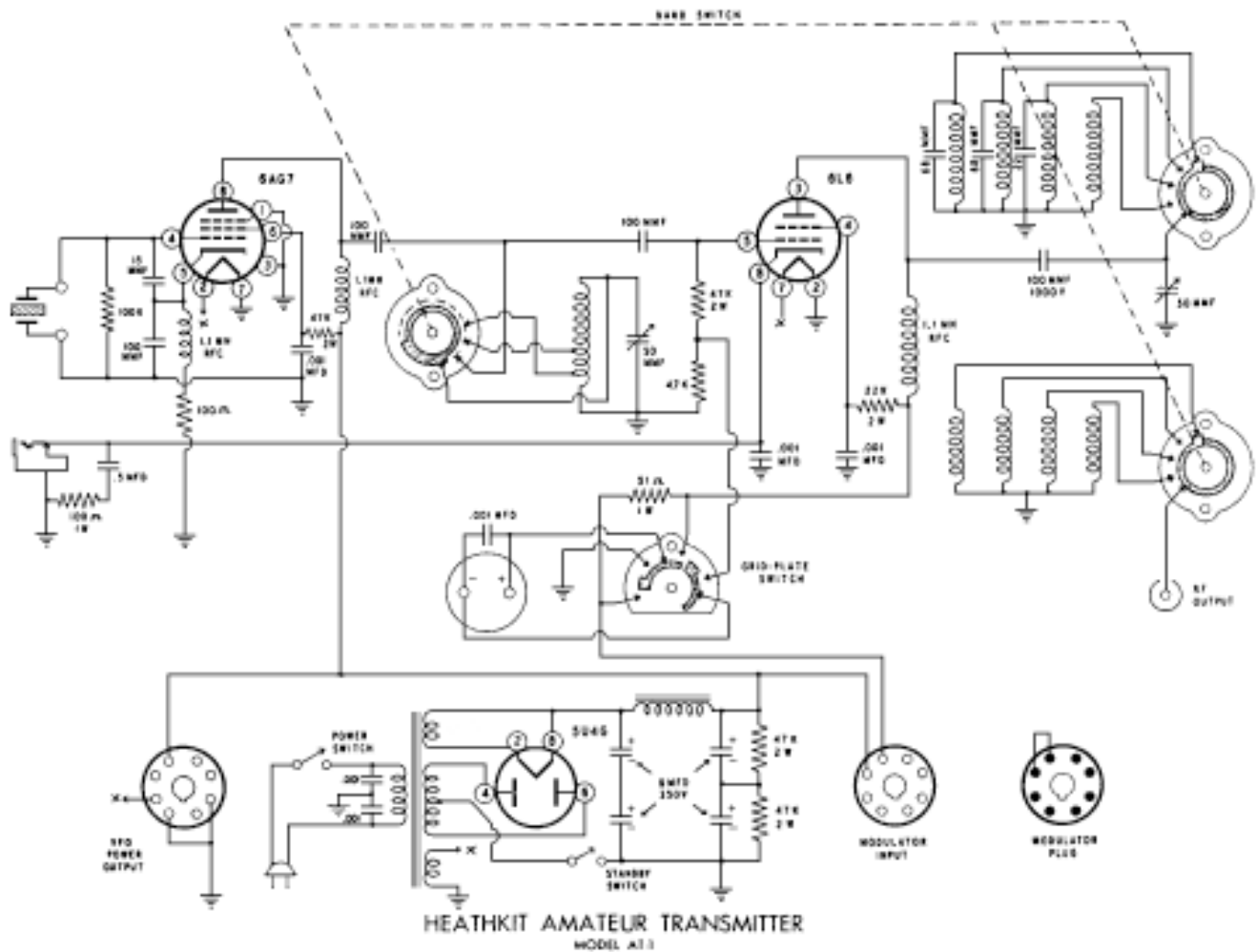
#### AT-1 Specifications

RF Amp Power Input .....	25 - 30 watts
Output Connection .....	52 ohm Coaxial Cable
Oscillator Operation .....	Crystal (VFO can be used)
Band Coverage .....	80, 40, 20, 15, 11, 10 Meters
Tube Complement	
5U4G .....	Rectifier
6AG7 .....	Oscillator - Multiplier
6L6 .....	Amplifier - Doubler
Power Requirements .....	105-125V 50/60 Cycle, 100W
Cabinet Size .....	8-1/8"H x 13-1/8"W x 7"D
Net Weight .....	13 lbs.

#### Conclusion:

The Heathkit AT-1 was manufactured through 1956. By then the higher power DX-100 (see the Sept. 2008 *RF* - HoM #8) had become very popular with advanced hams and bred the DX-20 and DX-35 as replacements for the AT-1.

Many new hams, starting as Novices in the early fifties, used the AT-1 as their first transmitter. The AT-1 can still be found on eBay. They sell on the average of \$100 each in prime shape and a collector grade unit can go for over \$300. Ones in less than prime shape can be had for under \$30.



Heathkit AT-1 Ham Transmitter Schematic Diagram

**New** **Heathkit SUMMER FLYER**

**HEATHKIT Dual RECORD PLAYER KIT**  
MODEL RP-1  
**\$59.50**  
SHIPPING WT. 30 LBS.

**THE NEW HEATHKIT DUAL RECORD KIT... OFFERING AN ENTIRELY NEW CONCEPT OF RECORDED MUSIC REPRODUCTION**

Here is a new introduction to quality record reproduction, a simple to operate compact, table top model with none of the specialized vacuum tube circuitry usually associated with high fidelity systems. The entire unit can be easily stored from living room to recreation room, porch, etc. Two matched electrostatic speakers mounted in an acoustically correct enclosure reproduce all of the music on the record, musical reproduction with the unique sensation of being in a hall-like source of recorded sound. This spectacular characteristic is possible only because of the different non-directional properties of the matched dual speakers. The Heathkit Dual makes listening to live musical music a relaxing new experience. Storage capacity over 1000 records of music at all levels throughout the usual system. The performance level is vastly superior to the ordinary phonograph or record player. Many more times the type of the Dual.

The world famous VM 750-Matic record changer plays all sizes record sizes at all three speeds. Automatic chord and auto change and auto stop after the last record is played. A wide range range control allows an ingenious turn-under twin tape-slip switch for LP or 78 records without touching the cartridge.

Included easy to assemble four tube amplifier features compensated volume control and separate tone control. Precision integrated static covered volume control supplied complete assembly. You build only the amplifier from step-by-step instructions. No specialized tools or knowledge required as full instructions are given in the fact that most portions of the kit and manual are supplied in a single volume. The complete manual has been simplified to the point where even the complete novice can successfully construct the Heathkit Dual without difficulty. The price of the Heathkit Dual includes cabinet, VM 750-Matic record changer, 512" speakers, tubes, and all circuit components required for amplifier construction.

**Now Heathkit 20 watt AMPLIFIER KIT. . . . . Page 2**

- Plays all record sizes, all speeds.
- Newly developed ceramic cartridge.
- Automatic shutoff for changer and amplifier.
- Acoustically correct cabinet enclosure.
- Attractive modern styling.
- Two Matched Speakers.
- Easy to assemble.
- Compensated Volume Control.

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 - AF6C*

## Upcoming OCARC Events!

### **GET READY FOR PORTABLES IN THE PARK 2011!**

W6ZE is excited to announce a series of portable operating events for 2011. Our November 2010 event was a lot of fun and a great way to experience how to get a radio up and running on solar and battery power. This year we plan to hold events in April, August and October. Our first event is scheduled for **Saturday, April 23rd, 2011** (on the weekend following the International DX Convention and Baker To Vegas events). This is the perfect opportunity to try out that new antenna you've been working on for Field Day or to dust off your old portable equipment to make sure it's still in good working order. There is no substitute for getting on the air and these events aim to educate those new to portable operating. See how it's done, ask questions, do some operating, then build your own portable station and bring it out to a future event! Members will be able to operate their mode of choice including SSB, CW and perhaps Digital in a relaxing, NO PRESSURE atmosphere (don't be mic shy!). The location will be determined in the coming weeks so stay tuned for further information. Start working on your portable station and bring it out this Spring!

### **BE SURE TO MARK SATURDAY, APRIL 23, 2011 ON YOUR CALENDAR!**

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#### A MESSAGE FROM GEORGE T. JACOB Jr, N6VNI, OUR NEW VICE PRESIDENT:

***To all my fellow members of the Orange County Amateur Radio Club.***

***This message is going to be short and sweet, since I am the new guy on the board. Some of you have been here before, but I am truly a new face on the board.***

***I am honored and pleased to be your new Vice President for the upcoming year, 2011. I will do everything the job requires of me to make 2011 as successful as years gone by. With your help and input this can be done. So when you can, step up to the plate and help out, and remember this, "OCARC is our club, yours and mine, so get involved."***

***Best of 73 to all.  
De  
George T. Jacob Jr. N6VNI  
OCARC Vice President.***

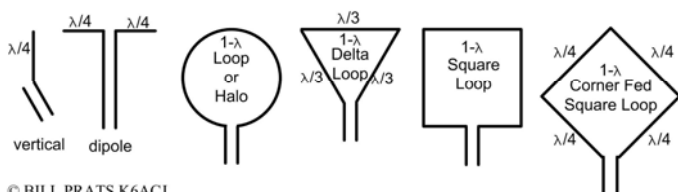
# BUILDING A 40 METER SQUARE LOOP ANTENNA

*by Bill Prats K6ACJ*

## Palm Springs Desert RATS Amateur Radio Club

Building this antenna at a desert camp-out and picnic was a Desert RATS Club project organized by myself and Peter VE7REZ/W6 club president and erected by five club members somewhere south west of the Salton Sea in BLM Land. There are many reasons for an antenna of this size, our objective was to create a club project by building a high performance antenna for the weekend campout. What better way to measure success than to operate 2 watts CW and SSB on 40, 20 and 17 meters, I am still smiling.

BASIC ANTENNA CONFIGURATIONS



© BILL PRATS K6ACJ

Detailed information for configuration and electrical properties are found in the ARRL Antenna Book, The ARRL Handbook and L.E. Cebik web site at <http://www.cebik.com/>. Use free EZNEC software to model properties and Radiation patterns at <http://www.eznec.com/>.

Due to the detail and available space, I'll jump directly into describing the construction of this large loop antenna which also provides building techniques for other antenna construction projects. Preparation and team work is important because you will want to use the antenna while time allows. The bases for the antenna are the popular green metal and fiberglass military tent poles. Each of us purchased 1 complete military pole package containing 12 poles each with various accessories but a total of 24 poles are needed for a 4 square antenna. Some of the odd plastic accessories were machined into guy rings and lanyard supports. At home and in advance, prepare making the masts, collecting rope for the guys and lanyards, mill the guy rings, and purchase the pulleys and stakes. In addition assemble a collection of tools (some are

listed below) to complete the field installation. Obtain a balanced line tuner and make sure necessary internal or external jumpers are installed for the antenna balun. Also check the tuner shaft set screws and make all repairs in advance. The old balanced line tuners might have more wear and tear than expected. Our loop was erected on Bureau of Land Management land south west of the Salton Sea where motorcycles race in the hills so mark the antenna perimeter with cones and 'caution' tape so a stray biker doesn't get tangled in the guys ropes. Expect to have a visit from a BLM officer or the local Marshall and be ready to demonstrate that you understand safety issues. The antenna location should be far off to the unused side of the off road area so there is little exposure to others in the area.

Safety First, Plan ahead. This is a large antenna that must stand up against the desert wind.

The Loop was fed from the corner so the opposite corner was directed North, North East for good coverage to eastern populated areas and possibly Europe.

Mast sections are 48" long and 1-3/4" OD. There are two versions of the popular Military Fiberglass Masts, the fiberglass sections of the old version are noticeably heavier and have a large reinforcing ring at the large end of the section while the newer version sections are a little lighter and do not have the large reinforcing ring at the large end. For this reason, ADD one or two 2" radiator clamps at the large end of each mast for added support.

### Parts List:

- Radiator Loop: #12 or #14 stranded copper wire cut to 9005/f length in feet (7,100 kHz)
- Balanced feed line. We had 300 ohm line.
- Balanced Line Tuner or Unbalanced Tuner plus 1:1 balun 2KW rated. This is an important component, don't skimp.
- Feed Line/Radiator Termination board
- 6 Military mast sections for each of 4 masts. Overall mast height is 22.5 feet.
- 4 Guy Rings with extensions to support the pulley & lanyards to raise the antenna wire.
- Black Dacron / Nylon rope 3/16 or 1/4 inch diameter for guys and lanyards
- 4 x 1 inch quality pulleys

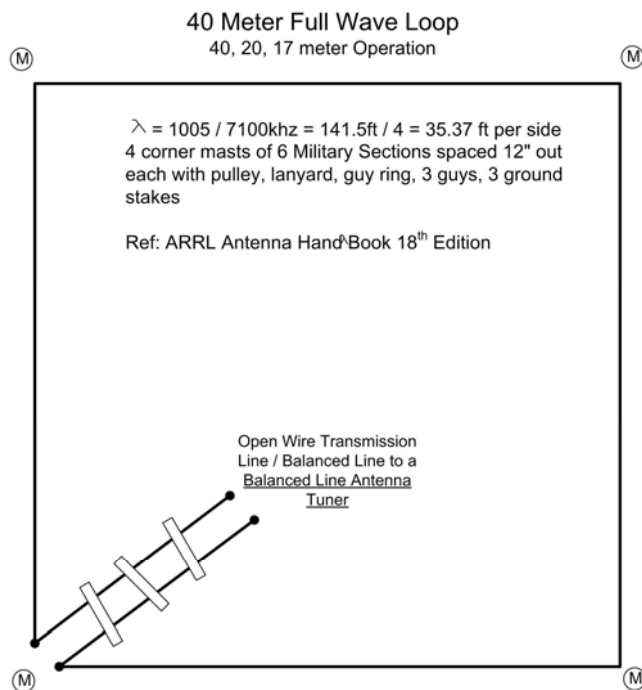


- 12 long heavy duty ground stacks
- 24 clamps for the guy lines at the top and bottom. If you know knots then the number of clamps can be reduced.

HINT: There are large voltage or current nodes at the feed point, Crimp then solder using a propane torch. A good job here is essential for mechanical strength and electrical conduction.

### Tool List:

- Large hammer or a small axe to drive the stakes into the ground
- Large shovel and a block of wood to act as a lever for removing the ground stakes
- Propane soldering torch with solder and solder flux
- Measuring Tape, as long as possible.
- Soldering Tools and extra hardware
- Compass, Table, chairs, hats and lots of beer

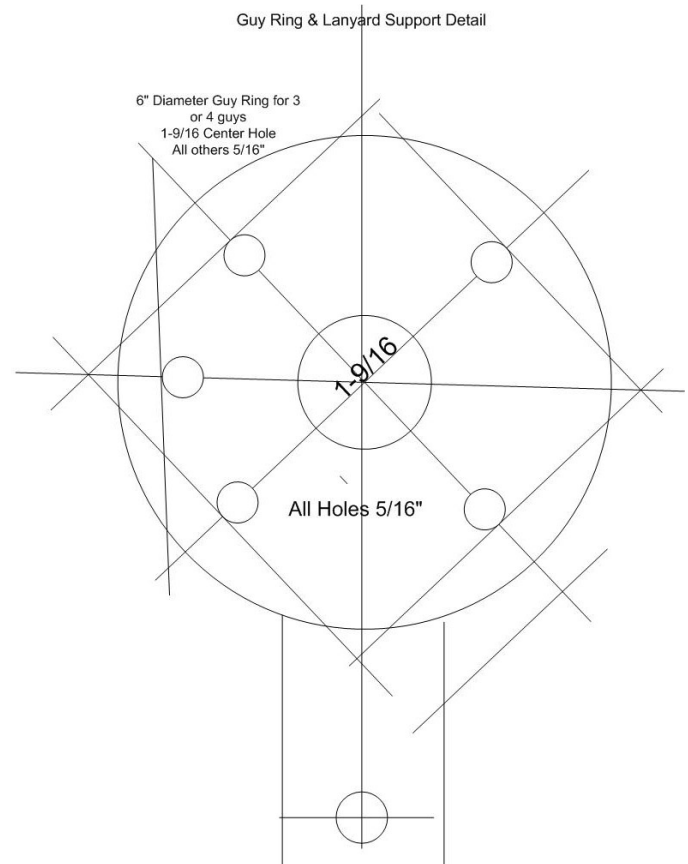


M = Mast

Loop Radiator:  $9005/f$  wave length in feet (7,100 kHz).  $\frac{1}{4}$  wave length per each of 4 sides.

Calculate Guy Rope Length and angles  
<http://www.csgnetwork.com/righttricalc.html>

The masts are located 10-12 inches out from the loop antenna corners. For our purposes, the feed line attachment point is at a corner with the opposite corner pointed NE.



Full Size Template is available from K6ACJ



Locate a large open space. This happens to be on the edge of the BLM land near the Salton Sea. Stay clear of all Off Road Vehicle traffic. Use Orange Safety cones and Yellow Caution Tape to mark off the area.





Guy Ring and Lanyard Support Ring Detail. The hole pattern is for either 3 guy ropes or 4 guy ropes. Chamfer the holes to prevent chafing the ropes.



The guy rings were cut from the mast paddles on the right. The 6" x 1-1/2" wood dowel retains the ring when the ring is placed at the top of the mast.



The feed point support is made from the remainder of the green plastic mast paddles. The center support provides strain relieve to the radiator and the feed line. Termination is soldered into stout ring connectors on 8x32 SS hardware.



Peter VE7REZ/W6 is shown measuring the mounting position for each of four masts and measuring the final cut on the guy ropes down from the top of each mast. Each mast is supported at the bottom in a hole in the ground roughly 10 inches deep then with one person on each of the 3 guy lines the mast is pulled up into position and staked down. Expect the desert floor to be rock hard but the advantage is that it firmly holds the mast and ground stakes.



The first two masts are up, two more to go. The small end of each mast sits in a 10 inch hole. Guy ropes are secured with very large tent stakes pounded into the hard earth



Attached at a corner mast, the feed line details show the lanyard pulley attached to the feed line / loop support.



More Guy Ring and lanyard detail



5 hours in the field and the 40 meter square loop is complete. For Safety, orange cones placed around the perimeter and long streamers on the guys mark the antenna location. Yellow 'Caution Tape' is recommended. After sunset flashing lights were added to the masts to make the antenna perimeter visible.





Bill K6ACJ

Time to play radio but note many tuners have input for unbalanced and balanced feed lines. Make sure internal or external jumpers are installed for 'balanced feed line input'. Peak the balanced tuner on the band of choice and begin operation. Performance was excellent as measured by the number and quality of 2 watt QRP contacts. Here we are using a Kenwood TS-2000 at 100 watts into a vintage balanced line tuner. The 40 meter loop easily tuned across 40 meters, 20 meters and 17 meters. We were having so much fun that we did not try operating on other bands.



Bill K6ACJ

Busy hams are Happy hams. Lots of fun for everyone and the deep fried turkey and hot tamales for lunch and dinner made this Radio Picnic a real Winner. All of us hope to do this again.

Bill Prats K6ACJ, ARRL ACC Orange Section, Desert RATS, SOARA, HFPack, HBRACES, ARC

## 20 Suggestions for Emergency Preparedness

The following is a list of the ideas and suggestions I have accumulated over the years from various sources. I give thanks to the contributors; I think these may be helpful to others.

73, Corey KE6YHX

- Make a list of all the items needed in an evacuation.
- Make a list of the steps to take in specific types of emergencies to which your area is susceptible, along with the phone numbers of the gas and power companies.
- Make waterproof luggage tags for all bags, purses, and suitcases.
- Make a list of the serial numbers of all equipment, copy it and keep it in safe places.
- Use a copier to copy all ID, credit, gas, library and membership cards carried and put in the important documents bag.
- Do not have colloquial names in your cell phone in case of theft, but do mark several as "ICE" ("In Case of Emergency") in case of injury.
- Do not keep your home address on the car's GPS in case of theft; rather, use a location nearby.
- Keep an address and phone list of all relatives, neighbors and friends in a report binder, and in a location that is easily remembered and accessible.
- Keep important documents in appropriately-sized zip-top bags, and put them in a place easy to remember.
- Make spare keys to the house, cars and other important things, and keep it in a handbag or go-kit.
- Make a laminated red "X" and on the other side a green "X" to signal authorities in the home window.
- Keep a gas and water shutoff wrench in an easily accessible and remembered location and tape laminated usage instructions for each item.
- Secure all bookshelves with edge-rails or bungee cords in case of earthquake.
- Tape a flashlight to the side of the bed.
- Solar-powered flashlights are best for frequent use.
- Buy a high-ranging Geiger counter and/or dosimeter for nuclear or dirty-bomb incidents and test bi-monthly.
- Attach a garment-hook outside the back door for a rain poncho to be used during fallout.
- Keep periodic tests and drills on the calendar.
- Keep a list of traffic-cameras for evacuation routes, and make a link to them on your web browser.
- Keep a large supply of bottled water in PET plastic containers (the cloudy bottles deteriorate) and cycle through it.



## **December 10, 2010 O.C.A.R.C Christmas Party**

The OCARC Christmas Party was held at the JägerHaus Restaurant, 2525 E. Ball Road, Anaheim, CA. We had fifty-three guests present to enjoy the marvelous German family style meal. Everyone enjoyed dining together with so many friends and partaking of the marvelous food. After the meal was finished, the changing of the guard ceremony saw outgoing President Kristin K6PEQ passing the gavel to the new President, Paul W6GMU. Paul then presented a plaque to Kristin K6PEQ for her outstanding service to the club for 2010.

The Holiday Raffle then topped off the evening, spreading holiday cheer to a myriad of the partygoers.

After being introduced, the new name badges of the club officers for 2011 were presented to:

Vice President – George N6VNI

Treasurer – Ken W6HHC

Secretary – Doug W6FKX

Activities – Kristin K6PEQ

Membership – Jeff W6UX

Publicity – Steve N1AB

Technical – Bob AF6C

Director-at-Large – Dan N6PEQ

Director-at-Large – Larry K6YUI

Please see here below some selected Holiday Party action shots:



Ernie, N6HY wins hole-making opportunity!



MANY happy party-goers!!



And more!



And yet More!!



WOW!!!!



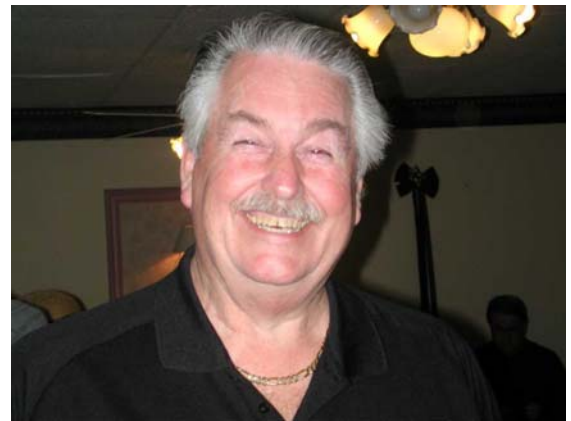
Soon, the Opportunity Drawing”!



Kristin K6PEQ with her 2010 Service Plaque.



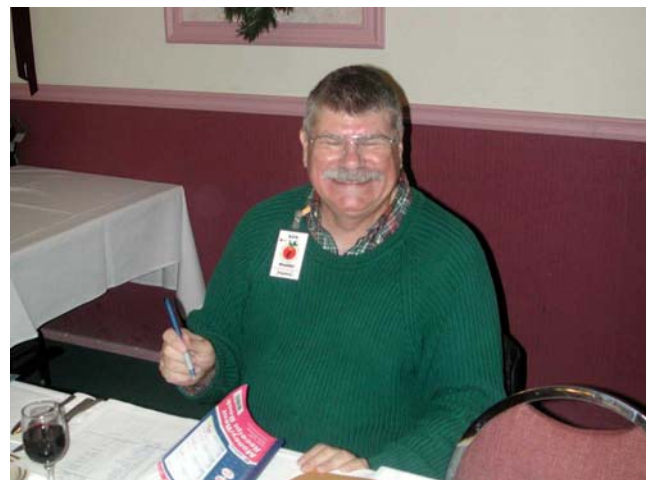
Doug W6FKX receives the  
“Good of the Club” award.



Hank W6HTW – Now THAT’S happy!!



Tim K6GEP – The Grand Prize Winner



Our VERY happy Treasurer, Ken W6HHC looking for MORE Treasure! “Checks, please!!” Note \$Green\$ sweater, pen & receipt book at the ready!!





Larry K6YUI designating "Opportunity" targets.



Santa Claus (i.e., Dan N6PEQ)



Sharon K6IRD browsing the Ladies' prizes.



JägerHaus's Sandy, our congenial Hostess.



So many red shirts....hmmmmmm.



All-American Prizes! Lovely!!



**Member Spotlight: Dan Dankert, N6PEQ**

Dan has been involved in Ham Radio since the 1970s. "My Grandfather (W6RII - now a silent key) first introduced me to radio when I was 3 or 4 years old back in 1974. He let me talk on his Drake transmitter back in those days. I was amazed at being able to listen to signals coming from all parts of the globe. In fact, I still have the Hallicrafters SX-96 receiver that he gave to me for listening at my home. Thanks to Wayne Spring W6IRD, it is in good working order. My father (N6EGC) is also licensed, but is no longer active in the hobby. I used to operate DX & contests with my father and grandfather. After many years, I finally decided to get my ham ticket back in 1986."

As Dan's experience grew in the 80s and 90s he became an avid contester -- his favorite competitions being the November Sweepstakes, the ARRL 10 meter contest and the IARU Radio Sport, CQ World Wide and the ARRL International DX Contest. These days you'll primarily hear him chasing DX on the HF bands, both CW and SSB. In fact, he only needs 2 more DXCC countries to have worked them all! Not only does he like to chase DX, he likes to be the DX, having operated from over 20 DXCC countries. He and wife Kristin, K6PEQ often attend the International DX Convention in Visalia.

So how does one rack up almost every DXCC country? Well you just need a few pieces of gear (hi hi!):





### The equipment:

- HF Station "A": Icom IC-7800 Transceiver, Kenwood SM-230 Station Monitor & Alpha 87A Amplifier
- HF Station "B": Icom IC-7800 Transceiver, SM-230 Station Monitor, Alpha 77SX Amplifier & Alpha 9500 Amplifier
- Receiving Stations: Icom IC-R9500 Receiver & Icom IC-R71A Receiver
- Other HF Transceivers: Yaesu FT-817 & IC-7000
- HF Antenna System:
- 10 Meters: 7 Element Wide-Spaced Monoband Yagi
- 12 Meters: 2 Element Monoband Yagi
- 15 Meters: 4 Element Wide-Spaced Monoband Yagi
- 17 Meters: 2 Element Monoband Yagi
- 20 Meters: 3 Element Wide-Spaced Monoband Yagi
- 30 Meters: 2 Element Monoband Yagi
- 40 Meters: 2 Element Wide-Spaced Monoband Yagi
- 60 Meters: Sloper
- 80 Meters: Rotatable Dipole
- 160 Meters: Sloper

Dan got involved with OCARC back around 1980, attending club meetings with his father. "It was (and still is) a great club!"

*If you'd like to be featured in an upcoming issue of RF Newsletter, please contact Jeff, W6UX: [w6ux@w6ze.org](mailto:w6ux@w6ze.org)*



## Renew Your OCARC Membership

It's that time of the year again. Time to renew your OCARC membership for 2011, if you have not already done so.

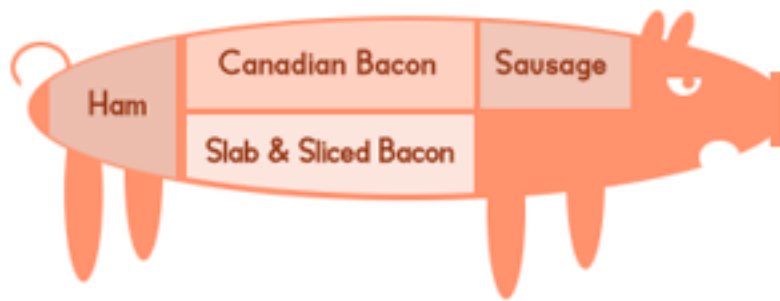
Help continue to support your growing club. There are many entertaining monthly meetings, speakers and events planned for this year. But it can't happen without your support for OCARC.

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





## Ham Cuisine

*by Kristin, K6PEQ*

### Blackeyed Peas & Ham

Blackeyed peas have long been a tradition for the New Year's table. They supposedly bring good luck for the coming year, and eating them shows "humility". Some Southerners have been rumored to eat one pea for each day of the year to insure good fortune! They are a humble food, therefore, eating them represents humility. They make a nice side dish served with cornbread, ham and greens.

#### Ingredients:

1 pound dried blackeyed peas  
□ 2 ham hocks or a ham bone with ham left on it  
□ Pepper to taste □  
onions, sliced □  
hot sauce

#### Cooking Directions:

Place the ham bones or hocks in a crockpot, add the peas after they have been rinsed (but not soaked), and cover with water completely. Cook all day on low, or 4 or 5 hours on high. Crockpots vary, so keep checking. You may need to add more water. Stir a couple of times while checking. Season with pepper and serve with slices of onion and hot sauce-a smooth cayenne variety.



## Attention Members!!!

Do you know a fellow ham that would be interested in joining OCARC? Do you have a friend that is curious about ham radio and wants to learn more about our hobby? Why not invite him or her to one of our exciting monthly meetings?!?! The meetings are fun, informative and entertaining. Check out the upcoming events page in this newsletter to see the exciting speakers we have lined up for the next couple of months. Don't forget about the great raffle prizes too. So bring a visitor to one of our meetings, and help **your** club expand!

Make sure to inform your friends of our club's website, which is always kept up to date. Information on club meetings, activities and our newsletter archive make it a worthwhile site to surf! <http://www.w6ze.org>

**OCARC Board Meeting Minutes for: January 08, 2011**

The OCARC Board meeting was held at the JägerHaus Restaurant, 2525 East Ball Road, Anaheim, and called to order by Paul Gussow W6GMU at 8:15AM Saturday, January 08, 2011. There were a total of 8 directors and 1 visitor – Kristine Jacob KC6TOD. There was a quorum with the directors' present.

**DIRECTOR REPORTS:**

- Vice President George Jacob N6VNI - the calendar for speakers is filled for January, February and April and is working on filling the March date.
- Treasurer Ken Konechy W6HHC – Balance on hand \$5666.00. Audit committee to meet following the board meeting to review clubs 2010 financial report.
- Secretary Doug Britton W6FKX – nothing to report, asked for clarification of office duties. Ken Konechy had brought copies of the clubs constitution, which outlined the duties of each officer for distribution to each of the club board members. Ken and Kristin also pointed out the club's constitution is on the OCARC website for review as well.
- Activities Kristin Dankert K6PEQ – club potluck to be scheduled in March and brought up the possibility of continuing the successful “portables in the park” event.
- Membership Jeff Hall W6UX – as a new officer, also asked for clarification of office duties, will assemble the list of club members. Offered to continue “portables in the park” events and suggested some possible dates (April 23 as the 1<sup>st</sup> event of 2011). Jeff also suggested having a regular submittal in the clubs newsletter featuring the amateur radio history and interests of a different club member each month; Jeff supplied a draft questionnaire to be sent to club members interested in being featured.
- Publicity Steve Brody N1AB – Steve suggested that he would like to communicate directly with local high school science clubs, inviting them to our monthly meetings to spur interest in young people in amateur radio, requested funds for mailings. Kristin suggested Email as well and also offered to set up a club Facebook page promoting the club. Steve brought up a possible event as had been featured in the latest QST magazine; a mobile ham radio “drive-in.” An event featuring the club member's mobile installations for other to view; like a car show. Kristin suggested that perhaps this could be one of the monthly club meetings when sunset is later in the evening.
- Technical Bob Eckweiler AF6C – absent
- Directors-at-large – Dan Dankert N6PEQ - absent  
Larry Mallek K6YUI – no report.

**OLD BUSINESS:**

- **RF Newsletter “Rotating” Editors – thank you to all who volunteer!**
  - January – Paul W6GMU
  - February – Kristin K6PEQ
  - March – Ken W6HHC
  - April - Nicholas AF6CF
- **Christmas Party 2010 recap**
  - Successful event, plenty of food this year!
  - The board briefly discussed the option of alternate location for future club Christmas parties, but the current location does a great job of accommodating our group, and the food is enjoyed. Perhaps if alternate locations are found the issue could come up later in the year.
  - Kristin K6PEQ expressed appreciation for the donation of the women's baskets and liked that the Christmas party was attended by so many women!



- **Audit Committee**

The audit committee, composed of Ken Konechy W6HHC, Kristin Dankert K6PEQ, Kristine Jacob KC6TOD, and George Jacob N6VNI would be meeting following the board meeting to review the OCARC 2010 financial report. Report on the audit to be on the February agenda.

**NEW Business**

- **New Club Activities (note that some of these ideas entertained by the board have been presented in the director reports above)** – Portables in the park, first date April 23 and feature a member's involvement in amateur radio as a way to get to know our fellow club members in each club newsletter, see comments by Jeff above; Drive in mobile amateur radio event, see comments by Steve above; Bob Eckweiler AF6C has offered to develop a kit building class, date to be determined; George mentioned that the ARRL Southwestern Division Convention (HAMCON 2011) would be in Torrance this year (September 2011), he is the vendor coordinator for the event.
- **Bank Card** – Discussion was postponed, however it was discussed that the President, Vice President, and Treasurer would be the only individuals authorized to use the club bank card, new cards to reflect the 2011 director changes to be obtained and Kristin name to be removed.
- **Field Day 2011, first look** – George offered to coordinate with the school district that allowed the club to use the Walter Knot School site for the 2011 field day, he also suggested the club work on a back up location should the school site become unavailable. The board agreed that any secondary site be in Orange county, and have convenient access, to be further considered. Ken suggested that the field day chairperson, people, or committee be put together as the first step. Doug W6FKX agreed to assist again as a co-chair or to help as needed, however will not be able to attend field day this year. Jeff W6UX volunteered to be a band captain, band to be determined.
- **OCARC equipment inventory** – Paul requested an up to date equipment list of OCARC-owned equipment, thought the inventory list on the clubs website should be updated. George reminded the board that Nicholas AF6CF has access to the storage unit where most of the clubs equipment is stored and that he had recently checked the inventory. To be followed up on.

**GOOD OF THE CLUB** – Kristin proposed that the club prepare certificates of appreciation for the donors to the Christmas party as had been done in the past and will send Bob Eckweiler an Email requesting the certificates. Ken demonstrated an iPhone application that presents sunspot activity; the app is called "sunspot."

Motion made to adjourn meeting by Larry K6YUI and unanimously seconded.

Meeting adjourned 9:35AM

Respectfully submitted:

*Doug Britton W6FKX*, Secretary

The Desert Rats and the Palm Springs DX Club  
invite you to attend the 2nd annual \* \* \* \$1 admission with raffle ticket.

## HAMFEST - RAFFLE - WINTER FIELD DAY

Bring your ham gear to sell, no fee charged for selling if you bring own table and chairs. Maybe you only have one or 2 items for sale put it on our single items table with a sign and tell us your reserve price... (for a small commission to the club) ...we'll handle the sale.

Saturday,  
January 29  
9:30 A.M. to  
4:30 P.M.

**CHECK OUT OUR  
WEBSITE!**

<http://www.desertrats.am>



# HAMFEST!



### Winter Field Day 2011 Special Event Station

Email us for more info:  
Peter Reinzuch VE7REZ~President of 'the Desert RATS' Club  
[ve7rez@desertrats.am](mailto:ve7rez@desertrats.am)  
Evan DeRouen KI6WNF - EC Riverside County ARES  
[riversidecountyares@gmail.com](mailto:riversidecountyares@gmail.com)  
~Check ze Tweets @hamradio @RivCoARES

**Admission only \$1 includes 1 free raffle ticket!**

Talk-in frequency:  
146.940- PL 107.2  
WD6RAT Desert RATpeater  
Daily Nets Thursday thru Sat.  
8 A.M. - Noon - 6 P.M.

#### Directions:

Take I-10 to Palm Drive Exit.  
Turn onto Gene Autry Trail  
(becomes Matthew Dr. as it  
crosses Hwy. 111)  
Follow the RAT...  
4193 Matthew Dr. is on left

Lots of vendors and exhibits! Check  
website for the most up to date list.

ICOM YAESU

Buds Engraving Alpine Antennas

Byonics Old Military Radios

EDS Emergency Pack

Ham Radio Outlet

Impulse Electronics

ARRL  
DX  
Store  
W5YI  
RF Stuff



Clint Bradford and Gordon West

Event Coordinators Gary Boskovich KD6QLT and Susie Boskovich KD6QVO 760-328-9662 [sboskovich@dc.rr.com](mailto:sboskovich@dc.rr.com)

Nearby Hotel: Holiday Inn, corner of Sunrise & E. Palm Canyon, Palm Springs 760-323-1711 call for best room rate.

RSVP: RV Dry Camping reservations for vendors: [sboskovich@dc.rr.com](mailto:sboskovich@dc.rr.com) Vendor Set-up time 7:00-9:00 AM

## OCARC Financial Report for 2010

12/31/2010

**INCOME**

ARRL Membership Income	\$39.00
Auction In	\$1,604.00
Badge Income	\$35.50
Christmas Dinner Ticket Sales	\$1,128.00
Donations - FD	\$834.00
Donations - WØMRC radio eqmt sales	\$100.00
Dues, Family	\$205.00
Dues, Future	\$200.00
Dues, Membership	\$955.00
Interest	\$1.34
Opportunity Drawing - Holiday	\$990.00
Opportunity Drawing - Monthly	\$1,130.00
Sale Of Equipment	\$130.00
Accounting adjustment	\$3.15
<b>TOTAL INCOME</b>	<b>\$7,354.99</b>

**OUTFLOWS**

ARRL Membership Expense	\$24.00
Auction Expense	\$12.48
Auction Payout	\$910.36
Awards and Plaques (2009 and 2010)	\$196.82
Brochure Printing Expense	\$62.82
Christmas Dinner 2010	\$1,231.40
Donations - OC FAIR	\$50.00
Donations - Red Cross	\$250.00
Field Day Equipment	\$115.39
Field Day Food	\$871.94
Field Day Rental	\$242.85
Insurance Expense (2009 and 2010)	\$640.00
Legal (CA Corporate filing)	\$20.00
OCCARO Membership	\$20.00
Opportunity Drawing - Monthly	\$1,402.48
Opportunity Drwg - Christmas Radio	\$997.50
Opportunity Drwg - Christmas Women's	\$200.00
PO Box Rental	\$40.00
QSL Postage	\$43.09
Supplies	\$9.56
Trailer - DMV Renewal	\$23.00
Web Site Hosting	\$143.88
<b>TOTAL OUTFLOWS</b>	<b>\$7,507.57</b>

**Net Income (Loss)** **-\$152.58**

**Cash - Beginning Balance: 2010-01-01**

Checking Account	\$5,298.70
Savings Account	\$794.96
Outstanding checks	-\$275.08

**Total Beginning Balance:** **\$5,818.58**

**Cash - Ending Balance: 2010-12-31**

Checking Account	\$2,840.68
Savings Account	\$3,796.20
Outstanding checks	-\$970.88

**Total Ending Net Balance:** **\$5,666.00**

**Total Beginning Balance:** **\$5,818.58**

**Total Ending Net Balance:** **\$5,666.00**

**Net Change for the Year** **-\$152.58**

**Audit Acceptance:**

Kristin Dankert KC6PC2

Kristin Dankert, Auditor

Kristine Jacob KC6TUD

Kristine Jacob, Auditor

George Jacob N6VMJ

George Jacob, Auditor

Ken Konechy W6KNC

Ken Konechy, Treasurer

Date signed: 1/8/2011



## A HISTORY of OCARC PRESIDENTS

by Ken Konechy W6HHC  
with great assistance from our  
Club Historian, Bob Evans -  
WB6IXN

2011 W6GMU Paul Gussow  
2010 K6PEQ Kristin Dankert  
2009 AF6CF Nicholas Haban  
2008 N8WP Willie Peloquin  
2007 K6PEQ Kristin Dankert  
2006 N8WP Willie Peloquin  
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

### YEAR

1986 WA6VKZ Frank Smith  
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

### YEAR

1958 W6BVI Ken Kesel  
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  
(later reissued as W6ADT)  
1936 W6LYN Noral Evans  
(later reissued as W6ADT)  
1935 - CLUB DISBANDED!!  
1934 W6IGO Earl Moore  
1933 W6IGO Earl Moore

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## OCARC 2011 Dues “are Due”!!!