



ORANGE COUNTY AMATEUR RADIO CLUB, INC.

VOL. XLIX NO. 5

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

May 2008

The Prez Sez.....

By Willie N8WP



Hello OCARC,

Look forward to a radio active summer this year. We have several activities lined up. First, and foremost, is Field Day 2008. We are planning a smaller, more family friendly Field Day this year. That is not to say we are not going try and lead in our category :) The Boy Scouts will be joining us again. Cheryl, KG6KTT, will be running a YL station. Nothing attracts QSOs faster than a female operator. I will be the captain of a digital mode station, so now is your chance to have some fun with PSK-31.

The club is also planning on a group camping trip. Point Magoo campsite, North of Malibu, is the current destination. Plan on getting your RV or tent out and get ready to work the HF bands, fox hunt or just relax with a great group of friends.

The Firestorm last year was quite an event. I am sure it had an impact on your family or friends. I have been talking with Anaheim and Santa Ana CERT coordinators about including OCARC in their training program. There is a great deal of synergy between Amateur Radio and CERT, Community Emergency Response Team. The CERT program is designed to prepare yourself, your family, and your neighbors in the event of a catastrophic disaster. Emergency services personnel may not be able to help everyone immediately. You can make a difference by using the CERT training to save lives and protect property.

Being an Amateur Radio operator gives you an additional advantage in protecting your family and neighbors.

See you at the meeting.

Willie - N8WP
OCARC President

Dues for 2008 are past due. You have till the end of the year to pay. See you at the May 16th general meeting.

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The next general meeting will be:

**Friday, May 16th
@ 7:00 PM**

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

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



2008 Board of Directors:

President:

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2008 Club Appointments:

W6ZE Club License Trustee:

Bob Eckweiler, AF6C
(714) 639-5074
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bobev@netzero.net

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(714) 318-4047
KG6KTT@w6ze.org

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(714) 744-0217
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W6HHC@w6ze.org

ARRL Awards Appointee:

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(714) 557-7217
k6vdp@aol.com

OCCARO Delegate:

Loran Dargatz, KD6LRD
(714) 777-9081
DargatzLR@msn.com

Monthly Events:

General Meeting:

Third Friday of the month
at 7:00 PM
American Red Cross
601 N. Golden Circle Dr.
(Near Tustin Ave. & 4th St.)
Santa Ana, CA

Club Breakfast:

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

Club Nets

(Listen for W6ZE)

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

28.375 ± MHz SSB
Wed- 7:30 PM - 8:30 PM
Bob AF6C, Net Control

146.55 MHz Simplex FM
Wed- 8:30 PM - 9:30 PM
Bob, WB6IXN, Net Control

Club Dues:

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

Dues run from January thru Dec
and are prorated for new mem-
bers.

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

**There is a \$1 charge if you'd like
to have your badge mailed to you.

The Orange County
Amateur Radio Club "OCARC"
P.O. Box 3454
Tustin, CA 92781
Web: <http://www.w6ze.org>
Email: ocarc_info@w6ze.org



Renew Your OCARC Membership

Now Use PayPal to Pay Your
Club Dues

It's that time of the year again. Time to renew your OCARC membership for 2008, 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 breakfasts or via snail mail. Additional family members for teenagers is only \$10 as



monthly club meetings, club Regular dues are only \$20. are \$10 (Total). Membership well. What a deal!

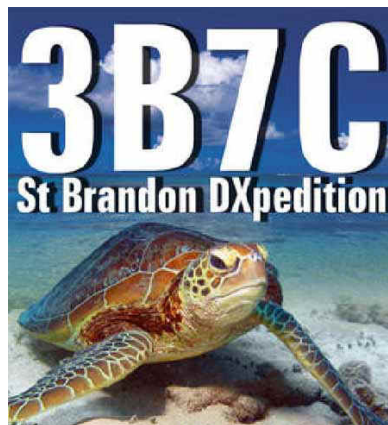
Now Use PayPal to Pay Your Club Dues

It is a new year and OCARC will be sending out dues notices with the option of paying for your yearly dues by using PayPal. PayPal is the fastest method of paying, and it is very secure. You do not need to write a check or remember to pay the Treasurer during a club meeting. When you get the club's email message with the option of paying by PayPal, it is not SPAM. You may still pay by check, gold doubloons or cash (with the proper id) as you have in the past. Save yourself and the Treasurer some time and pay with PayPal.



Attention Members!!!

The Speaker at May 16th Meeting is
Member Arnie Shatz - N6HC



Arnie - N6HC will speak on the September 2007 3B7C DXpedition to St. Brandon, located in the Indian Ocean (East of Madagascar).

A HISTORY OF THE ORANGE COUNTY AMATEUR RADIO CLUB - Part 3

by Bob - WB6IXN, Club Historian

THE GOOD OLD DAYS

Our list of pre-war OCARC hams from Part 2 continues:

W6TDE, Joe Wallin

W6LXM, Vern Schrader – Club officer in the late '30s.

W6TJD, ? Slater – lived in Orange

W6NSA, Les Gates – president of the Club for part of 1938.

W6LYM/W6ADT, Noral Evans – Century Club, past presidents, wife's name is Geraldine and she lives in Riverside (as of 1978).

W6EEK, Rod Engel – along with Shelley W6BAM was one of the Original members of OCARC.

W6TMC, Theodore Titrok – possibly a member of the Club.

W6LHN, Tom Hudspeth – Century Club (mentioned above).

W6QZQ, Horace Bates – member of pre-war Club, a teacher.

W6LDH, ?

W6NGO, Kei Yamachika – member of pre-war and post-war Club

W6NGN, Ed Tice – Buena Park, Kei and Ed took their License Exams at the same time!

W6LXV, Masami Yamachika (brother of Kei, W6NGO), holds KF6TST since 1998

W1QMI, Al Hill – Century Club.

W6BAM, Shelley Trotter – Club member, past

Club offices, Century Club, 1st WAZ in Orange County, Asst. SCM (San Diego Section), never a microphone in the shack!, QSL Manager, endless help to Club members, wrote SCM column, etc.

W6TIK, Lawrence McCoskey – a CHP officer.

W6TIN, Dan "Bud" Jones – Larry & Bud used to be called the TIK & TIN of it!

W6UYA, Rev. William Duerr – possibly in Club.

W6RLR, Charles Boquist, Jr. - in Club both before & after WWII.

W6QLA, Bill Porter.

W6RLQ, Charles Boquist, Sr. – in Club before & after WWII, 2nd WAZ (Worked All Zones) in Orange County.

W6SRB, Burton Carpenter – came to Club meetings but may not have been a Club member.

W6KBD, Art McBride.

W6LRP/W6ZE, Earl Griffin, 1st husband of W6PJU, Mildred. The OCARC now retains his call (more in history).

W6NVX, Noble Bishop.

W6NIK, Hayes Acton – may not have been a Club member.

W6NYA, Ed Stankey – may not have been a Club member.

W6PNU/W6DWU, Bob Haven – now lives in Fresno, CA.

W6LWH, Jimmy Miyaya.

W6BVA, Olen Lewis – Garden Grove, silent key, may not have been Club member.

Bob Evans, WB6IXN, Club Historian

(to be continued next month)

OCARC and Visitors

Just a reminder to come and join the OCARC

Wednesday evening radio nets.

10M net at 7:30 PM on 28.375 MHz (SSB)

2M net at 8:30 PM on 146.550 MHz (FM simplex)

Listen to the “Ham radio happenings podCast” !!!

Net control station is **W6ZE**

**The OCARC WEB site is always up to date at
www.W6ZE.org**



City of Orange Communications for the Baker-to-Vegas Race 2008

by Ken W6HHC

Since 1985, law-enforcement running teams 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, continues on to Pahrump in Nevada, and finishes at the Hilton Hotel in Las Vegas. The B2V race is broken into 20 “legs” or stages. This year over 240 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 RACES, the OCARC members, and Communications Volunteers from Cypress. This year, ten OCARC members helped the OPD running team by providing communications over the entire race course.

The COAR RACES activities for the 2008 races began 11 months before this year’s race began. The COAR B2V communications set-up 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



Fig 1 – One of Several COAR Planning Meetings
(Photo by Ken W6HHC)

The City of Orange plan was to set up five communications centers along the B2V race course in order to provide a “communications backbone” to support mobile units during the race:

- Ibex Pass, CA
- Shoshone, CA
- Pahrump, NV
- Sandy Valley Road, NV
- Las Vegas, NV

All newly purchased equipment was tested as it was purchased. Then, two weeks before the event, four of the communication station equipment groups were set-up in back yards (field day style) to see if equipment worked and all of the connectors and cables and software and settings were ready.



Fig 2 – The Equipment-Testing Workshop really began to look like “Field Day” when operators from the COAR “Follow Vehicle” Showed Up.

L-R – Ken-W6HHC, Bob-AF6C, Elmer-WA6PFA, Kathleen-K6IBH, Nicholas-KI6AUL, and Bruce-KC6DLA

(Photo by Ken W6HHC)

The B2V race this year began on Saturday, April 19. However, to assure that the communications equipment was properly set-up in place and working well, some hams left home on Thursday or Friday for set-up. The most elaborate communications station for OPD is located at Sandy Valley Road. This is half-way between Pahrump and Las Vegas and near the top of the mountain pass.

B2V Race Comm is cont'd on Pg 8 - -

B2V Race Comm cont'd from Pg 7 - -

The Sandy Valley location (shown in Fig 3) is critical for connecting both sides of the mountain. A cross-band repeater is set-up for the use of COAR at this location. The station uses a 440 beam for communications on the East side of the mountain into Las Vegas and 2M high gain vertical for communications on the West side of the mountain as far as Shoshone.



Fig 3 – The Sandy Valley Road location is in the middle of “no where”. The trailer of George-KK6KN (R) provided a wind-free location for communication operations this year (instead of a “flappy” tent). Dick-N6ISY is shown in the orange hat.

(Photo by Les KM6SQ)

During the B2V race, COAR Follow-Vehicle drove alongside or near the OPD runner with full communications equipment including an APRS beacon. A typical OPD Follow-Vehicle is shown in Fig 5.



Fig 4 – The Communications Center located in Pahrump (Nev) was supported by these four hams: (L-R) Nicholas-AF6CF, Bob-AF6C, Mike-KF6QFY, and Ken-W6HHC.

(Photo by Ken W6HHC)



Fig 5 – 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 the competing teams.

(Photo by Byron KC6YNG)

The OPD running team started the race at 3 PM on Saturday afternoon and took a little over 16 hours to complete the Baker-to-Vegas 120 mile foot-relay-race. The OPD running team finished that race at the Hilton Hotel around 7 AM on Sunday morning.



Fig 5 – OPD Team #43 runner, Officer Hank Echandi, is running through Pahrump (right outside the COAR comm center) around 11 PM. The OPD team finished 4th in their class this year.

(Photo by Ken W6HHC)

[OCCARO] Next on-foot foxhunt May 17 in Placentia

The next southern California on-foot direction-finding event is especially for beginners. It will be Saturday, May 17, 2008 at Tri-City Park in Placentia, as part of the annual "Antennas In The Park" event, organized by the Fullerton Radio Club. It's also in celebration of the eleventh annual CQ Worldwide Foxhunting Weekend. All ages are welcome, so bring the family. We're expecting members of the Western Amateur Radio Association (WARA) and Fam-Comm Amateur Radio Association, as well as transmitter hunters from all over southern California.

Radio activities get under way at 10 AM. Beginning around 11:30, a cookout and potluck will precede the transmitter hunts, which will start around 12:30 PM. There will be grilled hamburgers, kosher hot dogs, strip steaks and chicken breasts, as well as an array of condiments, beverages and utensils. There is no fixed price for the BBQ, but there will be a donation jar to offset some of the clubs' expenses.

Plans are to have hidden transmitters on the 3.5, 146, and 222 MHz bands. These transmitter hunts will be simple, informal and intended primarily for newcomers. Experienced ARDFers will be present to help you get started. There will be no charge for participation in the hunts.

If you have them, bring a handi-talkie, receiver, or scanner for each person who will be going ARDFing. If you have directional antennas, attenuators, or other on-foot RDF equipment, be sure to bring that too. Make sure all batteries are fresh. For those with no radio gear, some extra ARDF receiver/antenna sets will be available.

Besides the transmitter hunts and cookout, there will be some antenna building and testing for Field Day and radio-controlled sailboating. Expect to find at least one HF ham station on the air in the park. The traditional Worldwide Foxhunting Weekend cake will be served for dessert to participants in the transmitter hunt. Canopies and tables will be set up, but if you plan on doing a lot of sitting around, please bring a lawn chair.

The entrance to Tri-City Park is at the corner of North Kraemer Boulevard and East Golden Avenue in Placentia. (Map at www.homingin.com) The BBQ and hunt start will be in the northeast corner (to the right as you enter the park). Look for the orange and white Orienteering flag and the radio club banners. Entry and parking are free, but empty spaces near the picnic site may be difficult to find if the park is crowded, so consider carpooling.

Call K0OV on K6QEH/R, 146.97(-) PL 136.5 for two-meter talk-in.

73,

Joe Moell K0OV

ALASKAN CRUISE

Doris and I will be taking an Alaskan in-land passage cruise on one of the Holland America ships. I had contacted the ARRL and asked if they knew whether or not I would be able to operate a radio on board. Their response was that I should expect to receive an automatic NO.

However, I did contact the cruise line and the follow is the response I got.

73

Steve

N1AB

Good afternoon Mr.Brody,

Thank you for your inquiry regarding radio usage on your upcoming Holland America Line cruise. Holland America Line does have a fleet-wide policy regarding radios onboard, please see below:

The Netherlands in which our ships are flagged, has an agreement with the USA and Canada, where radio amateurs are allowed to operate their equipment for a limited time without any further administrative obligations in respective countries. Amateur Radio Operators have to adhere to the regulations of the country transmitting from, and add an identification to their own call sign. Radio Amateur's are not allowed to operate from HAL ships while inside the territorial waters of countries other than the USA and Canada .

The Amateur's radio equipment must not obstruct in any way or form the operation of the vessel. The Master can suspend and/or restrict the use of the equipment at any time, when interruptions occur to the proper operation of ship's equipment. The equipment should be operated as far away from ship's aerials as possible.

Amateur Radio Operators while on board shall not transmit within the boundary of any port.

Guests bringing radio transmitters on board must report this to the Front Office upon boarding in order to obtain any special operating instructions from Ship's Officers prior to use.

-

Thank you,

Ashley

Reservations Lead

Holland America Line

We hope to hear all about their wonderful cruise when they get back.

2008 Contest Schedule

JUNE:

14-16 ARRL June VHF QSO Party
28-29 Field Day

JULY:

12-13 IARU HF World Championship

AUGUST:

2-3 ARRL VHF Contest
16-17 ARRL 10 GHz and up Contest

SEPTEMBER:

13-14 ARRL VHF Contest
20-21 ARRL 10 GHz and Up Contest

NOVEMBER:

1-2 ARRL November Sweepstakes (CW)
15-17 ARRL November Sweepstakes (Phone)

DECEMBER:

5-7 ARRL 160 Meter Contest
13-14 ARRL 10-Meter Contest

Heathkit of the Month**The CA-1 Conelrad Monitor***by Bob Eckweiler, AF6C*

This month's Heathkit is a product of the Cold War. It was manufactured from 1957 through 1960, and made the task of adhering to the FCC Part 12 rules of the time automatic. But before we learn more about this kit, perhaps a discussion of the Conelrad system is in order for our younger hams.

**CONELRAD:**

Conelrad stands for **CON**Trol of **EL**ectromagnetic **RAD**iation. In the fifties and early sixties the United States was at war with the Soviet Union. It was not a shooting war, but one of technology and nuclear threats. In order to prevent Soviet bombers from homing in on US cities President Harry Truman established the Conelrad system in 1951. In the event of an attack, or pending attack, the Conelrad system would be put into effect. All normal radio and TV transmissions would broadcast a special short message and then go off the air. Only two frequencies would remain on the air - 640 KHz and 1240 KHz. The stations transmitting on these frequencies would operate only in short increments and then switch to a different station in a different location. This, of course, was to confuse any bomber navigation using radio direction-finding. The two Conelrad frequencies, by law, had to be marked on the dial of all radios sold between 1953 and 1963. The mark was the Civil Defense symbol – the letters CD inside a triangle inside a circle. You would find them at 640 and 1240 'KC' on the dial of radios of that era.

Originally only broadcast stations were required to comply with Conelrad monitoring; hams weren't required to comply until Jan 2, 1957. Many hams did this by having an AM broadcast radio running in the background that they could monitor to be sure the station was on the air. Of course one wouldn't monitor a station that was broadcasting on either of the Conelrad frequencies.

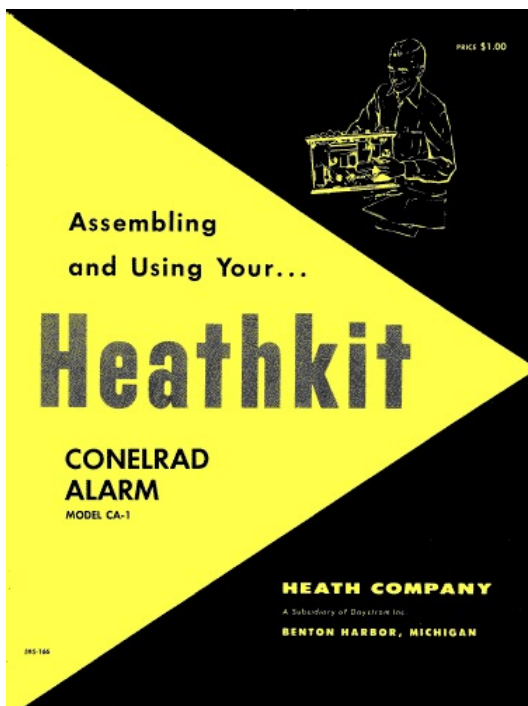
Since notifying all the radio stations would be too time-consuming, the FCC designated certain broadcast stations as **key stations**. Other stations were required to monitor these key stations. Should an alert occur the broadcast station was to drop its carrier twice at five-second intervals and then transmit a 1 KHz tone for fifteen seconds and then either leave the air or switch to one of the Conelrad frequencies. Three 'key stations' in the Los Angeles area were KNX - 1070 kc, KFI - 640 kc and KMPC - 710 kc. KMPC has since moved frequency and gone to Korean language broadcasting.



The CA-1:

To automate monitoring for a Conelrad alert Heathkit produced the CA-1 Conelrad Monitor. It was a simple device and fit into the popular small accessory cabinet (7-3/8 W x 4-11/16 H x 4-1/8 D) that Heathkit used for numerous other products including the AM-1 SWR bridge and the QF-1 "Q" Multiplier.

The CA-1 first appeared the March 1958 catalog and was produced through 1960. The CA-1 was self-powered using a transformer and selenium rectifier. The circuit had a single 2D21 Thyatron tube. The signal input for the CA-1 came from the AVC (Automatic Volume Control) circuit of a standard AC/DC AM radio of the time. Since AC/DC radios ran directly off the 120-volt AC line without a transformer, there was always a 50-50 chance the chassis was hot (connected to the hot AC line). That was why the AC/DC radios chassis were insulated to the outside. Heathkit used a large resistor (220K ohms) in the ground lead from the broadcast radio to prevent shock from touching the CA-1 metal cabinet. Still, it was a good idea to "polarize" the plug to the AC/DC radio to make prevent the hot side of the power from being on the radio chassis.



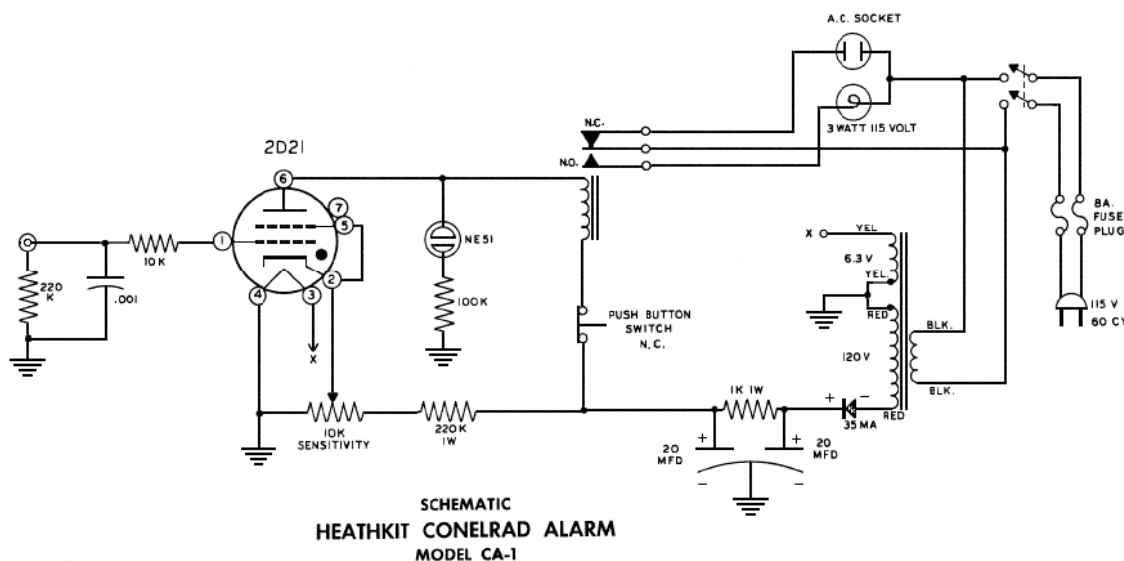
The 2D21 thyatron tube is a gas-filled tetrode (four elements – excluding the filament). Like a standard vacuum tube, the grid voltage controls the plate current, but only to a certain extent. Once the grid loses

control, the gas 'fires' and the tube turns on. The tube continues to conduct until the plate voltage is lowered below the firing point of the tube's gas.

In the CA-1 the AVC from an external radio was DC coupled to the grid of the 2D21 tube. The cathode of the tube was biased positive by the sensitivity adjustment to allow for different ranges of AVC. As long as the key radio station was on the air, the negative AVC voltage kept the tube cutoff. If the broadcast station went off the air the thyatron tube would fire, operating a relay. The relay lit a large three-watt pilot lamp on the CA-1 and also removed power from an auxiliary AC power socket on the front panel. If your transmitter was plugged in it would unceremoniously take you off the air. Once the thyatron tube fired it would continue to conduct until the plate voltage was momentarily removed. This was done via a reset button on the unit. The CA-1 also had a neon pilot light on the front panel to show the unit was powered.

False Alarms:

The CA-1 was prone to false alarms. A false alarm would occur if the AM station being monitored went off the air momentarily – and they did frequently – or if the station was distant and prone to fading. With the transmitter connected the AC outlet on the CA-1 your QSO would be interrupted. Many hams modified their CA-1 as suggested in the manual to instead turn on a bright warning light or sound a buzzer or bell when the Conelrad Monitor was triggered. This modification involved a simple rewiring of the relay contacts and the addition of an indicator device.



CA-1 Specifications: (From the Heathkit CA-1 Manual)

Tube Complement: 2D21 thyatron.
 AVC Sensitivity: -2 volts to -20 volts
 Operating Power: 115 VAC, 60 cycles 7 watts.
 Cabinet Size: 7 3/8" wide x 4 11/16" high x 4 1/8" deep.
 Net Weight: 3 lbs.
 Shipping Weight: 4 lbs.

In August of 1963, with intercontinental ballistic missiles becoming more of a threat than bombers, the Conelrad was replaced by the **Emergency Broadcast System**, which was itself replaced in 1997 with the **Emergency Alert System**.

MAKE A DIFFERENCE!

WHO: AMATEUR/HAM RADIO OPERATORS
WHAT: FIFTEEN (15) RADIO OPERATORS / DAY
WHERE: CAL STATE LONG BEACH
WHEN: (SAT) JUNE 14, 2008: 0730 – 1600 HOURS
(SUN) JUNE 15, 2008: 0730 – 1400 HOURS
WHY: SPECIAL OLYMPICS
HOW: COMMUNICATIONS SUPPORT
CONTACT: MARK LIDIKAY KE6TNM
E-MAIL: KE6TNM@SOUTHBAYE.COM
DETAILS: SEE BELOW

THIS IS AN ANNUAL VOLUNTEER OPPORTUNITY FOR A VERY SPECIAL EVENT!

DON'T MISS THIS OPPORTUNITY TO MAKE A HUGE DIFFERENCE IN THE LIVES OF THESE SPECIAL OLYMPIC PARTICIPANT.

CHECK YOUR CALENDARS NOW. CALL AND VOLUNTEER TODAY.

THANK YOU

OCARC**Board Meeting Minutes****2008-05-03**

The OCARC Board meeting was held at the JagerHaus Restaurant in Anaheim at 8:15AM on Saturday, 2008-05-03. There were a total of 13 members and visitors attending. There was a quorum of directors present, with the following officers present: Willie-N8WP, Nicholas-AF6CF, Paul-W6GMU, Ken-W6HHC, Chris-W6KFW, Rich-KE6WWK, and Hank-W6HTW.

DIRECTOR REPORTS:

- **Vice President** - Nicholas AF6CF reported that the following programs are planned:
 - May is 3B7C DXpedition to St. Brandon
 - September is OCARC Club Reunion
 - October is OCARC Auction
- **Treasurer** – Paul W6GMU reported that we had \$6,064 in the bank. He also reported that we had almost run out of checks and that more would be ordered.
- **Secretary** – Ken-W6HHC reported that one new membership had been received at the Post Office, Don-WØRXX of Irvine.
- **Membership** – Chris W6KFW reported that OCARC currently has 62 members currently paid up.
- **Director at Large** – Hank-W6HTW said he would act as “raffle meister” at the next General meeting. Kristin-K6NEQ will be at Dayton Ham Convention.

OLD BIZ:

- **RF NewsLetter “Rotating” Editors**
 - May is Cheryl KG6KTT
 - June is Kristin K6PEQ
 - July is Ken W6HHC
 - August will be Loran KD6LRD
- **Field Day 2008**
 - Willie-N8WP reported that Dino-N8WP and a few other WARA members had backed-out of participating at the OCARC FD site this year because of conflicts.
 - The Board approved a motion to allow up to

\$1,000 for field day expenses.

- **New Aluminum Tower**
The new tower will be ordered from AES this month
- **OCARC Re-union Meeting**
Nicholas-AF6CF reported that the plan for holding a OCARC re-union in September will require forming several committees.
- **Pay Pal for WEB Site**
Willie N8WP reported that Bob-AF6C was working on finishing up a new WEB membership page that would then provide for linking to a PayPal button.
- **OCARC Coffee Mugs**
Now that a new club LOGO has been selected, Rich-KE6WWK will obtain pricing information for members to purchase an OCARC coffee mug.
- **OCARC Campout**
The members at the board meeting chose Point Magoo State Park as a site for a club campout in August. Willie will complete reservations.
- **Discussed but No Actions**
 - CERT Training
 - Working with Scout Troops
 - Fox Hunt Picnics
 - Online Member Database

NEW BIZ:

- The board approved appointing Chip-K7JA and Janet-KL7MF as OCARC Honorary Members for 2008.

GOOD OF THE CLUB:

- Larry-K6YUI presented a good overview of the very successful DX Convention held in Visalia in April. Over 600 hams attended the Saturday evening banquet.

Submitted by: Ken Konechy W6HHC
Secretary

Please support the companies who support OCARC!

Make sure to thank them for their support of the OCARC when you order from them, or when you see them at a convention!



The DX Store
Amateur Radio Equipment for DXers!

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



HEIL SOUND

sales@dxstore.com
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