



RF



ORANGE COUNTY AMATEUR RADIO CLUB, INC.

VOL. XLVI NO. 5

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

MAY 2005

THE PREZ SEZ:



Most of you may have heard that Cheryl, KG6KTT and Willie, N8WP were involved in an auto accident on April 26. Cheryl was bruised up, but Willie has a broken knee-cap and broken wrist. Although he is still in physical therapy to get stronger after his operation, it sure was good to see both of them at the OCARC Breakfast (even if Willie was in a wheel chair). He has good access to e-mail, so have a chat with him when you get a chance.

If you haven't seen Cindy, KC6OPI for a while, it is because the Red Cross has been keeping her super busy. Mainly out-of-state trips. The OCARC board discussed Cindy's letter explaining that she has not been able to do any of her duties as Membership chair so far this year, and that probably the situation at Red Cross will continue longer into the year. The board has accepted her offered resignation, and I have appointed board member Dan, N6PEQ to fill in as Membership chair for the remainder of the year. To fill Dan's previous spot on the board, I also appointed Lowell, KQ6JD to serve as Director-at-Large for the remainder of the year. I am sure that everyone hopes we see Cindy at the meetings again soon.

The OCARC first started meeting in 1933. The 75th anniversary of the OCARC will occur in 2008. We

EX-KG6IRO ARRESTED:

Bell resident and former ham Jack Gerritsen was arrested by the FBI on the morning of May 5th, allegedly for unlicensed operation and the jamming of public service and military frequencies, the latter being a felony charge. Mr. Gerritsen's radio equipment was confiscated during the arrest. Bond is set at \$250,000.

A recent barrage of QSLs and letters from irate radio amateurs to the office of U.S. Attorney Debra W. Yang, organized by Southern California repeater organizations, possibly expedited the FBI action.

Mr. Gerritsen served part of a 38 month sentence five years ago for interfering with police communications. Upon his release he allegedly began causing interference again.

The arrest is covered in *The ARRL Letter* for May 6th:

<http://www.arrl.org/arrlletter/05/0506/>

have been having some discussions on the club nets and at the club breakfast on possible activities we could pull-off for the OCARC 75th anniversary. Special club call, special club QSL cards, special club operating events??? We have plenty of time, so please send me your thoughts and suggestions.

de Ken, W6HHC

**Next Club Breakfast & Open Board Meeting
Sat. Jun. 4th 2005**

MAY PROGRAM:

Don't miss this Month's program: *Lessons Learned from Hurricane Charley*, presented by Wayne Barring, KB6UJW, Chief Radio Officer of Anaheim RACES.

Wayne will share his experiences in Florida in the aftermath of the August 2004 Hurricane, and offer a unique perspective on being prepared to operate in an almost hostile environment that ultimately proved to be one of the most personally-rewarding in his entire amateur radio career.

The next regular meeting is:

**Friday, May 20th 2005
@ 7:00 PM**

We will be meeting on the 2nd floor in the east bldg.

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**THE ORANGE COUNTY
AMATEUR RADIO CLUB,
INC.**

P.O. Box 3454, Tustin, CA 92781



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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: REVISED

First Saturday of the
month at **7:30 AM**

Katella Grill

1325 W. Katella Ave.
(SE Corner at Main St.)
Orange, CA

Club Nets (Listen for W6ZE):

7.086 MHz CW **OCWN**
Sun - 9:00 AM - 10:00 AM
Rick KF6UEB, Net Cntl.

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

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

VISIT OUR WEB SITE

<http://www.w6ze.org>

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

Club Dues:

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

Dues run from January thru December & 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 charge if you'd like to have your badge mailed to you.

OCARC Members Provide Communications during Baker-2-Vegas Race:

More than 200 Law Enforcement teams participated in the 120-mile relay race called Baker-to-Vegas Challenge Cup. The race is broken into 20 segments and starts in Baker, heads towards Death Valley as far as Shoshone, then turns towards Pahrump, and ends in Las Vegas. **Figure 1** (See Page 10) shows the course path.

Eight members of the OCARC joined with members of Orange RACES (COAR) and Cypress RACES to provide communications support during the race for three police department running teams: Orange PD, Garden Grove PD, and Cypress PD. The OCARC members included: Bob-KD6BWH, Bruce-KC6DLA, Bud-WA6VPP, Cheryl-KG6KTT, Elmer-WA6PFA, Ken-W6HHC, Rich-KE6WWK, and Willie-N8WP.



Figure 2: OPD runner and Orange Comm. Van in empty desert

Figure 2 shows the Orange PD runner being trailed by the Orange "follow vehicle" with Bruce



Figure 4: Hams representing OCARC, COAR, & Cypress RACES at De-brief Meeting.

KC6DLA providing communications on 144 MHz and 440 MHz to Las Vegas officials via a network of communications base stations and APRS.

Figure 3 shows the team of Mike-KF6WRM of COAR and Ken-W6HHC who drove to each of the first 8 check-points. Ken went on foot to talk with each new runner and used a hand-held to relay info. Ken's info was then relayed to Mike who used his mobile rig to transfer the info to the network of base stations along the 120 mile course.



Figure 3: Mike-KF6WRM of COAR and Ken-W6HHC drove to check-points to provide communications with fresh runners.

The OPD team had their best running time ever with 16 hours – 8 minutes!! They came in third place in the 150-person-department class of running teams. All three city police departments had high praise for the communications support that was provided. Figure 4 shows a group shot taken at the COAR de-briefing meeting.

Attention Adventurous Desert Loving Hams:

June 11, 2005 will be the 9th running/biking relay race known as the 250+ mile Mojave Death Race beginning and ending at Stateline, Nevada. There are exchange points between Prim and I 40; Route 66 and Kelbaker Road; Baker and Sandy Valley; Jean and Prim. Each year hams of all types and ages provide emergency and race data communication for this race. There are 12 to 15 teams who start at 5 am Saturday morning and finish some time early or mid morning Sunday. It is a crazy almost 24 hours of watching other people do what hams would never think of doing, because we are too smart!!! So if you would like to be a part of a unique race and get some genuine thanks and a t shirt and a mug for your efforts please contact Communications Director Dick Bruno at n6isy@sbcglobal.net or Rich Helmick KE6WWK at r2535@sbcglobal.net and let us know you want to be part of the fun and games. Let's see, middle of the desert, time on your hands while waiting, Boy there must be a contact out there you have been trying to make for a long time and **this is the time!** Thanks (KE6WWK)

OCCARO News

The Fullerton Radio Club has a **survey** on its website. FRC would be appreciative if all hams (and non hams if so desired) would fill this out. FRC will share the information (not personal) with all the clubs participating in OCCARO. We are trying to find out what folks like and don't like about Amateur Radio.

Antennas in the Park:

Hosted by Fullerton Radio Club May 21, 2005, all day at Tri Cities Park in Placentia Day will include a T-Hunt and a BBQ with Pot luck. It is a bring your own meat and something else to share Bring your equipment to show, share and hopefully get some new folks interested in Ham Radio. - Tnx K6PEQ

***** Product Spotlight *****
Pelican Model 1510 Equipment Case

By: Dan Dankert N6PEQ
n6peq@dxer.com



Having enjoyed operating Amateur Radio abroad over the years, I have always searched for the ideal method to transport my radio equipment in a safe and secure manner. Last year, some members of my Field Day group (The Piña Colada Contest Club-KP2AA) utilized equipment cases manufactured by Pelican Products. These cases performed exceptionally well, so I concluded that I needed to acquire one Field Day 2005. I purchased Pelican's model 1510, which is the largest size case that Pelican Products manufactures that is of legal carry-on size for airliners. The model 1510 includes a side handle, front handle, rollers, an extension handle for pulling, double throw latches, provisions for two padlocks and a neoprene o-ring seal designed to be water and dust proof. Lastly, Pelican cases come with a lifetime guarantee.

Pelican Products Model 1510 Specifications

Inside Dimensions	20.2" L X 11.4" W X 7.5" D
Outside Dimensions	22" L X 14" W X 9" D
Temperature Rating	-10°F to +210°F (-23°C to +99°C)
Color	Black
Buoyancy	Floats in Salt Water with 64.2 lbs Load



The photo to the left shows the Pelican model 1510 case. Note the durable construction, twin latches and heavy duty handle. This case is designed to withstand a heavy load, and at the same time hold up to harsh environments! The model 1510 is offered only in black, but Pelican offers numerous other styles and sizes of cases that are available in other colors in addition to black, such as silver, yellow, orange, blue and green.

This photo to the right shows the equipment that I was able to arrange into the Pelican model 1510 case. The equipment shown is as follows:

- Yaesu FT-897 HF/VHF Transceiver with Yaesu FP-30B Power Supply and LDG AT-897 Auto Antenna Tuner Installed
- Yaesu FT-817 HF/VHF QRP Transceiver
- Kuranishi BR-200 HF/VHF SWR Analyzer
- Two Yaesu VX-5R VHF/UHF HT's
- Four FNB-58 Battery Packs for Yaesu VX-5R HT's
- Two Rubber Duck Antennas for Yaesu VX-5R HT's
- Yaesu NC-72B Charger for VX-5R HT's & FT-817
- Yaesu MC-31 Microphone for Yaesu FT-897
- Yaesu FNB-72 Battery Pack for FT-817
- Digital Multi-Meter with Test Leads
- LED Flashlight
- Heil FS-1 Footswitch
- Vibroplex Code Warrior Jr. Paddle
- Palm Key Miniature Paddle



The model 1510 Pelican case is supplied with foam inserts for the cover and the floor of the case. In addition, two thick layers of "high density foam" are included for the mounting of your equipment. These two layers of foam are each 2.625" thick, and are scored into 0.50" X 0.50" squares. You simply remove an adequate amount of scored foam squares to obtain an opening resembling the size and shape of your equipment. I found this technique to be quick and straightforward. If you inadvertently take out too many foam cubes, you can simply glue the foam cubes back into position with rubber cement or spray adhesive. In the future, if you happen to purchase new radio equipment, Pelican sells replacement foam inserts for their cases. There is no need to purchase a new case for your new equipment!



The picture to the left illustrates the case after the installation of the FT-897 (plus AT-897 antenna tuner & FP-30B power supply), BR-200 SWR Analyzer, FT-817 (plus FNB-72 battery pack), Code Warrior Jr. Paddle & Palm Key Paddle. Notice the nice snug fit of all the items. Also observe the convoluted foam padding mounted to the inside cover of the case. Bring on the air turbulence! This equipment is going to arrive at its final destination undamaged and ready to make lots of Q's on Field Day.

After fitting the above items, I was able to create spaces for the other smaller pieces of equipment underneath the FT-897 and BR-200 (shown in the picture to the right). These smaller items easily fit within the bottom later of foam.



The picture below shows the pile of foam cubes that were removed from the two high density foam layers in order to fit the radio equipment within the case. I'm sure that my cat is already contemplating about what to do with all of this foam!



If you are in need of a rugged case to transport your amateur radio equipment (or other electronic gadgets) for Field Day, DXpeditioning, vacationing, or hiking, Pelican cases will effortlessly accomplish the task. Pelican Products manufactures many different size cases from small ones designed for cell phones, HT's and digital cameras, to larger ones perfect for exceptionally bulky items such as amplifiers and base transceivers. More information on Pelican equipment cases can be obtained by contacting Pelican Products at:

Pelican Products, Inc.

23215 Early Avenue

Torrance, CA 90505

Tel: 310-326-4700

Fax: 310-326-3311

Email: sales@pelican.com

Website: <http://www.pelican.com>

List Price of Pelican Model 1510: ~\$208

Street price of Pelican Cases: ~\$13 to ~\$295 (depending upon model)

If you have any questions regarding this article, you are welcome to contact me at 714-544-9846, or via email at n6peq@dxer.com

Tech Talk #41: Ham Radio Station Protection – Part 5

Article courtesy of the PolyPhaser Corp.

In this the final installment on Ham Radio Station Protection, we wrap up our discussion by looking at the different and often-preferred type of materials at our disposal for grounding and lightning protection, and the advantages of copper strap versus copper wire. And last, but by no means least, is the discussion of how to properly maintain our new methods of protecting against lightning strikes. The methods described here and in the previous articles need to be checked on every so often. We must never forget that lightning protection is an ongoing process that involves our full commitment, and with minimal effort now can save thousands of dollars of radio and antenna equipment in the future.

Ground System Materials

Solid copper wire/strap and copper clad steel rods, makes copper the most commonly used earthing material. Your below grade ground system should be made with the same material throughout. Mixing of materials, like galvanized rods with bare copper radials, will create a battery action and the zinc of the galvanized rods will become sacrificial, dissolving into the soil. This leaves bare steel to rust and not provide an optimum connection to earth. (Note: when wet, rust can conduct, but not very well.) Using stainless rods in order to prevent corrosion will not provide the best conductivity. Since stainless wire will be required to interconnect the rods, the resistance of the system will increase. An all aluminum ground system should only be considered in very acid soil conditions and even then it should be chemically tested for other attacking soil compounds.

Joints between copper radials and copper clad rods should be made by exothermic welds or by using joint compounds in high compression clamps. Solder connections, even torched silver solder connections will not last as long as the above. An exothermic weld is created when a graphite mold around the connection is filled with copper oxide and aluminum powders. An additional starter powder ignites the exothermic process. The resultant molten copper is deposited into the lower mold cavity where it burns away any oxides and creates a larger fused connection. The larger cross sectional bond decreases the resistance and increases the surface area, reducing the inductance of the joint. Since the materials are all the same, the connection will last as long as the rest of the grounding material. (Figures 1 and 2 show what a typical mold cavity looks like and the resulting welded joint).



Figure 1 – Cross section of a typical exothermic welding mold. (Courtesy of ERICO CADWELD® PLUS)



Figure 2 – The resulting welded wires. (Courtesy of ERICO CADWELD® PLUS)

High pressure clamps provide a meshing of copper to copper since the material is soft and malleable (See Figure 3). The use of joint compounds further enhances the weather tightness of the bond. The high pressure will need to come from another material stronger than copper.

If you find a rock layer is making the ground rod insertion difficult and you can't remove the rod to start over a few feet away, the best idea is to cut off the rod and connect it to the system. A rock layer will hold water and salts so the conductivity above should be good. Making more connections to areas of higher conductivity will reduce the overall impedance of the ground system (resistance and inductive reactance).

The ground system has a resistance and an inductance value. (It has capacitance too!) The amount and location of the inductance can choke off the effectiveness of radials. When a radial is in poorly conductive soil such



Figure 3 – Typical high-pressure Ground Rod clamp

as buried in a dry, sandy layer, the radial inductance can be calculated as being in air (a very poor conductor). When the radial runs in highly conductive moist soil (or doped soil), the inductance of the wire is shunted by the soil's conductivity, making it unimportant.

Since copper strap has lower inductance than wire, it is recommended for the radial run. The strap's extra surface area reduces the inductance and the sharp edges allow for a high E field concentration forcing more charge into the soil. Short multi-point (like barbed wire) type grounding systems have been tried and have not been as effective as the sharp edge of copper strap for ground rod interconnecting material or for radial runs without rods. Copper strap radials have been proven successful on bare mountain top solar powered sites where ground rods could not be used. The strap edges helped disperse the strike's deposited charge to the tower by arcing onto the mountain surface, saving the solar powered radio equipment at the site.

Adding ground doping material to your radial trenches and rods can be helpful. Stay away from gels and other chemicals that can shorten conductor life. All add-on conductive earthing materials do little except make your copper conductors larger (more conductive surface area). This gives some percentage of improvement but it still must interconnect to conductive soil where it has both salts and moisture. If the soil is dry around the earthing material, the connection to earth will be poor, regardless of the advertised claims. If the area is not large enough, the earth connection will suffer. By increasing the area of your ground system with the addition of more radials, the same improvements can be obtained for less money.

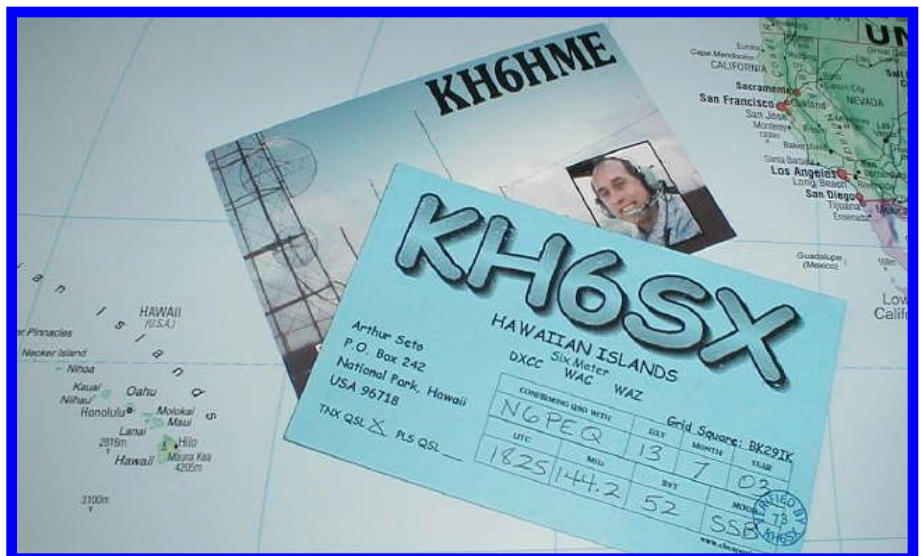
Longevity

After doing all this work, Mother Nature still has a way of making anything we do temporary. Once a ground system is in the ground it will start to age. Copper and other metals are attacked by acids, while aluminum is attacked by bases. Other chemicals may be present in the soil causing decreased effectiveness of the grounding materials. This is why maintenance testing is important. While some ground systems last 30 years, others don't even last two years! There are two ways of finding out if your ground system is in need of work. One is after a lightning strike and is too late! The other is to measure the system. An old timer once told me that he tested a ground by disconnecting it from everything and connecting it to power "hot" through a 30 amp fuse. If the ground was good, the fuse would blow. This is not the way to test a ground and it could change the soil conductivity by attempting such a test. The proper way is to use an earth resistance meter providing a fall of potential type test. Be careful when connecting a ground system to your electrical utility ground rod. Depending on ground conductivity, harmonic and other currents, there could be current flow causing a spark when connected.

de N6CCE

GORDO DOES TROPO!

Come to the monthly club meeting on June 17th, and find out what it takes to make a QSO across 2,500 miles on 144 MHz through 5.7 GHz! The infamous Gordon West 'WB6NOA' will teach us the basics of making that first tropo contact across the Pacific to the islands of Hawaii. Hear actual record breaking tropo contacts. Learn how weather plays an important role in long range VHF/UHF ducting. Listen to live reception, way up at 10 GHz. Find out about the planned California to Hawaii shot on 10 GHz this summer! The tropo season is just around the corner, so make plans to be at the OCARC June meeting. Don't miss it!



A Ham's Puzzle:

by Bob, AF6C

At the base of a set of long circular stairs is a wall plate with three light switches; all are off. The switches control three ordinary 60 watt light bulbs located in a room at the top of the circular staircase. None of the lights in the room may be seen from the bottom of the stairs. How can you tell which switch controls which light and not go up the stairs more than once? Email me with your answers or if you need a clue.



Answer to last month's puzzle:

The three young hams have been licensed nine, two and two years! The solution is simple if you do two things. The first is to realize that, while you have no way of knowing the number of the house next door, the census taker can find it out easily. The second is to make a table of the possibilities as shown below. Since the sum of the young hams licensed years is the same as the house number next door, you should add that into the table too.

Years as Hams					
#	A	B	C	Product	Sum
1:	36	1	1	36	38
2:	18	2	1	36	21
3:	12	3	1	36	16
4:	9	4	1	36	14
5:	9	2	2	36	13
6:	6	6	1	36	13
7:	6	3	2	36	11
8:	4	3	3	36	10

Since the census taker returns saying he needs more information after seeing the house number next door, it can only mean that the house next door is number 13 and there are two possibilities, #5 or #6. The lady clarifies the solution by saying the one licensed the longest is currently on the radio, ruling out case #6. Simple isn't it once you see the answer!?!?

Feedback on this column - Please!

April Meeting Notes:

The April 15 OCARC general meeting was called to order by President Ken W6HHC at 7:07 PM. Roll call of Board members revealed only four were present with many at the DX convention so an informal business meeting was held. April Moell, WA6OPS gave the program about the Hospital Disaster Services Communications System. Those interested in finding out more about this group are encouraged to look on the web at www.hdscs.org or contact April.

After the break President Ken covered the following:

- Dues are past due.
- Field Day will be at the Los Alamitos Reserve base. Team captains are needed. Cheryl, KG6KTT is the food chairperson.
- July 13, 2005 is the day OCARC will be at the booth at OC Fair, Kristin Dankert, K6PEQ is coordinating this event.

Joe Moell KØOV indicated that T-hunt opportunities are available as early as May 15 for Advance participants and May 21 for Beginners. For more information you can go to www.homingin.com.

Bob, AF6C informed the group that the club web page has an "Easter egg" opportunity on it now.

Frank WA6VKZ has ham radio equipment to get rid of and he is having a yard sale next Saturday.

Bob Evans, WB6IXN showed the gathering a QSL card for the Newport Amateur Radio Society and other items from the W6MRO club. He told the group that those who would like to improve their CW skills can tune in to the Orange County Wireless Net on Sundays at 9 am (7.086 MHz).

Ken, W6HHC, gave an overview on next week's Baker to Vegas race. This year the club is supporting the Orange and Garden grove Police Departments in the race.

See: **Mtg. Minutes** on page 10

Communications Experts

Wanted

*The following communications was received by our club from the **State Military Reserve**.*

The Communications Detachment of the California State Military Reserve's 40th Infantry Division Support Brigade, is seeking persons with radio and communications experience and expertise to train and support soldiers of the California National Guard.

As provided for by the Selective Service Act of 1940 and the State Military and Veterans Code, the California State Military Reserve (CA SMR), is a vital component of the homeland defense and internal security of the State of California.

CA SMR soldiers provide many vital paid and unpaid services to local California Army National Guard units. They are sworn military personnel and wear the uniform of the California Army National Guard with distinctive CA SMR insignia. Prior military service in any branch of the armed forces is a plus, but not required. Applicants must be residents of California, be 18 to 63 years of age, in good health, and citizens of the U.S. Both male and female applicants are welcome.

The CA SMR is charged with establishing and operating the Emergency Communications Network for the California National Guard. CA SMR soldiers in the Orange/Los Angeles County area meet at the Los Alamitos JFTB on the first Saturday of the month. CA SMR soldiers also train Cal. Guard soldiers in the area of communications. When on active duty, CA SMR soldiers are paid at the same rate as Cal. Guard soldiers.

We're looking for a few good men and women who would like to serve their country, enjoy the camaraderie of the Military community and utilize their talents for the good of

See: **CA SMR** on page 9

May 6, 2005 Board Minutes:

There were 18 present with 9 being board members.

Director's Reports:

- Programs- May will be Echo link, June will be 2M Tropo
- Activities- The club potluck is scheduled for Saturday July 30
- Technical- nothing to report
- Membership- Not present
- Member at large- New ham info is has been received and the RF will be mailed to them.
- Publicity- Info on Field Day is being prepared.

Old Business:

A field day planning meeting needs to be scheduled. Possible FD Capts. are; Ken Konechy, Ken Reilly and Elmer Thomas. Due to scheduling a pre-FD meeting will be held via email. The ICE filter order for FD was lost by the vendor. It has been placed again.

The club roster will be included in the May RF. Ken Reilly will be the June RF editor.

The board meeting will be held at the Katella Grill next month. 7:30 AM breakfast and 8 AM meeting.

New Business:

Membership Director Cindy Hughes informed the Board that her duties with the Red Cross are interfering with her club duties. The Board accepted her offered resignation. After discussion President Ken appointed Dan Dankert to replace Cindy and Lowell Burnett to replace Dan as Member at Large.

Frank Smith asked for help with taking down antennas at his home. Bob Eckweiler and Ken Reilly volunteered to help.

The 75th anniversary of the club will be in 2008. Discussion was held regarding the celebration of this event, including the possibility of a special club call for the year. Further discussion will be held.

Kristin Dankert is making a collage of club photos to be displayed in the booth at the OC Fair. Please send contributions to her. Sign ups for the fair for 7/13/05 are still going on.

CA SMR from page 8

the community and their country. Share the pride and sense of accomplishment that goes with belonging to an outstanding organization.

Photos and information about the new IC4U Communications Vehicles purchased by the Guard and the CA SMR Communications Mission can be found at:

<http://www.calguard.ca.gov/casmr/ic4u1.htm>

For further information, contact:

Major Fred-Otto Egeler
Public Affairs and Recruiting Officer
40th ID (M) Support. Brigade,
HQ CO, 1st BTN, CA SMR

Good of the Club:

Rich Helmick and Bob Buss thanked the members who volunteered to help with the Baker to Vegas race. Rich also asked for volunteers for the Mojave Death Race June 11, 2005 (see article in this edition of the RF).

The meeting adjourned at 8:49 AM

Rich. KE6WWK

Photos from the DX Convention in Visalia:

OCARC Members go wild!

Photos by Jim, N6DHZ



Mtg. Minutes from page 8

Correspondence from Falcom Communications regarding a scan directory was read.

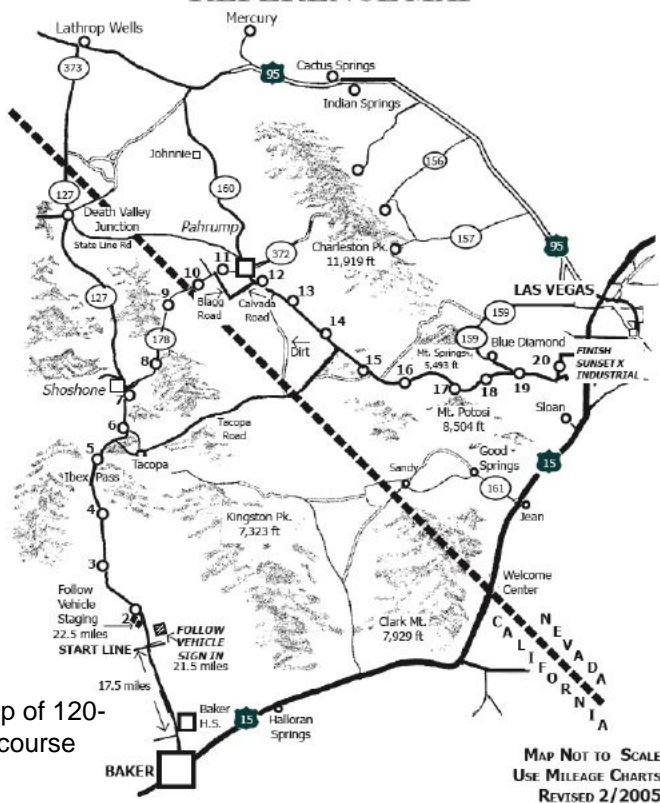
President Ken noted that the RF editors are being rotated. This month AF6C will be editor. If you'd like to be editor for a month speak up at any meeting.

The meeting ended at 9:08 PM and a good of the club raffle was held. Frank, WA6VKZ, donated two J-pole antennas for the raffles.

Respectfully submitted,
Rich Helmick, KE6WWK
Secretary



**BAKER TO VEGAS
CHALLENGE CUP RELAY
REFERENCE MAP**



ORANGE COUNTY AMATEUR RADIO CLUB, INC
P.O. BOX 3454
TUSTIN, CA 92781-3454

First Class Mail

Time Dated Material.
Please Expedite!!