Hello OCARC,

Cheryl and I made an enjoyable trip across the US last month. For the time being we are settled in at Canton, MA.

I can see from the photographs that the OC Fair worked out. The Field Day submission has been made, we should expect to see some rankings soon. I know everyone had a good time at Field Day, so that means a win for all of us.

I will be hunting for a good radio club to join here in New England though.

Have a happy and safe summer.

73, Willie - N8WP

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Vice Prez Sez

With another successful Field Day over, we are already preparing for the next one by storing the equipment, towers and servicing the Club’s generator. We look ahead into more fun with great speakers, the 75th anniversary reunion in September, the club auction in October and the Christmas party in December.

I hope you have a great month and see you all at the meeting!

73,
DE Nicholas, AF6CF

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The next general meeting will be:
Friday, August 15th
@ 7:00 PM

We will be meeting in Room 208
In the east Red Cross Building
08!

March 21st (Friday 7:00pm) 2008 Board of Directors:

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Vice President:
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OCCARO Delegate:
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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):
7.068 ± MHz CW OCaWN
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

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 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 charge if you’d like to have your badge mailed to you.
SEPTEMBER 19th SPECIAL 7:00 EVENING EVENT

Attention Members and Friends!!!

This year is the OCARC’s 75th anniversary and we are planning a special event celebration at the September general meeting.

There will be chatting, dissertations, exhibits and FOOD for everybody, so mark your calendars to make sure that you don’t miss this event.

OCARC 75th Anniversary Program:

1) September Date and Place

The Reunion will take place on September 19, 2008 at the Red Cross Building

2) Catering

Pizza and soft drinks will be served at no cost to members and visitors.
3) **Dissertation from Club Historian**

The club historian will prepare a speech about the club and either himself or a speaker will read it.

4) **Exhibits, Old Radio Receivers, Transmitter**

We will have a Transmitter/Receiver, Magazines and books from the 1933 era.

5) **Teleconference w/Remote members**

Members unable to attend personally will check in via Skype audio/video.

6) **Time Capsule for 100th**

All the Magazines, books, pictures, etc and maybe the Transmitter/Receiver from 1933 along with an attendance list and certificate will be placed in a Time Capsule to be stored at a designated place not to be opened until the 100th Anniversary party in September 2033.

**All present members, and past members are invited to share an evening of nostalgia, friendship and fun.**

**DO NOT MISS THIS MEMORABLE OCCASION!!!**
The OCARC program for the August
Amateur Radio – Do We Take Too Much For Granted?
Presented by Art Goddard

Neither our Constitution nor Bill of Rights create any entitlement in the Amateur Radio Service. Rather, we are expected to earn our keep, per paragraph 97.1 of the FCC Rules. So how are we doing? Ask a Ham and you’ll probably hear that we’re doing OK. Ask an elected official or a member of the general public and you’ll likely get a blank stare. In this case, ignorance is not bliss. Government and public perceptions will continue to influence how Amateur Radio fares into the 21st century.

How could we determine the public benefit of the entire Amateur Radio Service? How would we get our story out to decision-makers and the public? Who should do it?

August’s OCARC program will be conducted “Town Hall” style by Art Goddard, W6XD. Art is well known for his involvement and promotion of Amateur Radio. Licensed for 52 years, he is Past Director, ARRL Southwestern Division.

Secrets of DXpedition Doctoring ©
Arnold I. Shatz, M.D., FACS
N6HC

Ever since my first CW contact with Danny Weil, who traveled the world in his sailboat Yasme, the thought of going to an exotic isle to set up an amateur radio station and talk to the world intrigued me. It was only after I “retired” from active medical practice that the opportunity presented itself and I could spend six weeks away from home. But there was a proviso that was proffered with the invitation to join a full-fledged, world class Dxpedition…providing medical coverage for the team in addition to the usual activities that everyone is expected to do. I knew going to medical school had a golden lining! This was my ticket into the world of the Dxpeditioner.

How does one prepare for this responsibility? There is no hospital, pharmacy or surgical supply warehouse on a deserted island to call upon should a contingency arise. What type of medical/surgical situations could present themselves that might require my expertise? What should a Dxpedition doctor bring along to adequately deal with these situations? Here is how I decided to provide health services for my teammates.

There are many web sites available that provide guidance regarding necessary vaccinations and precautions that should be taken by visitors to various parts of the world. It is prudent to ask each team member to consult the web site and consider their own health and immunization status against the precautions defined by the experts in travel medicine. http://www.travmed.com A thorough check-up by their primary care physician and dentist prior to embarking on long distance travel should be considered mandatory. It is far better to discover a pending problem at home then trying to deal with that same problem with very limited medical resources.
As the medical officer for the trip, I ask for an outline of each team member’s vital statistics, medical and surgical history, the name, dosage and frequency of administration of all medications (prescription and over-the-counter) as well as allergies to foods and medications. This information gives me some insight into what problems I may encounter with each individual and what special medications or supplies may become necessary. Each individual is responsible for bringing their own medications including their treatment of choice for motion sickness. I encourage each member to put a personal first aid kit together. This should include an extra pair of eye glasses, sun screen and sun glasses, SPF lip balm, band-aids, antibiotic ointment, insect repellant and analgesic of choice.

My medical kit contains specialized supplies that may become necessary in specific situations. Much of the contents of this kit are available only to a licensed medical practitioner. Please see Appendix #1.

Notice that there is no cardiac monitor, defibrillator, oxygen tank, Ambu bag or pulse oximeter. I am not in a position to provide advanced cardiac life support on an isolated ocean isle. Fortunately, I have not needed these supplies in the past, but there have been Dxpeditions where fatal heart attacks have occurred, e.g., Aves Island Dxpedition - April, 2006.

Each individual should have current medical insurance coverage. It is prudent to purchase evacuation insurance should an emergency situation occur and a swift exit from the island becomes mandatory. I have purchased coverage through DAN (Divers Action Network) for $29.00/year.

On my last two Dxpeditions, I have utilized almost everything in my medical kit! Fortunately, I have not been lacking anything in my medical kit…yet. Since all my trips have included air and sea travel, I have treated motion sickness quite frequently. Prophylactic use of a “scope patch” is highly recommended because seasickness can be accompanied by nausea, vomiting, loss of appetite and dehydration. Being in that state makes you useless as a team member, once landfall is made. Recovery may take a day or two and a valuable set of hands and a strong back are lost to the team setting up the camp and equipment.

Dehydration can occur from plain hard work in the hostile environment of an exposed ocean island. It is mandatory to take frequent work breaks with water consumption, salt tablet supplements or electrolyte solutions. Proper clothing should include long sleeved shirts and pants made from lightweight and quick drying material as well as a broad brimmed hat to protect your ears, nose, lips and neck. Work gloves protect the hands from lacerations and blisters. Failure to heed this recommendation usually results in a first or second degree sun burn which can incapacitate an individual and make for a very uncomfortable and less than memorable trip. If ice is not available for topical treatment of the burn, then sedation and analgesics are the only relief available.

Gastrointestinal disorders are a common problem. The diet on a Dxpedition is usually quite different than what one’s system has become accustomed. It may be quite salty due to the use of ocean fish as the main entrée. Dehydration can lead to constipation and local water, unless it is bottled, can result in traveler’s diarrhea. Food and drinking water safety is key to maintaining a happy intestinal tract. This also includes hand washing prior to eating and after using the “long drop”.

Marine hazards present unique opportunities for medical care. Jellyfish, ray or urchin stings can be quite painful and result in infection. Insect bites by mosquitoes, spiders, bees or ticks present their own set of nuisances. Avoid contact with dangerous marine life, wear protective, aquatic foot covering and liberally use insect repellant.

On two of the three major expeditions in which I have participated, lacerations of the extremities were sustained that required sutures. It was gratifying to both the patient and the physician that we were well prepared.

A case of earwax occluding the external auditory canal resulting in impaired hearing was one of the more unusual maladies that I have managed. A fractured ankle was probably the most serious occurrence that befell one of my teammates.

Accepting medical responsibility for twelve to twenty-four Dxpeditioners can be daunting but very satisfying, especially when you are well prepared and everything goes smoothly. I have played a part in the K7C, 3B7C and TX5C Dxpeditions. I’m looking forward to my next radio and doctoring adventure.

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DXpedition Doctoring - Appendix #1

Suture set (1) with needle driver, forceps, scissors, hemostats (2) and scalpel (#15 blade)
Suture removal set (1)
Bandage scissors (1)
Sutures: Chromic 4-0, 3-0; nylon 3-0, 2-0 (3 of each size)
Ophthalmic hand cautery (2)
Band-aids of various sizes (1 box)
Steri-strips of various sizes (multiple packs)
Isopropyl alcohol (1 pint) and box of individual packets (1)
Betadine (1 pint)
Gauze pads – Sterile – 4x4 (1 box)
Sterile cotton tips (1 box)
Syringes:
  - 20cc (3) luer-lock
  - 10cc (30) luer-lock
  - 5cc (30) luer-lock
  - 2cc (30) luer-lock
  - 50cc irrigation - catheter tip (2)
Needles:
  - 18G - 1 ½” (30)
  - 22G - 1 ½” (30)
  - 25G - 1 ½” (30)
Foley urinary catheter – 16F (1)
Sterile latex gloves (10 pkgs) size 7 ½”
Sterile Barrier sheets (box of 10)
Sterile saline bottles – 500cc (5)
Sterile water bottles – 500cc (5)
Sun Block
Insect repellant
Hand sanitizer foam or pads
K-Y jelly (3 large tubes)
Medications:

  - Transderm Scopalamine patches (25 doses)
  - Phenergan injectable – 25 mg dose (multi-dose vial)
  - Phenergan tablets – 25 mg dose (50)
  - Phenergan suppositories – 25 mg dose (10)
  - Benadryl tablets – 50 mg dose (25)
  - Cipro tablets – 500 mg dose (50)
  - Bactrim D-S tablets (20)
  - Ampicillin capsules - 500 mg dose (50)
  - Vibramycin – 100 mg dose (50)
  - Keflex tablets – 500 mg dose (50)
  - Prednisone tablets – 5 mg dose (25)
  - Prednisone injectable multi-dose vial (1)
  - Kenalog cream (5 tubes)
  - Epinephrine 1:100,000 (1 multi-dose vial)
  - Toradol injectable (2 multi-dose vials)
  - Aspirin 325 mg (200)
  - Ibuprofen 200 mg (200)
  - Tylenol 650 mg (200)
  - Vicodin
  - Neosporin ointment (2 tubes)
  - OTC “cold” medications
  - Pepto-bismol tablets (1 box of 48 tablets)
  - Lomotil tablets (50)
  - Cortisporin otic ear drops (one bottle)
  - Gentamicin ophthalmic ointment or drops

Stethoscope (1)
Blood Pressure cuff (1)
Otoscope / Ophthalmoscope
Thermometer oral strips
Air Cast
Eye patches (10)
IV starter kit with a liter of NS and D5/1/2NS with IV cannulas
OCARC at OC Fair Ham Radio Booth
by Ken W6HHC

Each year, the Orange County Council of Amateur Radio Organizations (OCCARO) sponsors and organizes a Ham Radio booth at the OC Fair. Each day, the Ham Radio booth is staffed by a different radio club or radio organization. This year, OCARC members provided staffing for two days of the OC Fair, Sunday July 13 and Wednesday, July 30. Below are a few pictures of OCARC members staffing the Ham Radio booth. Credit for all the photography belongs to Bob AF6C.

Fig 1 - Kristin-K6PEQ and Dan-N6PEQ staffing the afternoon shift at OC Fair.

Fig 2 – Bob-AF6C (center) and Ken-W6HHC take over staffing for the evening shift at the Ham Radio booth from Kristin-K6PEQ.

Fig 3 – An OC Fair is NOT a county fair without all the food booths...like the ChuckWagon.
Heathkit of the Month

The HD-1250 Solid-State Dip Meter and Its Predecessors
by Bob AF6C

The Dip Meter, known as the Grid Dip Oscillator (GDO) in the days of vacuum tubes, has always been a practical piece of test equipment for the ham who builds, tinkers or constructs antennas. With such popularity it is a product Heathkit produced in various forms over a long part of the company’s existence.

The Heathkit GD-1/1A/1B Grid Dip Meter:
The first Heath Grid Meter appeared in the October 1952 Heathkit Flyer and was designated the GD-1. The GD-1 is a handheld unit that plugs into an AC wall socket. The front of the unit has a meter, a phone plug and a SENSitivity control with an OFF/ON switch. Also on the front is a scale for the capacitor which is turned by a thumb knob that extends out of the case on each side. On the back side is a switch that selects either OSCILLATOR (GDO) mode or DIODE (absorption wave meter - AWM) mode.

The GD-1 was short-lived, being replace by an improved GD-1A in 1953, and then the GD-1B later that year, each offering circuit improvements. All three versions are very close in appearance and cover the same frequency range of 2 MHz to 250 MHz using five plug-in coils. Later in the production Heath offered the 341-A low frequency coil set. The set contains two additional coils to cover the lower frequencies of 350 KHz to 2 MHz. The 341-A includes a calibration chart that relies on the “Logging” scale of the GD-1 series tuning knob. In 1956 the GD-1B sold for $19.50 (the same price as the original GD-1 cost in 1952) and the LF 341-A coil set sold for an additional $3.00. A European version of the GD-1, the GD-1U was also produced; it was designed to run off of 220 VAC. The GD-1B remained in production until 1960, when the growth of solid-state devices necessitated a design change.

The Heathkit HM-10 Tunnel Dipper:
As a replacement for the GD-1 series, Heath came out with the HM-10 Tunnel Dipper in 1961, followed shortly in 1962 by the HM-10A. The Tunnel Dipper uses a then revolutionary new semiconductor device called the tunnel diode. This is a specially designed diode that has, over a narrow range, a negative resistance. That is, over part of the diode’s range, as the current increases the voltage across the diode decreases. This phenomenon allows the diode to act as an oscillator when in the proper circuit. The tunnel diode oscillator is followed by three stages of transistor amplifiers to drive a 0–1
milliampere meter. The tunnel diode has one problem; being sensitive to temperature, it won’t operate in cold temperatures below freezing.

**Heathkit HM-10A**

This is a minor disadvantage because the *Tunnel Dipper* runs off a single AA battery and you aren’t tethered to AC power when working on outside antennas and feedlines. The HM-10A covers 3 to 260 MHz using six color-coded coils. The tuning capacitor has a large vernier drum dial offering long dial scales for reading the operating frequency. The HM-10A case is made of rugged extruded aluminum and has a snap-on cover that protects the meter and controls, and also houses the six coils. The three position slide switch selects **OFF, OSCillator or DIODE**. The DIODE position allows HM-10 to be used as an absorption wave meter utilizing the meter for indication. This is the only Heath dip meter that doesn’t have a headphone jack, so you can’t listen to a modulated signal. In 1961 the Tunnel Dipper mail order price was $34.95. It disappeared from the Heathkit catalog around 1970. The HM-10A *Tunnel Dipper* was replaced in 1975 by the HD-1250 *Solid-State Dip Meter*.

**The Heathkit HD-1250 Solid-State Dip Meter:**

The last of the Heathkit dip meters is the HD-1250. It was manufactured from 1975 through 1991. The HD-1250 uses a Motorola MRF502 high-frequency transistor for the oscillator, and an RCA 40673 MOSFET and two hot-carrier diodes for the detector. It has a phone jack for earphones; an item missing in from the *Tunnel Dipper*. The HD-1250 runs off a standard NEMA 1604 9-volt battery. It covers 1.6 MHz to 250 MHz utilizing seven color-coded plug-in coils. The two pound dip meter measures 2” x 2-5/16” x 5-7/8” H x W x L excluding the plug-in coil.

In the oscillator mode the oscillator transistor runs as a Colpitts oscillator using a split tuning capacitor operated by a large circular thumb knob that protrudes through a slot on each side of the case, similar to the GD-1 series. Two plastic windows allow viewing the seven color-coded scales of the dial on the knob, corresponding to the seven coils; an eighth Logging scale is marked on the dial. A smaller **OSCillator LEVEL** adjusting knob also protrudes through the right side of the case. This control sets the voltage for the oscillator transistor and thus the strength of oscillation.

To operate the dip meter in the absorption wave meter mode you don’t need to throw a switch as in the earlier units. Instead you decrease the **OSC LEVEL** until the meter reads zero. At that point the oscillator is not oscillating but acts as a...
Q-multiplier for the tuned coil and capacitor. In both oscillator and wave mode, the MOSFET detector is directly coupled to the tuned circuit. This is practical because of the extremely high impedance of the MOSFET transistor. The detector circuit amplifies the voltage on the voltage on the tuned circuit and demodulates any AM modulation. The voltage is then fed either to the meter or to the headphone jack. When the headphones are plugged in the meter is automatically disconnected. Since the meter has a sensitive 150 µA movement, it is shorted by the ON/OFF pushbutton switch when in the OFF position. This dampens the meter movement and helps prevent damage from physical shock.

The Heathkit *Solid State Dip Meter* comes with a injected plastic storage case. The case holds the GD-1250 unit and the seven plug-in coils. It also has some room for additional small accessories such as extension probe cables, and custom probes.

The manual that comes with the HD-1250 has an eleven page section on using the HD-1250 *Solid-State Dip Meter*. Even though the manual admits there are many other uses, it shows how to use the meter for quite a few measurements or applications that are useful to a ham who builds or services radios or antennas.

In 1976 the HD-1250 sold for $59.95; by late 1989 the price had risen to $129.95.
The Grid Dip Oscillator:
Recent discussions on the ten meter net involved the “Grid Dip Oscillator” (GDO). Of course “Grid” is an old vacuum tube element term, and almost all new meters of this type are solid-state, thus the alternate term “Dip Meter”. However the acronym GDO is still often used even for the solid-state devices.

For years the GDO has been one of the handiest and most popular pieces of test equipment for hams who build transmitters, amplifiers and antennas. One reason for this is that it is a low cost device that has many practical uses, and is easy to operate.

How it works:
The GDO consists of a variable oscillator that covers a large range of frequencies using plug-in coils and a variable capacitor with a calibrated scale. The plug-in coil is external to the chassis and is the sensing device. A meter is connected so that it measures the level at which the oscillator is oscillating. This was accomplished on the original grid dip meters by measuring the grid current drawn by the oscillator tube, hence the name.

When the coil of the GDO is placed next to a tuned circuit to be measured and the GDO capacitor is tuned, the meter will dip when the GDO is tuned to the same frequency as the tuned circuit. If the coupling between the GDO and the tuned circuit is high the dip is quite broad. But once the dip is found the GDO is moved away until the dip is small and very sharp. At this point the oscillator frequency can be read on the capacitor dial. The GDO capacitor scale doesn’t have very good resolution nor accuracy, so one trick is to also listen for the oscillator signal in an accurate receiver. The tuned circuit doesn’t have to be a coil and a capacitor, it can be a trap or even an element of an antenna, a length of coax, or a length of wire.

Remember the meter is measuring the strength that the oscillator is oscillating. When a nearby circuit is resonant at the same frequency as the GDO it absorbs some of the energy from the oscillator by mutual coupling, causing the oscillator to weaken.

Absorption Wave Meter Function:
Most GDOs also have an absorption wave meter function (AWM). When in this mode the oscillator is disabled and is replaced by a diode detector. If the GDO’s coil is placed near an oscillating circuit and tuned to that frequency, the meter will move upscale. Many GDOs also have a jack for earphones so you can listen to a modulated signal. The wave meter function is good for detecting parasitic oscillations in transmitters and oscillators as well as determining if an oscillator is operating or is on frequency.

The GDO can also be used as a crude signal generator for troubleshooting and checking radios. With its external coil and small capacitor scale, it isn’t accurate, but again the frequency can be set by using a good communications receiver; that’s something most hams have in their shack today, even if it’s the receiver part of a transceiver.

What a GDO Can Do:
The GDO or Dip Meter can perform many tasks, here are just a few:
1. Receiver alignment (GDO mode): Preset tuned circuits; use as signal generator for aligning RF and (if in range) IF stages.

2. Transmitter adjustment: (GDO mode): Preset tuned circuits.

3. Transmitter Adjustment: (AWM mode): Determine frequency; peak tuned circuits; perform final stage neutralization; check for parasitic oscillations.

4. Adjust traps (GDO mode): Adjust series and shunt traps in transmitter and receiver circuits.

5. Measure LC components (GDO mode): Determine unknown values of capacitors, coils, and toroids.

6. Measure Q (GDO mode): Determine the relative Q of coils.

7. Measure Field Strength (AWM mode): Use to measure field strength in the shack and around antennas.

8. Feedline Measurements (GDO mode): Use to measure and adjust quarter and half-wavelength stubs and sections. Measure SWR on open line feeders.

9. Antenna adjustments (GDO mode): Check antenna traps; adjust element resonance; measure bandwidth. Roughly measure antenna front to back and front to side ratios.

There are a lot more uses for this inexpensive piece of test equipment.

For more information on dip meters (GDO’s) look in almost any Amateur Radio Handbook going back to the forties!

Millen No. 90651 Grid Dip Meter sold in late fifties and early sixties. It covered 1.7 to 300 MC (MHz) using seven coils. Four additional VLF coils were available to cover down to 220 KC (KHz).
A HISTORY OF THE ORANGE COUNTY AMATEUR RADIO CLUB - Part 6
by Bob - WB6IXN, Club Historian

In 1966, Jack Shaw, WA6YWN, was elected president. Under his leadership and with Alex W6WRJ (later W6RE) appointed as the Convention Chairman, OCARC sponsored, along with other local radio clubs, the ARRL Southwestern Division Convention at Disneyland. (Convention Booklet in Historical Records) The editor of the club “RF” newsletter that year was Bob Evans, WB6IXN. The club had a new meeting location, the Lincoln Savings and Loan on 17th Street in Santa Ana (just across Bristol from the Santa Ana College campus).

In 1967, Jim Hill, WB6GPK, was elected president. The May meeting featured Darryl Branstetter of Pacific Telephone. He demonstrated world-wide telephone links. He telephoned G3GEW, Dave Hollander’s friend in England. A montage of photos of the event, done by Jack Shaw, appears in the Historian Records. Field Day was held on Mountain View High School property at Segerstrom Ave. & Raitt St., in Santa Ana. The Club amassed 1641 contacts on 80 through 2 meters, and a total of 10,640 points. For comparison, In 1966, we had a total of 7,832 FD points.

Jack Shaw, YWN, had the Santa Ana Register photograph, Dave Hollander, W6COJ, and Bud Barkhurst, WA6VPP, in preparation for Field Day. The picture appeared in the Thursday, June 22 edition of the Register (copy in Historical Records). The Tuesday evening, Dec. 12 edition of the Register carried an article (on file) naming Billy, WB6CQR, as Emergency Coordinator for the Orange Section. The release was sent to the Register by George Hart, the ARRL Communications Manager.

In 1968, Dave Hollander, W6COJ was elected president. In the January issue of QST, our Jerry VerDuft, WA6ROF [now ADØA], was pictured (on file) with a group of ARRL leaders at the combined Pacific-Southwestern Division Convention ARPSC meeting held in Los Angeles.

Jack Shaw underwent surgery and recovered rapidly at home. John Trotter, W6BVX, brother of Shelley, W6BAM, became a Silent Key on May 27. Backing up a bit, on Feb. 10, 1968, Dave Hollander, WB6NRK [now N7RK], the son of Jack, WB6UDC [now N6UC], earned a write-up in the “Trouble Shooter” column in the OC Register, for his efforts trying to contact Manta, Ecuador, for an Orange couple. (on file, in March “RF” newsletter)

The March issue of the Garden Grove High School “Argolog” newspaper carried an article on our Keith Salyards, WB6RJX, the station custodian of GGHS Amateur Radio Station WB6WPK. Keith was involved in a message handling program for teachers and students at GGHS. (file: Apr.’68 “RF”)

On Sunday, March 3, 1968, OCARC members Jerry Ver Duft, ROF; Billy Hall, CQR; Ralph Alexander, WRJ; Bill Robinson, WB6WOO; Dave Yap, WA6TSU; Roy Maxson, DEY; and Dave Hollander, COJ, along with other hams, all members of the Orange County Radio Emergency Corps, banded together to provide communications for the Heart Fund Drive. The operation was dubbed “Heart Line”, and was given a write-up with photograph (in Club records) in the “Daily News Tribune” dated Thursday, March 28, 1968. The OPs were awarded a plaque for their effort. (award in Club records)

On May 19, 1968 the OCARC and the Anaheim Club sponsored a joint picnic. Members who signed the roster are listed in June 1968 “RF”. Ted Glick, K6LJA, and Jack
OCARC History – cont’d

Shaw, YWN, put together a montage of pictures of the event. (copy in Club records) On the weekend of June 22-23, 1968, the Club again held Field Day at 2801 S. Raitt Street and Segerstrom, at the Mountain View H.S. site.

In Oct., 1968, Jerry VerDuft, WA6ROF, reported that the Club-sponsored message handling program at the Orange County Hospital had been discontinued due to lack of patient interest.

On June 15, 1968, a joint SCN-RN6 meeting was held at Redondo Beach concerning ARPSC. Jerry, ROF, attended and was pictured in the Sept. issue of QST. (pix also in Oct. 1968 “RF”)

At the October meeting, Werner Escher, South Coast Plaza, invited OCARC to sponsor Christmas messages to overseas servicemen. The Club accepted, and Billy Hall, CQR, was nominated chairman. His steering committee consisted of: Jerry, ROF; Dave Browers, RVM; John Vaideen, W6BNX; Bruce Scholes, WA6BYY; and Mildred, W6PJU. In addition, Alex W6WRJ, Bud WA6VPP, Bill WA6WOO [now N6BR], YWN, LJA, TDO, Paul Sheridan, and TYZ, Ralph Riesmiller, also provided services…

(to be continued next month
…Bob Evans, WB6IXN, Club Historian.)
The OCARC July General Meeting was held at the Red Cross complex in Santa Ana at 7PM on Friday evening, July 18th. There were a total of 40 members and visitors present. A quorum was present with all of the club directors attending, except Willie-N8WP (who was traveling to a new job in Boston) and Bob-AF6C.

PROGRAM:
A great program was presented by speaker by David Corsiglia – WA6TWF on:

“WA6TWF Super System”

David explained that the Super System provides users with many state-of-the-art capabilities which allow users to converse with hams all over the world. This system is especially helpful for hams who are confined with small antennas by CC&Rs. The Super System currently has five 440 MHz repeaters and provides a remote base station.

More info on the WA6TWF Super Station can be found at:

www.WA6TWF.com/

OLD BIZ:
- Club VP Nicholas-AF6C explained that OCARC “el Presidente” Willie-N8WP had taken a new job in Boston for a few months and that the VP would act in his place while Willie was out of town.
- The Field Day was declared a success and Willie-N8WP, our FD Chairman, had reported that this was our second best FD score ever...even without any sun spots.
- Ken-W6HHC reported that a work-crew was being organized for Saturday morning, July 19, to retrieve the remaining club FD equipment (towers, etc.) from the base.

Submitted by: Ken Konechy W6HHC
OCARC Secretary

Fig 1 – David-WA6TWF demonstrates bringing up the “Super System” during the presentation.

Another topic David-WA6TWF presented dealt with using a bulkhead ground plate to eliminate RF from getting back into the shack as shown in Fig 2 below.

Fig 2 – A Diagram of how to install a bulkhead grounding plate to eliminate RF getting back into rigs

Note 1 - 3 inch long ground strap to 8 ft ground rod
The OCARC Board meeting was held at the JagerHaus Restaurant in Anaheim at 8:15AM on Saturday, 2008-08-02. There were a total of 11 members and visitors attending. There was a quorum of directors present, with the following officers absent: Willie-N8WP (in Boston), Rich-KE6WWK, Hank-W6HTW, Chris-W6KFW, and Dan-N6PEQ.

DIRECTOR REPORTS:
- **Vice President** - Nicholas AF6CF reported that the following programs are planned:
  - August is Art Goddard on Ham Radio Future
  - September is OCARC Club Reunion
  - October is OCARC Auction
  - November is Clipperton Island DXpedition
  - January is the new Digital Radio DVD
- **Secretary** – Ken-W6HHC turned over an HRO invoice to the Treasurer. Ken reported the State paperwork for the corporation had been filed.
- **Activities** – Kristin K6PEQ and Dan N6PEQ reported that the club potluck would be planned for cooler weather.
- **Technical** – Bob-AF6C reported that good progress had been made with maintenance and repairs on the generator for storage.

OLD BIZ:
- **RF NewsLetter “Rotating” Editors**
  - Aug is Loran KD6LRD
  - Sept is Paul W6GMU
  - October is Kristin K6PEQ
  - November is Nicholas AF6CF
  - December is Bob AF6C
- **Field Day 2008**
  - The club’s two aluminum towers and bases have been stored at the QTH of Larry-K6LDC in Garden Grove.
  - The club generator will be stored at QTH of Rich KE6WWK. Board approved a motion to purchase a water-proof cover for storage.
  - Paul W6GMU hopes to firm up his position at OES on the JFTB base in about one month.
- **OCARC Club Reunion Planning**
  - The club reunion of all present and past members is planned for Friday, Sept 19th.
  - ????? is in charge of food.
  - Bob-AF6C is in charge of old radios display.
  - Ken-W6HHC is in charge of SKYPE connections to far-away members.
  - The club historian, Bob-WB6IXN, will be asked to present or display some club history.
  - A club time-capsule will be prepared.
- **OC Fair**
  Kristin – K6PEQ reported that the OC Fair Ham Radio Booth was a success this year. OCARC staffed the ham booth on two days. Gerald Fullerton – KD6JBL did a fine job in his first year a Chair for the OC Fair project.
- **OCARC Coffee Mugs**
  The club received its order for 10 coffee mugs to be used as raffle prizes and gifts for club speakers.
- **OCARC On-Line Registration**
  Bob-AF6C will activate the online Registration form on the WEB site. The Pay-pal mechanism is not yet implemented.
- **Ham Radio Camping Trip**
  The camping trip plans have been dropped.

NEW BIZ:
- Nicholas-AF6CF presented a short report on the recent weekend trip to the Owens Valley Radio Observatory (OVRO).
- The board confirmed that Willie-N8WP will continue to be president for the remainder of the year. Nicholas-AF6CF will act as president as required.
- Ken-W6HHC explained that it is difficult to get four people in one spot at the same time to transport the club generator. Ken will undertake a project to put the new generator on the trailer of the old generator, beginning in September.
- An updated list of the location of club assets was reviewed. [See Page 18 in this issue]

Submitted by: Ken Konechy W6HHC
Secretary
# CLUB ASSETS AND THEIR LOCATION

<table>
<thead>
<tr>
<th>Description</th>
<th>acquired</th>
<th>cost</th>
<th>where located</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generator 5 KW - Honda - on wheels</td>
<td>June-2000</td>
<td>$1,217</td>
<td>Rich Helmick - KE6WWK</td>
</tr>
<tr>
<td>(old) Generator 4 KW - Briggs &amp; Stratton - on trailer</td>
<td>May-1988</td>
<td>$589</td>
<td>Ida Yamachika</td>
</tr>
<tr>
<td>FD Power Cables</td>
<td></td>
<td></td>
<td>Ken Konechy - W6HHC</td>
</tr>
<tr>
<td>FD Guy ropes</td>
<td></td>
<td></td>
<td>Dan Dankert - N6PEQ</td>
</tr>
<tr>
<td>Stakes for Guy Ropes</td>
<td></td>
<td></td>
<td>Ken Konechy - W6HHC</td>
</tr>
<tr>
<td>50 ft Aluminum (stack) Tower by Universal w/ Machined base</td>
<td>June-2006</td>
<td>$900</td>
<td>Larry Hoffman - K6LDC</td>
</tr>
<tr>
<td>50 ft Aluminum (stack) Tower by Universal w/ bolted base</td>
<td>June-2008</td>
<td>$1,300</td>
<td>Larry Hoffman - K6LDC</td>
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<tr>
<td>4 each 10-ft. Rohn towers (rusty)</td>
<td>August-1998</td>
<td></td>
<td>Dan Dankert - N6PEQ</td>
</tr>
<tr>
<td>4 each 40-ft push-up mast (military - in boxes with guy ropes)</td>
<td>March-2005</td>
<td></td>
<td>Nicholas Haban - AF6CF</td>
</tr>
<tr>
<td>Military 24-ft tilt-up mast (in box with guy ropes and base)</td>
<td>March-2005</td>
<td></td>
<td>Kenan Reilly - N6CCE</td>
</tr>
<tr>
<td>24-ft yellow plastic push-up</td>
<td>March-2005</td>
<td>1</td>
<td>Ken Konechy - W6HHC</td>
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<tr>
<td>3-element Hygain 20M beam</td>
<td></td>
<td></td>
<td>Dan Dankert - N6PEQ</td>
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<tr>
<td>5-element Hygain 15M beam</td>
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<td></td>
<td>Ken Konechy - W6HHC</td>
</tr>
<tr>
<td>3-element 10M beam</td>
<td></td>
<td></td>
<td>Bud Barkhurst - WA6VPP</td>
</tr>
<tr>
<td>ARRL Flag</td>
<td>August-2002</td>
<td>$53</td>
<td>Dan Dankert - N6PEQ</td>
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<tr>
<td>American Flag</td>
<td></td>
<td></td>
<td>Dan Dankert - N6PEQ</td>
</tr>
<tr>
<td>OCARC Banner</td>
<td></td>
<td></td>
<td>Dan Dankert - N6PEQ</td>
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<tr>
<td>60-Cup Coffee pot</td>
<td></td>
<td></td>
<td>Ken Konechy - W6HHC</td>
</tr>
<tr>
<td>PA system</td>
<td></td>
<td></td>
<td>Cindy Hughes - KC6OPI</td>
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<tr>
<td>Wooden Podium</td>
<td></td>
<td></td>
<td>Dan Dankert - N6PEQ</td>
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<tr>
<td>Laminating machine</td>
<td>January-2002</td>
<td>$54</td>
<td>Bob Eckweiler - AF6C</td>
</tr>
<tr>
<td>Corporate Seal</td>
<td></td>
<td></td>
<td>Bob Eckweiler - AF6C</td>
</tr>
</tbody>
</table>

**Note 1** - if this item is ever sold by OCARC, the proceeds of sale are to be given to WA6VKZ
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!