The Prez Sez.....
by Tim N6GP

November is the month for our Thanksgiving holiday in the U.S. Personally, I resent those people who call this meaningful holiday "Turkey Day."

Having gratitude is a great way to live, and has many benefits for our lives. A November 2014 Forbes magazine article highlights 7 benefits from being grateful, including physical and mental health, and better sleep.

We have a lot to be thankful in our country, from the basics of food and shelter to our freedoms. What does this have to do with amateur radio? We have much to be grateful for. I am thankful to have so many friends in OCARC. We have a dynamic club with lots of smart individuals who have a wealth of knowledge to share. There is a lot of 'Elmering' going on, which is one reason why we have enjoyed our long history of almost 85 years.

By the time you read this, the December QST digital issue should be released. It will contain the much anticipated Field Day results, and word has it that we finished in 8th place in the 5A category [and 1st on West Coast in 5A]!! Congrats to our fine team who made this happen.

The ARRL is also making a big announcement for the 2018 operating event. I have some advance info that it will be called the International Grid Chase, and will be on HF as well as VHF. This will add even more fuel to the fire to the popularity of the FT8 digital mode that exchanges grid squares.

I am looking forward to seeing Doug Millar’s (K6JEY) talk on test equipment. He will be giving us some practical advice about test equipment, from cheap and affordable to first class. There is no reason to avoid the November meeting because of our election. There are no un-filled positions, and there will be no arm-twisting. You can still make nominations from the floor, if you like.

Tim Goeppinger N6GP
President OCARC

Next General Meeting

The November OCARC General Meeting program will be:

"Test Equipment and Measurements for Amateur Radio"

by Doug Millar K6JEY

The Prez Sez.....
by Tim N6GP

Next General Meeting will be on:
Friday, November 17, 2017
@ 7:00 PM
ENTER from the WEST SIDE entrance of the Red Cross Building, Room 208
Take elevator to the 2nd Floor. See you there!

The Prez Sez

by Tim N6GP

November 2017 – OCARC RF Newsletter - Page 1
2017 Board of Directors:

President:
Tim Goeppinger N6GP
(714) 730-0395
N6GP@w6ze.org

Vice President:
Jim Schultz AF6N
(714) 544-5435
AF6N@w6ze.org

Secretary:
Ron Mudry W6WG
(714) 840-3613
W6WG@w6ze.org

Treasurer:
Ken Konechy, W6HHC
(714) 348-1636
W6HHC@w6ze.org

Membership:
Bob Eckweiler AF6C
(714) 639-5074
AF6C@w6ze.org

Activities:
Tim Millard, N6TMT
(714) 744-8909
N6TMT@w6ze.org

Publicity:
Dan Dankert N6PEQ
(714) 599-3841
N6PEQ@w6ze.org

Technical:
Clem Brzoznowski, W0MEC
(714) 927-4065
W0MEC@w6ze.org

RF Editor – Rotating (November):
Tim Goeppinger N6GP
(714) 730-0395
N6GP@w6ze.org

Webmaster:
Ken Konechy, W6HHC
(714) 348-1636
W6HHC@w6ze.org

Assistant Webmaster:
Bob Eckweiler, AF6C
(714) 639-5074
AF6C@w6ze.org

W6ZE Club License Trustee:
Bob Eckweiler, AF6C
(714) 639-5074
af6c@w6ze.org

Club Historian(s):
Corey Miller KE6YHX
(714) 639-5475
KE6YHX@w6ze.org

Bob Evans, WB6iXN (Emeritus)
(714) 543-9111
WB6iXN@w6ze.org

ARRL Awards Appointees:
Arnie Shatz, N6HC
(714) 573-2965
n6hc@aol.com

John Schroeder, N6QQ
(562) 404-1112
n6qq@msn.com

Contact the Newsletter:
Feedback & Corrections:
rf_feedback@w6ze.org
Submit Articles:
editors@w6ze.org

Club Dues for 2017:
Regular/New Members* - - - - - - $30
Family renewal/Join** - - - - - - - $45
New Member Join Jul-Sept*** - - - - - - $45
Replacement Badge**** - - - - - $3

* New members Jan-March, w/badge.
** Two members or more, w/badge.
*** New members July-Sept, w/badge.
**** There is a $1.50 charge if you’d like to have your badge mailed to you.
Doug Millar will suggest a collection of test equipment appropriate for amateur radio bench use. He will show a variety of accessible and reasonably affordable test equipment appropriate for both newly licensed and for experienced hams. As such, Doug’s talk will help us in setting up or improving our own labs regardless of our level of experience. His suggestions range from the basic such as multi-meters to more advanced equipment such as oscilloscopes and spectrum analyzers.

Doug has an extensive background in metrology. He holds a Doctorate in Educational Technology, is active as Director of Education for the Owens Valley Radio Observatory. He offers metrology consultation to industry and conducts a small instrument repair service. Doug presents often and he has published a group of books and articles. Several years ago he authored the ARRL Handbook chapter on “Test Equipment and Measurements” and continues to serve as the ARRL Southwest Division Technical Advisor in Metrology.

Doug has a wide variety of interests. He enjoys HF CW DXing, AM, boat anchors, microwave, and astronomy. As such he is a past President of the Southern California DX Club and is a very active member of the San Bernardino Microwave Society.

Doug’s interest in microwave is highlighted by his EME activity on 144, 432, and 1248 MHz. He developed a moon bounce station running 300 Watts to a 10 ft dish that he sets up in the driveway and operates from the garage.

A ham since 1957, first licensed as KN6JEY in Redondo Beach, he currently resides and operates in Long Beach with his wife Helen, KI6LQV.

73, Jim, AF6N
Election Announcement

The OCARC 2018 Board election will be held at our General Meeting, Friday November 17. Other nominations will be taken from the floor.

List of Nominations from the Nominating Committee
Nominating period still open. OCARC members are encouraged to run for any of these offices.

<table>
<thead>
<tr>
<th>Office</th>
<th>Nominations for 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Tim N6GP</td>
</tr>
<tr>
<td>Vice President</td>
<td>Dan KI6X</td>
</tr>
<tr>
<td>Secretary</td>
<td>Jim AF6N</td>
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<tr>
<td>Treasurer</td>
<td>Ken W6HHC</td>
</tr>
<tr>
<td>Activities</td>
<td>Ron W6WG (aka W6FPS)</td>
</tr>
<tr>
<td>Membership</td>
<td>Bob AF6C</td>
</tr>
<tr>
<td>Public Relations</td>
<td>Tim N6TMT</td>
</tr>
<tr>
<td>Technical</td>
<td>Nicholas AF6CF</td>
</tr>
<tr>
<td>Director at Large 1</td>
<td>Clem WØMEC</td>
</tr>
<tr>
<td>Director at Large 2</td>
<td>Corey KE6YHX</td>
</tr>
</tbody>
</table>
OCARC Holiday Party!!!!
Friday, December 8th

Come and celebrate the Holiday season with OCARC on Friday, December 8th 2017 at Mimi’s Cafe in Tustin. Social hour begins at 5:30 PM…dinner at 6:30 PM,

Easiest way to pay and reserve your spot is to go to our weblink below: http://www.w6ze.org/XMAS/Christmas-Paypal.html

This will allow you to reserve a place for you and your party. Tickets are $29 per person with a $1 PayPal fee per ticket for a total $30 online. $29 if paying cash or check.

You may also purchase your tickets at our next General Meeting or e-mail our treasurer at W6HHC@w6ze.org to arrange purchasing your holiday party dinner tickets! Remember to bring your spouse and friends too! Amateur entertainment will be provided.

Dinner is priced at $29 per person and it includes the following meal choice:

- 10oz Steak with Frites
- Grilled Atlantic Salmon
- French Pot Roast

All dinners include a choice of coffee, tea, lemonade or soft drink and come with choice of house salad, Caesar salad or a cup of soup.

You do not need to make your meal selection until the evening of the event but you must let us know in advance since seating is limited. Check the club Website for upcoming info www.w6ze.org.

Drawing prizes include: $500 in gift certificates and items. Drawing tickets available for $1 per ticket.

Separate drawing: ICOM IC-7300. Tickets $10 each with sales limited to club members who purchase a holiday meal ticket. A club member cannot purchase more than 10 IC-7300 drawing tickets. All member meal ticket purchasers will be given the opportunity to purchase 2 drawing tickets. After each has had that opportunity then sales of remaining tickets will proceed. We reserve the right to modify the rules as necessary to make this fair.

Mark the date on your calendar!
Friday night, December 8th - gather at 5:30pm.

Location:  Mimi’s Cafe
17231 E. 17th St., Tustin, CA 92780
Located East of the 55 Freeway at the 17th St. Tustin exit.
Restaurant is on North side of street next to the freeway.

https://www.google.com/maps/place/17231+17th+St,+Tustin,+CA+92780/@33.760277,-117.8325052,17z/data=!3m1!4b1!4m5!3m4!1s0x80dcda2a95e4dbd1:0x4bc7c38b6f6d61818m2!3d33.7602774d-117.8303165
OCARC Christmas Dinner Tickets

Friday Dec 08 - gather at 5:30 PM

Paying at November Meeting:
If you are paying at the OCARC November General Meeting, please bring cash or a check. Dinner tickets are $29 per person

Paying at Dinner:
If you are paying at the OCARC Christmas Dinner, please reserve your seats by e-mail and bring cash or a check. Dinner tickets are $29 per person

Paying by Mail:
Send a check or money order to: OCARC, PO Box 3454, Tustin, CA 92781-3454 (no cash please.)

Paying by PayPal:
Please use the convenient PayPal Button below. First select the proper choice of dinners you want to pay for from the pull-down menu. Dinner ticket prices are $29 per person + small fee. Then click on the button to be taken to PayPal to finish your payment. Note that dinners have a small $1 PayPal fee added to the amount per person.

Dinner Tickets

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</tr>
<tr>
<td>2 ea</td>
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<td>$90.00</td>
</tr>
<tr>
<td>4 ea</td>
<td>$120.00</td>
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</table>
Heathkit of the Month #80:

by Bob Eckweiler, AF6C
AMATEUR RADIO - SWL

The Heathkit K-1
Three-Tube All-Wave Beginner’s Receiver

Some K-1 All-Wave Receiver History:
The first piece of radio equipment using the Heathkit name is the K-1 “Three-Tube All-Wave Beginner’s Radio” (Figure 1). It was introduced in the March 1948 Heath Flyer (Figure 2) and soon after in ads in the April issue of Popular Mechanics and May issue of Radio News. Prior to that, Heath advertised in Radio News for three months (January through March) an Amateur Transmitter with the Heathkit name (Figure 3). The model number is unknown, as is whether any were ever delivered. None have been found as of yet, so it is not being considered as the first piece of Heathkit radio equipment. While the ad appeared in some magazines between January and March of 1948, this transmitter kit never appeared in a Heath flyer.

Figure 1: The Heathkit K-1: 3-Tube All Wave Receiver shown with optional mahogany cabinet that became available after January 1949 (Heath Co. photo)

Figure 2: The first Heathkit K-1 ad from the March 1948 Heath Flyer. Do you notice anything wrong with this ad?

Figure 3: The “Mystery” Heathkit Transmitter from March ad in Radio News. At 20 lbs. shipping weight (less power supply) it must have had some serious iron inside.
The K-1 was followed by the K-2 sometime in 1949. The date of that change is controversial in the Heathkit community, but my research believes it to be after April 1949 and before September 1949. The K-2 stopped being advertised at the end of 1949. Why is the date of a kit so hard to determine? To answer that, one needs to realize a few things about the early Heath ads. Heath almost never gave model numbers to the kits in their ads. The model number might appear on the manual and/or schematic, and often on the equipment itself, but looking at an ad you have nothing to go on but the kit name and appearance. Sometimes, when they updated a kit they gave it a “New” status, but they also sometimes kept the “New” status as part of the ad so long that another change occurred. The O-2 to O-3 transition is such an example. Heathkit ads often took time to propagate from engineering to the flyers, to the magazine ads. That time could be up to three months, and some changes never did show up in the ads. Also, Heath sold some kits that it never gave the Heathkit name to. These were often related to surplus equipment. Two such examples are two power supplies, the “110V A.C. Military Receiver Power Supply Kit” and the “110V A.C. Transmitter Power Supply Kit”, both which ran in ads for many months (Figure 4).

The picture in the ad of Figure 2 appears in the March 1948 Heath Flyer and twice in Heath ads in Radio News (May and June). In this picture the speaker grill is made up of many (29) holes and is on the left of the front panel. But the photo of Figure 1 shows a single speaker hole on the right, with a grill screen covering the opening. What isn’t obvious in the ad of Fig. 2 is that the image is printed in reverse. A high resolution scan of the March Flyer reveals this clearly. See figure 5.

Why is this important? Originally some Heath historians believed that the speaker...
position defined whether the radio was a K-1 or a K-2. However it turns out that all the radios really had the speaker on the right. Also, the picture with the multi-hole speaker grill may have been a prototype, as none have shown up with the feature. What really defines the difference between the K-1 and the K-2 is the tube lineup, which is different between models. Heath continued to show the reversed image of the radio in their flyers and ads until June of 1948 when the image was corrected in the flyer (Figure 6); by July the magazine ads had been corrected too. This updated image shows the single hole speaker grill and has the correct orientation.

Another question surrounding the K-1 is its price. The first appearance of the radio was in the March 1948 Heath flyer (Fig. 2). It was priced at $8.75. However, the first time it was advertised in the May ad in *Radio News* the selling price was $5.95. This quickly changed the next month where the identical two-page ad appeared again, but with one correction, the All-Wave radio price increased to $8.75. In *Popular Mechanics* the All-Wave Radio appeared in the April and May 1948 Heath ad at $5.95, rising to $8.75 in June.

### The K-1 All-Wave Receiver:
The K-1 originally came in two models. One is a three-tube transformer operated 110 VAC 60 cycle powered receiver and the other is a two-tube battery powered receiver. Since the battery powered unit didn’t need the power transformer nor rectifier tube, it is surprising they were both priced the same. A battery set was available as an accessory for the battery powered receiver for $3.25. Other accessories were headphones (HS-30) for $1.00, and a speaker for $1.95 that mounted behind the grill. Two coils came with the K-1, one covering the broadcast band and the other the shortwave band up to 6 mc. No cab-
inet was initially available, but one was announced in the January 1949 Heath Flyer and began appearing in magazine ads around April. Offered at the same time as the cabinet were two additional plug-in coils: The long-wave coil for 200 kc to 500 kc and a second short-wave coil for 6,000 kc to 21,000 kc. The battery version of the K-1 disappeared after only a few months, last seen in the July 1948 Heath ad in Radio News. Advertising for the accessory coils also disappeared after a few months though they may have still been available from the factory. Available coils are shown in Table III.

The K-1 controls are very simple (See Figure 7). There is a tuning condenser with two scales, one for the broadcast band covering 550 kc to 1,800 kc and a logging scale from 0 to 100. This condenser mounts near the top left of the front panel. Below it at the bottom left is the VOLUME control which has a switch that turns the radio off when fully counterclockwise. This control actually controls the regeneration level of the receiver tube. Changing bands requires changing coils which mount in an octal tube socket. The cutout and grill for the optional 2-1/2” speaker is in the upper right and below it in the lower right is a standard 1/4” headphone jack.

The K-1 Layout:
Most of the K-1 components mount on a U shaped chassis. A flat plate front panel mounts to the chassis by the volume control and earphone jack, as well as by two screws that also mount the power transformer. Four octal tube sockets mount across the back of the top of the chassis. These hold, from left to right, as viewed in Figure 8, the 12A6 rectifier tube, the 12A6 audio amplifier tube, the 12C8 receiver tube, and the plug-in coil; in Figure 8 the two plug in coils, that come

<table>
<thead>
<tr>
<th>#</th>
<th>Tube</th>
<th>Type</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>12C8</td>
<td>Pentode Dual-Diode Metal Octal w/grid cap</td>
<td>Regenerative Receiver</td>
</tr>
<tr>
<td>2</td>
<td>12A6</td>
<td>Beam Power Pentode Metal Octal</td>
<td>Audio Output</td>
</tr>
<tr>
<td>3</td>
<td>12A6</td>
<td>Pentode (wired as a diode) Metal Octal</td>
<td>Half-wave Rectifier</td>
</tr>
</tbody>
</table>

Table I: K-1 All-Wave Radio Tube Line-up
mounted in octal tube bases, are taped head-to-head, hence the unused coil’s pins sticking up. The tubes are all metal-cased and the 12C8 has a grid cap atop. The antenna attaches to a binding post that is on the top of the chassis near the socket for the plug-in coil (Figure 9). The remaining components that mount to the chassis are the audio output transformer atop the chassis and a 25 µf bathtub style condenser that mounts on the inside rear flange. The 365 µµf tuning condenser mounts to the front panel using short screws. The front panel has concave dimples to prevent the mounting screws from interfering with the knob movement. Chassis drawings are shown in Figure 9.

The K-1 Circuit:
The K-1 is a simple regenerative receiver using three tubes as shown in Table I. One feature of the AC powered K-1 is its use of a power transformer to provide operation from the AC mains, while preventing all the safety issues of AC-DC operation with direct connections to the AC line. The short-lived battery version of the K-1 is operated by an extra cost battery set; one battery supplying filament voltage and the other supplying plate voltage.

The rectifier circuit is a bit unusual, but something that Heath engineers have done more than once; a beam power pentode 12A6 is used as a half-wave diode by tying the screen and control grids to the plate. Evidently the war-surplus 12A6 tubes were cheap on the market and Heath had bought a lot of them. The rectified DC is filtered by a dual 20 µf electrolytic and 470 Ω resistor providing about 210 VDC. Most of the power was used for the audio amplifier, especially if it was driving the optional speaker.

Regenerative receivers were very popular for ham and SWL activities in the early years of radio. By using positive feedback (regeneration) the gain of a tube can be significantly increased. Thus, fewer tubes are required, and tubes were expensive in the day. The coils each consist of three coupled windings. The antenna winding couples the signal to the tuned grid winding, the third “tickler” winding couples the amplified signal from the cathode to the grid coil, providing regeneration. There are many ways to control the level of regeneration. In the K-1 it is controlled by the control marked VOLUME that varies the screen voltage on the receiver tube.

Audio from the receiver tube is coupled to another 12A6 tube that is used more conventionally as an audio amplifier. The [then] new beam powered pentode easily can drive...
headphones or the optional speaker. The schematic for the K-1 is shown in Figure 13.

The K-2 All-Wave Receiver (Figure 12):

Figure 10 leads us to believe that the K-1 was still selling in February of 1949. In the January 1950 Heath ads no reference was made to an all wave radio, nor did the K-1 or K-2 ever appear again to my knowledge. Thus, sometime after February and before 1950, the K-2 replaced the K-1. Another clue might come from an ad on the RigReference.com website (Figure 11). Instead of a photograph of a K-2 they show an ad with the comment Heathkit K-2 - Magazine Ad. Unfortunately no magazine or date were given. A search for this ad has, so far, not turned up anything. What makes the ad unique is that it states: Model K-2. One thing of note is that the shipping weight changed to 4 lbs. in this ad. Looking over the ads from Radio Craft and Radio News the weight never seemed to have been updated through the end of December 1949. However the September 1949 Heath flyer does show the updated weight so I’m assuming the K-2 was being sold by then.

From the front, the K-2 looks almost identical to the K-1. The model is included on the front panel of (at least some of) the K-2s. The few K-2s I’ve seen in photos also seem to have a different knob and possibly a vernier for the tuning capacitor. This likely is a user add-on. Out of the case, or from the rear, it is easy to tell the K-1 from the K-2. The K-2 has a different tube line-up. A single metal 12A6 audio amplifier tube remains in between two glass 1626 triodes. These tubes replace the 12A6 used as a rectifier and the 12C8 receiver tube in the K-1. (Table II). One of the 1626 tubes is now wired as a diode for power rectification. I have not seen a K-2 schematic, but the change from a pentode to a triode must result in changes to the receiver tube wiring including how the VOLUME (regeneration) control functions.

Operating the K-1 or K-2:

Before operating the K-1 or K-2 an aerial must be connected to the binding post near the tuning condenser. A wire about 20’ long is okay for local stations but a longer aerial (50’ - 100’), up 20’ or more is recommended.
for DX. If the radio has the optional speaker installed you are all set. If not, or if you want to do some private listening, a pair of high impedance (~2,000 Ω) earphones needs to be plugged into the headphone jack on the front panel.

To operate the regenerative radio first decide what band you want and install the proper coil in the octal coil socket. Once installed and the AC line cord is plugged in, the radio is turned on by advancing the VOLUME control clockwise until the switch clicks. After a short wait for the tubes to warm up the VOLUME control can be advanced and a station tuned in. Continue to introduce regeneration until a whistle is heard. At this point back off the volume until the oscillation stops. This is the most sensitive setting. Any significant frequency change may require readjusting the regeneration. To receive CW you may increase the VOLUME until oscillation begins; this oscillation acts as a BFO and gives the CW signal a tone. A skilled operator can use this feature to actually receive SSB; but it takes a lot of practice.

One caveat: when the receiver is oscillating it is radiating a signal to the antenna. Many a want-a-be ham, in the early days, would hear a CW signal and turn up the regeneration and key the receiver for their first QSO. Many better regenerative receivers had an RF amplifier stage in front of the regenerative stage to isolate the receiver from the antenna, eliminating radiation. In the early days of radio receiver regeneration leakage was a major source of QRM.

**Summary:**
This article is the result of reviewing dozens of Heath ads from many different magazines. Only a handful of K-1s seem to exist today and even fewer K-2s. Heath, not using model numbers for their ads, further makes researching early Heath history more complex. Sometimes a model would change without the ad being updated and the only clue would be that the item drawing changed in some slight way.

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Note 1:
The reversing of an image is something Heath did on occasion in their advertising. In the Dec. 1947 Radio News ad that introduced the V-1 VTVM, the meter needle was at full scale. This continued each month until the March ad where the image was shown properly. I mentioned this to Chuck Penson - WA7ZZE and he showed me that the photos on the front and back cover of the Fall - Winter 1960 - 1961 Heathkit Catalog were printed backwards. It is hard to tell, as there is no text large enough to read. The kits shown are flipped, and the biggest clue is that the two tone Heathkit emblem on two of the kits are reversed, with the red on the left. There is no readable text (without magnification) to give the reversal away. Even knowing this, K-1 speaker position at first.

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Remember, if you are getting rid of any old Heathkit Manuals or Catalogs, please pass them along to me for my research.

Thanks - AF6C
Figure 13: K-1 Schematic, from Heath documentation, as republished in the ninth edition of the Fredrick Collins Radio Amateur's Handbook; also the source for Figures 1 and 9.
NOVEMBER 17, 2017 MEETING
Doug Millar, K6JEY, will speak on “Test Equipment & Measurements for Amateur Radio”. Doug will bring an accurate voltage source. He asks that members bring a personal meter to the meeting and he volunteers to calibrate member’s voltmeters at the meeting.

DECEMBER 08, 2017 CHRISTMAS DINNER  5:30 PM Social Hour, Dinner 6:30 PM
Our dinner is at Mimi’s Café in Tustin. Raffle drawing for the ICOM IC-7300. Amateur entertainment.

JANUARY 12, 2018 MEETING
Lito de los Reyes, WI6Y will make a presentation on the All Star network. Lito previously presented a very interesting show and tell on the All Star system and will expand upon its growth and advantages.

JANUARY 27/28, 2018 WINTER FIELD DAY
We will be braving the elements at the Ocean View School District in Huntington Beach.

FEBRUARY 16, 2018 MEETING
To be announced.

MARCH 23, MEETING  (note: Moved to 4th Friday due to Baker to Vegas)
Tim Duffy, K3LR, from DX Engineering will present via Skype. The topic will be an introduction to the amazing Multi Multi K3LR contest station.

For the most current Upcoming event information go to: http://www.w6ze.org/Events.html

Tom W6ETC
Upcoming Activities:

**NOVEMBER**

- **November Sweepstakes CW:** First full weekend in November, 2100 UTC Saturday through 0259 UTC Monday.
- **November Sweepstakes SSB:** Third full weekend in November, 2100 UTC Saturday through 0259 UTC Monday.
- **CQ WW DX / CW:** Last full weekend.

**DECEMBER**

- **ARRL 160 Meter Contest:** First full weekend in December, 2200 UTC Friday through 1559 UTC Sunday.
- **ARRL 10 Meter Contest:** Second full weekend in December, 0000 UTC Saturday through 2359 UTC Sunday.
- **Rookie Roundup CW:** Third Sunday, 1800 UTC through 2359 UTC.
  * Indicates club entries are accepted**
  **Indicates team entries are accepted

Repeating Activities:

- **Phone Fry** Every Tuesday night at 0230Z to 0300Z
- **SKCC** Weekend Sprintathon (Straight Key CW) on the first weekend of the month after the 6TH of the month. 1200 Sat. to 2359Z Sunday.
- **SKCC** Sprint (Straight Key CW) 0000Z to 0200Z on the 4th Tuesday night (USA) of the month.

Recent Activities by OCARC Members:

- **CQ WW DX / SSB:**
  Ron W6WG, Tim N6GP

Send an email to Ron W6WG, w6fps@w6ze.org to have your favorite activity or your recent RadioActivity listed in next month’s column.

---

**W6FPS->W6WG**

Congrats to Ron Mudry on getting the vanity call W6WG. This is a weighty callsign for CW that is sure to bust the pileups.

**N6HC Field Day**

Congratulations to the ABCD Field Day group for winning the #1 spot in the 6A category and #10 overall.

**Kris W6KJC Rides the Zamboni**

#1 LA Kings Ice Hockey fan, Kris Cutting. W6KJC can now cross off “riding the Zamboni” from his bucket list. At the Kings game at Staples Center on Oct 15, Kris got to ride the machine as it resurfaced the ice between the 2nd and 3rd periods!
"I haven’t seen one of these gizmos since 1979. A lot of ‘cool factor’ here”. -Chip

Going once!  Going Twice!  Sold!!!!

(L-R) Ron W6WG and Ken W6HHC handled the monies during the auction
The OCARC General meeting was held at the Red Cross Complex in Santa Ana on October 20, 2017.

**Club Officers:** There was a quorum with all officers present with the exception of Tim N6GP, Greg W6ATB and Dan N6PEQ.

**Attendance:** We had 24 members, and 9 guests in attendance.

Meeting was called to order at 7:00 pm and was followed by the Pledge of Allegiance to the Flag and introductions of the members and guests.

**Announcements:**

- Jim, AF6N, Many OCARC members participate in the annual 120 mile Baker to Vegas Relay Race by providing communication support. To avoid a conflict, the March General Meeting the date of the March meeting has been changed to Friday March 23, 2018.
- Jim, AF6N, Doug Millar K6JEY will be the November guest speaker.
- Jim, AF6N reminded members the Christmas dinner will be at Mimi’s Café in Tustin on Friday, December 8.
- Jim, AF6N, reviewed the rules of the annual October auction.
- Tom, W6ETC, is looking for volunteers for help with the Disney Half Marathon with will be run on Sunday November 12. Please contact Tom if you would like to help with radio communications or staffing a first aid station.

**October Program:**

**OCARC Annual Auction**

- Jim, AF6N, introduced Chip, K7JA, as the auctioneer, a position has filled many times in years past. Chip continued in the tradition of providing an entertaining and well run auction.
- A preliminary report from the club treasurer, Ken W6HHC, indicated sales of $489.75 which added $224.69 **net profit** to the clubs bank account.

**Business Meeting:**

- There was no Business Meeting held due to time constraints.

Meeting Adjourned at 9:20 pm

Submitted by Ron Mudry W6WG
OCARC Secretary
Meeting Called to Order: 8:15 am

Roll Call:
Pres.: Tim N6GP, Present
Vice Pres.: Jim AF6N, Present
Sec.: Ron W6WG, Present
Membership: Bob AF6C, Absent
Tech.: Clem W0MEC, Absent
Activities: Tim N6TMT, Present
Directors at Large: Greg W6ATB, Present

Members Present: Corey KE6YHX
Guest Present: Eve Morguelan

DIRECTOR REPORTS:
- **Vice President** – Jim, AF6N confirmed that Doug K6JEY will be the November guest speaker and DX Engineering will be the March entertainment.
- **Secretary** – Ron, W6WG forwarded mail from the IRS to the treasurer Ken, W6HHC.
- **Membership** – Bob, AF6C reported processing a few new member applications and has updated all membership roosters.
- **Technical** – No report.
- **Treasurers Report** – Ken W6HHC handed out copies of the current Year to Date OCARC Cash Flow report and a report on the 2017 October Auction as compared to those in 2016 & 2015. The report showed a decline in the auction net profit for 2017 from the previous two years. After some discussion it was determined that with the sale of donated items earlier in the year, 2017 income was in line with passed years.
- **Activities** – Tim, N6TMT has been working on an online Net Control Schedule. At the completion of testing the schedule will be linked to the OCARC website,
- **Publicity** – No Report.
- **Directors at Large** – Greg, W6ATB reported very good band conditions on 20 meter to Europe when he was running digital (FT8).

OLD BUSINESS:
- **Newsletter Editors**
  November - Tim N6GP, December - Jim AF6N,
  January - Greg W6ATB.
- **Entertainment** – Guest speakers are as follows, November – Doug K6JEY Test Equipment, January – Lito KI9H All Star Network, February - ?, March – DX Engineering SKYPE Presentation.
- **Nomination Committee** – Tim N6GP, Tim N6TMT, Jim, AF6N and Ron, W6WG completed the task of putting together a slate of nominees for next year’s club officers and directors. The nominees will be listed in the November RF. Prior to the election at the November General Meeting additional nominations will be taken from the membership and added to the slate of candidates.
- **Club Historian** – Corey KE6YHX distributed his current report on his progress with the Santa Ana Library and web site projects. Corey also distributed copies of the Deed of Gift to the library for the Self-browsable M-Disk DVDR of the OCARC www.w6ze.org website.
- **Christmas Banquet** – Tim, N6TMT reported the dinner prices will be the same as last year, $29.00 if paid by check or $30.00 if paid through Paypal. These prices include the cost of the dinner, tax and gratuity. Club members will be notified when the Paypal link will be activated. Members can also purchase dinner tickets at the November General Meeting.
- **Promotional Items** – Bob, AF6C will finalize the card format and has been authorized to purchase 500 business cards.
- **2018 Winter Field Day Site** – Ron, W6WG has received approval from the Ocean View School District to use the field and parking areas behind the District Office for the OCARC 2018 Winter Field Day operations site. The site is located at 17200 Pinehurst Lane Huntington Beach.

Continued next page
New Business:

- **Financial Audit Committee** – Tim N6GP, Jim AF6N, Tim N6TMT, and Ken W6HHC will serve as this year’s audit committee to review the OCARC 2017 financial records.

Board minutes, continued:

- **Good of the Club Award** – Send an email to Tim N6GP if you would like to nominate a deserving member to receive the 2017 “Good of the Club” award.

- **2018 Honorary Members** – Janet Margelli, Chip Margelli and Lee Evans were chosen to be 2018 OCARC Honorary Club members.

Meeting Adjourned 9:30 am

Submitted by Ron Mudry W6WG, Secretary
OCARC Secretary

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Club Picnic Photos
Oct 7, 2017

- Best turnout for a OCARC Picnic this decade
- 60 contacts logged for the California QSO Party
- Very tough band conditions made SSB QSOs difficult
- Best DX was with DL3DXX in Germany
- Nicholas’ antenna launcher works great!
Club Picnic Photos
Oct 7, 2017
continued

Nicholas’ antenna launcher at work putting wire antenna up 40 feet in the trees, as Rodger and his wife look on in amazement.

(L-R) Tim N6TMT, Vijay KM6IZO, Rodger AI6WV, and Jim AF6N
OCARC Cash Flow - Year To Date
1/1/2017 through 10/24/2017

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<thead>
<tr>
<th>Category</th>
<th>1/1/2017-10/24/2017</th>
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<tr>
<td>INCOMES</td>
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<tr>
<td>ARRL Membership Income</td>
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<td>Auction In</td>
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<td>Badge Income</td>
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<td>Dues, Family</td>
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<td>Refreshments Income</td>
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<td>Sale Of Equipment</td>
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OVERALL TOTAL: -301.36

CHECKING ACCOUNT BALANCE: ~#5,046