

ORANGE COUNTY AMATEUR RADIO CLUB, INC.

VOL. LXVI NO. 10 PO Box 3454, Tustin, CA 92781 October 2025

The Prez Sez... By Dan Kl6X



As we all get older and each year is a smaller fraction of our life, the years go by faster and faster in our perception despite still being 365 days (+1 for leap years). So, I am sure you will be surprised, and then again not, that it is already October. On the good side we are finalizing the plans for the December OCARC party that will be at Mimi's again this year. Keep watching the RF and emails for updates. But we also have the less pleasant side of this time of year, elections. We are having a tough time getting nominees for all the positions. With a very large membership of 115 (maybe or close to record size) we are having a hard time getting Officer candidates.

I know this is not an issue limited to our club. Most any club whether radio related or not are having the same issues. I really do appreciate all of you that have volunteered with club activities and those volunteers are very much needed, but we do need a few to become Officers to run the business of the club. Please consider position when approached by the Election Committee or contact Nicholas, AF6CF our Committee Chair.

If you were at the very well received general meeting in September, you remember the great series of talks on the Boron Remote Station by some of the station owners (all OCARC Since one of the members). speakers has a habit of stretching their time, we had a "hook" available. It turns out the threat was enough and the talks were kept on time and the presentations were extremely well received. Since I was not able to use the "hook" during the meeting, I had to use it when it was time to leave. Thus, my picture this month!

Hope to see you at the famous OCARC Auction this Friday at 7:00 PM.

Dan Violette, KI6X President

NEXT GENERAL MEETING

The OCARC

Presents

"October Auction"

October 17th, 2025, at 7pm at the

American Red Cross

Orange County Chapter Santa Ana, Room 208

NEXT BOARD MEETING

Saturday, November 8st, 2025 See www.w6ze.org for more info

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2025 Board of Directors

President

Dan Violette, KI6X (714) 637- 4632 ki6x@w6ze.org

Vice President

Tim Goeppinger, N6GP (714) 730-0395 n6gp@w6ze.org

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Joyce Rodman, KN6UKJ (714) 454-5721 kn6ukj@w6ze.org

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Technical

Joe Rodman, KM6SVV (714) 454-5721 km6svv@w6ze.org

Membership

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Directors-at-Large:

Nicholas Haban, AF6CF (714) 693-9778 af6cf@w6ze.org

Directors-at-Large

Janet Margelli, KL7MF (714) 878-9369 kl7mf@w6ze.org

2025 Club Appointments

W6ZE Club License Trustee

Bob Eckweiler, AF6C (714) 639-5074 af6c@w6ze.org

Club Historian

Corey Miller, KE6YHX (714) 639-5475 ke6yhx@w6ze.org

RF Managing Editor

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RF Editor for October 2025

Corey Miller, KE6YHX (714) 322-0395 ke6yhx@w6ze.org

Webmaster

Dan Violette, KI6X (714) 637- 4632 ki6x@w6ze.org

Web Main Programmer

Bob Eckweiler, AF6C (714) 639-5074 af6c@w6ze.org

Assistant Web Maintenance

Tim Millard, N6TMT (714) 744-8909 n6tmt@w6ze.org

HAM License Testing

(before regular meetings)
Ken Simpson, W6KOS
(714) 651-6535
w6kos@w6ze.org

ARRL Awards Appointee

Arnie Shatz, N6HC (714) 573-2965 n6hc@w6ze.org

Monthly Events

Membership Meetings*

Time: 7:00 PM

When: 3rd Friday of each Month Red Cross Orange County, Room 208 600 N Parkcenter Dr, Santa Ana (Replaced by the Christmas Party in December.)

Board Meetings

First Saturday of each Month Board will handle Club business now IN-PERSON.

Club Nets (Listen for W6ZE)

10M ~ 28.375 MHz SSB

Wed- 7:30 PM - 8:30 PM Net Control: Corey, KE6YHX Alternate Net Control: AJ, KN6WNO

2M ~ 146.55 MHz Simplex FM

Wed- 8:30 PM - 9:00 PM Net Control: Corey, KE6YHX Alternate Net Control: AJ, KN6WNO Echolink Node: KK6TRC-L

75M ~ 3.883 MHz LSB

Tue @ 8:00 PM

Net Control: Corey, KE6YHX

Other Nets

Catalina Amateur

Repeater Association (CARA)

147.090 MHz (+0.600 MHz) No PL Monday - Friday 9:00AM & 9:00PM Prg. Director. Tom W6ETC COME JOIN US

OCARC 2025 DUES:

Membership period is: 1 January to 31 December

Individual New or Renewal: \$30 Family New or Renewal: \$45 Teen New or Renewal: \$15

New Member Dues are prorated quarterly and <u>includes a badge</u>:
Additional Badges¹ \$3

Use one of our interactive online forms to calculate current prices, join, renew, or order badges:

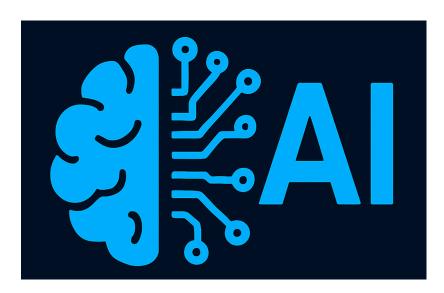
https://www.w6ze.org/FormsShortcut.html

1\$3 or less + mailing. See form.

A Non-Programmers Guide on How To Use AI to Write Your Own Custom Ham Radio Computer Applications

By Dave N3BKV





These days you can't get away from the Artificial Intelligence (AI) hype, it is unavoidable. Supposedly it can do anything and everything with no limitations. But beyond the marketing, there is a lot that AI can do to help make your life easier. I'm going to walk you through how you can utilize AI for ham radio applications. It is a great way to solve problems and create software for your projects, even if you are not a programmer.

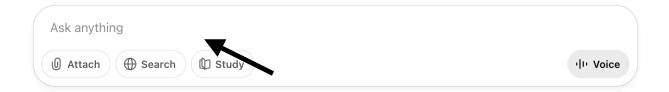
I think the best way to show you how to use an Al Large Language Model (LLM) is to run through the prompts I used on a project for remote station temperature monitoring. I needed a way to get sensor readings from an external sensing board on a Raspberry Pi for display on a computer data dashboard. I decided I wanted a script that could collect the readings every few minutes and transmit them to a second computer that served up all the dashboards for the station. Some call this a "single pane of glass" since you can go to one location and see everything together rather than separate applications/computer web page locations that only show individual readings.

I'm going to use ChatGPT to help me. This is my main AI choice for programming and is free for a certain number of requests a day. If you find yourself using it a lot, it will prompt you to upgrade to the \$20 a month plan. You can always just take a break and come back when it asks you to upgrade if you don't want to pay or are still experimenting with it. You can easily pick up where you left off after the program usage timer resets.

Just go to https://chatgpt.com/ and you'll see a screen that looks a lot like Google. If you set up a login, it will remember previous conversations and projects but you can start off anonymously at first, if you want. It is important that you DO NOT put anything personal into it like passwords, credit card info, etc. as you don't want your information inadvertently revelated in someone else's inquiries. Partly why it is free is it is learning from everyone so it can get better at its answers. There are settings you can turn off to protect yourself from it consuming your personal data but better safe than sorry.

Another thing to consider is that if an Al doesn't know something it will often make up an answer – this is called "hallucination" so always check what it tells you. Sometimes it will be quite certain in its responses and they can often be very wrong so remember it can make "mistakes."

ChatGPT



The box you see when you land on the main ChatGPT webpage that says "Ask anything" is called the prompt box. This is where you are going to type in your requests.

In my case, I have a Raspberry Pi with an external BME 280 board that senses temperature, humidity and barometric pressure like the one below.



In the ChatGPT prompt box. Here is what I typed. There is no need to type please or thank you since that just uses compute power and electricity, so try to get in the habit of skipping pleasantries (my actual prompt entries are in *italics*).

Write me a bash script for a BME280 board on a Raspberry Pi to gather temperature, humidity and pressure and then publish that data to corresponding MQTT topics.

Let's breakdown what I just requested it to do.

I asked it to take readings from the BME 280 sensor board using a bash script which is a simplified program I can run on the Raspberry Pi easily. I then told it to transmit that data out using something called an MQTT server which I can have another computer to listen to take data and process or display it.

This way I can put a small, inexpensive computer in a place that I need the sensor reading, so I don't need to run long sensor wires all the back to my main machine. I just need to make sure I can have ethernet or wifi available to my Raspberry Pi at the remote location.

Even if you are not a programmer, you still need to be able to explain what you want it to do with some accepted computer terminology. You can always ask it for help if you are not sure what to say or just try to explain things as best as you can. What I often do is just look at some web pages describing what others have done or a YouTube video or two for application like what I want to do.

Here's what I get back from ChatGPT (I have shortened some of the output as indicated by "...", I'm just trying to give you the major steps in the process). First, it will tell you a bit what is it is assuming you want it to do and what equipment it thinks you have. This is helpful for troubleshooting later or correcting it.

Here's a **Bash script** that takes a reading from a BME280 sensor and publishing pressure, temperature, and humidity readings to the same MQTT topics:

♦ Assumptions:

- You're running this on a Raspberry Pi or Linux with:
 - o Python installed
 - o The BME280 connected via I²C (address 0x77)
 - o mosquitto-clients installed (mosquitto pub available)
 - A Python script available to get readings from the BME280 (provided below)

It then generated the script for me.
♦ Bash Script (bme280_mqtt.sh)
••••
After giving me the script, it then told me what I need to do and any commands I need to enter. It will often describe highlights of what it has built for you as well as offer suggestions.
♦ Required Python Dependency
◊◊ Set to Run Every 5 Minutes

Would you like this to also log to file (e.g., pressure log) or calculate dew point like the Node-RED flow?

Next, I did everything it asked me to do in the steps above but I got some errors which I pasted into the prompt box so it could help me to troubleshoot. It can tell what I pasted in is an error, so I don't need to describe the output I'm giving it, since it knows we are working on the script together.

pip3 install RPi.bme280 smbus2 error: externally-managed-environment

error: externally-managed-environment

. . .

note: If you believe this is a mistake, please contact your Python installation or OS distribution provider. You can override this, at the risk of breaking your Python installation or OS, by passing --break-system-packages. hint: See PEP 668 for the detailed specification.

hint: See PEP 668 for the detailed specification.

You're encountering this error because your Python environment is **PEP 668-compliant**, which means it prevents direct installation of Python packages into the system-managed Python environment to avoid breakage.

◊ Solution: Use a Python Virtual Environment

This is the safest and recommended approach.

. . .

♦ Step-by-Step Fix:

• • •

It ended up that it needed to change some things in the script it wrote for me to work with its suggestions, so I asked it to do that.

update the script

Here's your updated bme280_mqtt.sh Bash script that:

- Activates a Python virtual environment (~/bme280-env)
- Runs a Python block to collect BME280 sensor data
- Publishes it to MQTT topics

♦ Final Script: bme280 mqtt.sh

. . .

◊ Install Instructions

. . .

Let me know if you'd like dew point calculation or InfluxDB integration added as well.

I like that it is always suggesting things, and it assumes there are no issues. I'm still getting an error, so I paste it into the prompt box.

\$./bme280 mqtt.sh Error: Connection refused

The Error: Connection refused you're seeing is coming from the mosquitto_pub commands, which indicates that the script is:

- · Correctly gathering sensor data, but
- · Failing to connect to your MQTT broker.

♦ Let's troubleshoot step-by-step:

. . .

I'm going to skip ahead after some back and forth troubleshooting after which I get it working.

. . .

Let me know if you'd like to add:

- Logging to file
- Dew point calculation
- InfluxDB support
- JSON output on MQTT topics

Now, I decided I want to have it compute Dew point as well:

yes - add logging to file and Dew point calculation

Great! Below is your enhanced Bash script with:

♦ New Features:

- 1. Logging to file (/home/pi/bme280 log.json)
- 2. Dew point calculation

◊◊ Prerequisites:

. . .

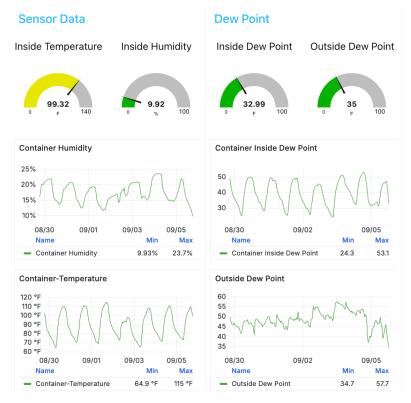
♦ Full Script: bme280 mqtt.sh

...

◊ Test It

. . .

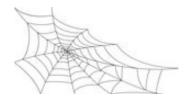
And since everything works. I'm done. Here's the final output on the dashboard. The script runs every 3 minutes and sends the data to the dashboard computer for display and graphing.



I hope this gives you some idea of what is possible with AI solutions like ChatGPT, Claude and DeepMind. I find that ChatGPT is the best for programming, and I like Claude for helping me do graphic oriented user interfaces like web dashboards and logos. I haven't really played much with DeepMind since I find the other two quite capable of what I need.

We are not yet at the point where you can just type a line into the prompt box and tell any of these systems to write you a full program instantly, but they are getting better by the day. Who knows what will be possible in the future? What I do know is I have found that AI can help me to write programs quickly especially batch scripts that I used to spend hours on troubleshooting.

I encourage you to find a project you want to do with an LLM helping you to code and experiment. It is the best way to see what this technology can do for you. I have also learned a lot about programming since I now feel that I have a 24 hour a day private tutor helping me.





OCARC LIVE AUCTION TO BUY & SELL NEW/USED HAM RADIO EQUIPMENT

FRIDAY OCTOBER 17th, 2025

7:00 PM

oors Open for Registration at 6:00PN





→ SELLERS/BUYERS CAN REGISTER AT 6:00PM

FOR RULES & INSTRUCTIONS GO TO WWW.W6ZE.ORG
Some of the proceeds benefit the Orange County Amateur Radio Club

W6ETC 09/202

RadioActivity

October 2025

Upcoming Activities:

October

- *10-10 Int. 10-10 Day Sprint: 0001 UTC to 2359 UTC Sunday Oct. 10.
- Oceania DX Contest, CW: 0600 UTC Saturday Oct. 11 to 0600 UTC Sunday Oct 12.
- *10-10 Int. 10-10 Fall Contest CW: 0001 UTC Saturday Oct. 18 to 2359 UTC Sunday Oct. 19.
- *CQ World Wide DX SSB Contest: 0000 UTC Saturday Oct. 25 to 2359 UTC Sunday Oct. 26.

November

- *ARRL Sweepstakes Contest, CW: 2100 UTC Saturday Nov. 1 to 0300 UTC Monday Nov. 3.
- *10-10 Int. Fall Contest, Digital: 0001 UTC Saturday Nov. 8 to 2359 UTC Sunday Nov. 9.
- *ARRL Sweepstakes Contest, SSB: 2100 UTC Saturday Nov. 15 to 0300 UTC Monday Nov. 17.
- *CQ Worldwide DX Contest, CW: 0000 UTC Saturday Nov. 29 to 2359 UTC Monday Nov. 30
 - * Indicates club entries are accepted
 ** Indicates team entries are accepted
 Note: When submitting logs for ARRL Contests
 indicate your club affiliation as "Orange County
 ARC"

State QSO Parties:

- Nevada QSO Party: 0300 UTC Saturday October 11 through 2100 UTC Sunday Oct. 12.
- Arizona QSO Party: 1500 UTC Saturday October 11 to 0500 UTC Sunday Oct. 12.
- Pennsylvania QSO Party: 1600 UTC Oct. 11 to 0400 Oct. 12 and 1300 UTC to 2200 Sunday Oct. 12.
- South Dakota QSO Party: 1800 UTC Saturday Oct. 11 through 1800 UTC Sunday Oct 12.
- New York QSO Party: 1400 UTC Saturday Oct. 18 through 0200 UTC Sunday Oct. 19.
- Illinois QSO Party: 1700 UTC Sunday Oct. 19 through 0100 UTC Monday Oct. 20.

Repeating Activities:

- Phone Fray: Every Tuesday night at 0230 UTC to 0300 UTC.
- CWops Mini-CWT: Every Wednesday at 1300 to 1400 UTC, 1900-2000 UTD

and everyThursday 0300-0400

UTC . 0700-0800 UTC

• **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.

K1USN Slow Speed Test: (CW, 20WPM Max.)
 Every Friday 2000 UTC to 2100 UTC
 Every Sunday night at 0000 UTC to 0100 UTC Monday

 ICWC Medium Speed Test: (CW, 25WPM Max. Every Monday 1300 UTC to 1400 UTC 1900 UTC to 2000 UTC and Tuesday 0300 UTC to 0400 UTC

OCARC Club Nets:

75 Meter Net: Every Tuesday night at 8:00

pm to 8:30 pm Local Time. SSB

3.883 MHz

• 10 Meter Net: Every Wednesday night at 7:30

pm to 8:30 pm Local Time. SSB

28.375 MHz

2 Meter Net: Every Wednesday night at 8:30

pm to 9:30 pm Local Time. FM

Simplex 146.55 MHz

Other Nets:

• Net-AT-9: Monday thru Friday 9:00 am and

9:00 pm Local Time 147.090 MHz (+600 MHz) No PL

Other Links:

ARRL Contest Calendar

VOACAP Online for Ham Radio

Send an email to Ron W6WG, <u>w6wg@w6ze.org</u> to have your favorite activity or your recent RadioActivity listed in next month's column.

73. Ron W6WG



New OCARC Members

JANUARY

AK6AT Michael Porteous W6VLN Daphne Tsao

KO6ION Phil Sallaway

K06FKD Robert Wellington N6YZ Adam Ehrheart

FUBRUARY

NC6M Anatoly Ananovsky N6MG Milton Garb

K6MKL Michael Berchtold W6NVI Carolyn Berchtold KN6WPB Thom Belford

APRIL

MAY

N6GTQ John Gabler KO6JES Arshia Attar JUNE

MARCH

KO6JOB Jon Hoover KG6LHK Robert Stone

KN6NXJ Harry Long

JULY

AUGUST

K6MFK Mike Klewer

October

W6KIC Mike O'Sullivan

OCARC Membership Director Ron W6WG, membership@w6ze.org

General Meeting Minutes September 19, 2025

The meeting began with the Pledge of Allegiance.

Everyone in attendance took a moment to introduce themselves.

Dan President KI6X introduced our speakers tonight, Nicholas AF6CF, Dave N3BKV and Ron W6WG. Very interesting and informative about how they started with an idea and began the planning to build a remote station. Nicholas explained about finding the right piece of land, and then began building the station underground, with much hard work, and transporting equipment to the site. Ron W6WG was not able to attend but provided slides/audio and a synopsis of the idea that began approximately 10 years ago showing the site in the high desert with before and after pictures, using Bioenno batteries and solar panels, and a friendly neighbor who has been helpful. Dave, who became the IT expert, explained how he became involved, working with Node-Red to program the computers and to be able to monitor the site, antennas, temps, etc. remotely. He also used ChatGPT when needed for help. Many questions by club members were raised and answered. Kudos to Nicholas AF6CF, Ron W6WG, Dave N3BKV, and

Tom W6ETC and many others for a job well done.

Business Meeting

A quorum of club members was present.

Dan KI6X President reports programs for next 3 months:

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October: Auction, November: Scott N6MI, December Dinner: Janet KL7MF

Membership is at 116 at present time.

Tim N6TMT, Treasurer, reports finances remain the same at present time.

Mail Box was renewed for another year.

Corey KE6YHX, Activities, reports he will have an opportunity drawing tonight, and also in November, as well as for the December Christmas Party.

Nicholas AF6CF, Director-at-Large, reports he made 110 flyers for the upcoming auction so members can pass out and post our information, at swap meets, with some left at HRO, etc. Reviewed auction personnel with Nicholas being the auctioneer this year with other members assisting to bring items up to show, managing the finances during the selling, etc.

Discussed upcoming elections and asked members to please consider helping out our club, Dan KI6X reviewed positions, there is a posting of the jobs and positions in an RF newsletter from last year referenced in Janet's article about elections in the Sept RF.

Ask the Elmer

Milt N6MG reported he has a VE7CC DX cluster and he needs to figure out how to filter. Dave N3BKV and Dan KI6X gave some helpful solutions.

Harry brought up a question about grounding and several members gave helpful solutions.

Show and Tell

Charley KM6KCK brought a book from Costa Mesa library "Antenna Book" showing how easy and free the information can be obtained.

Good of the Club

Dan KI6X let us know the club is working on a plan for club members to use a remote station using a laptop. Will take a while to figure everything out with details to follow on how this can be used/shared by club members.

Tom W6ETC reminded everyone of our weekly nets and the daily Net@9. Please refer to the times and dates in the newsletter (page 2).

Ken W6KOS continues to offer VE testing monthly prior to our club meetings at 5:30pm. Assisting tonight were Charley KM6KCK, Fred WOPE and Chuck AK6JT. There were no candidates this month.

9:20pm Motion to adjourn made, seconded and passed.

Raffle followed.

Submitted by Joyce KN6UKJ.

Board of Directors Meeting Minutes October 4, 2025

OCARC Board Meeting Minutes for October 4, 2025

The OCARC board meeting was held at the Streamliner Lounge, 186 Atchison St. Orange and was called to order by President Dan KI6X at 8:15 am. A quorum of board members were present.

Directors Report

Treasurer Tim N6TMT reports,

Total Inflows: \$3,069.50 Total Outflows: \$2,490.06 Overall Total: 579.44

Membership, Ron W6WG, reports we have 115 members at the time with 3 Honorary members. Ron continues to send out "welcome emails" to our new members.

Activities, Corey KE6YHX, reports we made \$139 from raffle tickets, \$20.00 from general donations and \$39.00 from members donating for the refreshments that Corey provides. Total amount \$198.00.

Technical, Joe KM6SVV, reports a member emailed with questions about antenna/station grounding as he is in a rental at present time. Joe answered and sent him several schematics, gave him several solutions, and asked him to come to our next meeting where he could get help from many Emers.

Old Business

Newsletter Editors:

October: Corey KE6YHX, November: TBD, December: Tim N6TMT, January: Tom AK6GR

Speakers/Entertainment:

October: Auction, November: Scott N6MI, December: Janet KL7MF, January: Dave N6HHR

December Dinner Party:

Final Head Count due by Friday November 28, 2025

Reviewed the schedule for December 5, 2025 Holiday party, at Mimi's which Corey kindly presented. \$35 per meal for attendees (club covering, tax/tip/PayPal fees). Need to get PayPal set upon the website.

Doors open at 5:30p, dinner orders 6-6:20pm, free raffle tickets passed out to each attendee, add'l tickets \$1 per ticket or 6 tickets for \$5. Presentation: 6:30-7:30pm, dinner served at 7 pm, some entertainment and New Board announce 8:00-8:30, then close with raffle. Clear out 9PM

October Auction personnel discussed

Nicholas AF6CF will be the auctioneer, accountants will be Tim N6TMT as well as Tim N6GP, pre-numbered auction cards are planned and post-notes/markers are planned.

Donation to the Red Cross was discussed and President Dan KI6X suggested donating a 7-8' flag pole. Board approved this idea and expense which Dan will work on and order.

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Election Committee: Directors-at Large Nicholas AF6CF and Janet KL7MF continue to work on election nominees for next year.

OCARC remote station: Director-at-Large Nicholas AF6CF reports he hopes to have the equipment set up by the end of the year for members to share and use remotely.

New Business

Discussed date for next Board meeting and the Board agreed/approved to move the meeting to November 8, 2025.

Good of the Club

Arnie N6HC will do a presentation at the new Irvine Public Library in January.

Request for a demo from Greg Taylor at 949-292-8718 for Boy Scouts at Casper Regional Park October 18th continue to work on recruiting a member to help with this.

VE Sessions for amateur radio licensing continues to be held prior to our monthly club meetings at 5:30pm under the guidance of Ken W6KOS.

Adjournment

An adjournment was voted on and agreed at 9:44am.

Submitted by Joyce KN6UKJ.





OCARC Treasurer Report Tim Millard, N6TMT Cash Flow YTD

Category	1/1/2025-9/30/2025
INFLOWS	
Badge	6.00
Donation	62.00
Dues 2025	682.50
Dues, PayPal 2025	1,716.75
Interest Inc	228.25
Opp Drwg Income	200.00
Refreshments Income	174.00
TOTAL INFLOWS	3,069.50
OUTFLOWS	
Activities Supplies	87.22
Auction Flyers	59.26
Badge Expense	158.17
Field Day - Equip	26.92
Field Day - Flowers	36.50
Field Day - Oil	7.51
Field Day - Propane	55.14
Field Day Rental - Tent	325.00
P.O. Box Rent	188.00
PayPal Fees	88.05
Printing Brochures	265.80
Prize Expense	104.80
Refreshments Expense	356.97
Software License	59.88
Speakers Meal Reimburse	29.29
Storage	325.00
Website	316.55
TOTAL OUTFLOWS	2,490.06
OVERALL TOTAL	579.44





Holiday Party

Where: Mimi's Café

17231 17th St., Tustin, CA 92870

When: Friday, December 5th, 5:30 PM

All are welcome.

Dinner is \$35 which includes an Entrée & Dessert from the Menu listed below.

A link to pay will be provided on our web site, WWW.W6ZE.ORG, in November.

If you are paying in-person at the OCARC Holiday Dinner, Please RSVP your seats by Friday night Nov. 28 by e-mailing Corey M. KE6YHX ke6yhx@w6ze.org and bring cash or a check. Dinner tickets are \$35 per person.

RSVP by: Friday, November 28, 2025

Holiday Party: Friday, December 5, 2025

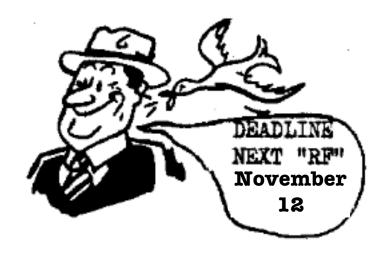
•Start 5:30pm

Dinner Orders 6:00-6:20pm



Presentation 6:30-7:30pm.
Dinner is Served 7:00pm
Entertainment and New Board 8:00-8:30pm
Raffle 8:30-8:45pm
(\$1 per ticket or 6 tickets for \$5)
Closing 9:00pm





The ORANGE COUNTY AMATEUR RADIO CLUB, INC. RF - VOLUME 66 ISSUE 10 - October 2025

RF - VOLUME 66 ISSUE 10 - October 2025 P.O. BOX 3454 TUSTIN, CA 92781-3454

First Class Mail Time Dated Material. Please Expedite!

https://www.w6ze.org