



Dues! The Fresno ARC encourages all old and new members to fill out the form on the last page of any Skip and send with checks to the club P.O. Box. Remember to make checks out to "Fresno Amateur Radio Club, INC."

Our next club meeting

April 14 Friday 7 P.M. Derrel's Mini Storage Office 3239 W. Ashlan Ave Fresno, CA 93720

FARC Next Event-Meeting April 14 Fri. at 7 P.M.

FARC BOARD MEETING DATES
The 1st Tuesday of the month

FARC Nets

Morning Drive Time Net:
Weekday mornings-
7:30—8:00 a.m.
W6TO/R 146.940

FARC Net:

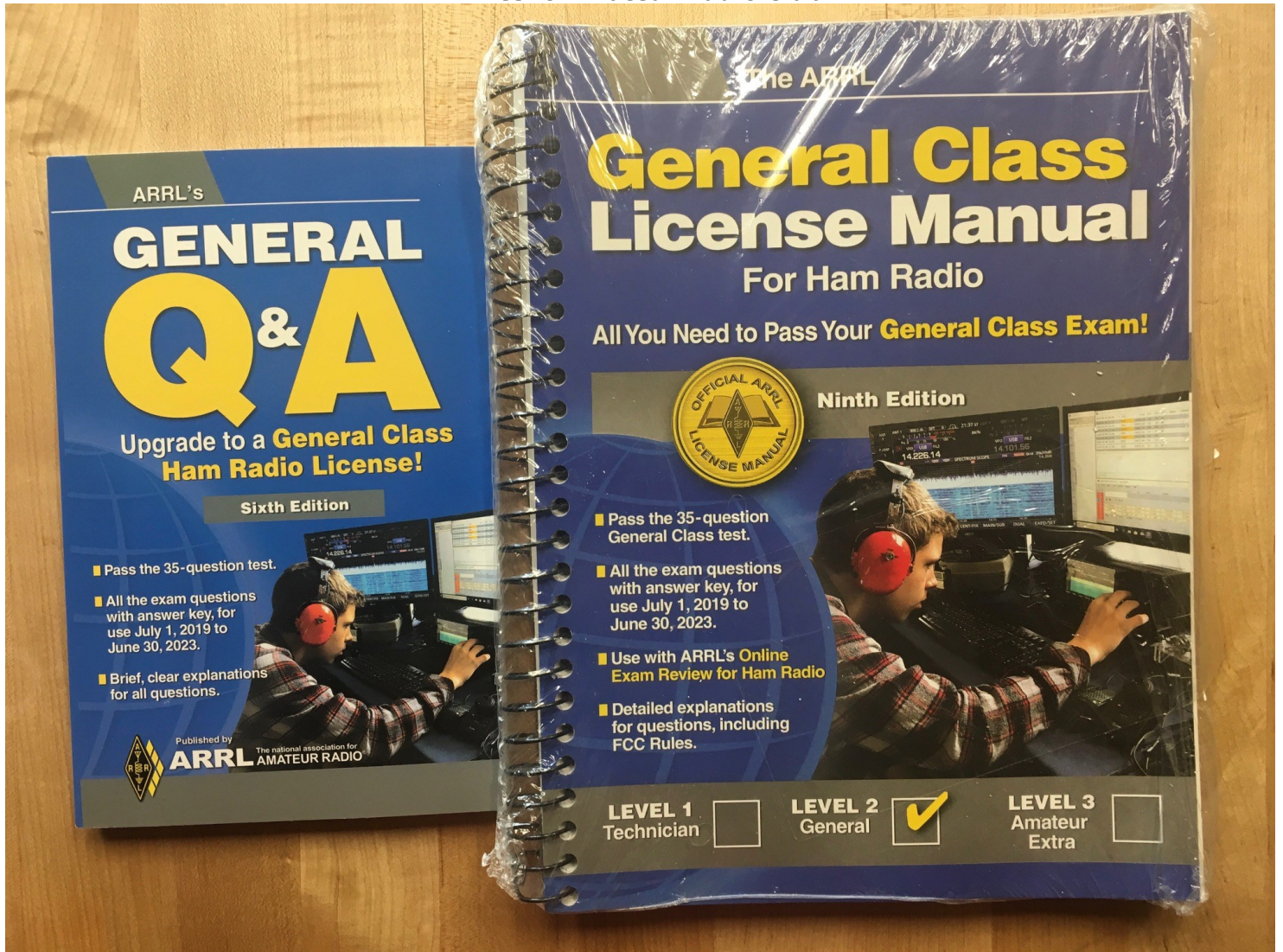
Sundays @ 7:00 pm
W6TO/R 146.940

Web page:
W6to.com



Original issue 1964 amateur radio stamps and first issue shown at the March FARC meeting.

Presented by George, WB6ITM to his brother, John, K6MI



Testing session!

I will be hosting an Exam for all that want to upgrade to the next level with loads of new privileges...

April 11 testing session 7 P.M. Tuesday

It will be held in a larger room at Peoples Church just North across the patio from main office called The Jackie Johnson Room...

Remember...The Question Pool for general changes in July so let's get going to beat the change!...

Ken WA6OIB 559-289-2891

Two long time club members passed away this month, Varouj N6DBH, and Joe WB6JQC, who is Joe WA6FFJ's father.

Look at page 7 in this Skip to see some pictures from 1961.

Ken WA6OIB presented a program about hidden transmitter hunting at the March meeting, preparing everyone for the March 18th hunt (pictures on page 10).

Field Day is the fourth full weekend in June, and Dennis N6NVG would like to hear from every one at the April meeting in order to make plans.

Our president Stu, WB6VRJ, is still recuperating from a visit to the hospital. We hope he is on the mend and will be able to get back to us soon.

Meanwhile Ken is taking the helm and will have a program for us at the April meeting.

Spring time is usually a great time to be on the air, and with the sunspot cycle on the upward swing the higher frequency bands are wide open. 10m, and 12m are great in the day time, with long distance stations being worked with low power and small antennas. The FT-8 and FT-4 modes are very popular!



FARC– New Members! 2023 dues now due! Stay on the membership list!
Send your dues check to Fresno Amateur Radio Club, INC., PO Box 5912, Fresno 93755-5912
Board meeting on the first Tuesday of the month. Details from Stu, WB6VRJ

FARC BOARD OF DIRECTORS

FARC Officers and Board members:

Stuart Home, WB6VRJ President	wb6vrj@w6to.com (559) 485-8659	12/2023
Ken Holden, WA6OIB VP	wa6oib@w6to.com (559) 289-2891	12/2024
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Jim Erbe, W6NIF Sec.	w6nif@w6to.com (559) 222-7524	12/2024
Larry Lion, W6OWL	larrylion2@outlook.com (559) 227-5159	12/2024
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Skip Editor John Morrice, K6MI k6mi@pacbell.net (559) 275-7373



You can download this and past Skip issues under the Document Archive menu by visiting w6to.com.

On the even years four directors are elected, and on odd years three directors are elected.

For sale adds on the next to last page of Skip!

Take advantage of the opportunity, send your adds to K6MI at pacbell.net

Testing April 11 Tuesday 7 P.M.
FARC meeting April 14, 7 P.M. Friday
QCWA Lunch April 25 Tuesday noon
FARC meeting May 12, 7 P.M. Friday
QCWA Lunch May 23 Tuesday noon
THunt May 27 10 A.M. Sat.
FARC meeting June 9, 7 P.M. Friday
VHF Contest June 10-11 Sat.-Sun.
FD June 24-25 Sat.-Sun.
FARC meeting July 14 7 P.M. Friday

San Joaquin Valley Nets:

The California Traffic Net meets daily on 3.906 MHz and 6:00 PM local time.

The Golden Bear Amateur Radio Net meets nightly at 7:00 PM local time on 3.975 MHz.

Northern California Net (NCN), the Section Traffic Net, meets nightly on 3.533 MHz at 7 PM Pacific Time.

San Joaquin Net meets Monday-Saturday on 3918 khz, at 6 PM Pacific Time.

Western Public Service System (WPSS) meets nightly on 3952khz, roll—at 7:30 PM local Pacific Time.

The Mission Trail Net meets nightly on 3.857.5 MHz at 8:00 PM local time.

Northern California Net 2 (NCN2) The slow speed training session of NCN, meets nightly on 3.533 MHz at 9 PM Pacific Time. Handling traffic on CW is a good way to improve your CW skills.

Sunday Night FARC 2m net 7 P.M. 146.94 Mc.
Sunday and Wed. Night 2m Bozo Net, 7:30 P.M. 144.24 Mc. USB
Monday 220 Mc. 7:30 P.M. USB 222.1 Mc followed by check ins on 50.140 Mc. USB
Tuesday 7:30 P.M. USB 1296.1 Mc.
Thursday 7:30 P.M. 432.1 SSB net

Wednesday 7 P.M. 10M cw net, 28.140
Wednesday 8 P.M. 10M ssb net 28.445

Every Wednesday night is an enjoyable time for all ham operators. At 7PM local time, there is a CW net on 28.140 MHz-the NCS is Guss, KF6ZXO- welcomes all hams regardless of CW speed. Then around 8 PM local, there is the USB net on 28.445 MHz.

The *Noontime Net* is a public service Amateur Radio Net that meets everyday on 7284 kHz. and 3970 kHz. with an alternate frequency of 7265 kHz for both nets.

QCWA net on 146.85 pl 141.3 7 P.M. on the Monday before the fourth Tuesday of the month.

Fresno Amateur Radio Club

40M Paper Clip Antenna Experiment

Back in 2012, I had been looking online at some unusual homemade antennas. I came across an antenna made of paper clips. I decided I would try to make a paper clip antenna and make a contact with it. I decided on a $\frac{1}{2}$ wave 40M inverted V antenna.

I knew it would take quite a few #1 "Premium" paper clips, so off I went to Office Depot to purchase 7 boxes of 100. For the 40M antenna it would take about 625 paper clips hooked end to end. I spent a couple of days stringing the paper clips together and untangling the mess it made.

I needed a support to get it as high as I could. I had 5 5-foot TV masts that I put together to get me up 25 feet at the center. I also needed some rings to guy the mast, some rope to guy it with (to keep it stabilized), a center insulator, and some plastic tent stakes.

I collected all the necessary items I would need to try the experiment. It was a warm, cloudy, early morning in August with absolutely no wind. I decided to do it very early in the morning so that the neighbors didn't think I was too crazy setting up this contraption on the front lawn.

I attached the center insulator at the top of the 25 foot mast and the paper clips to it. I then attached a length of coax to the center insulator and raised the TV masts to a vertical position and guyed it. It wasn't quite tall enough for the length of the paper clips. So, I just ran it down to a tent stake and ran the remainder along the ground between two more tent stakes about 6 inches off the ground.

I hooked up the Yaesu FT857D to the coax and a battery and started scanning the band. A breeze started blowing and it was a little scratchy. I decided to wait and kept scanning the 40M band. The breeze had stopped and I heard a station calling CQ. YE2R in Indonesia. I threw out my call and he came back to me with a 5/9. 8,657 miles on a paper clip antenna or about 13 miles per paper clip.

I had made one contact on the experimental paper clip antenna. A success. After making the single contact, I took it all down before the neighbors got up.



Sent by Duane KI6QEL

Local Amateur Radio Repeaters

<u>Organization</u>	<u>Call Sign</u>	<u>Frequency</u>	<u>Offset</u>	<u>PL</u>
CARP	K6ARP	146.865	-	141.3
CARP	N6JXL	224.380	-	141.3
CARP	K6ARP	444.725	+	141.3
CARP	NI6M	440.350	+	141.3
CONDOR	WB6BRU	224.900	-	156.7
FARC	W6TO	146.940	-	141.3
FARC	W6TO	223.940	-	141.3
FARC	W6TO	444.200	+	141.3
BRA	W6FSC	145.230	-	141.3
BRA	W6FSC	443.450	+	141.3
KINGS ARC	N6CVC	145.110/444.95	-	100.0
NC9RS	NC9RS	927.6625/902.0125	-	146.2
MADERA ARC	W6WGZ	147.180	+	146.2
MADERA ARC	W6WGZ	441.175	+	146.2
QCWA	WQ6CWA	146.850	-	141.3
QCWA	WQ6CWA	443.250	+	107.2
RACES	KJ6OUG	147.150	+	141.3
KE6JZ	KE6JZ	146.820	-	141.3
TURLOCK ARC	W6BXN	147.030	+	100.0
Fresno Low	K6WGJ	145.43	+	141.3
Meadow	N6VRC	147.165	+	141.3
Meadow	N6VRC	440.025	+	141.3
Santa Rita	N6VRC	147.285	+	141.3
Santa Rita	N6VRC	442.275	+	141.3
Visalia	N6VRC	442.525	+	141.3
Porterville	N6VRC	443.825	+	141.3
Fresno Low	K6WGJ	444.975	+	141.3
Bear Mt.	N6VRC	443.950	+	141.3
Mt. Bullion	N6VRC	442.350	+	141.3
Bear	N6VRC	927.05	+	141.3
Meadow Lakes	WA6OIB	146.61	-	141.3
WA6IPZ	WA6IPZ	52.84	-	82.5

Ten meter net, CW and Phone, every Wednesday
7 P.M. for CW at 28.140

8 P.M. for SSB at 28.445

This is a local net, the cw part run by KF6ZXO, and the SSB with various net control ops.. Have fun checking in on one or both modes.

Birthdays

4/10 Perry K6XJ
4/11 Kent K6UKZ
4/25 Christopher KD6HTV

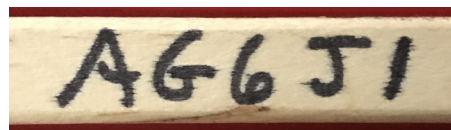
Anniversaries

Make sure you are on the 2023 membership list!

The monthly attendance prize!

The winner for March was not present at the drawing of \$10.

Next drawing will be \$20 at the April meeting. If winner is not present it will go up \$10 a month until someone wins and is there to claim it.





Fresno Amateur Radio Club



QCWA Quarter Century Wireless Association Lunch

Jeb's Blueberry Hill Café

3851 N. Blackstone Fresno, CA 93726

Noon Tuesday April 25, 2023

Net on Monday April 24 7 P.M. on 146.85 pl

Jerry K6PKO and Pat W6YEP
with the April QST and micro-
phones from the past

FOR SALE

Mel K6LJE

Ten-Tec Omni 6 Transceiver, model 563, which includes the following:

- 1) 100w output
- 2) Filters 2.4Khz, all of the 6.3Mhz CW filters, 1.8Khz, 500Hz, 250Hz, 1.8Khz 9Mhz
- 3) DSP
- 5) External cooling fan on back of the transceiver
- 4) Matching Ten-Tec desk microphone model 705
- 5) Operator's Manual
- 6) Matching Ten-Tec ac/dc speaker power supply

To the best of my knowledge, this rig is fully functional. I use it for CW operation. I'm offering it for sale only as a complete station.

SELLING PRICE FOR ALL OF THE ABOVE: \$775.00 cash (greenbacks)

Any interested buyers can call me on my landline in Visalia for more details: (559) 732-4363. Leave a message if I don't get to the phone in time. This offer to sell expires on April 30, 2023. Any buyer is welcome to come to my QTH to inspect the rig (Note: it's mounted in a console. Photo available).

Mel Broaddus K6LJE

Fresno Amateur Radio Club

1962 Fresno Amateur Radio Club officers, Jim K6OER president, Frank K6BKZ V.P., Frank K6CER secretary, and Jim K6PBL Treasurer.



Directors Jake W6ARC, Jake W6JXY, Joe WA6FFJ, Floyd W6FXV, Jim K6PBL, Fred K6SEV. Not shown are Howard WA6BUH and John W6HIA.

Club trailer, base station for communications during recent motorcycle Enduro, with FARC operators Fred W6QOS and Howard W6DUD, president Clark W6NKZ, and Harry KL7BRD, time-keeper for the motorcycle club.



Some of the Novice trainees in regular attendance at the Thursday night sessions held at the CCCC Technical Institute, Don W6WME and Joe WA6FFJ instructing.

Tube of the Month

UV-816D

One of the more interesting WWII tubes I have from Japan is the UV-816D. Its construction is different than any other transmitting tube I have seen. The basic tube is a 60-watt tetrode with a standard "50 watt" base. The filament requires 10 volts at 2.5 amps and the plate is rated at a maximum of 1200 volts DC. It could operate up to 15 MHz at full power. The unusual feature is that there is a fine mesh cylinder that is spot welded around all the internal structure and is connected to the screen grid. It's obviously a shield, but why it is needed is a mystery. Were they trying to keep something in or keep something out.

A good way to understand why something looks the way it does is to find out where it was used. There are few reference works that will give us details on the equipment used by the Japanese military. As an example, there are few surviving military aircraft as many that were flying near the end of WWII, were used in kamikaze attacks which gave them a poor record of survival. In 1944, the War Department printed a TM that described all the captured equipment the armed forces had found after a battle. This document is far from complete and has many omissions and errors, but it was a good effort for that time. The TM indicates some of the transmitters that used the UV-816D and the field equipment or aircraft where they were installed. From other sources I have identified more instances of where the tube was used. The pattern I see is that in all the equipment that used the UV-816D it was in an aircraft of the Japanese Navy. I found no other applications. Two of the transmitters were the Type 97 Mark 3 that used three tubes and the Type 96 Mark 3 that used a single. The Type 96 (first made 1936) was installed in the Aichi D3A (Val) dive bomber, the Nakajima B5N (Kate) torpedo bomber and the Mitsubishi G4M (Betty) medium bomber. The girl's names are allied nicknames used for easier identification. One common feature of these aircraft, is the antenna is a wire running from a post above the canopy to the top of the tail. At 100 watts, the RF field must be very high so close to the current end of that antenna. Is the shield an attempt to minimize the feedback into the transmitter to avoid oscillation?

In the April 2016 issue of QST, AH6CY gives us some background on the Type 96 Mark 3 transmitter and has allowed me to use his photo of it. On December 7th, 1941, Pearl Harbor was attacked by Kate torpedo bombers, Kate high altitude bombers and Val dive bombers. The transmitters were all only CW and had no phone capabilities, so in the movie, the Japanese commander yelling "tora, tora, tora" into the microphone, is all Hollywood. The commands were all in Japanese CW code.



Visit the museum at N6JV.com
Norm N6JV

Fresno Amateur Radio Club



Picture taken by Rob, AE6GE, showing the hunters from the March Hunt, which was hidden at a school in East Clovis.

The hunt was won by Mike KG6MSV, who will hide the transmitter at the next hunt in May.



John K6MI with 4 el. Beam looking for the hidden transmitter.

Fresno Amateur Radio Club

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Anything to sell? Send info to
k6mi@pacbell.net for next month's
Skip

Your add or card here!
Talk to the treasurer about the yearly fee!

Looking for a Kenwood TH-D74A.
Handheld

Thanks Aram KD6STR

Looking for input, stories or pictures or just
a sentence about your ham activities this
month for the next. Skip.

Thanks, John K6MI

My name is Hal. I signed up for member-
ship at the swap meet. Since, I have gotten
my general license. I am shopping for my
first HF mobile transceiver. If you might
know of anyone that might have something
for sale I would appreciate a heads up.
Thank you KN6WEH Hal 559-930-0944

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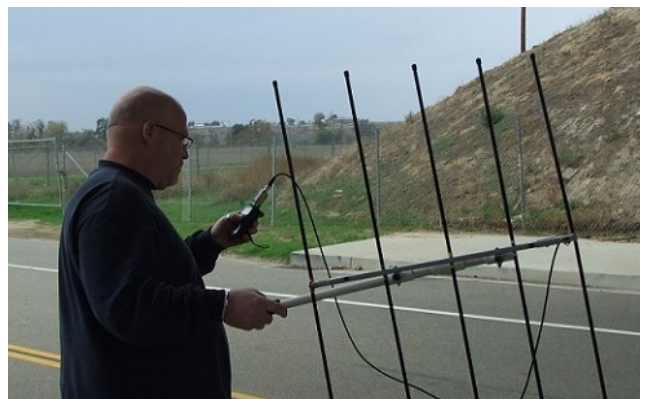
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Want Bendix King programming cable for EPH HT.
Dennis KI6NVG 559 323-7386

On the lookout for a good starter hf mobile radio w/
ssb.
Joe KN6QLE 493-1552

Need Yagi antennas for 10 and 20M, or multi band
Yagi.
Dan Zurcher 559 392-3305



Fresno Amateur Radio Club

Dues due in January!

Fresno Amateur Radio Club — Membership Application

Name _____ Call _____ \$20 Dues ___ Date _____

Street Address City State Zip _____

Home Phone (____) _____ Cell Phone (____) _____

Email ADR _____ (for delivery of Skip Newsletter)

License Class _____ Year 1st Licensed _____ ARRL member _____

Birthday (Month/Day) _____ Wedding Anniversary (Month/Day) _____

Spouse's name _____

Additional licensed Family Member(s) in same household (\$5 each)

Name _____ Call _____ Birthday _____

Make checks out to: Fresno Amateur Radio Club, Inc. (Do not abbreviate)

FRESNO AMATEUR RADIO CLUB, INC.
P.O. Box 5912
Fresno, CA 93755-5912

