



A Fresno Amateur Radio Club Newsletter April, 2024 Volume 87, Issue 4



**FARC Next Event-
Meeting April 12,
Fri. 7 P.M.**

**Derrel's Mini Storage
Meeting Room
3239 E. Ashlan
just East of Valen-
tine**

FARC BOARD meets
the last Thursday of the
month.

FARC Nets

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

FARC Net:

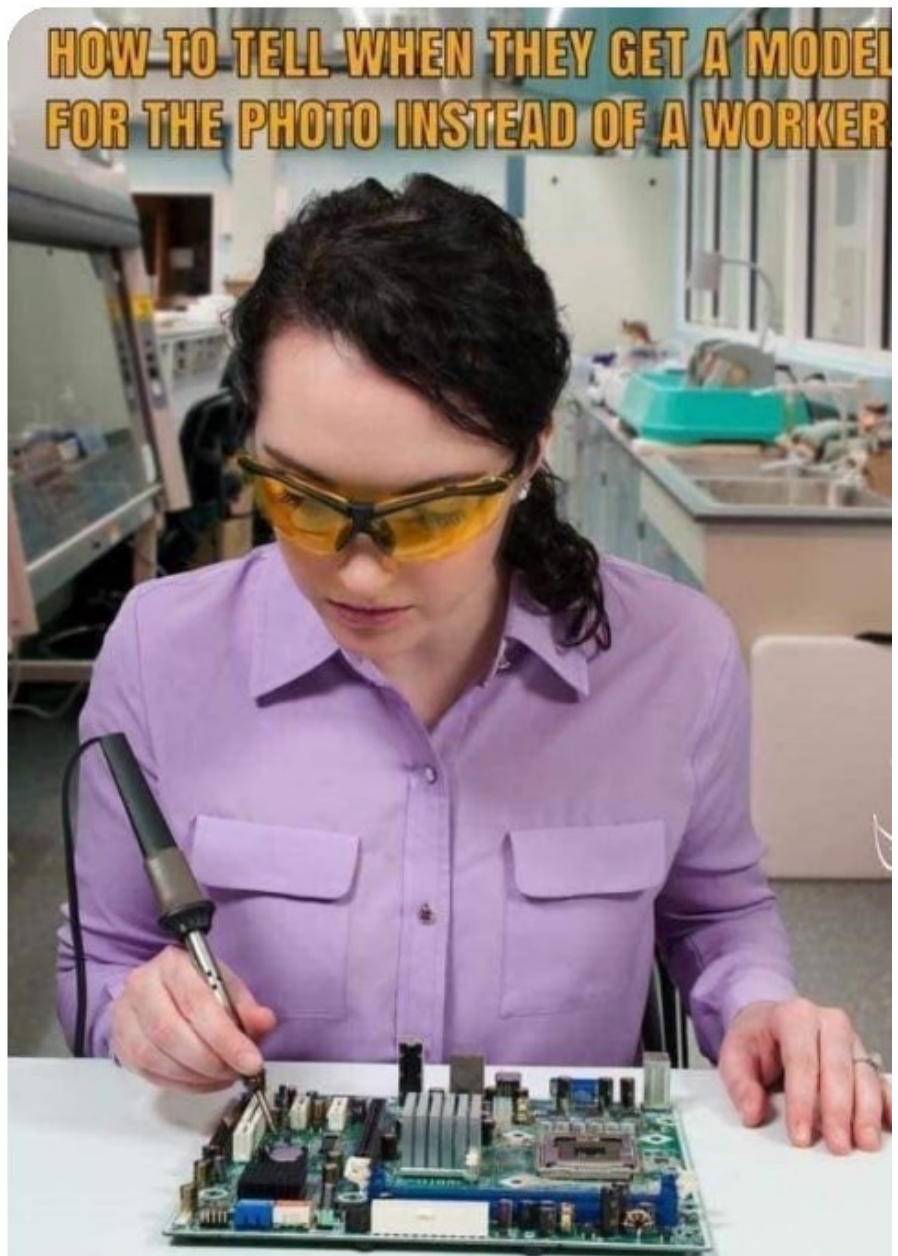
Sundays @ 7:00 pm
W6TO/R 146.940
Morning Net 7:30 A.M.

Web page:

W6to.com

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."

Info on
page 2 for
the next
meeting-
program
on solder-
ing, pre-
sented by
Ken
WA6OIB.



Remember to check into our FARC nets when you can, on the W6TO repeater (146.94-). Drive time net is Monday through Friday 7:30 A.M., and the Sunday night net at 7 P.M.

Regular meetings on the second Friday of the month.

Month	Topic	Summary
April	Soldering methods and techniques	Presented by Ken WA6OIB

May	Wire Antennas	Learn how to deploy and tune Dipoles and End-Fed Half Wave wire antennas
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June	Field Day	Prepare and organize for Field Day 2024 - June 22-23
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July	Old Radio Night - Ice Cream	Bring your old radio gear to our annual show and tell meeting.
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August	Logging - QRZ, eQSL, LOTW - Awards	Come learn about setting up logging software, LOTW, and applying for awards.
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September	Picnic	Date TBA
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Oct.	Business meeting	
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Nov.	Swap Meet	
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Dec.	Dinner	
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FARC– New Members! 2024 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.

Tube of the Month

TA4/500
Ein Hüttinger

I once ran across an interesting tube while shopping on a European tube site. Had no idea who made it, but it looked like an old classic German tube. It turned out to be a TA4/500 made by a German company called [Hüttinger](#).

The TA indicates that it is a transmitting triode with a tungsten filament. The 4/500 translates to a maximum of 4000 volts and an output of 500 watts. Some research found that it had a 7.5 volt at 17.5-amp filament and would operate up to 50 MHz. It is similar in many ways to an EIMAC 150T tube.

The base is typically German with banana plugs and the plate and grid pins are fitted with knurled nuts. The asbestos blanket to act as a heat proof cushion is also typical. The tube is 12.25 inches tall.

The Hüttinger company started in 1922 making small appliances in Freiburg, Germany. They produced electromedical devices like diathermy machines and in 1936 started producing their own line of amplifier/oscillator tubes. Three types were produced including the TA4/500.

Other products were made with the start of WWII and the size of the company required a move for expansion. Production quickly ended in late November 1944 when the RAF carpet bombed Freiburg. They quickly rebuilt some capabilities and produced small parts through the end of the war.

After the war, the company expanded their product lines into RF applications and eventually into power supplies used in semiconductor production and eventually into lasers. They also produced a more modern line of high-power vacuum [tubes](#) that are more common than the early types.

The company was merged into the Trumpf (sounds familiar) Maschinenfabrik Corporation where it still operates in the medical technology and power supply field.

Visit the [museum at N6JV.com](#)
Norm N6JV



Fresno Amateur Radio Club

KC2G's Near-Real-Time Maps and Data about HF propagation are generated every 15 minutes, from near real time data usually only 5 to 20 minutes old at <https://prop.kc2g.com>

Not only is the universe stranger than we think, it is stranger than we can think
—W Heisenberger

How to solder: I have seen this before.. but it showed up on Pinterest.. Quite amusing..

<https://www.pinterest.com/pin/501869952241332397/> Marc, WB6DCE

Just wanted to share this to put in the upcoming skip. Rob and I flattened these connectors and he used a drill press to drill the holes for a radial plate for my Wolf River Coil antenna. Guy, KN6WET



Fresno Amateur Radio Club

FARC SUNDAY NET SCRIPT

QST, QST, QST, this is amateur radio station _____, my name is _____ and I'll be the net control station for the Fresno Amateur Radio Club SUNDAY NIGHT net.

The Fresno Amateur Radio Club is affiliated with the ARRL.

Before I continue, is there any emergency traffic?

This net is held on the W6TO repeaters every Sunday for Fresno Amateur Radio Club members and guests. It provides news and information as a supplement to our regular club meetings.

The frequency for this net is 146.94 Mhz with a negative offset and a PL of 141.3 Hz. If this repeater is down, we will use 146.61 Mhz with a negative offset and a PL of 141.3 Hz.

The Fresno Amateur Radio Club meets the second Friday of each month. You are invited to attend the meetings at the Derrel's Mini Storage Training Center at 3239 W. Ashlan Ave. in Fresno at 7:00 p.m.

If the meeting location and date are changed the information will be announced on this net and in SKIP. Remember to visit our web site at W6TO.com

This is a directed net please transmit only when requested by net control.
Are there any FARC member stations needing an early check-in, Mobile or Limited Power ?

President's report, WA6OIB, Ken
Vice-President's report K6USY, Aaron

Are there any other board member with reports or announcements?
Are their representatives of other area radio clubs who have announcements?

The official FARC member roll call is coming up. When called, please list any traffic or "for sale or want" items you have for the net.

Visitors will be invited to check in following the FARC member roll call. (Roll Call)

That's the roll call as I have it. Are there any late or missed FARC members?
Are there any visiting stations wishing to check into the FARC net?

As a service to Valley Amateurs, this net continues with the "for sale and want" section. Please limit your items to amateur radio related equipment.

(Pre-listings first) or (We have no pre-listings)

Are there any stations with something to list?

Hearing none, this concludes this session of the Fresno Amateur Radio Club net.
This net meets every Sunday at 19:00 local time.

Monitor the other FARC net on this repeater which is the Daily Morning Commute Net, with Ben WB6GBS, Monday thru Friday from 7:30 to 8:00 AM.

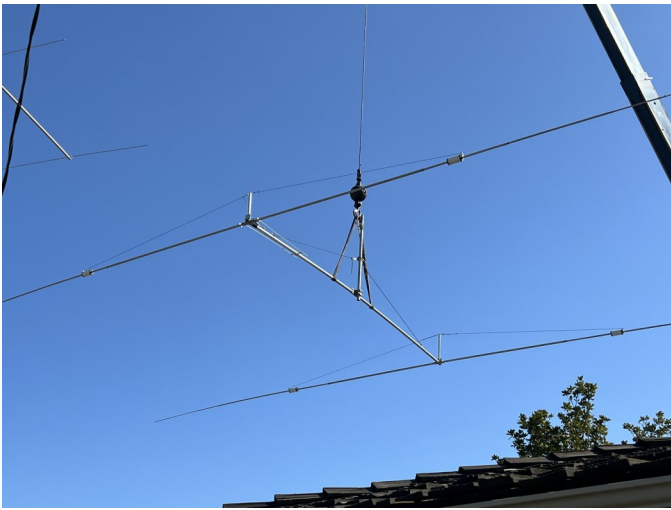
Remember to attend the regular FARC club meetings the second Friday of every month at the Derrel's mini storage on West Ashlan Ave.

This is net control station _____ thanking you for taking part in tonight's net. The repeater is once again available for regular amateur radio use.

Revised 02-05-24

Net manager Duane KI6QEL

Fresno Amateur Radio Club



40 meter 2 element beam at Larry W6OWL's place.

Lifted with a crane and placed as the bottom beam on the tower.

Carl Beckman KG6TTC on the tower with ground crew Ken WA6OIB. Larry W6OWL, Ron KN6UDY, and Jim W6NIF.

Ron and Ken were on the roof putting the M2 antenna together.



FARC BOARD OF DIRECTORS

FARC Officers and Board members:

Ken Holden, WA6OIB Pres.	wa6oib@w6to.com	(559) 289-2891	12/2024
Aaron Lusk K6USY V.P.	k6usy@w6to.com	(559) 905-4180	12/2025
Marcus Beedle KG6QNY Treas.	kg6qny@w6to.com	(559) 360-7444	12/2024
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Duane KI6QEL FARC Net Manager
Skip Editor John Morrice, K6MI k6mi@pacbell.net (559) 275-7373 (550) 906-7031 cell



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 to send your ads to K6MI at pacbell.net

April 12 Meeting 7 P.M

April 24 noon QCWA lunch

May 10 Meeting 7 P.M.

June 14 Meeting 7 P.M.

VHF Contest June 8-9

FD June 22-23 Sat.-Sunday

July 12 Meeting 7 P.M.

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 Monday. Meeting on the fourth Tuesday of the month.

Backup FARC repeater if 146.94 is down—

146.61 pl 141.3

Future ham exams are May 18, August 17. and Nov 16.

Exams are held at Hines Hospice on Shaw Ave

Fresno Amateur Radio Club

Local Amateur Radio Repeaters

<i>Organization</i>	<i>Call Sign</i>	<i>Frequency</i>	<i>Offset</i>	<i>PL</i>
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 backup	WA6OIB	146.61	-	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
WA6IPZ	WA6IPZ	52.84	-	82.5
Tulare CARC	WA6BAI	146.88	-	103.5

Birthdays

4/9 Ron KN6UDY
 4/10 Perry K6XJ
 4/11 Kent K6UKZ
 4/25 Chris KD6HTV

Anniversaries

4/11 Dan W6CTT

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.

The monthly attendance prize!

The drawing for \$20 at the March meeting was won by KD6STR, who was not present.
 Next month \$30.





Fresno Amateur Radio Club

QCWA Quarter Century Wireless Association

Next meeting April 24, 2024 at noon

at Jeb's Blueberry Hill Café
3951 N. Blackstone Ave., Fresno, CA 93726

QCWA meetings on Monday nights at 7 P.M. on the QCWA repeater,
146.85, pl 141.3



Tube of the Month

B

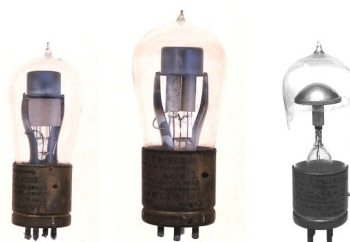
In 1921, the American Radio and Research Corporation (AMRAD), developed a cold cathode, half wave rectifier called the "S" tube for use in low power electrical devices. The next year, a former AMRAD employee named Charles Smith came up with a way to make home refrigerators. He was approached by a WWI veteran named Laurence Marshall who was an engineer and was interested in starting a company to make the refrigerators with Smith. Their new business became the American Appliance Company. Before any refrigerators were made, they realized that they should switch over to products in the hot radio/communications industry. Smith was familiar with the S tube, so they successfully acquired the rights to it from AMRAD.

In 1925, the helium filled, full wave, B rectifier was announced. Business was good but another company claimed that they had the rights to the name American Appliance Company. After only a month in production, they had to change the name on the tubes and adopted "Raytheon MFG Company". The first B tubes were marked "Raytheon" following the popular trend to have catchy trade names like pliotron or kenotron. Raytheon caught on and the newly re-branded tubes were standard in many receiver AC power supplies. The B rectifier operated at voltages as high as 350 volts at 60 ma and was often referred to as the B-60. To compete with the new RCA rectifiers, the B was replaced by the BH rectifier that would handle 85 ma and was less costly to produce. It looked like a mushroom as seen in the third example.

Within two years of the first sale of the B tube, RCA decided to change the rules for radio makers and required only RCA tubes were to be used. Raytheon was about out of business and had to ally with Union Carbide to produce receiving tubes labeled Eveready-Raytheon and also bought Acme-Delta Co., a maker of transformers and other auto and power equipment. In WWII, Raytheon demonstrated their ability to mass produce magnetrons and became one of the largest military contractors.

The first example is a B tube with the American Appliance Company name. These were produced for about one month. The second example with slightly different construction is marked Raytheon MFG Company and was made in larger quantities. Early examples had only American Appliance Company printed on a paper label.

Visit the [museum at N6JV.com](http://museum.at.N6JV.com) Norm N6JV



Fresno Amateur Radio Club



Gentlemen:

https://www.theatlantic.com/magazine/archive/2024/04/ann-hermes-morse-code/677468/?utm_medium=email&utm_source=pocket_hits&utm_campaign=POCKET_HITS-EN-DAILY-SPONSORED&MACMILLAN-2024_03_04=&sponsored=0&position=10&category=fascinating_stories&scheduled_corpus_item_id=75d0ad7c-2f45-4856-acd1-fe3d29b1adf3&url=https%3A%2F%2Fwww.theatlantic.com%2Fmagazine%2Farchive%2F2024%2F04%2Fann-hermes-morse-code%2F677468%2F

Very nice write up from the Atlantic Magazine... about KPH complete with photos.. rather cool!!

I have been to this place. quite some time ago.. totally Cool! this was the visit where they were feeding us lunch and this guy is wearing a K6TR call sign badge... I about fell over!! I was long time personal friends with the previous owner Dick Secundari....K6TR !! as well as his twin brother John Secundari K6TW

73
Marc Goldman
WB6DCE

Fresno Amateur Radio Club

Future ham exams are May 18, August 17. and Nov 16..

Amateur Radio VE Exam - Fresno

Where: Hinds Hospice
2490 W Shaw Ave Fresno, CA 93711

Registration is recommended Payment In Full At Event Only Everyone US\$ 15.00 (pay at venue)
Exams offered for Technician, General, and Amateur Extra Class

What to Bring:

1. Photo Identification - State issued Drivers License or ID Card, Passport, or Military ID Card.
2. FCC Registration Number (FRN) - Required prior to exam, see details below.
3. (if upgrading) [Official Copy](#) of current Amateur License or Successful Completion of Examination (CSCE certificate)
4. Valid Email address
5. Fee \$15.00 per test session. Exact change please.

CORES FRN Requirement - Applicants must use an FCC Registration Number ([FRN](#)) for all license transactions with the FCC. Examinees must [register in CORES](#) and receive an FRN before exam day. Exam Candidates you are REQUIRED to register in the FCC CORES system and receive a FCC Registration Number (FRN) before exam day. Applications that do not have an FRN will be **rejected** by the FCC.

An [instructional video](#) provides step-by-step instructions on how to establish a CORES account, which is necessary for licensees to make administrative updates and download electronic license authorizations.

Email address - All filers [must provide an email address](#) on all applications. When an email is provided, applicants will receive an official electronic copy of their licenses once granted (allow incoming email from authorizations@fcc.gov). If no email is provided when filing applications will be rejected. ARRL VEC suggests that those without access to email to use the email address of a family member or friend.

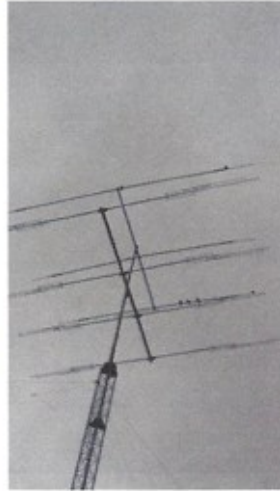
FCC Application Fee - The \$35 application fee applies to new, renewal, rule waiver, and modification applications that request a new vanity call sign. The fee is per application.

Administrative updates, such as a change of name, mailing or email address, and modification applications to upgrade an amateur radio licensee's operator class or to request a sequentially issued call sign, are exempt from fees.

The fee will be per application.

When the FCC receives the examination information from the VEC, it will email a link with payment instructions to each successful candidate who then will have 10 calendar days from the date of the email to pay through the FCC [CORES](#) system

Ham Radio Equipment for Sale



Yaesu - FP-2000 Power Supply
Yaesu - DMU-2000D
Yaesu- FT-2000 F/50 MHz Transceiver

Tresco 35 Ft Crank Up Tower
KT34 (A) Upgrade to KT34M2

Cushcraft-A3Ws 12&17 Meter Beam

Me- 30M2 Beam

Kenwood TL-922A Linear Amp

Me-6M beam

Items were purchased new. Make offer for all items as a package.

Contact - Richard Smith / WD6FF
Madera County Amateur Radio Club
559-323-1114
richgff@sbcglobal.net

Fresno Amateur Radio Club



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CMAS Contract # 3-06-58-0122B GSA Contract # GS-35F-0248J

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 input, stories or pictures or just a sentence about your ham activities this month for the next. Skip.
Thanks, John K6MI



M2 ANTENNA SYSTEMS, INC. Michael Staal
V.P. & Designer
K6MYC

- Antenna Design & Production from DC to Microwave
- Machine Work & Manufacturing Services
- System setup & Installations

4402 N. Selland Ave. Fresno, CA 93722
559.432.8873 Fax 559.432.3059 website: www.m2inc.com

For Sale: Yaesu FT-847
All mode--160m-10m+WARC, 6m, 2m, 70cm
\$700 OBO
contact: Richard (559) 285-9772
or rpolson47@gmail.com

Tnx/73 N6FUB



The donuts will be back next month!

Looking for a manual for the HiGain Thunder Bird Beam or parts and info on balun
Also want Yaesu microphone YE-17
Dennis KI6NVG 559 323-7386

ARRL Field Day

ARRL Field Day is the most popular on-the-air event held annually in the US and Canada. On the fourth weekend of June, more than 35,000 radio amateurs gather with their clubs, groups or simply with friends to operate from remote locations.



2024 FD will be June 22-23

Always a good idea to mark it on your Calander!

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) _____

Partner'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

