

VALLEY HAM NEWS

December 2022

YSARC Web Page: <http://www.ysarc.net>

**P.O. Box 1169
Yuba City, California 95992**

December 2022

Editor: Marsha L. Sylvester-José, KI6CSN Webmaster: Paul Hyatt, W6PNH
Assistant: Curtis R. Sylvester-José, KF6VFP
Telephone: 530-743-3003 Club Call Sign: W6KJ
E-Mail: Curtis at KF6VFP@arrl.net Board at board@ysarc.net
Marsha at KI6CSN@arrl.net

CLUB OFFICERS

Pres.: Chris McLain, KK6VZD
Vice Pres.: Steve Shepard, KN6IJD
Secretary: Linda Maas, KK6SOZ
Treasurer: June McJunkin, N6JEY

BOARD OF DIRECTORS

Joe Visalli, N9BD
Paul Hyatt, W6PNH
Robert Kelly, K6VNR
Bud Myers, KK1BUD
Ryan Mather, K6RCM

REPEATER TRUSTEE

Dave Gartner, WD6AXM

LIAISONS

ARES: Neil Bossard, N6CNY
ARRL SM: Carol Milazzo, KP4MD
VE Liaison: LeRoy Smith, KJ6DKM

UPCOMING EVENTS

03 Jan – Board Meeting
04 Jan – 27 Feb – Technician Class
07 Jan – VE Session
14 Jan – Fox Hunt
17 Jan – General Meeting

07 Feb – Board Meeting

11 Feb – Fox Hunt

21 Feb – General Meeting

04 Mar – VE Session

07 Mar – Board Meeting

11 Mar – Fox Hunt

21 Mar – General Meeting

25-26 Mar – QSO Today Virtual Ham
Fest

04 Apr – Board Meeting

18 Apr – General Meeting

22 Apr – Bike Around the Buttes

Local Nets

YSARC Net: Monday night at 7:00 P.M. (146.085+) PL 127.3 with swap shop and help sessions.

Butte County ARES Net: Monday night at 8:00 P.M. (145.290-), PL 110.9

GEARS Club Net: Tuesday night at 8:00 P.M., (146.850-), PL 110.9

ARES Net: Thursday night at 7:00 P.M., (146.085+) PL 127.3.

YL Net: Sunday nights at 2000, (146.970- MHz) PL 123.0.

ARRL Sacramento Valley Section (VHF) Net: Third Thursday of each

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month at 7:30 P.M.: on the WD6AXM repeater followed by an HF Net on 3987 kHz LSB.

OARS Net: Sunday night at 8:00 P.M., (146.655-), PL 136.5.

Other nets (From the GEARS Radiator Newsletter)

Sac Valley Net: 7:00 P.M., 2nd Wed of the month (146.850-), PL 110.9

440 Wed. Night Net: 8:00 P.M. each Wednesday, 440.650 MHz.

Golden Bear Net: 7:00 P.M. daily 3975 kHz.

Willie Net: 8:00 P.M. Mondays, 1930 kHz.

CA Traffic Net: 3906 kHz nightly at 6:00 P.M. for traffic listing and 6:30 P.M. for roll call.

California TALARC (The American Legion Amateur Radio Club) net: Sunday at 1:00 P.M. weekly on 7278 kHz.

FOX HUNT



Unfortunately, the December Fox Hunt got rained out. The next Fox Hunt will be Jan 14th. Beginning at 9 AM. The Fox will be transmitting from somewhere in Yuba City on 146.565 MHz. When you arrive at the location, you'll have an opportunity to find a second, low-power transmitter on foot. We'll have some refreshments and a chance to share hunting stories. After about an hour the APRS will be turned on.

Contact: Paul Hyatt, W6PNH. He will be available on the repeater.

Bring your transceivers and antennas. Can you find the hidden transmitters?

Paul (W6PNH) and Karla (K6KDS)

GREETINGS TO ALL WHO USE THE WD6AXM REPEATER

This a reprint of a 2020 article that Dave (WD6AXM) wrote.

That which follows is a written explanation for the standards that I have strived to maintain over the past 30+ years of operation. This is an attempt to have a written standard that can be shared with the newcomer to our hobby, as well as the seasoned operator, for that facet of our hobby known as FM repeater operation, as it applies to this repeater. Most of these same rules are widely accepted and used on most repeaters in operation today. All of you help make our repeater what it is today and for that I thank you very much.

Why do we need rules at all for repeater conduct or etiquette?

No one likes a bunch of arbitrary rules, but when you have a shared resource, like a wide area coverage repeater they become necessary. We tend to assume (we all know what "assume" stands for) that everyone knows the generally accepted rules. But, that could be careless of us and unfair to those who want or need to have a clearer definition of our expectations and requirements. It can also create discord when repeater users offend others by unknowingly breaking some unwritten

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rule. Activities that may be an irritation or even a flagrant violation to one person might not be an issue at all to another. It's probably best for us to be clear about the rules we really think are important. It is not our intention to define every action allowed or disallowed but to provide some minimum expectations and guidelines for proper etiquette.

What gives the owner or trustees the right to tell someone how to operate?

All repeaters have rules. These rules often go beyond Part 97. And, users who refuse to comply with the repeater's rules can be told to stop using the repeaters. This is entirely at the judgment of the repeater owner or trustee. FCC Rule 97.205(e) says, "...Limiting the use of a repeater to only certain user stations is permissible." There are no qualifications – ifs, ands, or buts – to this rule. This isn't just the right to close a repeater. In fact, the ARRL says, "...a repeater does not have to be listed as being "closed" in The ARRL Repeater Directory in order to have a limited access." (Source: The ARRL's FCC Rule Book) The terms "open" and "closed" don't appear in the regulations at all! All repeater users must follow the rules of the repeater.

Nothing could be fairer. The ARRL says it clearest of all: "A repeater is not a public utility - you don't have a "right" to use it. When you are using someone else's repeater you are, in effect, a visitor in the owner's station. So, you should conduct yourself accordingly. If you use that station in a manner that the owner finds objectionable, that person has every right to revoke your privilege

of using it!" (Source: The ARRL's FCC Rule Book)

Each repeater owner / trustee is responsible for the operation of their equipment. They must always meet the FCC defined rules, and may also implement a more stringent set of rules for the operation of their equipment. To use the repeater, you must follow the rules. There are repeaters with more lenient rules than ours and some which are much more restrictive. Beyond the FCC minimum requirements, it's up to each repeater owner / trustee to set their own operating rules. A repeater user needs to try to fit in. If you do not agree with these rules for the WD6AXM repeater or do not suit your personal needs or style, we encourage you to go elsewhere. We wish for everyone willing to abide by these simple rules to freely use our repeater.

Here are the minimum rules. They are pretty basic.

We understand that everyone slips once in awhile. But, we expect all users of the WD6AXM repeater to do their very best to follow these few simple rules of repeater usage. Conduct on the repeater should be governed by common sense and courtesy. If you are not sure your actions are within the rules listed below, don't be afraid to ask.

- Always identify yourself according to the regulations. Basically that means at the beginning of your conversation, then every 10 minutes thereafter and finally at the end of your conversation. (Hint: The repeater is set to identify every 10 minutes of usage and one final time after 10

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minutes of inactivity until it is used again.)

- Avoid lengthy conversations. Give some pauses between transmissions. Let the repeater carrier drop. The repeater has a 3 minute timeout timer.
- Any kind of "Business" communications is not permitted, both by FCC rules and the repeater licensee. This includes coordinating business affairs and actions, as well as conducting actions that result in monetary gains or benefits to a business. The first question to ask yourself, "Is the person I am communicating with, related to my business or commercial affairs and is the information I am communicating have anything to do with my business or commercial affairs?" Also, in some instances, personal family affairs could be construed as business affairs and should be communicated by other means. Health and Welfare is OK.
- Do not interrupt existing conversations unless you have something meaningful to add. Do so in a courteous manner.
- Yield existing conversations to recognized activities: RACES, Skywarn, Monday Night YSARC net, etc.
- Watch your language; our repeater is "G-Rated" 24 hours a day and family oriented.
- Do not engage in political or religious soap boxing.
- Conversations with sexual

content or innuendo will not be tolerated.

- Do not engage in any personal antagonisms.
- Do not use CB lingo/language. Try not to use "Q" codes excessively.
- Always yield the frequency to a breaking station (any station with emergency traffic)
- Listing of items for sale OTHER than ham related equipment is not allowed. Negotiations are to take place elsewhere, (i.e. landline or in person).
- If you hear stations jamming or interfering do not make any comment, ignore them. Do not interact, antagonize or acknowledge those interfering!

The WD6AXM repeater is open for all licensed Amateur radio operators to use provided you follow the rules in using it.

Part 97, officially called Title 47 of the Code of Federal Regulations, Part 97 (47 CFR Part 97), is the body of rules that govern the Amateur Radio Service.

We welcome you and hope you have many enjoyable conversations on the WD6AXM repeater.

73!

Dave (WD6AXM)

CLUB STORE

The club has the following items available for purchase at cost:

1. PL259 Coax connectors, 21 each. Cost is \$1.84 each.

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2. RG8X reducers, 84 each. Cost is \$0.64 each.
3. Power Pole connectors, 25 red/ black pairs. Cost is \$1.00 per pair.
4. RG8X strain relief boots, 5
5. RG8X Black Coax, 1 spool 85 feet, 1-spool 100 feet and 1 coil of 125 feet. Cost is \$0.39 per foot.
6. BNC Female to SMA Female Adapter, 7 each. Cost is \$3.50 each.
7. Red/Black Power Cable, 45 feet. Cost is \$1.38 per foot.
8. LMR240 Double Shielded Coax, 584 feet. Cost is \$0.26 per foot.
9. RCA Male to BNC Female Adapters, 5 each. Cost is 2.00 each.
10. BNC Male Crimp 20 each. Cost is 2.00 each.
11. BNC Male-to-Male Adapter 3 each. Cost is 3.00 each.
12. SO-239 to SO-239 2 each. Cost is 2.00 each.
13. TNC Male Crimp 10 each. Cost is 2.50 each.
14. BNC Male to RCA Female Adapter 7 each. Cost is 2.00 each.

Also available are 25 Watt soldering irons that can be checked out for up to 1 month.

If you are interested in checking out a soldering iron or purchasing any of the club store items contact, Curtis (KF6VFP) at (530) 743-3003, by email at KF6VFP@arrl.net, on the air, or at one of the club meetings.

CLUB CHRISTMAS PARTY

Lee's Restaurant



Socializing



One of 5 tables of door prizes



A visit from Santa

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Good food and plenty of it

Many more photos can be seen on the club's Facebook page.

ONLINE HAM RADIO UNIVERSITY JANUARY 7, 2023

This 24th annual event shares ideas, experiences, and knowledge among Ham Radio operators.

GoToWebinar will be used as the Internet link for attendees.

For more information visit:
hamradiouniversity.org

ASK CURTIS

What are coulombs?

Coulombs are a unit of charge in the International System of Units (SI). It is equal to the electrical charge delivered by 1 Ampere in 1 second or 6.241509×10^{18} *e* (elementary charges). The symbol for a coulomb is C and represented by *q* in equations. $1 \text{ C} = 1 \text{ A} \times 1 \text{ s}$.

The coulomb is named after Charles –Augustin de Coulomb a French officer, engineer and physicist who discovered coulombs law; the description of the electrostatic force of attraction and

repulsion.

Some interesting facts about coulombs:

·A capacitor of one farad can hold one coulomb at a drop of one volt.

·One ampere hour equals 3600 C, hence $1 \text{ mAh} = 3.6 \text{ C}$.

·The charges in static electricity from rubbing materials together are typically a few microcoulombs.

·The amount of charge that travels through a lightning bolt is typically around 15 C, although for large bolts this can be up to 350 C.

·The amount of charge that travels through a typical alkaline AA battery from being fully charged to discharged is about $5 \text{ kC} = 5000 \text{ C} \approx 1400 \text{ mAh}$.

·A typical smartphone battery can hold $10,800 \text{ C} \approx 3000 \text{ mAh}$.

Sources:

1. en.wikipedia.org/wiki/Coulomb
2. The ARRL Handbook for Radio Communications 2014

Curtis (KF6VFP)

TECHNICIAN CLASS

Coming in January and February 2023 is the next technician class. Do you know of anyone interested in becoming a ham? Encourage them to attend and then become their Elmer. Help your hobby to grow.

Classes will be held on Monday and Wednesday evenings from 6:30 to 8:30 P.M. at the American Red Cross Center in Yuba City beginning Jan. 4, 2023. They will run through Feb 27th. The Red Cross building is located at 125 E.

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Onstott Road, Yuba City. We will be meeting in Classroom 2.

So far we have four signed up for the class.

Those interested in signing up can do so by sending an email to Curtis at KF6VFP@arrl.net or calling 530.743.3003 and leaving a message.

THE (INCOMING) "PREZ" SAYS



Greetings fellow club members! While trying to emulate good practices from another club when I was first elected President oh so long ago, I initiated a **"Prez" Says** letter to pass on some of my thoughts about our club and some (hopefully) interesting HAM topics that I thought would be of interest to our members. Sadly, good intentions didn't pan out and my **"Prez" Says** newsletters faded away after a couple of months. I am starting them up again, as you can see, and I hope this time to be able to follow through better than I did last time.

We had a lot happen in 2022. First of all we lost a good friend, KI6UOX/Jim. We didn't always see him at the club meetings but he was a faithful attendant of the Ham Test Sessions. He always had a smile on his face and he was always wearing that Cubs cap (my kind of guy). Secondly, we have had a couple of our long term and dedicated club members move on to other climes. Bill/WA6OHP,

Dave/KC9EI and Brenda/KC9EIO. Both Bill and Dave have contributed a lot to club activities over the years and were (are) very generous in sharing their knowledge with any that ask. We will miss them but wish them all the best in their new homes. This is also the year that the Fox Hunt was resurrected, being driven by our outgoing president Daniel/KM6RHC. He did a great job in getting a regular schedule of fox hunts going and getting the word spread to interest many of our members and friends in a fun way to experience ham radio operations. Both Paul/W6PNR and Karla/K6KDS have done a phenomenal job of keeping the job rolling when passed the torch and have added some fun new aspects to "the chase" by incorporating a second "close in" hunt and introducing APRS. When next you see - them thank them for their efforts to make the Ham experience more enjoyable for our club.

This coming year is wide open as to what we might want to do as a club. Hopefully we can bring back the "Antenna Party" that was popular a few years ago and give newer hams an opportunity to dip their feet into the world of antenna building with the assistance of some of our more experienced members. Our recurring events will be held again this year, providing communications for the annual "Bike Around the Buttes" event. This has always been a good way to introduce new hams to an organized way to assist our community. Field Day in June is another way to practice and introduce those less experienced to HF operations and demonstrate our hobby

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to those not yet involved. Some interest was shown at having a booth at the Yuba City Stroll last year but time was against us when it came to registering for the event. With a little more time to plan this would be a good opportunity to highlight our hobby to the general public. There's plenty more we could do if we put our minds to it. Maybe it's the year to plan a special event centered on an event unique to Yuba-Sutter. Or plan some operations with some of our neighboring clubs. At any rate, the board would love to hear what the members would like to do. Please be vocal about your ideas.

Our first meeting is January 17th. I look forward to seeing you all as we start a new year.

Till next time, 73,

Chris / KK6VZD

ARRL BULLETIN

New General Class Question Pool

QST de W1AW

ARRL Bulletin 23 ARLB023

From ARRL Headquarters

Newington CT December 12, 2022

To all radio amateurs

SB QST ARL ARLB023

ARRL023 New General Question Pool Released for Ham Radio Licensing Effective July 1, 2023

The National Conference of Volunteer Examiner Coordinators' (NCVEC) Question Pool Committee (QPC) has released the 2023 - 2027 General Class FCC Element 3 Syllabus

and Question Pool to the public. The new General Question Pool is effective July 1, 2023, through June 30, 2027.

The new pool incorporates some significant changes compared to the 2019 - 2023 version. Its 432 questions were modified slightly to improve wording and to replace distractors; 51 new questions were generated, and 73 questions were eliminated. This resulted in a reduction of 22 questions, bringing the total number of questions in the pool down from 454. The level of difficulty of questions is more balanced, and the techniques and practices addressed have been updated.

The pool is available as a Microsoft Word document and PDF online at,

<http://www.ncvec.org/page.php?id=369>.

The single graphic required for the new General Question Pool is available within the documents, or separately as PDF and JPG file formats.

"The newly revised pool must be used for General-class license exams starting July 1, 2023," said ARRL VEC Manager Maria Somma, AB1FM, who is a member of the NCVEC Question Pool Committee. "New test designs will be available to ARRL Volunteer Examiners on that date. The ARRL VEC will supply its officially appointed, field-stocked VE teams with new General exam booklet designs around mid-June."

General class examination candidates preparing for their exams using the 9th edition of The General Class License Manual, and/or the 6th edition of ARRL's General Q & A are

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encouraged to test by, or before, June 30, 2023. New editions of ARRL licensing publications will be available in May, for exams taken on, or after, July 1, 2023.

MONDAY NIGHT NET CONTROL

To date, John has the following hams volunteering for 2023. Net control positions are open for 2023.

If you wish to sign up let John know.

2023		
Jan	Steve Shepard	KN6IJD
Feb	Chris McLain	KK6VZD
Mar	Karla Hyatt Paul Hyatt	K6KDS W6PNH
Apr	Marsha Curtis	KI6CSN KF6VFP
May	Ernie Rissler	KN6GTN
Jun		
Jul		
Aug		
Sep		
Oct		
Nov		
Dec		

Thanks to all who have volunteered.
John (KI6UDF)

VE TEST SESSION

Sat. Jan 7th 2023 at 715 King Ave., Yuba City at 9:00 A.M. VE's are needed to administer the exam. The elements for Technician, General, and Extra class will be offered.

The exam requires two forms of ID. At least one of them must be a picture

ID. A fee of \$15.00 is required.

A calculator may be used as long as it has had all of its memories cleared and there are no built in or preprogrammed formulas.

Upgrades to a higher class also require two forms of ID. At least one of them must be a picture ID. Also, bring your license and a photocopy of the license.

If you take an exam and pass, you can take the next higher class exam for no additional cost.

If you do not pass and wish to try again an additional fee will be required.

Please Note: You must use a FCC Federal Registration Number (FRN) to take an exam and for any transactions with the FCC. You will need this number for the forms you'll complete. A FRN can be obtained at:

<https://www.fcc.gov/licensing-databases/commission-registration-system-fcc>

Also note: new licensing fees are in effect. The fees will be the responsibility of the applicant regardless of filing method and must be paid within 10 calendar days of FCC's receipt of the application. For applications filed by a VEC, the period does not begin until the application is received by the Commission, a ULS file number assigned, and an email sent by the FCC directly to the applicant."

VECs and Volunteer Examiner (VE) teams will not collect the \$35 fee at license exam sessions. New and upgrade candidates at an exam session

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will continue to pay the \$15 exam session fee to the ARRL VE team as usual, and pay the new, \$35 application fee directly to the FCC by using the CORES FRN Registration system.

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. After the fee is paid and the FCC has processed an application, examinees will receive a second email from the FCC with a link to their official license or explanation of other action. The link will be good for 30 days.

Good luck to everyone taking exams!

JANUARY QSO AND OTHER CONTESTS

07 Jan: Kids Day; Phone
07 Jan: ARRL RTTY Roundup; Digital
14 Jan: North America QSO Party; CW
21 Jan: North America QSO Party; Phone
21 Jan: ARRL January VHF Contest; CW, Phone, Digital
28 Jan: Winter Field Day; CW, Phone, Digital
30 Jan: YOTA Contest; CW, Phone

Many other contests can be found at:
http://www.arrl.org/files/file/ContestCorral/2022/January_2023_Corral.pdf

The December issue of QST Magazine also has a list of contests.

MEMBERSHIP RENEWAL

It is getting to be that time of year again when we remind everyone to renew membership for 2023. Full membership is \$20. Second ham in same household is \$5. Associate (non-voting) membership is \$5.

You can also make a donation to the repeater fund or to YSARES at the same time if you are so inclined.

A copy of the club application form is available on the club website: ysarc.net.

BOARD MEETING

The next board meeting will be held on Tues. January 3 at 1900 (7 p.m.) via zoom. Details for the zoom meeting will be emailed later.

COMMENTS

✓YSARC's web page is: ysarc.net. Past VHN's are available on the club's website. Check out more photos of fox hunts and public service events!

Thanks to our webmaster, Paul Hyatt, W6PNH.

Click on the upper right-hand icon on the club's homepage to join the YSARC's **Facebook** page.

✓T [New England ARES Academy](https://www.youtube.com/channel/UC...) channel on YouTube has series of excellent ARES training videos.

✓Send your ham related articles and pictures to share in your VHN. Pictures of ham shacks, antenna parties, field day, Bike Around the Buttes, Fox Hunt, etc. are appreciated. Send them to KI6CSN@arrl.net or KF6FVP@arrl.net

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✓If anyone has ideas/suggestions for club activities that we can do online, in person or virtually please contact any club officer or board member or email your suggestions to board@ysarc.net.

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Yuba-Sutter Amateur Radio Club

Board of Directors Meeting Minutes November 1, 2022

Held on Zoom platform, hosted by June

Meeting called to order by President Daniel Weber KM6RHC at 19:01 hours.

Officers and Board Members present unless noted:

President: Daniel Weber KM6RHC
Vice President: Steve Shepard KN6IJD
Secretary: Linda Maas KK6SOZ
Treasurer: June McJunkin N6JEY

Director: Joe Visalli N9BD
Director: Chris McLain KK6VZD
Director: Mike Morris KK6ISQ
Director: Paul Hyatt W6PNH
Director: Robert Kelly K6VNR

Members and Guests present: Curtis Sylvester-Jose KF6VFP, LeRoy Smith KJ6DKM, Claire Schloenvogt KI6VWG, and Marsha Sylvester-Jose KI6CSN.

Treasurer's Report:

- June reported that Paul caught an addition error on the ARES line of transaction summary.
- Motion to approve June's November financial reports, Joe/Robert, passed.
- Motion to reimburse June \$200 for her payment of ARRL club liability insurance, Joe/Paul, passed.
- Curtis noted that the Methodist Church and Red Cross will need a copy of current liability insurance with them specifically named.

Secretary's Report:

- Motion to approve minutes from October 4, 2022 as written, Chris/Joe, passed.
- We have 67 Full Members this year. The 1/3 quorum needed for elections is 23.

Old Business

- Curtis has 5 volunteers for the Veterans Day parade. More would be nice.
- Elections at next club meeting. Need a volunteer for president. Need to promote attendance to make quorum.
- Christmas party tickets will be available for sale at the November club meeting.
- Our last board meeting of the year will be December 6 to approve election results.

New Business

- Curtis will look into availability of Red Cross meeting room for a Tech class in January.
- Winter Field Days have not been well attended in the past, so the club will not host one this January. Hams can still participate on their own.

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Motion to adjourn at 19:29 hours, Joe/Mike, passed.

Respectfully submitted by Linda Maas KK6SOZ, YSARC Secretary