

VALLEY HAM NEWS

January 2017

YSARC Web Page: <http://www.ysarc.net>
Y-S ARES Web Page: <http://www.ysares.org>

P.O. Box 1169
Yuba City, California 95992

January 2017

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Webmaster: Kevin Conde, KM6GVD

CLUB OFFICERS 2017

Pres.: Chris McLain, KK6VZD
Vice Pres.: Eleanor Knox, KI6CSO
Secretary: Linda Maas, KK6SOZ
Treasurer: June McJunkin, N6JEY

BOARD OF DIRECTORS 2017

Joe Visalli, N9BD
Kathy Burns, N7WVW
Manna Whelchel, KA6ETB
Matthew den Hollandar, AC6MF
Mark Peters, KA6FFM
Herb Pucket, W6HBU

REPEATER TRUSTEE

Dave Gartner, WD6AXM

LIAISONS

ARES: Steve Sweetman, K6TAZ
ARRL SM: Carol Milazzo, KP4MD
VE Liaison: LeRoy Smith, KJ6DKM

UPCOMING EVENTS

07 Feb – 7:00 P.M. General Club
Meeting, Sierra-Nevada Room, Caltrans
Building, 703 B Street, Marysville
15 Feb – 7:00 P.M. Board Meeting,

Caltrans Building, 703 B Street,
Marysville

04 Mar – 9:00 A.M., VE Test, 715 King
Ave. Yuba City

07 Mar – 7:00 P.M. General Club
Meeting, Sierra-Nevada Room, Caltrans
Building, 703 B Street, Marysville

15 Mar – 7:00 P.M. Board Meeting,
Caltrans Building, 703 B Street,
Marysville

04 Apr – 7:00 P.M. General Club
Meeting, Sierra-Nevada Room, Caltrans
Building, 703 B Street, Marysville

08 Apr – Bike Around the Buttes

19 Apr – 7:00 P.M. Board Meeting,
Caltrans Building, 703 B Street,
Marysville

02 May – 7:00 P.M. General Club
Meeting, Sierra-Nevada Room, Caltrans
Building, 703 B Street, Marysville

06 May – 3F Bike Ride

06 May – 9:00 A.M., VE Test, 715 King
Ave. Yuba City

17 May – 7:00 P.M. Board Meeting,
Caltrans Building, 703 B Street,

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Marysville

06 Jun – General Meeting

21 Jun – Board Meeting

24-25 Jun – ARRL Field Day

11 Jul – General Meeting

08 Jul – VE Session

19 Jul – Board Meeting

01 Aug – General Meeting

16 Aug – Board Meeting

02 Sep – VE Session

05 Sep – General Meeting

20 Sep – Board Meeting

03 Oct – General Meeting

07-08 Oct – CA QSO

18 Oct – Board Meeting

20-22 Oct – Pacificon

04 Nov – VE Session

07 Nov – Election of Officers and
Budget Approval

11 Nov – Veterans Day Parade

15 Nov – Board Meeting

05 Dec – General Meeting/Christams
Party

20 Dec – Board Meeting

Wednesday mornings – Breakfast
8:30 A.M. at Dancing Tomato in Yuba
City.

Monday nights at 7:00 P.M. – weekly
net (146.085+) PL 127.3 with swap shop
and help sessions.

Monday nights at 8:00 P.M. – Butte
County ARES net, 145.280 MHz–offset,

PL 110.9

Tuesday nights at 8:00 P.M. –
GEARS Club net, 146.850 MHz – offset,
PL 110.9

Thursday nights at 7:00 P.M. weekly
– ARES net.

Third Thursday of each month at
7:30 P.M. – the ARRL Sacramento
Valley Section (VHF) Net, on club
repeater followed by an HF Net on 3987
kHz LSB.

Other nets (From the GEARS
Radiator Newsletter)

Sac Valley Net, 7:00 P.M., 2nd Wed
of the month 146.850 MHz – offset, 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.

Club repeater: 146.085 MHz out,
146.685 MHz in, PL 127.3

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YESTERYEAR 1916



Allow Us to Present Miss Kathleen Parkin, Expert Radio Operator at Fifteen Years of Age. She has made her own apparatus.

CLUB STORE

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

1. PL295 coax connectors, 34 each. Cost is \$1.99 each.
2. RG8X reducers, 18 each. Cost is \$0.69 each.

3. Power Pole connectors, 93 red/black pairs. Cost is \$1.00 per pair.

4. Coax wrap, 1 roll. Cost is \$4.00 per roll.

5. RG8X strain relief boots, 10 each. Cost is \$0.50 each.

6. 10 AWG Red/Black Power Zip Cord, 23 feet. Cost is \$1.38 per foot.

7. RG8X Black Coax, 350 feet. Cost is \$0.39 per foot.

8. 7 BNC Female to SMA Female Adapter, \$3.50 each.

If you are interested in purchasing any of these items contact the club store manager, Curtis (KF6VFP) at (530) 743-3003, by email at kf6vfp@arrl.net, on the air, or at one of the club meetings.

GENERAL MEETING

The next general meeting will be held Tuesday, 07 Feb. at the Caltrans building at 7 p.m.

Joe Visalli, N9BD, will demonstrate how to use the Amateur Contact Log and it interfaces with a radio for logging contacts. He will give a demo on Logbook of the World (LoTW) and how it ties to several software packages.

<http://www.arrl.org/logbook-of-the-world>

Hope to see you all there.

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PRES SEZ

Well, it's a new year. And with that being said the first thing I'm going to do is remind all members that it's time to renew your membership. Many already have renewed (and have been very generous in donating to the repeater fund, thank you) and I want to thank those who have already renewed for being prompt. For those that still need to take care of that piece of business, the renewal form is available on the new website to print out, fill out and send in. New this year is the fact that this form is now a fillable PDF form. It can be opened from the website link and filled in by typing the info in each field. After filling it out it can then be printed out and mailed in. You can also save it to your computer by using the right mouse button to click on the form and choosing the "Save As" option. Not a huge improvement mind you but an alternative way to fill it out for the more technically inclined.

Having mentioned the new website, <http://www.ysarc.NET>, I want to pass on grateful thanks to Kevin Conde / KM6GVD and Joe Visali / N9BD for creating this new more attractive website. And more importantly than the looks itself, IT ACTUALLY WORKS. Kevin eagerly took on the challenge of building, maintaining *and improving* the website so club news and info can easily be found with a computer or smartphone. And to further improve information sharing throughout the club, and with other hams, he put up a

Facebook member page for more informal, time relevant information sharing. Got a new toy to show off? Post it on Facebook. Found a good deal that others would be interested in? Post it on Facebook. Need help with a project or just want to pick someone's brain? Post it on Facebook. Tell your ham friends who *aren't* part of the club about it. Think of it as an extension of our Monday night net. Not everyone will participate I know, some due to technological challenges and some because they don't "do" social media, but for those that do it's a great way to share.

Regarding the Monday Net, I want to put another plug in for volunteers to take some of the open slots we have this year. So far we have six of the twelve months covered and I think that's excellent for this early in the year. Thanks to those who are repeat Net Controllers, your constancy is very appreciated. For those that haven't taken up the challenge I repeat my invitation. I know that lack of equipment might be a barrier to some. As I write this Dave Gartner / WD6AXM is programming a Motorola MaxTrac mobile rig intended as a loaner for Net and event duty. A loaner power supply and antenna are also intended to be part of the package and will be available to any club member. Another barrier I suspect is keeping others from volunteering as a net controller is the anxiety of never having done anything like it. It took a few months for me to work up to taking on the challenge so I can certainly understand. For those that would but are a bit unsure of their

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abilities I offer my services as a mentor. I would be more than happy to have someone shadow me when I take Net duty and am willing to be present for the first Net that someone takes. I'm hoping other experienced net controllers would also be willing to mentor someone else and would announce that willingness. It would add to our pool of possible net controllers and, I'm sure, add to a ham's self-satisfaction in having mastered this skill. Speaking for myself I actually have fun running the Net.

I hope you're all as pleased as I was with the January regular club meeting. I'll admit to some mis-givings on my ability to lead it. There were a couple of times where I was thinking to myself "What do I talk about now?". It does help to know that someone will be giving a presentation of interest to the membership and I'm hoping we'll have a string of people willing to share some of their experiences of HAMship. Hopefully we can persuade someone with experiences in areas of amateur radio that a lot of us aren't familiar with to expand our horizons. I personally would like to see some presentations on digital modes (DPMR, Fusion), APRS, PSK31, Echolink, SDRs, etc.. I'm hoping someone in our club has some knowledge of those topics and will be willing to share. But anything you feel might be of interest to the club would be welcome.

I'm eager to see what the rest of the year will bring as I hope the rest of you are. We have a great group of people in our club and I'm looking forward to getting to know all of you better. If you hear me on the air give me a call so we

can have a chat, even if it's only for a few minutes. Till then, 73.

Chris / KK6VZD

HAARP

Recently, Alfred (KK6VOS) visited the High Frequency Active Auroral Research Program (HAARP) in Gakona, AK.

At the 03 January YSARC meeting, Alfred talked about his experience at the HAARP facility.

Originally, HAARP was a joint effort of the U.S. Air Force, U.S. Navy, and the University of Alaska to explore the possible development of ionosphere enhancement equipment for radio communications and reconnaissance.

In the summer of 2015 HAARP was handed over to the University of Alaska Fairbanks for research purposes.

HAARP directs a 3.6 MW signal, in the 2.8–10 MHz region of the HF band, into the ionosphere to study how radio signals are affected. The signals may be continuous or pulsed.

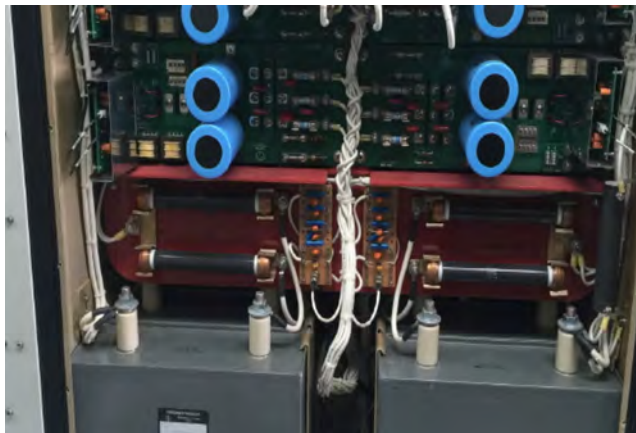
The ionosphere has been difficult to study. The air in the ionosphere is too thin for balloons and too thick for satellites to orbit.

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HAARP uses a 33-acre high-frequency phased array radio transmitter with a set of 180 antennas to energize portions of the ionosphere.



26 capacitors

HAMFESTS

Desert R.A.T.S. Hamfest

Start Date: 02/04/2017

End Date: 02/04/2017

Location: Palm Springs Air Museum

745 North Gene Autry Trail

Palm Springs, CA 92262

Website: <http://desertrats.am/>

Sponsor: Desert Radio Amateur
Transmitting Society (RATS)

Type: ARRL Hamfest

Talk-In: 146.94 (PL 107.2)

Public Contact: Mark Johnson, KD6SEC
PO Box 1167 Palm Springs, CA 92263-
1167

Phone: 760-770-3058 or 760-673-7

Email: kd6sec@arrl.net



24-amp power

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Arizona Section Convention (Yuma Hamfest)

Start Date: 02/17/2017

End Date: 02/18/2017

Location: Yuma County Fairgrounds
2520 East 32nd Street
Yuma, AZ 85364

Website: <http://www.yumahamfest.org>

Sponsor: Yuma Amateur Radio Hamfest
Organization

Type: ARRL Convention

Talk-In: 146.840 (PL 88.5)

Public Contact: Roger Hunt, K7MEX
13156 East 51st Lane Yuma, AZ 85367
Phone: 928-305-1034
Email: rhunt7@gmail.com

Salem Ham Fair

Start Date: 02/18/2017

End Date: 02/18/2017

Location: Polk County Fairgrounds
520 S. Pacific Highway West
Rickreall, OR 97371

Website: <http://w7sra.org>

Sponsor: Salem Repeater Association

Type: ARRL Hamfest

Talk-In: 145.33 (PL 186.2)

Public Contact: Wayne Siver, KE7ANM
P.O. Box 722 Salem, OR 97308
Phone: 503-779-6998
Email: hamfair@w7sra.org

MEMBERSHIP RENEWAL

It is that time of year again when we remind everyone to renew his/her

membership for 2017. The application form for renewal is available on the club website at:

(<http://ysarc.org/index.php/join-now>).

VE TEST SESSION

The next VE session will be 4 March 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. If you are planning on taking an exam you will need two forms of ID, at least one of them must be a picture ID. A fee of \$15.00 is required. A calculator may also be used as long as it has had all of its memories cleared and there are no built in or preprogrammed formulas.

If you are upgrading to a higher class you need to 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.

Good luck to all who are taking exams.

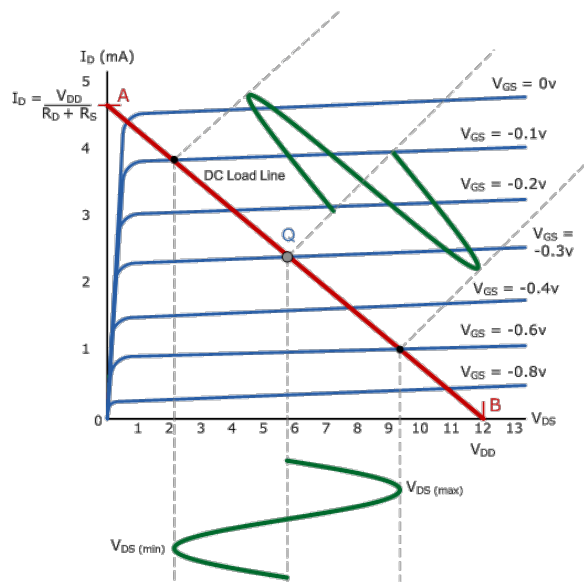
TECHNICIAN, GENERAL AND EXTRA CLASS QUESTION POOL REVIEW

From the Technician Class question pool:

T6B03 Which of these components can be used as an electronic switch or amplifier?

- A. Oscillator
- B. Potentiometer
- C. Transistor
- D. Voltmeter

The correct answer is C. A transistor is used to amplify voltages or currents. To amplify a transistor is biased in the middle of the characteristic curve (see image below). As long as you drive the signal around the bias point (Q) you will get a amplified signal. If however you drive the signal so that the biased is forced towards zero or towards the max you can use the transistor circuit as a switch – either it is conducting or it is not conducting.



From the General Class question pool:

G5A02 What is reactance?

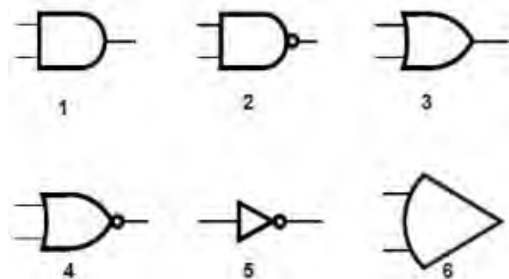
- A. Opposition to the flow of direct current caused by resistance
- B. Opposition to the flow of alternating current caused by capacitance or inductance
- C. A property of ideal resistors in AC circuits
- D. A large spark produced at switch contacts when an inductor is de-energized

The correct answer is B. Capacitor and inductors resist the flow of AC differently than they do DC. This resistance (opposition) to the flow of AC is called reactance. Like resistance, reactance is measured in ohms (Ω). The reactance occurs because inductors and capacitors store energy in the form of an magnetic field or and electrical charge.

From the Extra Class question pool:

E6C08 In Figure E6-5, what is the schematic symbol for a NAND gate?

Figure E6-5



- A. 1
- B. 2

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C. 3

D. 4

The correct answer is B. Figure 1 is an AND gate. Figure 2 is a NAND (Not AND) gate. Note that it looks like a AND gate with a small circle on the end. Figure 3 is an OR gate. Figure 4 is a NOR (Not OR) gate. Figure 5 is an inverter; a logic 1 in results in a logic 0 out or vice versa. Figure 6 is an operational amplifier.

Curtis (KF6VFP)

EDITORS COMMENTS

✓YSARC's new web page is: ysarc.net - click on the upper right-hand icon on the homepage to join the club's Facebook page. Past issue's of the VHN are available on our new website.

✓Club prize volunteers are needed. YSARC has the funds for prizes to be given away at club meetings and our annual Christmas party. Prize events need not be held at every meeting but can be every other month or every quarter, it's up to you. Let the board know if you are interested. Marsha, KI6CSN, has the ticket rolls.

✓Send your ham related articles and pictures to share in your VHN. Pictures of ham shacks, antenna projects, antenna parties, etc. are appreciated KI6CSN@arrl.net or KF6FVP@arrl.net

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Yuba Sutter Amateur Radio Club Board of Directors Meeting Minutes Nov. 15, 2016

Red Cross building 2125 E Onstott Rd, Yuba City, CA 95991



Meeting called to order by Curtis Sylvester-Jose KF6VFP at 1902 hours.

Officers and Board Present:

Vice President Eleanor Knox KI6CSO, Secretary Linda Maas KK6SOZ, Treasurer June McJunkin N6JEY and Board Members Manna Whelchel KA6ETB, Joe Visalli N9BD, Kathy Burns N7WVW, Matthew den Hollander AC6MF and Honorary Board Member Dave Gartner WD6AXM.

Absent: Board Members Lester Allan KK6SYV, Board Member Emeritus Herb Puckett W6HBU.
President office vacant.

Members and Guests present

Curtis Sylvester-Jose KF6VFP, Bob McClard N6BOB, David Wainer WA1NER, Cindy Torlone KK6OIO

Treasurer's Report

Treasurer June McJunkin N6JEY presented the Financial Report for the month ending November 15, 2016. Dave WD6AXM will forward the invoice for the Repeater upgrade to June when he gets it, which should be sometime this month. Santa's fee will come out of Special Event. Special Event was originally set up for Ham Swap and Field Day. Motion to accept Financial Report, Joe N9BD/ Kathy N7WVW, passed.

Secretary's Report

- Oct 18, 2016 board meeting minutes were passed out by Kathy. Motion to accept minutes as written: Kathy N7WVW/Matthew AC6MF, passed.
- 12 membership renewals were received prior to meeting and 4 more at the meeting.
- Three new members were approved: Dan Ramsey W7DR, Daniel Perry K6PJY and Kevin Conde, who will be taking his ham test on Thursday, Joe N9BD/ Dave WD6AXM, passed.
- Membership application was revised for clarity and to add a line for optional repeater fund donation. It was made online-fillable by those more tech-savvy than me, and posted on our website.

Correspondence: We received an invitation from ARRL to attend the Pacific Division Leadership Meeting on December 3 in Livermore, CA. It was presented at the general meeting on Nov 1 and a copy given to President-Elect Chris McClain. Two may attend. It was suggested Steve Sweetman K6TAZ be invited.

Old Business

- Christmas Party – Cindy reported 50 tickets sold so far, Porky's will provide enough food for some at-the-door ticket sales, and that Walmart will be donating the entire \$42 sheet cake. Manna will be handling the Thank-You's for our donors, because she is so darn good at it.
- Net control stations: December is Joe N9BD, January is John KI6UDF, February is Manna KA6ETB, March is Chris KK6VZD, April is Bob N6BOB. This info is on website.
- Veterans Day Parade was a success. We had 12 volunteers and handled 183 parade entries.

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- List of 2017 club activities is on the website under Events. Need a volunteer to head-up each event.
 - Coffeepot for meetings – Bob does not have an extra to donate, issue tabled for now.
 - Tech class starting Jan 2 at the Red Cross building, Mondays and Wednesdays, 6:30-8:30pm through end of February, taught by Curtis KF6VFP and Joe N9BD. [Amended]
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New Business

- Motion to waive the December 20 Board Meeting because it's so close to Christmas, Dave WD6AXM/ Kathy N7WVW, passed.
- Motion to move the Board Meetings for 2017 back to the third Wednesday of the month at 7pm in one of the boardrooms at Caltrans building in Marysville, Kathy N7WVW/ Manna KA6ETB, passed.
- Joe N9BD was asked to add 3 things to our website: member contact info, Bylaws, and Articles of Incorporation. It was decided to post the current Bylaws. Curtis will email officers and board members the ~~Articles of Incorporation~~ Bylaws. Members' names, call signs and cities are currently posted. Email addresses and phone numbers are not posted for security reasons. If someone is in need of contact information, they may contact the Secretary.

Election of Board Members and Officers for 2017

- Motion to accept the following Officers and Board Members elected at the General Meeting on November 1, 2016. Kathy N7WVW/ Manna KA6ETB, passed.
 - President Chris McLain KK6VZD
 - Vice President Eleanor Knox KI6CSO
 - Secretary Linda Maas KK6SOZ
 - Treasurer June McJunkin N6JEY
 - Board Member Kathy Burns N7WVW
 - Board Member Matthew den Hollander AC6MF
 - Board Member Joe Visalli N9BD
 - Board Member Manna Whelchel KA6ETB
 - Board Member Mark Peters KA6FFM
- Motion to retain Treasurer June McJunkin and Secretary Linda Maas as the primary signers on the bank account and to add President Chris McLain and Board Member Joe Visalli as back-up signers on the bank account. Matthew AC6MF/ Manna KA6ETB, passed.

Upcoming Club Activities

- VE sessions: 1st Saturday of the odd months: January 7, March 4, May 6.
- Breakfast every Wednesday morning 8:30am at Dancing Tomato, everyone is welcome

Upcoming General Meetings

- Christmas Party – Tuesday, December 6th, 6pm-9pm at Pioneer Hall in the First United Methodist Church, 8th & D Streets in Marysville. \$14/person, \$8 kids, 5 and under free. Pulled pork, chicken, BBQ beans, coleslaw, salad, beverages, drawings, and Santa

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- Tuesday, January 3 at 7pm in the Sierra Nevada room @ Caltrans - Alfred Dunning KK6VOS will give a presentation on his trip to HAARP (High Frequency Active Auroral Research Program) in Alaska.
 - Tuesday, February 7 – need a presenter
 - Tuesday, March 7 - need a presenter

Upcoming Board Meetings

- Wednesday, January 4 at 7pm in a boardroom @ Caltrans
- Wednesday, February 15
- Wednesday, March 15
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Adjourned at 2000 hours, Joe N9BD/ Dave WD6AXM, passed.

Respectfully submitted by Linda Maas KK6SOZ, YSARC Secretary