

VALLEY HAM NEWS

March 2015

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

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March 2015

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CLUB OFFICERS

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LIAISONS

ARES: Steve Sweetman, K6TAZ
ARRL SM: Ron Murdock, W6KJ
VE Liaison: LeRoy Smith, KJ6DKM

UPCOMING EVENTS

01 Apr – 7:00 P.M. Club Meeting at
Yuba County Library 303 2nd Street,
Marysville
18 Apr – Bike Around the Buttes
21 Apr – 6:00 P.M., Board Meeting,

American Red Cross Building, Yuba City

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

02 May – 3F Century Bike Ride

05 May – 7:00 P.M. Club Meeting at
Yuba County Library 303 2nd Street,
Marysville

15-17 May Dayton Hamfest, Dayton
OH.

19 May – 6:00 P.M., Board Meeting,
American Red Cross Building, Yuba City

16 Jun – 6:00 P.M., Board Meeting,
American Red Cross Building, Yuba City

27-28 Jun – Field Day

11 Jul – 9:00 A.M., VE Test, 715
King Ave. Yuba City

05 Sep – 9:00 A.M., VE Test, 715
King Ave. Yuba City

16-18 Oct – Pacificon

Monday nights at 7:00 P.M. – weekly
net with swap shop and help sessions.

Monday nights at 8:00 P.M. – Butte

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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

VE TEST SESSION RESULTS

The VE Test session on March 7th was a big success. There were 15 exam elements given, 8 technician, 6 general and 1 extra. In the end, there were 6 new technician and 4 new general licences. In all 10 people took the exams.

Congratulations to the following

individuals:

Marsha Sylvester-Jose (KI6CSN) upgraded to general.

Josh Ollor (W6EVL) upgraded to general.

John Weimers (KK6SOY) a new technician licensee.

Carthel Boring (KK6SPB) a new general licensee.

Roselyn Watson (KK6SOV) a new technician licensee.

Joe Stafford (KK6SOX) a new technician licensee.

Daniel Perry (KK6SOU) a new technician licensee.

Linda Maas (KK6SOZ) a new general licensee.

James Salzman (KK6SPA) a new technician licensee.

Daniel Boster (KK6SOW) a new technician licensee.

Congratulations to all the new hams and those who upgraded their license.

APRIL DX EVENTS

IDXC 66th International DX Convention

April 17-19, 2015 in Visalia, CA.
Program information:

<http://www.dxconvention.com/pages/program.html>

Rookie Roundup is scheduled for Sunday, April 19, 2015. This is an opportunity for new operators to get on the air and learn the skills of contesting.

Elmers take note. Open your station up to a rookie. The more operators are

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on the air, the more enjoyable the Roundup will be.

Information for the Roundup can be found at:

<http://www.arrl.org/rookie-roundup>

NEXT CLUB MEETING

The next Club Meeting, April 1st, will be at the Yuba County Library Conference Room, 303 2nd Street, Marysville. Doors will open around 6:30 P.M. The meeting will start at 7:00 P.M.

Visitors are welcome to come and join us. Free bottled water, coffee and soda will be provided.

Dave Gipson will give a talk on Demystifying The Internet and Fiber Optics.

Our monthly drawing will be held. Grand prizes will be a G5RV antenna and a hand held radio

NOTES FROM THE PRESENTATION AT THE LAST GENERAL MEETING

Bob Wholers (KJ6JFW) from Discovery Off-Roading gave a presentation on emergency communications and survival. He talked about the three items that make up the survival pyramid, Satellite signalling, Personal Locator Beacons (PLB), Satellite Emergency Notification Device (SEND), and near vs. far signalling.

The survival pyramid consists of

three layers. The base is formed by "The Will To Live". The middle layer is "Skills and Knowledge" and the top layer is your "Kit." Without a willingness on your part to live, all the knowledge and skills in the world and the best survival kit will not help you. Having the best kit in the world will not help you without knowledge and skills to use it.

He then went on to talk about some items to have in your kit. Some of these items are things for near communications and some are for far communications. Near communications items are those to get rescuers that are nearby to you. They include but are not limited to flares, signalling mirrors, loud whistles, ham radios, aircraft signals and a SEND or PLB. Examples of far communications devices include ham radios, PLB, SEND, and cell phones.



PLBs transmit powerful (5 Watt) signals at 406 MHz (MegaHertz), an internationally recognized distress frequency monitored by a network of Russian, Canadian, American and French military satellites known as

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COSPAS-SARSAT (SARSAT is an acronym for "Search and Rescue Satellite Aided Tracking"). These satellites "fix" on your location using a Doppler Shift method and relay your information to the AFRCC (Air Force Rescue Coordination Center) in the US.

SEND devices are GPS-based Satellite messenger devices that rely on either of 2 commercial satellite networks—Iridium or Globalstar. Emergency calls using either network are routed to the privately run GEOS International Emergency Response Coordination Center headquartered near Houston, Texas. A subscription fee is required to use a satellite messenger.

Keep in mind that it's always a good idea to have a visual and/or audible distress signal such as a signal mirror, whistle or strobe light to help catch search and rescue's attention when they get close.¹

1. <http://www.rei.com/learn/expert-advice/personal-locator-beacons.html>

PRESIDENTS CORNER

Wow, already spring time and so much to do. Antennas to get tuned and put up, field day just around the corner, new hams to meet and get acquainted.

Did you hear about the last VE test session? What an impressive number of new Hams and a congrats to those who upgraded their licenses as well. Kudos to Curtis KF6VFP for conducting a great class!

Bike Around the Buttes is scheduled April 18th. If you wish to help out please contact Steve KJ6VCF. I am participating this year for the first time by riding along as a helper and learning how the event operates. I'll have my cooler of sandwiches, soft drinks and snacks. What can be wrong with that?

Field Day 2015.... coming in June, 27th and 28th to be exact. THIS should be the premier club event of the year and as such every new Ham should participate in it. The details for this year are being worked out and confirmed but be assured.... YOU want to be there. What can you do there? How about... Operate different bands where you usually don't, run modes such as PSK31, try a station with a portable beam, even delve into QRP, perhaps try to catch a Ham Radio satellite as it passes over the horizon. Where else can you do so much among great friends? Operate in the morning, afternoon, night, as much as you like. This is where we learn from experts and beginners alike.

We are looking at putting out the grills and smokers for a nice carry in dinner (potluck) on Saturday evening of Field Day. Plenty to eat for everyone with lots of smiles. Bring someone and introduce them to Ham Radio. That's what it is all about. Chris Price KD6CP has accepted the daunting task of putting everything together, making it happen. I'm certain he will welcome your suggestions, comments and especially your help. Come, get involved and have a ball.

Lastly, I sincerely ask if you have questions or issues with anything

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pertaining to the Yuba Sutter Amateur Radio Club, please contact me directly by email, KC9EI@ARRL.net, Dave@KC9EI.net, (530) 933-8897. Give me a chance to make it right for you.

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FCC NO LONGER ISSUING PAPER LICENSES

From the Golden Empire Amateur Radio Society (GEARS) newsletter.

The FCC has decided to cease issuing paper amateur licenses. The 'Official Record' of your license is the ULS listing on the FCC site. They say it is easy to download an 'Official Copy' of your license from their site. Not True! Anyone who tells you it is easy to download an 'Official Copy' of your License, probably has never done it or has just downloaded an 'UNOfficial Reference Copy' (and even that is not easily found) Here is the procedure to obtain the 'Official Copy' (I downloaded a copy of my license and documented what I had to do to success-fully complete the task. Click on this link

<https://wireless2.fcc.gov/ULsEntry/licManager/login.jsp>

Enter your FRN and password.

(If you have a license, you have an FRN. Look it up in the ULS license search – If you don't know your password (they assign you a password when you get an FRN, but don't tell you what it is) click on the forgot password and then select a security question. You

may need to wait for an email from the FCC with a link that allows resetting password and selecting a security question)

Click Submit.

Click on your Call Sign.

Click on Download Electronic Authorizations on the left hand menu.

Your License will appear in the 'Filter by Radio Service Box'.

Click to highlight it.

Click add.

Click to highlight your license.

Click the Download Button.

Your "official copy" License will download as a PDF.

Open the PDF file.

Print it.

Have Fun. Dave, NO6NO.

EMERGENCY TELECOMMUNICATIONS GUIDE

The International Amateur Radio Union [Emergency Telecommunications Guide](#) is now available for [download](#) from the IARU website:

<http://www.iaru.org/emergency-telecommunications-guide.html>

The guide was developed to provide the IARU member-societies with materials suitable for training radio amateurs to participate in emergencies. It also was designed to provide guidance to individual Amateur Radio operators with little or no experience in handling emergency communications

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but desire to enhance their ability to participate in such events or to simply have a better understanding of the process. The IARU Administrative Council meeting approved the *Guide* at its 2014 meeting.¹

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1. The ARRL Letter for March 19, 2015
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CLUB STORE

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

1. Marine grade white RG8X coax, 81 feet in 2 segments of 13 and 69 feet. Cost is \$0.41/foot.
2. RG8X Black coax, 320 foot reel. Cost is \$0.41/foot.
3. PL295 coax connectors, 67 each. Cost is \$1.99 each.
4. RG8X reducers, 50 each. Cost is \$0.69 each.
5. Power Pole connectors, 119 red/black pairs. Cost is \$1.00 per pair.
6. 12 gauge red/black wire for power connections, 25 feet. Cost is \$1.00/foot.
7. Coax wrap, 2 rolls. Cost is \$4.00 per roll.
8. LMR 400 coax, 40 feet. Cost is \$0.90/foot.
9. RG8X strain relief boots, 14 each. Cost is \$0.50 each.

If you are interested in purchasing any of these items contact the club store manager, Curtis (KF6VFP) at (530) 743-3003 or on the air.

3 F CENTURY BIKE RIDE

On May 2, 2015 the Colusa chapter of the Lions Club will again host the 3F Century Bike Ride. The ride starts at Egling Middle School 813 Webster Street, Colusa with the first riders leaving at 6:30 AM. The ride follows the levee road of the Sacramento River, past Sutter County farmland, around the Buttes, and back to Egling Middle School. There are three different courses riders can choose from; 100 mile (century), 100 Kilometer (century), and 38 mile rides. More information on the ride can be found at www.3fcentury.com.

For the third year the Colusa County Sheriff's Communication Reserve Unit is asking for volunteer amateur radio operators to assist in helping keep the ride safe and fun for the participants. Operators for 4 rest stops, 2 net control, 6 SAG units, and 1 Repair are needed. So far there are about 6 who have stepped up to provide support. If you would like to learn more or volunteer to assist please contact Bill (WA6OHP) at wa6ohp@yahoo.com or phone (530) 763-7175.

MATCH TRIVIA

Can you match the following definitions to the word.

1. A unit of used to measure the power level of an electrical signal

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- by comparing to a given level on a logarithmic scale (symbol dB).
2. An SI unit of measure in units of amperes per meter (A/m) (symbol H).
 3. An SI unit of measure in units of Tesla (symbol B).
 4. The non resistive component of impedance in an AC circuit (symbol X).
 5. The SI unit of electrical resistance (symbol Ω).
 6. The SI unit of magnetic flux density measured in webers per square meter (Wb/m^2) (symbol T).
 7. A measure of the resisting power of a specified material to the flow of an electrical current (symbol ρ (rho)).
 8. In electrical engineering _____ is the imaginary part of admittance. _____ is measured in siemens (symbol β (beta)).
 9. The SI unit of magnetic Flux (symbol Wb).
 10. The distance between two consecutive corresponding points of the same phase of a sinusoidal wave (symbol λ (lambda)).
 11. The unit of frequency in SI units (symbol Hz).
 12. The unit of electrical current named after André-Marie _____ (symbol A).
 13. A measure of electrical conduction equal to the reciprocal of impedance (symbol Y).
 14. The reciprocal of resistance (symbol G).
 15. The SI unit named after K.W. von _____ (symbol S).
 16. The degree to which a substance or device opposes the passage of current (symbol R).
 17. A flow of electrical current that results from the ordered directional movement of electrically charged particles (symbol I).
 18. The SI unit of power (symbol W).
 19. The degree to which a substance or device opposes the passage of AC current (symbol Z).
 20. The SI unit of electrical charge (symbol C).
 21. The ability of an electrical component to store an electric charge (symbol C).
 22. The property of an electric circuit or device whereby an electromotive force (EMF) is created by a change of current in it or in a nearby circuit (symbol L).
 23. It is analogous to resistance in the analysis of magnetic circuits. Its units are 1/henry (symbol \mathfrak{R}).
- | | |
|----------------------------|--------------------------|
| a. Admittance | b. Ampere |
| c. Capacitance | d. Conductance |
| e. Coulomb | f. Current |
| g. Decibels | h. Hertz |
| i. Impedance | j. Inductance |
| k. Magnetic Field Strength | l. Magnetic Flux Density |
| m. Ohm | o. Reactance |
| p. Reluctance | q. Resistance |
| r. Resistivity | s. Siemens |
| t. Susceptance | u. Tesla |
| v. Watt | w. Wavelength |

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x. Weber

Curtis (KF6VFP)

Call	Name	Position
WA6OHP	Bill	Rest 4
Available		Rest 5

BIKE AROUND THE BUTTES

Bike Around the Buttes is coming April 18th. The Bike Around the Buttes is a 17 mile, 40 mile and 100 mile bike ride to raise money for Children's Type 1 Diabetes. The club will be helping out by communications support again this year. Additional help is needed. Also, if you would like to ride along with a SAG that can be arranged.

To date Steve (KJ6VCF) has the following volunteers and assignments.

Call	Name	Position
KJ6VCF	Steve	Control 1
AG6IP	Mike	Control 2
KD6CP	Chris	SAG 1
KK6ISQ	Mike	SAG 1
KI6ZYY	Lonnie	SAG 2
N6BOB	Bob	SAG 3
KJ6IYM	Andy	SAG 4
KK6EJD	Jason	SAG 5
K6AVW	Shari	SAG 6
KC9EI	Dave	SAG 7
WA1NER	David	SAG 7
KN7ZYZ	Stan	SAG 8
KJ6DKM	LeRoy	SAG 9
W6KEN	Ken	SAG 10
KJ6TXZ	Kevin	SAG 11
K6TAZ	Steve	SAG 12
KF6VFP	Curtis	SAG 13
KK6GNL	Marilynn	Shadow with Jim
KI6CSN	Marsha	Shadow
KI6CSO	Eleanor	Rest 1
KK6JZL	John	Rest 2
KM6EBY	Mike	Rest 3

More volunteers and extras are desired. If you have never worked the BATB, volunteer, ride along with someone or help at a site – we'll be happy to show you the ropes.

TECHNICIAN, GENERAL AND EXTRA CLASS QUESTION POOL REVIEW

From the Technician Class question pool:

T9A02 Which of the following is true regarding vertical antennas?

- A. The magnetic field is perpendicular to the Earth
- B. The electric field is perpendicular to the Earth
- C. The phase is inverted
- D. The phase is reversed

The correct answer is B. Current flowing thru a conductor (the antenna) has two perpendicular fields – the electric field and the magnetic field. The electric field flows along the length of the antenna and the magnetic field is perpendicular to the length of the antenna. Since the antenna is oriented vertically the electric field is perpendicular to the earth.

From the General Class question pool:

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G9C11 What is the purpose of a gamma match used with Yagi antennas?

- A. To match the relatively low feed-point impedance to 50 ohms
- B. To match the relatively high feed point impedance to 50 ohms
- C. To increase the front-to-back ratio
- D. To increase the main lobe gain

The correct answer is A. Yagi antennas tend to have a feed point impedance that is usually lower than 50 ohms. Therefore, you need some sort of impedance match to connect your 50 ohm radio output to the antenna feed point. Hence, the use of a gamma match.

From the Extra Class question pool:

E9A03 Which of the following antennas has no gain in any direction?

- A. Quarter-wave vertical
- B. Yagi
- C. Half-wave dipole
- D. Isotropic antenna

The correct answer is D. An isotropic antenna is a theoretical antenna that radiates equally in all direction (think perfect sphere). Since an isotropic antenna radiates equally in all directions it can be said to have no gain.

An isotropic antenna is one of two antennas that is used for gain comparisons of all other antennas. The dipole antenna (the other antenna used

for gain comparisons) has a gain of 2.15 dB over a isotropic antenna.

Curtis (KF6VFP)

EDITORS MESSAGE

Well, March is almost over and we'll be through 1/3 of the year. It was a dry winter and looks to continue to be so for the spring and summer. The countryside is already getting dry here in the foothills. Fire hazard is going to be a big concern this summer. Do you have your go-kit ready? Do you have an emergency plan ready? Are you interested in helping with ARES when the fires break out?

If you have any items you would like to sell you can advertise it in the newsletter. Just send us the information and we'll put in the Trading Post.

The club officers and board members are looking for inputs from you the members on what you'd like the club to do. Do you want to see more demos – for example IRLP, or APRS? Would you like a guided project on a weekend such as tape measure antennas, roll up j-poles antenna, or putting together your own APRS setup? Would you like to have a potluck or barbeque? Contact any board member or officer and voice your ideas. After all, it is our club. Let us make in the best club around.

Until next month, 73.

Curtis (KF6VFP) and Marsha (KI6CSN)

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MATCH SOLUTION

1. d	2. k	3. l
4. o	5. m	6. u
7. r	8. t	9. x
10. w	11. h	12. b
13. a	14. d	15. s
16. q	17. f	18. v
19. i	20. e	21. c
22. j	23. p	