

# *The VALLEY HAM NEWS*

The Voice of the Yuba Sutter Amateur Radio Club  
A California Non-profit Organization

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

P.O. Box 1169  
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February 2015

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## **CLUB OFFICERS**

Pres.: Dave Gipson, KC9EI  
Vice Pres.: Ted Herman, KN6TED  
Secretary: Jo Anne Murdock, N6YLO  
Treasurer: June McJunkin, N6JEY

## **BOARD OF DIRECTORS**

Don Elder, KC6PPX  
Kathy Burns, N7WVW  
Chris Price, KD6CP  
Mike Sangria, AG6IP  
Bob McClard, N6BOB  
Herb Pucket, N6HBU

## **REPEATER TRUSTEE**

Dave Gartner, WD6AXM

## **LIAISONS**

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

## **UPCOMING EVENTS**

04 Mar – 7:00 P.M. Club Meeting at  
Marysville Library 303 2nd Street,

Marysville

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

01 Apr – 7:00 P.M. Club Meeting at  
Marysville Library 303 2nd Street,  
Marysville

18 Apr – Bike Around the Buttes

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

02 May – 3F Century Bike Ride

15-17 Dayton Hamfest, Dayton OH.

27-28 Jun – Field Day

04 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  
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

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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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## ***VE TEST SESSION***

The next VE Test session is March 7<sup>th</sup> 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.

At present at least one person will be taking a General exam and hopefully all of the students from the class will be taking the Technician exam.

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.

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## ***NEXT CLUB MEETING***

The next Club Meeting, March 4<sup>th</sup>, 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.

There will be a demonstration on DX communications, and a discussion about Bike Around The Buttes.

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## ***DXpedition TO WAKE ISLAND***

From the Sacramento Valley Section News:

AG6IP "Mike" of the Yuba-Sutter Amateur Radio Club is in the planning stages to activate Wake Island in September 2015 commemorating the 70th Anniversary of the End of Battle of

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Wake Island. K6W is the reserved one by one call sign for this special event. Currently, Wake Island is restricted to the public and he is coordinating travel plans to access Wake Island for two weeks and will be operating on 6-80 meters SSB and digital (including JT65). He will be possibly going along with a group of World War II veterans who will also be visiting the island for the same reason. He is also seeking donations and sponsors to assist in the expenses for this DXpedition. Wake Island is Clublog's #46 most wanted DXCC. Please contact Mike via email at kf6rcp@gmail.com if you have any questions or if you are interested in sponsoring him or donating. More updates to follow.....

Mike Sangria (AG6IP)

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## ***K1N NAVASSA DX EXPEDITION***

Bob (W6BO), Mike (AG6IP0), and Bob (N6BOB) all worked the K1N Navassa DX expedition. Mike worked them multiple times on different bands, whereas the Bobs made strictly 10 meter contacts. We were lucky to be among the 35,702 hams world wide to make the contact. K1N made over 138,409 contacts in two weeks of operation.

K1N went QRT (silent) at 1130Z Sunday, February 15th.

The last helicopter flight left the island at 1500Z with the last three team members who stayed to keep stations QRV (operational) until the last possible moment. There was an excellent

opening to Asia/Oceania almost all day and all night during the last 24 hours.

All team members are back safe, healthy and happy in Jamaica.

All logs have been uploaded to ClubLog with 138,409 contacts and an amazing 35,702 unique call signs! If you worked them check your statistics on ClubLog.

Navassa Island is off the coasts of Haiti and Jamaica. More information can be found at: <http://navassadx.com/>

Bob McClard (N6BOB)

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## ***HAM RADIOS ASSIST POLICE IN CATCHING INDOOR DRUG GROWING OPERATIONS***

From Interference Technology Newsletter: Ham Radio operators can assist police in catching indoor marijuana growers who are causing radio frequency interference. More information can be found at <http://www.interferencetechnology.com/ham-radios-assist-police-in-catching-indoor-drug-growing-operations/>.

Curtis (KF6VFP)

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## ***SIERRA FOOTHILLS HAMFEST***

The Sierra Foothills Amateur Radio Club will be holding a ARRL Hamfest on Saturday, March 14<sup>th</sup> at the Historic Loomis Train Depot Plaza (3640 Taylor Road Loomis, CA 95650). More information is available at the SFARC website: <http://www.w6ek.org>.

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The Talk-In frequency will be 145.430 -06 (PL 162.2) and 223.860 -1.6 (PL 162.2).

Contact Carl Schultz , WF6J 2905 58th Street Sacramento, CA 95817 Phone: 916-852-6802 or by Email: wf6j@arrl.net.

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## **PRESIDENTS CORNER**

We had our first meeting in the Yuba County Library and it went very nicely. There were discussions of upcoming club activities, VE sessions, Elmers, topics for presentations, and a whole host of other subjects.

As we move into the spring months let us put forth a renewed effort to make this club a fun organization of which to be a part. We need some help planning the approaching field day and swap meet. Members are needed in a multitude of ways and any assistance will be gratefully accepted.

Let's remember, everyone has a part, voice, and place in our club. Seize the opportunity to help make a difference in your own way.

We will be having a presentation on DX at the March meeting followed in April with a demonstration of remote Amateur Radio operation. We can use some volunteer presenters for future meeting as well. We are looking into a few meeting place options in order to put on a carry in (potluck) dinner, possibly in June or July. Stay tuned for details as they become sorted out.

I am happy to report our membership has reached around 100 members and is growing. Our club as I explained at

the "State of Our Club" meeting is sound indeed and getting better each month.

Let's do it together!

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## **JANUARY ANTENNA PARTY**

Hams gathered in January to help Larry (KE6LAW ) erect the first stage of his antenna tower.

When completed the tower mast will include a Comet CX-333 vertical Tri-Band (2m/440/220) and a Cushcraft A3S with a 40m add on. On the side of the tower will be a scanner antenna and a multidirectional TV antenna.

Check YSARC's home page to see pictures of the tower raising.

<http://www.ysarc.org/>

Marsha (KI6CSN)

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## **CLUB STORE**

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

1. Marine grade white RG8X coax, 91 feet in 3 segments of 13, 10 and 69 feet. Cost is \$0.41/foot.
2. RG8X Black coax, 350 foot reel. Cost is \$0.41/foot.
3. PL295 coax connectors, 69 each. Cost is \$1.99 each.
4. RG8X reducers, 52 each. Cost is \$0.69 each.
5. Power Pole connectors, 119 red/black pairs. Cost is \$1.00 per pair.

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6. 12 guage red/black wire for power connections, 25 feet. Cost is \$1.00/foot.

7. Coax wrap, 3 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.

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## **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](http://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 rest stops and SAG units are needed. If you would like to learn more or volunteer to assist please contact Bill (WA6OHP) at

wa6ohp@yahoo.com or phone (530) 763-7175.

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## **TRIVIA**

What one word goes with each of these words/phrases.

Signal \_\_\_\_\_, \_\_\_\_\_ Bus, Coffee \_\_\_\_\_s, Fair \_\_\_\_\_s, Shielded \_\_\_\_\_, Floating \_\_\_\_\_, Level \_\_\_\_\_, Play \_\_\_\_\_, \_\_\_\_\_ Beef, Under \_\_\_\_\_, \_\_\_\_\_ Hog, Holy \_\_\_\_\_, \_\_\_\_\_ Tremor, Disputed \_\_\_\_\_, Single Point \_\_\_\_\_, \_\_\_\_\_ Up, Emitter \_\_\_\_\_, Chassis \_\_\_\_\_, Case \_\_\_\_\_, \_\_\_\_\_ Loop, \_\_\_\_\_ Fault, Earth \_\_\_\_\_, and Frozen \_\_\_\_\_.

Answers after the editors message.

Curtis (KF6VFP)

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## **BIKE AROUND THE BUTTES**

Bike Around the Buttes is coming April 18<sup>th</sup>. 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.

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## **TECHNICIAN, GENERAL AND EXTRA CLASS QUESTION POOL REVIEW**

From the Technician Class question pool:

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T1D01 [97.111(a)(1)] With which countries are FCC-licensed amateur stations prohibited from exchanging communications?

A. Any country whose administration has notified the ITU that it objects to such communications.

B. Any country whose administration has notified the ARRL that it objects to such communications.

C. Any country engaged in hostilities with another country.

D. Any country in violation of the War Powers Act of 1934.

The correct answer is A. A list of countries that allow communications with others nations can be found at [http://wireless.fcc.gov/services/index.htm?job=about\\_2&id=amateur](http://wireless.fcc.gov/services/index.htm?job=about_2&id=amateur) which says Section 97.111 of the Commission's Rules, [47 C.F.R. §97.111](#), authorizes an amateur station licensed by the FCC to exchange messages with amateur stations located in other countries, except with those in any country whose administration has given notice that it objects to such radio communications. Currently, there are no banned countries.

From the General Class question pool:

G5C08 What is the equivalent capacitance of two 5000 picofarad capacitors and one 750 picofarad capacitor connected in parallel?

A. 576.9 picofarads

B. 1733 picofarads

C. 3583 picofarads

D. 10750 picofarads

The correct answer is D. The formula for calculating the equivalent value of capacitors wired in parallel is similar to that of calculating the values for resistors or inductors in series. That is: add the values. Therefore two 5000 picofarad capacitors and one 750 picofarad capacitor connected in parallel would be  $5000 \text{ picofarad} + 5000 \text{ picofarad} + 750 \text{ picofarad} = 10750 \text{ picofarad}$ .

From the Extra Class question pool:

E7A09 What logical operation is performed by a two-input exclusive NOR gate?

A. It produces a logic "0" at its output only if all inputs are logic "0".

B. It produces a logic "1" at its output only if all inputs are logic "1".

C. It produces a logic "0" at its output if any single input is a logic "1".

D. It produces a logic "1" at its output if any single input is a logic "1".

The correct answer is C. The truth table for an two input exclusive OR gate (XOR) is shown below. An exclusive or gate has an output of 1 if either input; but not both; is 1. The exclusive NOR gate (XNOR) would have the opposite outputs.

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X	Y	Output $A \oplus B$
0	0	0
1	0	1
0	1	1
1	1	0

XOR Truth Table

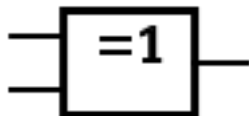
X	Y	Output $\neg(A \oplus B)$
0	0	1
1	0	0
0	1	0
1	1	1

NXOR Truth Table

The symbols for XOR gates are:



Traditional XOR Symbol



IEEE XOR Symbol

Curtis (KF6VFP)

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## **EDITORS MESSAGE**

Well this year is off to a good start. Lots of activities in the next few months with Bike Around the Buttes, the 3F Century Bike Ride, demos at club meetings, etc. If you have any ideas or

activities you would like to see the club do, please contact one of our club officers or board members. Even better, attend a board meeting and voice your ideas.

This is your newsletter. Are there any types of articles you would like to see, things you would like published? Ideas include but not limited to: contests, my ham shack, an article about some aspect of this hobby you enjoy, how-to articles, etc.

Until next month.

Curtis (KF6VFP) and Marsha (KI6CSN)

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## **TRIVIA ANSWERS**

Each of these phrases can be completed with the word GROUND.

Signal Ground, Ground Bus, Coffee Grounds, Fair Grounds, Shielded Ground, Floating Ground, Level Ground, Play Ground, Ground Beef, Under Ground, Ground Hog, Holy Ground, Ground Tremor, Disputed Ground, Single Point Ground, Ground Up, Emitter Ground, Chassis Ground, Case Ground, Ground Loop, Ground Fault, Earth Ground, and Frozen Ground.

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<http://www.dashtoons.com/>, K1NSS