The El Dorado County Circuit

Newsletter of the El Dorado County Amateur Radio Club July 2019, Vol.13, No. 7

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NEXT MEETING
July 25th, 7:30 PM
Federated Church, Placerville
1031 Thompson Way (in the rear)

The July speaker at our monthly Club meeting will be Alan, W6WN. Alan will be presenting on the potential role of the General Mobile Radio Service (GMRS) during times of emergencies. This will be an interesting

Submitting Material to the Circuit

Material may be submitted for publication by sending it directly to the editor. This can be done by US Mail, or via the Internet (preferred). The deadline for each issue is the ***Thursday***, one week before the monthly meeting.

by mail
Bob Hess, W1RH
5020 Glory View Drive
Placerville, CA
95667

by internet

FROM THE PRESIDENT

Hello El Dorado County Club Members! Nancy and I will miss you this Thursday at our monthly meeting, but you will be in good hands with Jordan in charge. Nancy and I will be camping up north at Crater Lake, in Oregon. We plan on trying to make a few mountain tops during our hikes, so we may try a SOTA activation. We may also be on 40m during the evenings.

This past weekend Nancy and I spent the weekend at the Nevada Amateur Radio Convention, NVCON. Jordan (WC6J), Phil (KK6YYD) and myself gave a presentation to help Hams get started and be successful in SOTA. The presentation went very well, and we all had a good time. The convention had an assortment of vendors selling all kinds of useful stuff. I was able to pick up a few connectors and adapters and a battery. Chameleon Antenna hosted an evening reception to show off a few of their new antennas. On Saturday morning the convention held a swap meet where I found some antenna mast sections I was looking for. The swap meet was just a little smaller than the Lincoln swap. Then we attended a presentation about RigExpert antenna analyzers. We took our trailer and stayed at the Boomtown KOA, which worked very well for us. Both Nancy and I had an enjoyable convention weekend overall.

Finally, band conditions continue to be poor, so we will still have to work hard for our contacts. WSJT-X released a new version with FT-4 mode for digital contesting. So, I'm looking to one of you to become an expert in the new mode so I can show the rest of us how it works.

Enjoy the rest of the month and the cooler than usual July weather we have had so far. Keep your fingers crossed that the pleasant weather will continue. Nancy and I will see you at the August meeting.
73,

Jay, KE6GLA

THE AG6AU REPEATERS

YOUR DONATION TO THE REPEATER FUND WILL KEEP US COMMUNICATING!!
IRLP Node 7195 and the AG6AU-R Echolink 668182 node are available for use on the 440 and 2 meter repeaters. Autopatch available on the 6M repeater

BAND	FREQUENCY	PL
6 Meters	52.78 MHz	107.2 Hz
2 Meters (wide area)	147.825 MHz	82.5 Hz
2 Meters (EDH Local)	147.975 MHz	82.5 Hz
1.25 Meters	224.06 MHz	127.3 Hz
70 Centimeters	441.725 MHz	82.5 Hz
33 Centimeters	927.2375 MHz	127.3 Hz
33 Centimeters	927.2750 MHz	127.3 Hz

For Sale, Used Ameritron AL-811H Amplifier.
This wonderful amp helped me earn my DXCC and will give great contacts for you!
Price: $840
Power: 800 Watts
Bands: 10/12/15/17/20/30/40/80/160
ARB-704 Amplifier Interface Buffer included.
Works with standard 120V plug (220V NOT Necessary)
Selling because I moved to a CC&R neighborhood.

Contact Michal Warzecha WA6RZ, wa6rz@yahoo.com

Jay KE6GLA, Phil KK6YYD, and Jordan WC6J at their Summits on the Air talk. The venue was the Nevada State Amateur Radio ARRL Convention, in Boomtown, Nevada.

AUGUST
OPEN MIC NIGHT

Tell us about your interests!

IF YOU FIND IT INTERESTING SO WILL THE CLUB.
BRING SOMETHING TO DEMO OR PHOTOS ON A USB DRIVE.
A PROJECTOR WILL BE AVAILABLE.

1 – 10 Minute Presentation on Anything!

Don't Be Shy – Share Your Interests:

~Hobbies/Crafts

~Restoration Projects

~Photos of your Station, antennas, builds, etc.

EDCARC
Federated Church
Placerville
edcarc.net

HAM ESTATE SALE

Contact Debbie Datilio
Doodles.01@hotmail.com
530-333-1692

Knight Vacuum Tube Voltmeter KG-620 Material $60.00
Power type and voltage Alternating Current supply (AC) / 110 Volt
VTVM Vacuum Tube Voltmeter Kit. Push-pull balanced bridge with 12AU7 twin triode. AC and DC ranges: 1.5,5,15,50,150,500 and 1500V. Input Resistance: 11 Megohms. Ohmmeter Ranges: x1,x10,x100,x1000,x10K,x100K and x1Megohm

REPEATER TIDBITS
Bob, W1RH

Here's a few codes you might want to jot down:

2#111—Punch in this code on 2 meters and the repeater will respond, "RADIO CHECK READY" Key your microphone, say a few words, release the mic, and hear your signal as it is recorded at the repeater.

4#111—Punch in this code on the 440 repeater and the repeater will respond, "RADIO CHECK READY" Key your microphone, say a few words, release the mic, and hear your signal as it is recorded at the repeater.

6#111—Punch in this code on 6 meters and the repeater will respond, "RADIO CHECK READY" Key your microphone, say a few words, release the mic, and hear your signal as it is recorded at the repeater.

2#112—Will play back the date and time on 2 meters.

4#112—Will play back the date and time on 440.

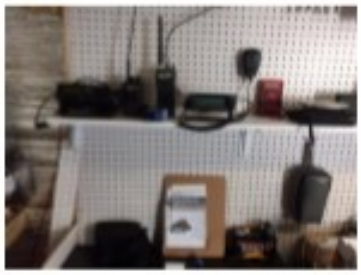
6#112—Will play back the date and time on 6 meters.

61291—Enter this code on 6 meters to link 6 meters to 2/440

61292—Enter this code on 6 meters to un-link 6 meters from 2/440

3rd Annual Install-O-Rama

7:00 p.m.



Saturday August 10

Sacramento County Sheriff's Department Florin Station

Parking lot

7000 65th Street

Florin

Come, show off your home, mobile, SOTA, QRP, other installation

Easels and Display boards for photos will be available

Contact:

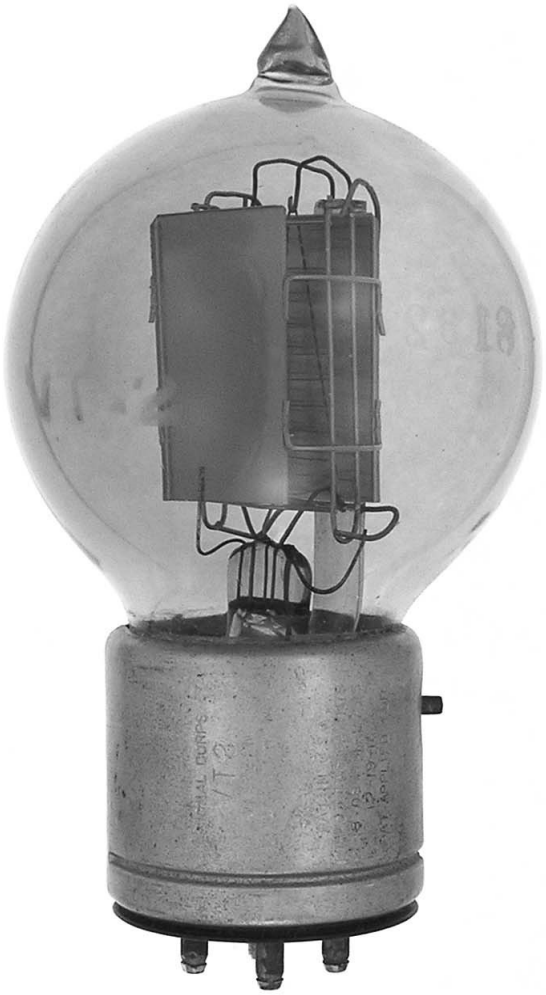
vicepresident@w6egf.org

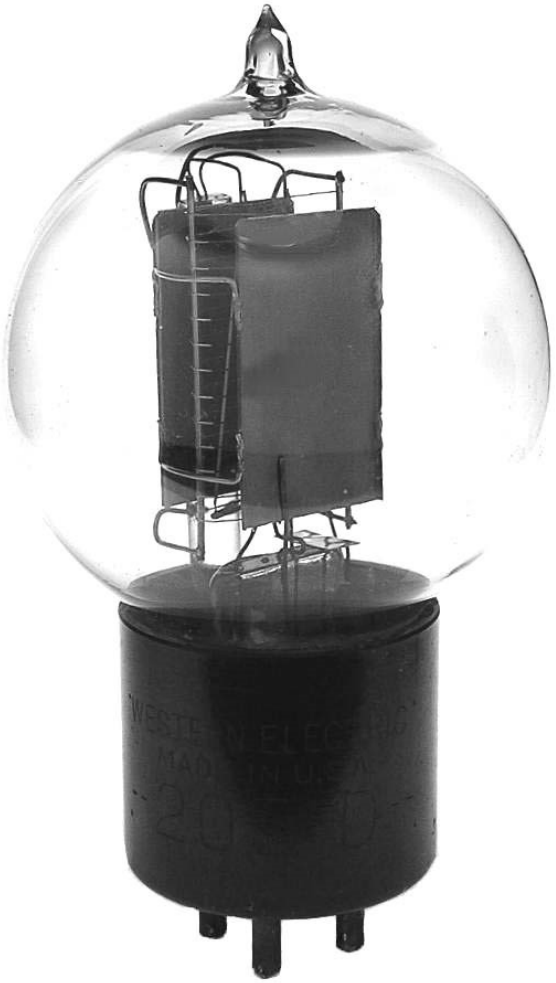
TUBE OF THE MONTH

Norm, N6JV
Visit the Museum: n6jv.com

WE 205D & E

During WWI, Western Electric was contracted to produce tubes for the military. Since 1914, they had been making a small tube for use as a telephone repeater. They needed a small transmitting tube, so they used the same general design and designated it the VT-2 or CW-931 (Navy). The VT-1 was a smaller triode for use as a detector. After the war, the VT-2 was given the commercial number 205A. This tube went through stages of improvement until it became the 205D and finally E. The "E" tube had special pins to reduce contact noise. The engraved metal shell base was only used for the VT -2. The early tubes had gold plated pins. The 205D had a dissipation of 14 watts and with its mu of 7, was also an excellent audio tube. The tube had a rod or glass arbor that supported the components of the tube. That gave the tube stability and helped prevent microphonics.





When "talking movies" became popular, Western Electric produced audio amplifiers that used the 205{*} tubes for use in the theaters. Today these tubes and the amplifiers are in demand by audio collectors/users and even components for the amplifiers are very expensive. In 1924 the 205D cost $7.50. I have seen recent asking prices of $1,000 for a good tube and $600 for a working tube with a broken arbor.

QSL CARDS—PAST AND PRESENT

Part of the fun of amateur radio is collecting cards, called QSL cards, from other amateurs that you've talked to on the radio. Some people like to collect stamps from various parts of the world but hams collect QSLs.

History

The term QSL comes from the radio "Q" code meaning "I confirm reception."

During the early days of radio broadcasting, the ability for a radio set to receive distant signals was a source of pride for many consumers and hobbyists. Listeners would mail "reception reports" to radio broadcasting stations in hopes of getting a written letter to officially verify they had heard a distant station. As the volume of reception reports increased, stations took to sending post cards containing a brief form that acknowledged reception. Collecting these cards became popular with radio listeners in the 1920s and 1930s, and reception reports were often used by early broadcasters to gauge the effectiveness of their transmissions,

The concept of sending a post card to verify reception of a station (and later two-way contact between them) may have been independently invented several times. The earliest reference seems to be a card sent in 1916 from 8VX in Buffalo, New York to 3TQ in Philadelphia, Pennsylvania (in those days ITU prefixes were not used). The standardized card with callsign, frequency, date, etc. may have been developed in 1919 by C.D. Hoffman, 8UX, in Akron, Ohio. In Europe, W.E.F. "Bill" Corsham, 2UV, first used a QSL when operating from Harlesden, England in 1922.

Today

Today ham radio operators send QSL cards for a variety of reasons. It is interesting to collect them. Having made contact with a particular ham radio station it is often nice to have a card from them to remember the contact. It may be a particularly interesting contact, or one with a rare country where few ham radio operators are active. It may even be with a famous personality as there are a number of famous people around the globe who hold amateur radio licenses. In addition to this, the cards can displayed in the radio shack. Being colorful and interesting they can brighten up any ham radio shack.

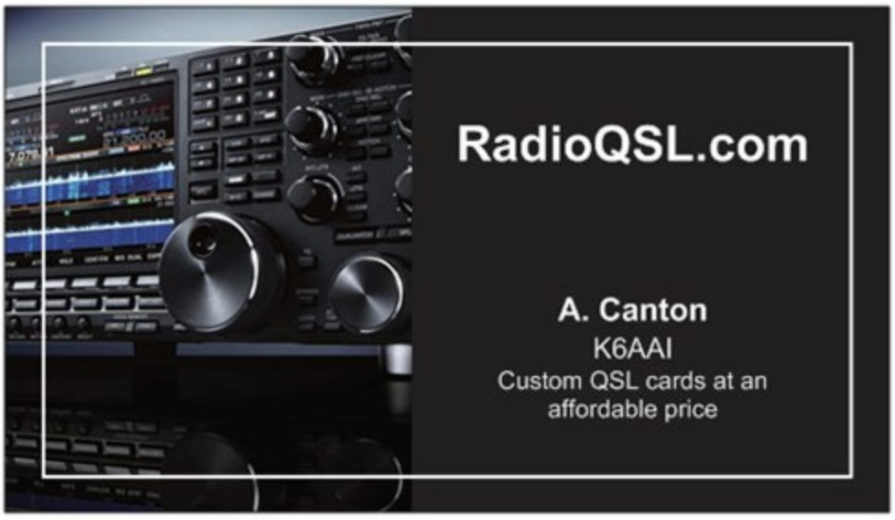
Collecting QSL cards can be an interesting addition to the hobby of amateur radio. Cards from distant corners of the earth can be attractive and interesting. Not only do they brighten up the shack, but they can act as an encouragement to hear or contact some more interesting stations as well as being used to apply for operating awards.

- RadioQSL.com: Custom QSL cards at an affordable price.

Contact:

RadioQSL.com
https://RadioQSL.com
Al Canton, K6AAI
info@radioqsl.com
916-962-9296

Word count: 417



HAM ESTATE SALE

Contact Debbie Datilio
Doodles.01@hotmail.com
530-333-1692

GE Weatherband 40 3-5985A Citizen Band Handheld $44.00
40 Channel Citizen Band Handheld Radio w/Weather comes with power adapter
Dimensions (WHD) 80 x 200 x 50 mm / 3.1 x 7.9 x 2 inch
Semiconductors Main principle Transceiver Wave bands
Power type and voltage Dry Batteries / AA : 8 x 1.5 Volt
Loudspeaker Permanent Magnet Dynamic (PDyn) Loudspeaker (moving coil)

TEKTRONIX 465 Oscilloscope 100MHz 2Ch $225.00
100 MHz @ Two Channels TAS 465 100 MHz @ Four Channels TAS 475 200 MHz @ Four Channels TAS 485 Dual (Delayed) Time Base Measurement Cursors CRT Readout Auto Setup Store/Recall of Setups Video Trigger Trigger/Ground Reference Indicator Combination Menu/Direct Access Controls

HAM ESTATE SALE

Contact Debbie Datilio
Doodles.01@hotmail.com
530-333-1692

Fluke 97 50 Hz Scope Meter $260.00
97 Fluke ScopeMeter Used
The 97 is a 50 MHz, 2 channel ScopeMeter from Fluke. A ScopeMeter is a portable oscilloscope. Take ScopeMeter places where you can't take conventional oscilloscopes to test equipment. The Fluke ScopeMeter, from Fluke Corporation, is a combination oscilloscope and DMM – a reliable digital tool field service professionals use to measure complex waveforms and electrical signals. Test a wide range

HAM ESTATE SALE

Contact Debbie Datilio
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Eico Model 324 $30.00
he 324 can generate signals from 150 KHz (kilocycles) all the way up to 435 MHz (megacycles). Most radio alignments use frequencies well in the lower part of that frequency range. For example, many AM radios have their IF stages aligned to 455 or 456 KHz.

GALAXY DX 11B AM/FM/USB/LSB/CW HOME BASE CB/10 METER AMATEUR RADIO $100.00

HAM ESTATE SALE

Contact Debbie Datilio
Doodles.01@hotmail.com
530-333-1692

Sencore MU150 $200.00
The MU150 (an updated version of the MU140), really does the extra mile to find trouble making tubes. It's why tube amp guys pay so much for it's far less capable sibling, the"MityMite" --- for the GRID LEAKAGE test. When in this mode, the MU150 uses it's sensitive bridge to find noisy and "GASSY" tubes. The large tube bridge-meter is like a microscope compared to even the most expensive Laboratory machines! The MU150 was designed to quickly determine if your power tube WILL WORK, HOW STRONG IT IS, and finally to MATCH it up gain wise with others. Laboratory testers like the big Hickoks, Triplett, Weston and AVO -- and the newer AT1000 actually either cannot find GAS as well as this machine. Or in the case of the latest technology AT1000 -- which checks for GAS, but can visually show it to you as well as the physical meter.

HAM ESTATE SALE

Contact Debbie Datilio
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530-333-1692

Ya esu FRG-7 $175.00
The Yaesu FRG-7 is an all mode receiver covering 200 kHz to 29.90 MHz in four bands. Modes of reception include AM, USB and LSB/CW. The display is linear analog providing up to ±5 kHz dial accuracy. Features include: RF Attenuator, Preselector, Fine Tuning [later production], Tone Control and ANL. There is a carry handle on the right side. The rear panel has high and low impedance antenna inputs. The FRG-7 operates from 120 VAC, 13 VDC or 8 D cells that plug in the battery pack that is accessible via the rear panel.

Hobbyist Bench Power Supply - 10.0 Amp (Constant), 12.0 Amp (Surge) - 12V DC Linear / Regulated Power Supply Design Provides Constant Source of DC Voltage - Simple Electronic Plug-in Operation, Hassle-Free Screw Terminal Connectors AC-to-DC Power Conversion Safe for Work Station & Tabletop Placement - Built-in Cooling Fan - Power ON / OFF Switch Eliminates the Need of Battery or External Power Source - Built-in Electronic Overload, Short Circuit & Overload Protection.

HAM ESTATE SALE

Contact Debbie Datilio
Doodles.01@hotmail.com
530-333-1692

Heathkit Audio Generator IG-72 AG-9 / AG-9A / IG-72 $60.00
Frequency: 10 cps to 100 kc.
Switch selected - 5% accuracy
2 significant figures & multiplier
Output Ranges: 0 - 10V, 0 - 3V into Hi-Z (10K min.)
0 - 1V, 0 - 0.3V, 0 - 0.1V, 0 - 0.03V,
0 - 0.01V and 0 - 0.003V into 600Ω
Load: Internal 600Ω: 0 - 1V and below. (Switch selected)
Meter: 4-1/2" 200 uA. Three scales:
0 - 10V, 0 - 3V, -12dBm - +2dBm
Distortion: Less than 0.1% 20-20,000 cps
Tubes: 1 - 6AU6, Oscillator
1 - 6CL6, Cathode Follower
1 - 6X4, Rectifier
Power: 105-125 VAC, 50-60 cps, 40 watts.
Dimensions: 9-1/2" W x 6-1/2" H x 5" D
Weight: 8 lbs. (shipping weight)

Wavetek 180 LF Generator Model 180 LF $80.00
Measurement instrument Sweep/Function Audio Generator
The Wavetek Model 180LF Sweep/Function Generator is a precision source of sine, triangle and square waveforms. Frequency of the waveforms is manually and remotely variable from 0.01 Hz to 200 kHz.

DUES

The dues are: Member: $15.00 / Spouse/Assoc. Member: $7.50. There are three ways you can pay your dues and make a repeater donation.

1. Through PayPal. Go here: http://www.edcarc.net/html/membership.shtml and scroll down to the PayPal button. There is a slight handling charge.
2. By mail, send a separate check for the dues and repeater donation. Club dues check to be made out to "EDCARC" and repeater donation check to "AG6AU Repeater Fund". You can mail the checks to:

EDCARC
P.O. Box 451
Placerville, CA, 95667

3. In person, bring your checks (see #2) to the next EDCARC meeting. If you have any updates to your personal information, e.g. address (residence or email), phone #'s, etc. then fill out an application form here: http://www.edcarc.net/files/El_Dorado_County_ARC_Membership_App.pdf and either mail it to the address in #2 or bring it to the meeting.

Thanks to everyone for supporting your club!
73, Nancy, KG6PNP, Treasurer

THE EDCARC TUESDAY NIGHT NET

HAVE YOU SAID HI TO NANCY LATELY?

WILL YOU BE CHECK-IN #20?

8:00 PM EVERY TUESDAY

52.78 (107.2)

147.825 (82.5)

147.975 (82.5) (currently off-line)

441.725 (82.5)

927.27 (127.3)

Or
Echolink

HAM RADIO LICENSING TESTING

September 14th, 2019
9:00 AM

THE AMERICAN LEGION POST 119

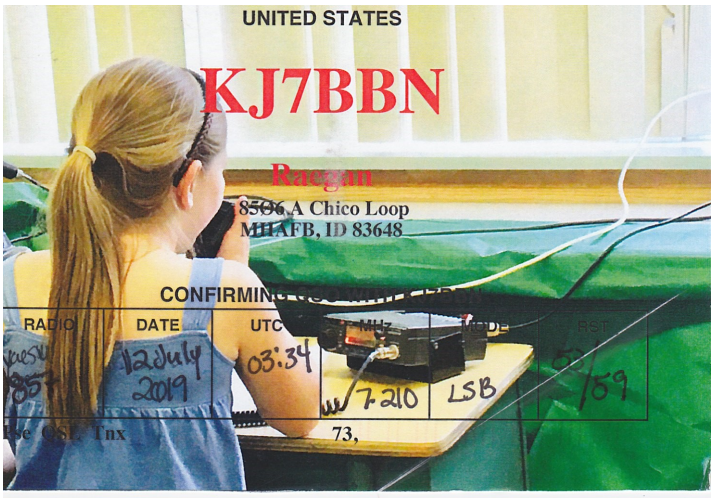
4561 GREENSTONE Rd.
PLACERVILLE, CA 95667

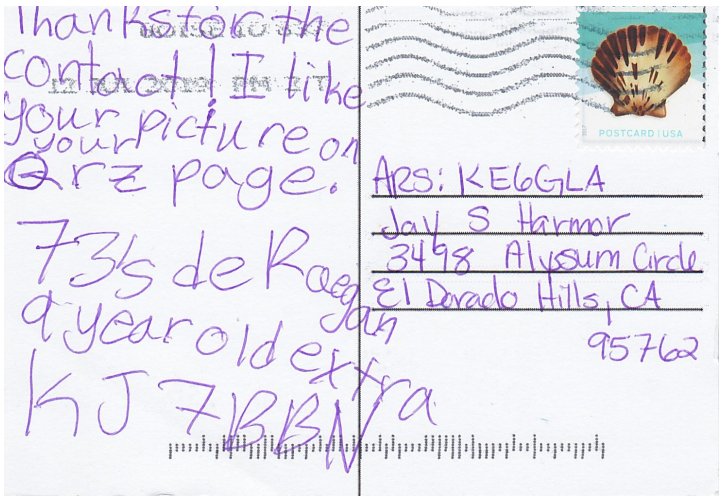
FEES ARE $14.00
(Subject to change)

CONTACT:
KEN VOGELE, W6KWV
530-642-9523

9 YEAR OLD YL!
Jay, KE6GLA

I got the QSL card from the YL who is 9 years old and an Extra who lives in Idaho. She is a good operator I was working with my SOTA gear in the front yard and did not have a very loud signal but we still managed an exchange.





Club Information 2019

President	Jay Harmor	KE6GLA		jharmor@comcast.net
Vice President	Jordan Heichman	WC6J		radon@jordan-h.com
Treasurer	Nancy Harmor	KG6PNP		nanharmor@comcast.net
Secretary	Aaron Tassin	W6CK		
Board Member	Dave Sanders	K6TQ		
Board Member	Don McCallum	AF6ND		
Board Member	Michael Picco	K6MLE		
Board Member	Phil Mosbacher	KK6YYD		
Board Member	Don Brooks	KG6YST		
Repeater Trustee	Bob Hess	W1RH	530-350-3843	w1rh@arrl.net
Newsletter Editor	Bob Hess	W1RH	530-350-3843	w1rh@arrl.net
Webmaster	Jay Harmor	KE6GLA		jharmor@comcast.net

- Meeting: Club meetings are normally held on the 4th Thursday of each month (except for June and November), 7:15 PM, at the Federated Church, 1031 Thompson Way, Placerville
- Club Nets: Tuesday evenings, 8:00 PM, on the AG6AU repeater, 147.825 MHz / 441.725 MHz / 52.78 MHz / 927.275
- Mailing Address:El Dorado County ARC, P.O. Box 451, Placerville, CA 95667