



SIERA BEACON



Carson Valley, NV

January 2020

"HAM radio is not a hobby. It's a way of life." - Carlos Beltran, XE1MW



We have a new Board and here they are: From top left: Jim Sanders AG6IF President, David DeAngelis K1SCN Secretary, Ben Echevarria N7BBE Vice President, Don McRoberts W3DRM director, Debbie Williams N7XYL Treasurer/Membership, Bob Williams director. From left kneeling: Jim Marshall K6LR, Mel Hogan WA6EYD director, and David Granish KI6EWK director. They begin their terms of office in January 2020. Thank you, Jim Marshall K6LR, Mike Whitten KI7NIP) and Ed Terlau KG7XOP for making the election go so smoothly.

Next Meeting: Our Post-Holiday Party will take place of the January 4th General Meeting. Starting at noon at the United Methodist Church on Centerville Rd., Gardnerville, it will be a potluck. So, bring your favorite dish to share. There will also be a table with items to sell. So, bring your radio (or other) goodies to sell. Put your name or call sign on these so we know where the cash goes.

December Meeting Presentation: Fun with Call Signs

Dave De Angelis, K1SCN, gave a 20-minute slide presentation entitled: ***"A Vanity and DX Call Sign Primer: a light-hearted commentary on call signs heard/decoded."*** Those not able to attend might want to look up the words "apophenia" and "pareidolia." (Google: **Pareidolia** is a psychological phenomenon that causes people to see patterns in a random stimulus. This often leads to people assigning human characteristics to objects.) He used fascinating photos, such as the one at the right, to show the human tendency to see patterns where none exist, thus the basis for the humor he shared.



Dave noted that the display of information for WSJT-Communication protocols changes every 13 seconds, so the data must be quickly viewed if the operator wants to make note of anything. Also, the font used (Consolas) for the display does impact how the call signs are seen. Some of the call signs he showed us on the screen were:

N4ZI W4LK WE4SEL KR4YON KM4RT K1LØ WA1T KL1CK KØNGO RØCKWA5HED PY2PAL

Since Dave is a master DXer, many of the call signs derive from many areas of the world, including Isle of Man, Taiwan, Asiatic Russia, Sweden, Japan, Panama, Spain, and Mariana Islands. They not only illustrate the fun that one can have traveling the world through a microphone, but also that HAMS from a variety of cultures have a quirky sense of humor.



And it's Dues Time Again

By the time you receive this Beacon, it will be too late to take advantage of the old dues. Now, our dues are:

| Individual | Household |
|-----------------|-----------------|
| 1 year \$30.00 | 1 year \$38.00 |
| 2 years \$48.00 | 2 years \$62.00 |
| 3 years \$65.00 | 3 years \$84.00 |

Send your checks and any changes to your call, address, email, phone, etc. to SIERA, P.O. Box 2348, Minden, NV 89423 or pay Debbie directly at the holiday party on January 4th. While it's good to write any changes to your contact information when you sign in to the meetings, it's more effective if you give new information to Debbie ASAP so she can update the lists for the website and Beacon. Email her at: n7xyl@arrl.net.

C4FM Yaesu System Fusion Training

The Nevada Division of Emergency Management Churchill Amateur Radio Society and the State of Nevada Emergency Communications Center is offering a C4FM Yaesu System Fusion Training which will cover entry level overview of the product line, local systems/network available through CARS, basic Fusion technology, advanced radio features, Wires-X, Personal Digital node, and hotspot setup/usage. This seminar will not cover APRS, DMR, D-Star, P25 related.

WHEN: January 18, 2020, 9:00 AM -11:00 AM (3 hours)

**WHERE: Nevada Division of Emergency Management,
2478 Fairview Drive
Carson City, NV 89701**

ID required at time of check-in. Anyone wishing to attend will need to sign up on via the Nevada Division of Emergency Management training website at:

<https://docs.google.com/forms/d/1OJC-3PzJ-JWpYGq93DrBdN5j8QZanI9qAGVy6JnZgGw/edit>

Applicants experiencing difficulties registering online should call NDEM Training: Darlene Loff, Support Specialist at dloff@dps.state.nv.us or (775) 687-0374 or Nevada Division of Emergency Management Point: Robert Plant at (775) 687-0331 or by email at rplant@dps.state.nv.us.

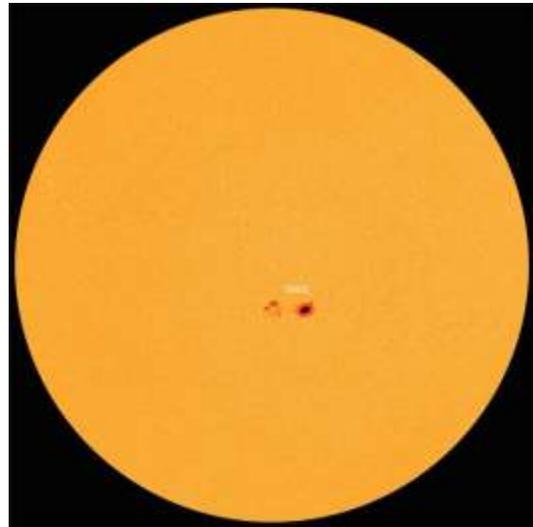
After the seminar, we will go to the Round Table Pizza on College Parkway for a dutch-treat lunch social gathering. Anyone is welcomed to attend this training.

For more information on Churchill Amateur Radio Society, please visit www.NVCARS.org.

Solar Update

Submitted by David DeAngelis K1SCN

Just in case anyone missed the news, three events concerning the solar cycle have occurred in the past month. On December 9, a panel chaired by NOAA/NASA issued a forecast for Solar Cycle 25. The consensus of the participants points to a peak in July 2025 (+/- 8 months), with a smoothed sunspot number (SSN) of 115. The panel agreed that Cycle 25 will be average in intensity and similar to Cycle 24. (Well, that's better than nothing.) Additionally, the panel concurred that solar minimum between Cycles 24 and 25 will occur in April 2020 (+/- 6 months). If the solar minimum prediction is correct, this would make Solar Cycle 24 the 7th longest on record (11.4 years). On December 16, the sun set a Space Age record for spotlessness. As of December 28, the total number of days without sunspots stood at 278 days. However, on December 24 and 25, two new sunspots appeared on the earth-facing side of the sun. These spots carry a magnetic signature opposite in polarity from Cycle 24 sunspots. According to Hale's Law, sunspots switch polarities from one solar cycle to the next. It looks like Solar Cycle 25 is on the way!



This is an archival photo, not a recent shot.

Back in the days of the last solar minimum (268 days in 2008), I started a list to remind me of what HF conditions were like WITH sunspots. During the current spotless run, I revisited the list and made some tweaks:

It is a good day for HAM Radio when:

I can work a station over 8,000 miles away.

I can hear stations more than 8,000 miles away.

I can hear stations in Europe and Asia at the same time on the same band.

I can work a European station and an Asian station within 30 minutes of each other on the same band.

A DX station calls **ME**.

I can make a new country contact on the first call.

I can make a new country contact in as many calls as it takes.
I can make a successful contact with a station in a new grid.
Better when a station in a new grid calls me.
I get a +db report from a station more than 1,000 miles away.
I can make a contact with someone on the East Coast that I knew personally.

Despite the presently horrid HF conditions, I can happily report that except for the last item on the list, I have been able to have a “good day” several times a week for the past three months. I can't imagine what it will be like when we actually have an active sun!

News from the Internet

Over-the-Horizon Radars Causing Widespread Interference on 40 Meters

12/19/2019

Over-the-horizon (OTH) radars continue to plague various amateur radio bands. Those operating on exclusive ham radio allocations have been complaining for years, but military systems have a blanket waiver to use amateur radio frequencies. The latest edition of the International Amateur Radio Union Monitoring System (**IARUMS**) **newsletter** reports that radar in northern Iran — likely military — has been operating 40 meters (6978 – 7022 kHz). Several Russian and Chinese OTH radars have become mainstays in the ham bands. While these sorts of signals are operating on exclusive amateur radio allocations, the International Telecommunication Union (ITU) **Convention** essentially gives military stations free reign in the spectrum. Article 48 says, “Member States retain their entire freedom with regard to military radio installations.” Member states are countries that have agreed to follow the Convention, and that is not a given.

For the complete article:

http://www.arrl.org/news/over-the-horizon-radars-causing-widespread-interference-on-40-meters?fbclid=IwAR2pu_T_uwcQQkS-6J9uiTld6LNJhNLrTGyRQNYDy9HQU7ywOTfXFHqIvis

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Author: American Radio Relay League | Ham Radio Association and Resources

Subject: FCC Amending Amateur Radio RF Exposure Safety Rules

The FCC is amending its Part 97 Amateur Service rules relating to RF exposure safety. In a **lengthy document** in ET Docket 19-226 released on December 4 that addresses a broad range of RF safety issues, the FCC said current amateur radio RF exposure safety limits will remain unchanged, but that the amateur-specific exemption from having to conduct an RF exposure evaluation will be replaced by the FCC's general exemption criteria. Radio amateurs have always had to comply with RF exposure limits, but certain stations have been exempt from having to conduct evaluations based only upon power and frequency. The Commission indicated that by and large, if an RF source was “categorically excluded” from routine evaluation under the old rules, it will most likely still be exempt under the new rules, which are expected to take effect in the next couple of months.

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FCC seeks to clear radio amateurs out of 3.4 GHz

An FCC Notice of Proposed Rulemaking (NPRM) proposes to remove the existing non-federal allocations in the 3.3-3.55 GHz band

The FCC say: By taking the initial step needed to clear the band of allocations for non-federal incumbents, the Commission furthers its continued efforts to make more mid-band spectrum potentially available to support next generation wireless networks—consistent with the mandate of the MOBILE NOW Act.

What the NPRM Would Do:

- Propose to clear the 3.3-3.55 GHz band of existing non-federal users by removing the non-

federal secondary radiolocation and amateur allocations in the 3.3-3.55 GHz band;

- Propose to relocate incumbent non-federal users out of the band;
- Seek comment on relocation options and transition mechanisms for incumbent non-federal users, either to the 3.1-3.3 GHz band or to other frequencies;
- Seek comment on how to ensure that non-federal secondary operations in the 3.1-3.3 GHz band will continue to protect federal radar systems; and
- Prepare the band for possible future shared use between commercial wireless services and federal incumbents, potentially making as much as 250 megahertz of spectrum available for flexible use, including 5G.

Regarding the Amateur and Amateur-Satellite Service allocation they say:

12. With respect to amateur operations, is there sufficient existing amateur spectrum in other bands that can support the operations currently conducted in the 3.3-3.5 GHz band? We note that the 3.40-3.41 GHz segment is designated for communications to and from amateur satellites. We seek comment on: the extent to which the band is used for this purpose, whether existing satellites can operate on other amateur satellite bands, and on an appropriate timeframe for terminating these operations in this band.

Facilitating Shared Use in the 3.1-3.55 GHz Band

Notice of Proposed Rulemaking - WT Docket No. 19-348

<https://docs.fcc.gov/public/attachments/DOC-360941A1.pdf>

Wireless Telecommunications Bureau Establishes WT Docket NO. 19-348

<https://docs.fcc.gov/public/attachments/DA-19-1202A1.pdf>

Remembering Gil Gildersleeve, W1CJD, QSL HAM Cartoonist



Here's a good biographical article about HAM cartoonist for QST, Phil Gildersleeve, W1CJD.

<http://hamtoons.net/legendary-ham-cartoonist-gil/>

A book of his work from QST on Amazon:

<https://www.amazon.com/Gil-Collection-Classic-Cartoons-QST/dp/0872590364>

It's only about three bucks.

And just googling his name will bring up some of his wonderful cartoons.

National Pony Express Gives HAM Radio Operators Kudos for Re-Ride Support

Our friend, Robert Nelson WA3PAD and others wrote this article about HAMS helping out the Pony Express. Local hams are included in the article. (Editor's Note: the Cauhape's were only working Overland Pass West for four years. Will and Phyllis Lewis were the ones working the Pass for fifteen years in little more than a pickup with camper shell.)

<https://utah.instructure.com/.../558.../files/96115466/download...>

Silent Key: Ronald Melvin Bardarson WT7AA

April 20, 1955 ~ November 4, 2019

Ronald "Ron" Melvin Bardarson died on November 4, 2019, during open heart surgery. ...



...After leaving California for Nevada, Ron pursued a range of interests. He returned to ham radio, call sign W7FIA, then WT7AA, and volunteered with the Carson City ham radio club as a test proctor. Ron competed as a single operator, low power, 20 meters, and received a certificate of merit, placing No. 1, U.S. 7th Call Area, in 2015. He humorously calculated his placement as 5th in the U.S., 9th in North America and 85th in the world. Ron was a ham radio operator for over 25 years.

Ron loved flying (after spending many hours in 'his' airplane), and became a glider pilot at Minden, Nevada, where he was awarded the "Symons Wave Memorial" plaque and Lennie pin number 1624 for his outstanding wave flight. Ron also assisted in a survey of Nevada airports for glider pilots.

The solar system, comets, space and stars remained a continuing interest, and Ron volunteered numerous hours at the local observatory, often working with students. He joined the Friends of the Nevada Railway Museum, and was a steam train enthusiast. Recently Ron also joined and assisted the Carson Rifle and Pistol Club....

To read the complete obituary: <https://www.nevadaappeal.com/news/obituaries/ronald-melvin-bardarson/>



ARRL Licensing Exams:

VE exams are held at 9 a.m. on the third Saturday of odd months, at Fire Station 51, 777 S. Stewart Street, Carson City. Parking and entry are in the back by the fire museum. Bring your photo ID, \$15.00 cash or personal check (*we can't take cards*), and a copy of your current license if you are upgrading (*a reference copy from the FCC web site is acceptable. It doesn't have to be the Official copy*). Greg Moore KG7D also suggests you bring an extra \$15.00 if you want to take another test. Many people do this and pass with flying colors. Some people have earned Tech, General, and Extra licenses on the same day. There's also an informative Q & A session afterwards. Bring your new radios if you need help programming them.



Contact: Greg at KG7D@arrl.net so we can prepare for the correct amount of candidates, or with any questions you might have. Please let Greg know you heard about the exam in the Beacon. Also, he may be able to schedule special exam sessions if the regular day doesn't work.

The next licensing exam: January 18th.

Did you know that SIERA has a library? Contact Jim Marshall K6LR at: k6lr@arrl.net and see what we have available.



BREAKFAST AND LUNCH WITH SIERA HAMS

8 a.m. breakfast every fourth Saturday at the Tail Dragger Café at the Minden-Tahoe Airport.

11:15 a.m. lunch every Wednesday at Jethro's on Kimmerling in Gardenerville.

Nets Available in Carson Valley and Beyond:

The SNARS Noon Net daily on 147.150.

Daily Carson & Eagle Valley net, 6 p.m. on 28.435 MHz USB

BARC Nightly Net, 8 pm on 146.655 pl 131.8, ragchew and pre-check-in at 7:30 p.m.

DCART Net, Mondays at 6:30 p.m. on 147.270.

TARA Net, Mondays at 7:30 p.m. on 147.240.

SIERA VHF Net, Tuesdays at 7:30 p.m. on 147.330.

SIERA HF Net, Tuesdays at 8 p.m. on 3982kHz.

Plumas County Net, Tuesdays at 7:30 p.m., on 145.470.

Brad Smith's (WT6B) Watering Hole, Wednesdays at 7:30 p.m. on 147.330,
"questions and answers pertaining to amateur radio."

SKYWARN at 7 p.m. Wednesdays.

NV ARES Net Thursdays at 7 p.m. Echolink conf server NV-GATE 152566 IRLP Western Reflector Ch8:9258

SNARS Hospital Net, Fridays at 10:00 a.m. on 147.030 or 147.150

(SNARS Linked Repeaters: <https://snars.org>)

RARA Rural Amateur Radio Assn., Fridays at 8 p.m. on 147.180 pl 123

ARES HF Net, Saturdays at 7 a.m. on 3965kHz (+or - QRM).

RARA, Rural Amateur Radio Association, Saturdays 7:30 a.m. on 3965kHz

New Hams Net, Sundays at 1 p.m. 146.760 pl 123

National Traffic Service Net, Sundays at 6:15 p.m. on 3945kHz

Personal Repeater: Dale Yanz KJ6IX has his own repeater that he invites everyone to use. It's located at 444.450Mhz with a plus offset and PL 107.2. His Echolink code is KJ6IX-R node: 244875.

DCART News

We have been discussing our emergency planning to use the 147.270 simplex if that repeater is not operational as a repeater. The other two may still be functioning as repeaters. So is simplex still as option? I am thinking yes, as a gathering first information place, especially since other counties could still possibly reach it. We would choose our first simplex go to and carry on Douglas ops there, leaving an operator to still cover the linked repeater system.

We are considering our community awareness of DCART and that we do public information releases. First it makes sense to begin by informing our in-house Douglas County people as a first step. David, KI6EWK, will confer with our Director, Ron Sagen, and the DC publicist to work on a release. We appreciate Sue's (KI7CTT) talents with informing our counterpart SIERA colleagues of DCART activities through the Beacon.

In 2020 we can look forward to working the operation changes suggested by our SET exercise.

73, Sheila, ka7ajq

El Dorado County Amateur Radio Club (EDCARC) to introduce local GMRS "Radio For The Rest of Us" safety programs

The Mountain Democrat just recently published a story on the front page of their December 09 edition about the efforts by our El Dorado County Amateur Radio Club (EDCARC) to introduce local GMRS "Radio For The Rest of Us" safety programs in some of our area's Fire Safe Councils: <https://www.mtdemocrat.com/news/when-cell-service-goes-down-radio-to-the-rescue/>

Although there were a few minor typos and mis-quotes in the article, we appreciated the tremendous positive PR this has generated for the Club and for local Community Safety efforts.

Best Regards,
Alan Thompson - W6WN
The El Dorado County Amateur Radio Club
EDCARC.net

Notes from the 2019 ARES Leadership Meeting, Tonopah Station, Tonopah NV, Dec.14 2019

Meeting commenced at 0930, chaired by John Abrott KD7NHC

A discussion of Winlink was started by Glen Hale and was primarily about RF Only lists available on the system, and the method of leaving messages for others and switching back to HF Voice.

Some conversation was had about the recent Cal Fire controversy over leasing space in their facilities. Bottom line, if the group is not active, they need to get active. If they don't get active, then they will need to pay rent.

John Abrott passed some handouts with forms for EC/DEC time submission. Short discussion.

Glen Hale mentioned that a PDF form was available from the ARRL site, and the form was fillable online.

John Abrott discussed goals for the Nevada Section. Among these are:

HF Comms including 60m

Work with DEM for periodic testing

Winlink/Winmor – consensus is NOT to use Winmor, but to use ARDOP or VARA instead

Identify Winlink users in your county

Create a NET via Winlink for weekly check-ins

Add qualified personnel from nearby county ARES groups to assist DEM when help is needed; vet and train

Appoint a committee for the next Nevada SET in October; it was later decided to have the DECs do this

Each county to have or develop an emergency comms plan; coordinate with the county's plan

Use actual ICS forms, NOT your own modified forms; reason is acceptance by other groups,

FEMA etc. Lengthy discussion followed about 309 Radio Log vs ICS-214. It was eventually determined that 309 was never a FEMA form and radio logs should be kept on ICS-214. If a 309 is used it may be attached to an ICS-214.

An extensive review of the "Storm Area 51" event followed with Charles Reifsnyder from Mineral

County describing the event: the preparation, the experience, mistakes made and lessons learned. This was very informative.

Craig from Nye County provided some technical information on Winlink. He is very knowledgeable and offers to help others if needed. Briefly P2P is not useful for our purposes and requires operators at both ends. FLDigi has many advantages over Winlink P2P because it will do "one to many" rather than "one to one" only. He also talked about Winlink gateways and their availability world-wide. Using the software in this way allows one to switch to Winlink for at most five minutes, send/receive, and then return to HF voice.

ARES Connect was covered briefly. Apparently there is an update to 2.0 forthcoming.

Robert Plant gave an introduction to his duties as the state comms officer and his desire to improve interoperability with ARES groups in all counties. He mentioned that every county will have a NSRS 800 radio and proposed a monthly NET. He also mentioned the benefits of ICS-300/400 course that are free at DEM, REOC and others. (*Feb 2020 at REOC, May 2020 at DEM*) Also mentioned was the possibility of conducting statewide meetings as necessary via the DEM VTC, which can accommodate 50 users at one time. This has the potential to greatly facilitate meetings while reducing the travel requirement in some situations.

Also discussed was an upcoming FEMA exercise called "Binary Blackout" to affect Southern Nevada, Southern California and Arizona. This will be a significant comms test because it will simulate large-scale power outage caused by terrorist groups. It is expected to take place in March 2020, but not set in stone.

Robert brought up the availability of HS Grant funds for administration by DEM. Counties may create and submit a wish list. There are no guarantees, but money that is de-obligated from other entities does become available; if not used it goes away.

Meeting ended at 1400 hours.

Yell if any questions.

Tom Seeley W4FLL

SIERA General Meeting December 7, 2019

Call to order 1:00 p.m.

Membership 22 members and guests were present (out of 83 members).

Treasurer's Report

| | |
|-----------------------------------|----------------|
| Checking Account | 1922.23 |
| Starting Balance | 236.50 |
| Deposits Membership dues | 0 |
| Withdrawals | <136.00> |
| DMV: 3-year tags for club trailer | |
| Ending Balance | 2022.73 |
| | |
| Savings Account | |
| Starting Balance | 4072.21 |
| Dividends | .17 |
| Ending Balance | 4072.38 |
| | |
| Grand Total | 6095.11 |

Introductions Members talked about how they got into ham radio, their specific interests and their experiences.

Updates

Pony Express Date

June 3-June 11 are the dates for the 2020 Pony Express Re-Ride in Nevada, according to its SIERA coordinator, **Tom Tabacco, KE7NCJ**.

Repeater

In response to a question, **Jim Marshall, K6LR** and **Jeff Cauhape, K7BCV** reviewed the history and current status of the repeater.

The Post-Holiday celebration

...will be held on the first Saturday of January (January 4) at 12:00 (instead of the 1:00 usual starting time for the General Meeting). It will be a Potluck, using the same meeting area, and attached kitchen, as our usual meeting place—the Methodist Church on Centerville Lane—from noon to 3:00.

A separate table will be set up with books and equipment for sale that have been donated to SIERA. Members are encouraged to bring their own items to add to that table.

Elections

Jim Marshall, K6LR thanked **Mike Whitten, KI7NIP** and **Ed Terlau, KG7ZOP** for their work in developing an election slate, and read the by-laws related to elections.

Elected by acclamation were

- **Jim Sanders, AG6IF** (President)
- **Ben Echavarria, N7BBE** (Vice-President)
- **Debbie Williams, N6XYL** (Treasurer)
- **Dave De Angelis, K1SCN** (Secretary)

Elected by secret ballot were the Directors:

- **Bob Williams, K7VOC**
- **David Granish, KI6EWK**
- **Jim Marshall, K6LR**
- **Mel Hogan, WASEYD**
- **Don McRoberts, W3DRM**

Adjournment

The meeting adjourned at 2:35 p.m.

SIERA Board Minutes: December 7, 2019

Call to order 12:01 p.m.

Board members present

Cathy Carney, KI7NIR Jeff Cauhape, K7BCV Ben Echavarria, N7BBE David Granish, KI6EWK Jim Marshall, K6LR Bob Williams, K7VOC Debbie Williams, N7XYL

Absent

Greg Moore, KG7D Subrina Vinton, KI7OAL

Treasurer's Report for December 2019

(see above report)

Debbie Williams reported that many people are renewing. Counting our new members (e.g., Gerry Miller and Mike Hukil), we now have about 70 members. A more complete list will be available in February.

Old business

Last month's minutes

Approved on-line prior to this meeting.

Board member signatures for Lander County Thanks (Sheila Clement, KA7AJQ) Sheila was not present: this item was not addressed.

Post-Holiday potluck

Bob Williams reported that SIERA will not need to share the kitchen with anyone else this year.

Nomination committee report and plan for voting at the General Meeting (Jim Marshall, K6LR)

Jim announced that the work by the nomination committee (**Jim Marshall K6LR, Mike Whitten KI7NIP**) and **Ed Terlau KG7XOP**) to identify new board members had been successful, and ballots had been prepared for use at the General Meeting.

New business

Dues increase and collection of next year's dues (Debbie)

Debbie Williams reminded members that anyone renewing after December 31 would need to pay the increased amount, (base amount increasing from \$24 to \$30) approved at the last board meeting.

Presentation planning for February (Jeff and Board)

This item was not addressed.

Additional topics brought up

1. **Jim Marshall** confirmed that no new action which would impact our receiver has been taken by the California Highway Patrol. He did remind the Board that our antenna is mounted on a wood tower, which is part of the Historic Conservation area.
2. **Jim Marshall**, the chair of the nomination committee, recommended that any action on By-Law changes be tabled until February, when the new Board will be seated. The Board concurred.
3. Trailer tires: **Bob Williams** shared that the tires on the club trailer are six years old. In addition, we lack a spare tire, cover, and mount for the spare. **Jeff** moved that Bob look into the cost of getting tires and accessory items for it, in preparation for voting on the expenditure at the next meeting.
4. **Jim Marshall** said he has purchased a new repeater controller (which purchase was approved some months ago), and since that time the price has increased to \$350 from the original \$240 that was initially approved. **Ben Echavarría** moved and **Bob Williams** seconded a motion to reimburse Jim for the amount he spent, which was about \$100 more than what was originally approved. Jim also mentioned that he learned that the old controller could be upgraded with new software, and recommended that we eventually do so, so that we would have a back-up ready-to-go if needed.

Plan for General Meeting

1. Introductions: ask members to wear nametag (or obtain one from Debbie if they do not have one), and to say something about their recent activities related to ham radio, their particular interest areas in radio, or any upcoming ham-related events they are aware of. (**Jeff**)
2. Treasurer's Report (**Debbie Williams**)
3. Board Meeting Report (**Jeff**)
4. Voting for new board (**Jim Marshall**)
5. Presentation: **Dave De Angelis, K1SCN** will give a 20-minute slide presentation titled: "A Vanity and DX Call Sign Primer: a light-hearted commentary on call signs heard/decoded."

Adjournment

The board meeting adjourned at 12:25 p.m.

**Remember, send your photos and news for the Beacon to:
scauhape2002@yahoo.com.**



**A ham's gotta do
what a ham's gotta
do!**