



# Sierra Foothills Amateur Radio Club

## SIERRA SIGNALS

<http://www.sf-arc.org/>

NOVEMBER 2011

PO BOX 1005, NEWCASTLE, CA

## At the Key of SFARC

### OFFICERS

#### PRESIDENT

Al Martin, NI 2U  
[amartin4@wavecable.com](mailto:amartin4@wavecable.com)

#### VICE PRESIDENT

Charles Baker, AE6LR  
[ae6lr@yahoo.com](mailto:ae6lr@yahoo.com)

#### SECRETARY

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#### DIRECTORS

Mary Ann Balthorpe, KE6EST  
Gary Cunningham, KQ6RT  
Jim Griffith, KI 6AZH

#### Field Day Chairman

Dave Hund, N6SHD

#### REPORTERS

Satellites: Greg, KO6TH  
History: Gary, KQ6RT  
Misc Radio: Fred, K6DGW  
Sunshine: Richard WA6RWS  
[rkuepper@gmail.com](mailto:rkuepper@gmail.com)

### RESOURCES

#### REPEATERS

145.430 (-0.6 MHz/PL 162.2)  
440.575 (+5.0 MHz/PL 94.8)  
223.860 (-1.6 MHz/PL 100.0)

#### CLUB NET

Thursdays, 7:30PM, W6EK/R  
145.430

#### CLUB MEETINGS

Second Friday of the month,  
7:30PM at the Library, 350  
Nevada St, Auburn CA

#### CLUB BREAKFAST

Last Sat of the month at  
Susie's Café, Cirby at  
Riverside, Roseville - 8:00 AM

#### NET CONTROL OPS

Dave Jenkins, WB6RBE  
Gary Cunningham, KQ6RT  
Norm Medland, W6AFR  
Casey McPartland, W7IB

#### NEWSLETTER EDITOR

Matthew Diridoni, KC6RUO  
916-749-3032

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#### WEBMASTER:

**Carl A Schultz, WF6J**

## Calendar of Events



Nov 5 - 7	November Sweepstakes CW
Nov 11	Club Meeting
Nov 19 - 21	November Sweepstakes Phone
Nov 24	Thanksgiving
Nov 19 - 20	EME Contest, 50-1296 MHz round 2)
Nov 26	Club Breakfast

## SFARC CLUB MEETING PRESENTATION

### Tech Ten

"Show and Tell, HF package for portable/emergency operation" presented by Jim Piper N6MED.

### Program

"Summits on the Air" presented by Fred Jensen K6DGW.

**Everyone is welcome, bring a friend!**

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## From The Presidents Shack, Al Martin NI2U President's Thoughts



Proposals for awards are finally back in process. My current proposal has three awards, Life Membership, Superior Performance Award and Superior Performance Cash Award. These will be vetted with the Board before presentation to the membership. Please expect changes but the changes are moving forward.

As mentioned last month, we need to set a slate of officers and board members for next year. Volunteer organizations always have difficulties in providing leadership. This is our club and we need to encourage some younger and newer members to help running the club. My suggestion is to have board meetings separate from the membership meeting location. Also, a strong secretary and involved treasurer are very important.

The president's work should be to set the direction. This can be done by preparing the agenda for the board meetings.

This next one is contrary to general membership desires but, volunteering for the activities is really important. The club supports ARES, Bicycle Rides, The Tevis Cup, The Enduro and the Western States 100. There are more but helping with the communications is important practice for emergencies.



## Letter Received by SFARC

Greetings;

It's time to start thinking about the 2011 SKYWARN Recognition Day (SRD) Event which will be on December 2 and 3 from 4 pm to 4 pm local time. For those who are not familiar with the event, SKYWARN Recognition Day was developed in 1999 by the National Weather Service and the American Radio Relay League.

SKYWARN Recognition Day serves to celebrate the contributions to public safety made by amateur radio operators during threatening weather. **This is a great opportunity for you to test you or your club's ability to conduct emergency communications** (like Field Day). The 24 hour event involves National Weather Service(NWS) offices exchanging weather information with as many hams as possible on 80, 40, 20, 15, 10, 6, and 2 meter bands plus the 70 centimeter band using SSB, FM, AM, RTTY, CW, and PSK31. Contacts via repeaters, echo-link, and IRLP are also permitted. Over 100 NWS stations across the country are expected to take part in the event this year. Additional information about SRD can be found online at <http://hamradio.noaa.gov>

At this point, we are looking to see who can participate in this year's event. If you or your club would like to partake, please let myself or Eric Kurth know. Once we get a list of interested parties, we can schedule a planning meeting (probably in early November) and coordinate the finer details such as available operators and equipment.

Feel free to forward this information to others you think may be interested. Thank you for taking the time to read this. We look forward to hearing from you in the near future and making this a great event.

73

Chris

*Chris Hintz K6DX  
Meteorologist  
National Weather Service  
Sacramento, CA  
916-979-3051 Ext 516*





# 2011 CF Cycle for Life

There were approximately 80 riders total, participating in two loops around our area; the short loop was 32.5 miles while the long loop was 65 miles. No problems were reported, with only one flat tire (repaired by the rider) and 4 riders ferried from respected positions on the course where they decided they could not finish the ride for whatever reason.

The weather was perfect for the event with temps in the mid to upper 70's. The Start/Finish line was at the Dono dal Cielo Vineyards on Wise Road in Auburn. I'm estimating at least 300 people participated including riders, support and logistics people.

Breakfast snacks, along with lunch and food/drink after the event were furnish to participants. A really nice event for some really nice people. There were 4 rest stops, two SAG wagons and a net control station all manned by members of SFARC.

George-KG6LSB organized communications and assigned participants to various rest stops and the net control position at the winery.

The SFARC repeater provided most of the radio links, while George had setup 7 other backup channels for other communications purposes.

Participating were George-KG6LSB, AI-NI2U, Dave-N6SHD, Chuck-KG6FFK, Bob-KJ6MOS, Robert-W6RBL and Bob-KJ6KEZ.

73, Dennis-WU6X reporting.



Bob Brodovsky, KJ6MOS and Robert Bell, W6RBL at the Trailhead rest stop

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## Fifty Years Ago at SFARC

November 8, 1961

Meeting was called to order by pres. Lin Hunter, at home of Frank Carmen K6TFD. Minutes of previous meeting and treasurer's report was read by the secretary and approved.

The business of the heath tower was discussed. Vice president Jim Carmen was appointed to manage the sale and collection of tickets. At this date, the tickets sold amounted to \$57.00. The disposal of the remaining tickets will be discussed on the Sunday net. Deadline for selling has been set for Dec. 1<sup>st</sup>, and the drawing not later than the regular meeting date of Dec. 13<sup>th</sup>. We hope the club will help someone win the two meter set whom we can later contact. Plans will be made for a second Heath tower. Jim Carmen reported that the Naval reserve building was not completely vacated yet, and we are waiting for time. Until the building is turned over to the fair board, we will not be able to acquire the room. We hope some of the equipment will be left for the club to use.

Plans for our next meeting were made as follows: try to acquire a room at the fair grounds for the meeting; Frank Carmen is to bring two dozen doughnuts; Lin Hunter will bring the coffee; the drawing, nomination and election will be held. The \$5.00 merchandise certificate donated by Calif. Radio Television supply was won by Puffy Roger, W6UNT.

Meeting was adjourned at 9:50 pm and refreshments served by the Carmen's.

Respectfully submitted, Sage Otow

# MISCELLANEOUS RADIO

## *The Sun Has Spots – What Now?*

Well, we've all been waiting now for several years. Cycle 23 ended way back near the end of 2009, and one cycle follows another, or so we thought, so why was 2010 pretty much devoid of sunspots? What happened to Cycle 24? I'd love to be the one to answer that question, but so far, it's unlikely that any human knows what happened, much less why. Some were even predicting that Cycle 24 would be missing, as has happened a couple of times in the past. Patience, as if we really had a choice, has paid off, the sun is making spots, there has been a lot of activity, and 10 meters was wide open for the California QSO Party, and has been most every day since [just worked TX7M on 10 CW]. Sunspot numbers have been up around 180 at times, and the 10cm solar flux index has been up as well, occasionally 170 or so.

Times have changed since the late 50's and Cycle 19, the highest ever recorded. Today, you can find more data and information on the Internet concerning the sun and what it is doing that you could ever digest. Fortunately, there are a handful of indicators that are easy to get and understand. They don't always tells us where we'll find the DX, but they're good measures, especially if you watch them over time.



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real-time data from satellites measuring all sorts of things out in space that affect the ionosphere and the geomagnetic field. And some do not require a degree in rocket science to understand. The source I like best is [www.n3kl.org/sun/noaa.html](http://www.n3kl.org/sun/noaa.html) which also offers a little plug-in you can stick on your webpage to make it available easily.

Here are several of the real-time graphs that can help you amaze your friends, and sort of explain HF propagation. The data all come from 2 GOES satellites in geosynchronous orbits over the western hemisphere.

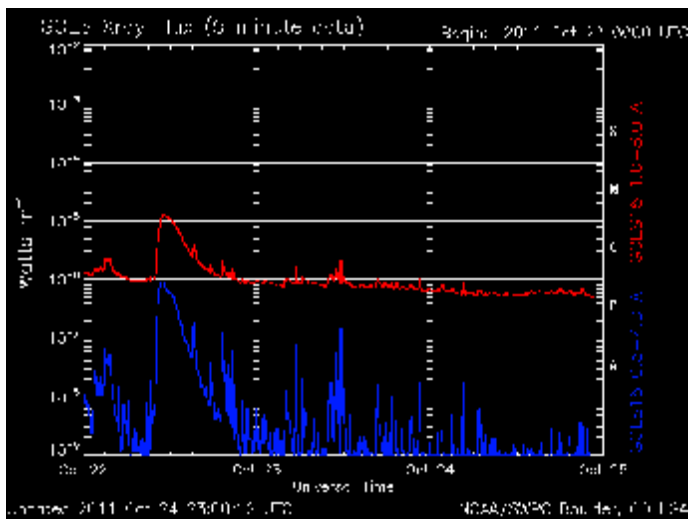
This one is the X-ray flux mainly from the sun, although some does leak into the solar system from the galaxy and beyond. The two plots are for X-rays at two different wavelengths. The scale on the left is in watts/sq meter, but we don't need to worry about it. The scale on the right shows the classes that have been assigned to the radiation. Normally, it runs in the A/B-class area which is pretty weak. You can see that at midday on 22 Oct [UTC], there was a small flare, probably from a sunspot group, that made it into the M-class region. M and above can generally affect HF propagation conditions. X-rays are electromagnetic radiation, they travel at the speed of light, so that peak was about 8 1/2 minutes after it actually occurred on the sun, that's how long light takes to get from the sun to the earth. Back in the middle of the last decade, I was running Sweepstakes CW on Sunday morning at Jim's, WX6V, and in the space of 30 seconds, all the signals disappeared leaving just a very high frequency hiss. I even went outside to see if his antennas were still up. All bands, no signals ... nada. After perhaps 60 minutes, signals began reappearing, and all was normal in maybe 2 hours. It had been the largest X-ray flare ever recorded, beyond X-class.

If you use Firefox for your browser, you can download Propfire, a Firefox add on. Here's mine. At the bottom you'll see SF: 145 A:7 K:4 SSN: 128. SF is the 10cm solar flux. It ranges upward from about 64 or so. As I write this, it was 145. Higher is generally good.

SSN is the Smoothed Sunspot Number. It ranges from zero [see 2010] upwards. There is an art to counting sunspots, they come in groups of several, and those who do the counting have some secret rules for coming up with the number. As long as they're consistent, we don't need to know the secrets, higher is usually good, with some exceptions.

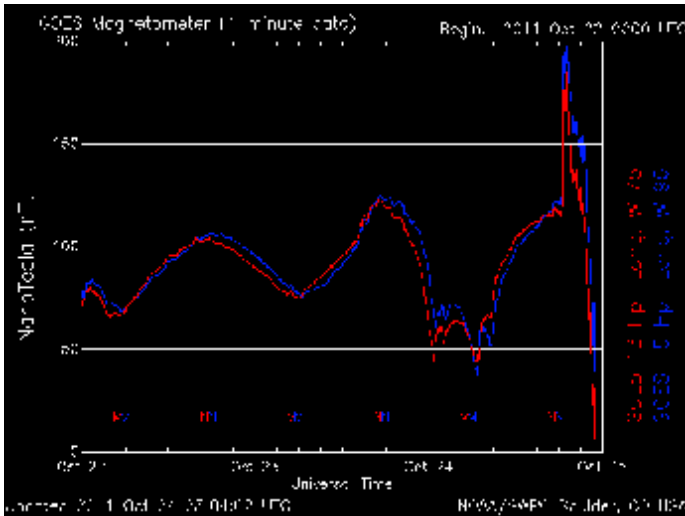
A and K are measures of the disturbance in the Earth's magnetic field. The details are a bit arcane but lower is generally better. A is unbounded and can go as high as necessary, K ranges from 0 to 9. Low isn't always good, especially if you like VHF DX via reflection from auroras, but generally, good HF conditions like low numbers.

“But wait! There's more!!” Again on the internet, you can get



real-time data from satellites measuring all sorts of things out in space that affect the ionosphere and the geomagnetic field. And some do not require a degree in rocket science to understand. The source I like best is [www.n3kl.org/sun/noaa.html](http://www.n3kl.org/sun/noaa.html) which also offers a little plug-in you can stick on your webpage to make it available easily.

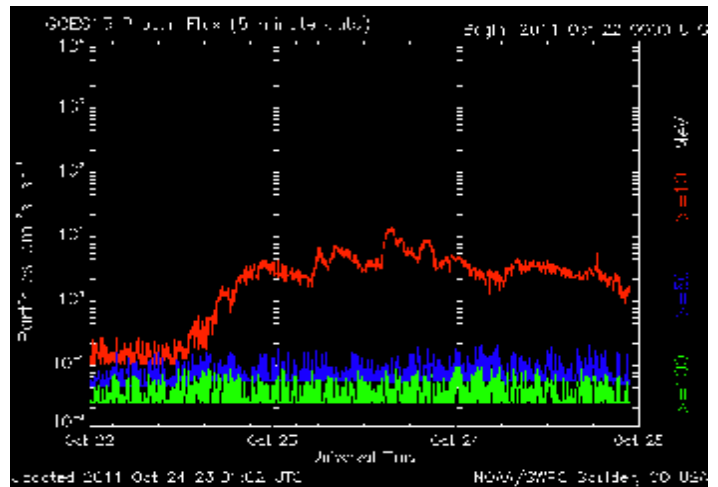
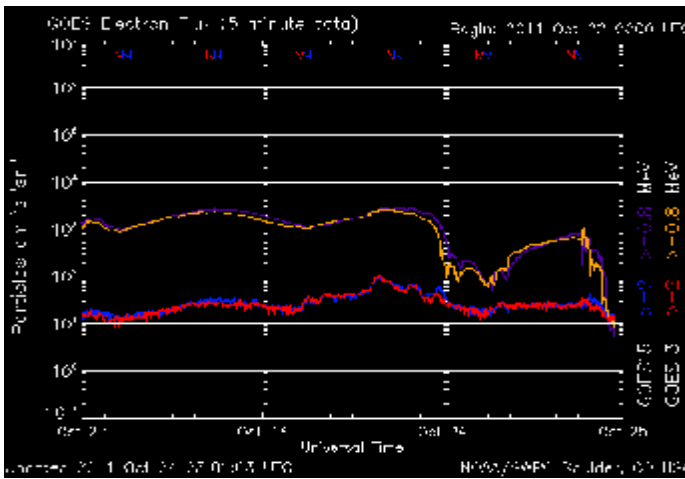




Here's another graph from the same source, same time. It's the magnetometers on the satellites measuring the direction and magnitude of the earth's field. Generally, it looks like the left part, it goes up and down daily between about 50 and 100 nT as the earth rotates and sweeps the magnetic poles around the satellites. Then, things like the right side happen.

That X-ray flare also expelled a huge amount of plasma from the sun back on 22 Oct. It has mass, it moves fast but nowhere near the speed of light, and it finally got here late on 24 Oct [UTC]. It brings with it parts of the intense magnetic fields associated with the sunspot that ejected it, and it plays havoc with our feeble geomagnetic field. That in turn ratchets up the A and K indices, and strange things begin to happen in the ionosphere, which is charged of course and responds to magnetic field changes. And, there's yet more.

These are graphs of the flux of electrons and protons streaming at us,



mainly from the sun. Generally, you will see a dip in the electron flux, and sometimes but not always a peak in the proton flux as the sun poop slams into our magnetic field. While the electrons and protons have mass and thus travel at well below the speed of light, some of their magnetic effects travel at the speed of light and can begin to effect our environment long before the plasma hits our magnetic field. This means a lot to the real rocket scientists, no so much to us. Incidentally, the units on the vertical scales of those plots are the mouthful, "particles per square cm per second per steradian."

While the density of these charged particles is very low ... essentially a very good vacuum ... the space they occupy is huge and together, they carry an incredible electric current. As they, and the current, reach our geomagnetic field, they distort it rapidly. We all know that if a changing magnetic field cuts through a conductor, it will induce current into it ... it's how the vast majority of our generators work, it's called Faraday's Law. It doesn't matter what's moving. In a generator, we rotate the conductors in a fixed magnetic field. For the geomagnetic field, the distortions in the field move the field past the fixed conductors ... all those long, high voltage power transmission lines we've erected nearly everywhere. Since they are so long, and since the field distorts very quickly, huge currents can be created that play havoc with the power grids. Generally speaking, during times of high sunspot activity, we'll experience several of these events a year. Most are handled by the grid's protection equipment, but every now and then a really big one comes along and makes "blackout news."



The rain of charged particles begins to follow the lines of force in the geomagnetic field, which come down to the surface in the polar regions. The fast moving particles start colliding with the diffused atoms in the ionosphere and further ionize them creating the aurora. Auroras in the polar regions are truly stunning. I'm colorblind so I miss some of the show, but it's still very much a, "You had to be there to believe it" experience. I found the photo at the left on Wikipedia, it's an aurora over Fairbanks AK, and closely resembles the ones I

experienced while stationed at Galena AFS on the Yukon River near the Arctic Circle in 1963.

Some were bright enough to read by. The colors arise from the gases being ionized, Andrea tells me this one is dark red on top and green on the bottom which would be from oxygen. And, that curtain-like structure waves ... very rapidly ... just like you are looking up at the curtain of a celestial stage being blown in the wind.

So, we have a curtain of ionized particles, sounds like the ionosphere, no? It is indeed a great reflector of radio signals, especially in the high HF and VHF ranges. For HF, it's another story. Under the aurora, 80 and 40 meters just go dead and signals are replaced by a very even, fairly strong [like S-7] high frequency hiss. I suspect 20, 15, and 10 [we didn't have 30, 17, and 12 meters then] also went dead, however they pretty much died as the days got very short and the nights got very long. When the aurora's were strong, we could see them on the GCA [ground controlled approach] radar as almost solid, waving lines. Targets behind the lines would just disappear. If you listen now on 20 meters after sunset during auroral events, you'll often hear Europe and northern Asia with a strange "watery sound." That's the random scattering from the aurora.

Sunspot cycles last about 11 years. We've been in the doldrums for several years now, but things are finally picking up again. You don't want to miss it, it'll be a long time before the next peak. If Cycle 24 peaks in 2013 as is being predicted, it'll be 2024 for the next one and you'll be 11 years older ☺

73,

Fred K6DGW



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# *The ham radio operator's guide to survivalism*

By Bob Brodovsky - KJ6MOS

Having been a ham for less than a year hardly qualifies me as the expert in anything ham radio. However I do have some practical experience with tactical / survival / radio communications. With over 20 years experience in rural law enforcement with somewhat of a "prepper" mentality, I feel at least qualified to pass on my real life experience.

As hams, we have an affinity toward all things radio and toward helping others in need. We've all heard about "radio go bags" and most of us have one somewhat assembled. I'm going expand on the "go bag" theory. Your personal go bag is as much a personal choice as the groceries you buy on a daily basis. Because we are hams, we are at least thinking about emergency situations where the normal means of communication are broken. A freak snow storm or a broken serpentine belt can turn something as fun & seeming controlled as Field Day can turn into a real life survival situation. If you participate in ARES, you're training for the very type scenario I'm writing about. If you wait to assemble your survival gear when the event happens, your too late.

The worst case scenario for most in the ham radio community would undoubtedly be an EMP event. This could be either a man made or natural event. Just two years ago, the thought of a nuclear explosion caused EMP was reserved for the crazies amongst us. Now, we have mysterious missiles being fired off the coast of California, Iran putting warships off the U.S. coast and aligning themselves with South American enemies well within range of ICBMs. The crazy thought of an EMP attack doesn't seem so crazy anymore. Natural events such as a coronal mass ejection (a really big solar flare) could cause an EMP and would essentially fry any exposed circuit board by overloading the the capacitors. So, in addition to taking out the grid, your post 1975 cars, cell phones, transistor radios and the majority of todays ham radio rigs will be reduced to junk status.

Experts in the field estimate a minimum six month recovery time to restore the power grid because the parts would have to be made after the fact. Without refrigeration or transportation, most grocery stores have about three days worth of merchandise on hand. Ham radio would instantly become the preferred local and long distance communication medium. Electronics can be shielded from most EMP by shielding them in a sealed metal container. I personally keep my Yeasu VX8DR and a Kenwood Mobile sealed up inside of a mylar bag folded into a large ammo can along with a set of FRS radios.

I highly recommend redundancy. In my experience, two is one, one is none. I don't know how many times I've been searching a dark building and had my primary flashlight die. I've had my portable radio battery do the death chirp on traffic stops and have had weapons failures under some fairly extreme conditions. When you put your "go bag" together, think "fixing a basic failure fast". Notice I didn't say "Radio Go Bag". I've seen several hams who have a dedicated radio go bag loaded with HTs, Mobiles, batteries, chargers, antennae and parts to fix everything under the sun but don't include basic items for survival. If your preparing for the next ARES event, think about this, what happens when the infrastructure is crapped out, it's cold, raining or snowing and there's no food truck for the volunteers. It's my strong belief that when your trying to help others, you need to remain a helper and not become a victim yourself.

## **Here is my recommendation for a good solid "Go Bag".**

1. A good quality *3 day assault pack*. (stay away from the lightweight backpacking type packs). A backpack also enables you to use both hands for other more important uses.
2. Your personal choice of HT/QRP radio gear. Keep it simple and pre planned including antenna, batteries & manuals. Keep your mission in mind when planning your gear.
3. Food - Get a couple of MREs (Military meals ready to eat) that will give you two high calorie meals for a 72hr period. Power bars, hard candy, vitamins are also very handy to have on hand.
4. **Water** - count on 2 quarts per day per person, minimum. Get a hydration bladder for your go bag, good BPA plastic containers, or military canteens. **Water is the key to life.**
5. Hand warmers, work gloves, military can opener, water purification tablets, a small first aid kit, survival blanket, multitool, a good knife, lighter, waterproof matches, insect repellent, chap stick, 3 days worth of your daily medications in a sealed container, wool socks, cold / wet weather outer wear, camping mess kit, spork, small mirror, two flashlights, at least 50' of paracord, knee pads & two rolls of toilet paper.

Your personal kit may differ from this depending on your needs, the location and conditions. I highly recommend you get your bag put together and leave it packed and ready to go somewhere in your home ready for a quick getaway.



# White Elephant Sale

"Auctioneer" Len Taylor, WB6HGS, was the master of ceremonies again for the 2011 SFARC White Elephant Sale. With the assistance of Richard Kuepper, WA6RWS, attending members and guests enjoyed this yearly fund raiser that rose over \$300.00. Proceeds from this club event go to our Christmas Party.



If you have never been to an SFARC White Elephant Sale with Len and Richard you really need to reserve the date for next year. They keep the crowd entertained with the auction combined with light comedy that will keep you laughing until everything is sold.



SFARC Thanks Len Richard!



# SFARC Board of Directors Meeting Minutes

## BOARD OF DIRECTORS MEETING MINUTES

14 October 2011

The October Board meeting commenced at 1800 hours at Elm Avenue Round Table Pizza in Auburn.

Officers present: President Al Martin-NI2U; Vice President Chuck Baker-AE6LR; Secretary Dennis Gregory-WU6X; Treasurer Bob Balthorpe-KD6WTY; Directors Gary Cunningham-KQ6RT; Jim Griffith-KI6AZH and Mary Balthorpe-KE6EST were present. Also present were Sunshine Reporter Richard Kuepper-WA6RWS and PIO/Webmaster Carl Schultz-WF6J. Guests in attendance were Jim Carman-K6ARR, Bob Brodovsky-KJ6MOS and Leonard Taylor-WB6HGS.

By-Laws Update: The By-Laws for will be included in the next Newsletter (or attached to the emailed version) for review by the membership, to be voted on at an upcoming meeting, date TBD.

Member Awards: A process with various rules and options for consideration was submitted by Al for discussion. The process would allow members to be rewarded for activities, or contribution, that benefits the club, community, or ham radio in general. Options discussed were, a "life membership", a "superior performance" award, a one-time "sustained performance", or a year's Club dues paid. The award would be presented at the Christmas party, and be a surprise to the recipient. The process will include a letter of recommendation, "seconded" by another member, submitted to the Board or to a committee appointed to review applicants. The Board can also recommend a member for acknowledgement for an award. Cash awards were discussed as well, but the Board's general feeling was that cash awards would not be appropriate. The Board will review Al's award process for further discussion at next Board.

Treasurer's Report: Bob and the Board reviewed details of the Treasurer's report. Bills paid in September were Newsletter printing, reimbursement for picnic supplies, PG&E for the repeater, and AT&T for phone. Total expenses were \$99.52. Income included donations and dues. Al had not reconciled the budget-to-date as of the Board meeting. It was agreed to put the donation from the Enduro event into the repeater fund. Total income for September was \$712.00 for the October 1<sup>st</sup> net cash on hand of \$2,234.25. Al's gave a summary of the forecasting spreadsheet tool he uses for budgeting expenses for the year.

Welcome Kit: More discussion was held on the idea of a Welcome Kit for new members. Al presented an outline of what might be included. Being considered is a cover letter with a paragraph on Club history, letters from officer functions, repeater information, newsletter, and PIO.

Repeater Report: Richard gave a report on the status of our current (Master-2) and "backup" repeaters (Yaesu). A 6m repeater is being assembled that will use two sites (RCVE/XMIT) to circumvent the need for cavities. Replacing the current antenna and 30-year old coax was discussed. We have a role of cable at the repeater site and access to a bucket truck. The Yaesu repeater needs programmed. The existing repeater can be programmed for various "modes" or "channels" of operation, and Richard is considering available options and combinations. Changing modes would be "manual", at the site only. Other user-codes would allow members to record/playback an input test transmission, time of day, etc.

Elmer Help: Submissions were discussed as well as a process for acknowledging emails using the Club's Webmail system with designated folders so as not to double-answer people asking questions. Currently, certain members are "flagged" to in their personal email. When that occurs, they can look in the Webmail IN-box and respond, and then move the mail to the ELMER folder. Or, simply leave the email in the IN-box for someone else to respond to it. There have been 4 queries to date; Kim Turner-KJ6BCE has his tuner working. New submissions were reviewed from Glenn-WA6KKK and Susan-KF6RTC, queries from Jack Pollard-KF6ZQZ and John Laffey-KE5WNB). Where possible, we will include Club members.

Online Roster: Access, or lack thereof for some people, was discussed. Carl will address the issue.

PIO Report: Carl reported that Matt might need help with the Newsletter. A suggestion of using a different process for Newsletter development was briefly discussed; Matt has special software he uses for Newsletter development, purchased by the Club.

Radio Classes: A discussion was held on whether the Club is participating in the cost of the books, or should be. Should the classes help to promote membership in our Club?

Officers & Board Candidates: Current volunteers (and the lack thereof for President/VP) were reviewed.

Meeting adjourned at 1910 hours. Submitted by *Dennis-WU6X, Club Secretary*

# SFARC General Meeting Minutes

## GENERAL MEETING MINUTES

Date: October 14th, 2011

The meeting commenced at 1930 hours at the Placer County Library in Auburn. Present were officers Al Martin-NI2U, President; Chuck Baker-AE6LR, VP; Dennis Gregory-WU6X, Secretary; Bob Balthorpe-KD6WTY, Treasurer; Directors Mary Ann Balthorpe-KE6EST and Jim Griffith-KI6AZH. Also present were, Richard Kuepper-WA6RWS, Sunshine Reporter and Carl Schultz-WF6J, PIO/Webmaster. Director Gary Cunningham-KQ6RT was absent.

Al led everyone in the Pledge of Allegiance. Officers, Directors, and approximately 25 members and guests were introduced. Al announced that we would have an abbreviated meeting due to the "White Elephant Auction" planned for the evening.

Past minutes – The September minutes were approved as published in the Newsletter.

Treasurer's report – Bob presented the Treasurer's Report. Balance on hand as of September 1<sup>st</sup> was \$1,621.77; bills paid totaled \$99.52; income received was \$712.00 (dues & donations); leaving a balance on hand of \$2,234.5. Income included 2 donations, a \$200 and a \$400; the \$400 would be put in the repeater fund.

VE report – Dave-NO6NO gave the VE report. Four examiners served 6 candidates took exams; one upgrade, all passed: 2 extra class, 2 generals, and 2 technicians.

Satellite report – Greg-KO6TH gave a report on the International Space Station passes for the weekend.

Sunshine Report – Richard-WA6RWS, no report.

Newsletter – Carl -WF6J, no report.

Repeater – Volunteers supported the Tevis Cup event using the Club repeater without issues, a very quiet event.

Old Business – The Bi-Laws will be published in the newsletter for the membership to review. The Board is also working on an "Awards" program to be reviewed in the near future.

New Business – We will be supporting a Cystic Fibrosis bicycling event this weekend; volunteers are needed. Start/finish will be at a winery on Wise Road. The ride includes both 32 and 65 mile routes. Other business, we are still looking for candidates for officer positions, specifically the President and Vice President.

Announcements – none

Tech-Ten – none.

Presentation – White Elephant Auction

The meeting adjourned at 1950 hours so a quick break could be had, and the Auction started.

Submitted by, Dennis – WU6X, Secretary

# SFARC WEB PAGE

Don't forget to visit our web page at <http://www.sf-arc.org/> for up to date information, advertisers that support our club and informative links related to amateur radio.

Carl Schultz, WF6J, Webmaster

SIERRA FOOTHILLS AMATEUR RADIO CLUB  
P.O. Box 1005  
Newcastle, CA 95658

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**Sierra Foothills Amateur Radio Club  
2011 Membership Application**

**Please Print**

Name: \_\_\_\_\_ Call: \_\_\_\_\_ Class: \_\_\_\_\_ e-mail: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Associate Name: \_\_\_\_\_ Call: \_\_\_\_\_ Class: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Application: (Circle One) New Renewal

Member Dues: Circle Amounts That Apply. Applications (for new members only) received in the middle of the year will be pro rated. Contact the President or Treasurer for exact rate.

Membership: (P)	\$22.00	Name Badge: (R)	\$7.00
Associate: (Q)	\$ 7.00	Repeater Donation: (S)	\$ _____
Auto Patch Donation: (T)	\$ _____	Newsletter Booster: (V)	\$ _____
Misc. Donation: (X)	\$ _____	Christmas Donation: (W)	\$ _____
<b>TOTAL: (Y)</b>		<b>\$ _____</b>	

OFFICE USE ONLY: DO NOT WRITE BELOW THIS LINE

Date: \_\_\_\_\_ Treasurer: \_\_\_\_\_ Secretary: \_\_\_\_\_ Roster: \_\_\_\_\_

Payment: \_\_\_\_\_ Check Number: \_\_\_\_\_ Cash: \_\_\_\_\_