



P.O. Box 6421 Auburn, CA 95604

March 2020

<http://w6ek.org> info@w6ek.org

At The Key of SFARC:

PRESIDENT

Brian Gohl, AI6US
AI6US@titaniumsattelite.com

VICE PRESIDENT

Greg Dolkas, KO6TH
ko6th.greg@gmail.com

SECRETARY

Michele Bauer, WH7QC
mickeybauer2012@gmail.com

TREASURER

Jeff Morgan, KM6RGO
jamontrail@gmail.com

DIRECTORS

Gerry Brentnall, WA6E
Nathan Chilton, K6NDC
Wayne Stilwell, W6DT

FIELD DAY CHAIRMAN

Gary Frerking, KC3PO

REPORTERS

Satellites: Greg, KO6TH
Sunshine: Richard, WA6RWS

GROUPS io

Dennis Gregory, WU6X

PIO

Scott Vogelsang, WA6YNE

REPEATERS

145.430 (-0.6 MHz/PL 162.2)
440.575 (+5.0 MHz/FUSION)
223.860 (-1.6 MHz/PL 110.9)

CLUB NET

Thursdays, 7:30PM, W6EK/R
145.430

CLUB MEETINGS

Second Friday of the month,
7:30PM at the Auburn City Hall,
1215 Lincoln Way, Auburn CA

CLUB BREAKFAST

Last Sat of the month at Mel's Diner
1730 Grass Valley Hwy, Auburn 7:30AM

NET CONTROL OPS

Dave Jenkins, WB6RBE
Casey McPartland, W7IB
Orion Endres, AI6JB
Al Martin, NI2U

NEWSLETTER EDITOR

Barbara Anderson, W6EVA
anderson51@wavecable.com

WEBMASTER: Herb Garcia, KM6JBI

VOLUNTEER EXAMINER

Al Martin, NI2U

Calendar of Events

March 13th:
Club Meeting

March 17th:
St. Patrick's Day



March 21st:
Hamfest

March 28th:
Club Breakfast

Inside this issue

- *President's Message*
- *First Time Configuring OpenSPOT2 w/FCS*
- *How the Nat. Bureau of Standards helped make "radio"*
- *Loomis Hamfest 2020 flyer*
- *Board & General Minutes*

**LOOMIS
HAMFEST
2020**

*See flyer for details
Page 7*

We encourage members to receive Sierra Signals via email to save the Club the cost of reproduction and mailing

Sierra Signals is published monthly by the Sierra Foothills Amateur Radio Club for the information of its members and friends, and is distributed via E-mail and USPS mail. Opinions expressed are those of the authors. Newsletter exchanges with other clubs via E-mail are welcomed. Contact the editor to be placed on the E-mailing list. The contents of Sierra Signals are copyrighted by the Sierra Foothills Amateur Radio Club, and all rights are reserved. That said, we will gladly permit replications for non-profit uses of all text material. Photos require the consent of all persons pictured in them, and some of our material is copyrighted by others and published by permission. You'll need to contact them for permission.



President's Message

*By Brian Gohl – AI6US,
President*

Hello Everyone!

Hamfest

The 6th Annual SFARC Hamfest at the historic Loomis Train Station is only weeks away. Saturday morning, March 21st @ 5am the set-up team gets the site ready with vendors arriving at 6am and the doors will open at 7am. The perfect weather has been ordered, drawing prizes are arriving daily and more and more members are volunteering to assist. The presentation is organized by Bob, K6UDA and will be a digital radio workshop focusing on the W6EK, K6IOK and KA6SUB C4FM repeaters. Bob will demo the new game changer, OpenSpot 3 with discussions on Pi-Star hotspots, rooms, reflectors and an overview on DMR, and D-star systems. Drawing prizes range from gift certificates to Yaesu FTM-100 and FT70DR radios and a Diamond X50a dual band antenna.

Vendor and buyer turnout has been very high in past years and continues to grow each year. Now it is time to clean out your shack, make a little cash and clear space for new hamfest purchases. Remember to get on the area repeaters, check into weekly nets and make QSTs announcing the Hamfest. Please download flyers from www.hamfest.weebly.com and post them in public places. We need **YOUR** help pull this event off! Please let Orion know that you are available to help out with parking, security, door prizes and the club table. ai6jb@arrl.net or call 916.534.8251.

Forty New HS Amateur Radio Operators?

SFARC member Chris Taylor, KN6CCC has submitted and been approved for club call sign KN6HUH for the CK McClatchy High School Amateur Radio Club in Sacramento. On the same day, Chris learned that the school district has approved funding for \$90k in radio gear and room build-out.

The current challenge is to coordinate the VE testing schedule for up to 40 high school students before the end of this school year! SFARC has offered our assistance in providing the VE testing and have also provided information on the W6PRL - Daniel Fogard Scholarship program. What an awesome opportunity to engage with high school students enrolled in Chris's class, which is focused on wireless public safety communications! If you are a VE and interested in supporting this testing challenge, please contact Andrew, K6OP.

Did I mention each student currently receives a FT-60R HT upon passing their license? A previous grant made this HT award possible! We look forward to working alongside Chris, his students and Elmering during future volunteer communications support events! Kudos to the CK McClatchy High School Amateur Radio Club!

W6EK Repeaters on Broadcastify

You can now listen to the W6EK repeaters online from anywhere in the world! Wonder what is happening on the W6EK 70cm Fusion test? Outside of the repeater coverage and want to listen to a net? Check out the archives and listen to saved recent traffic files.

Thank you to Craig, KM6LYW and Clyde, AB4CC for helping me with a project to stream the W6EK 2m FM and 70cm C4FM repeaters on the Broadcastify service. Listen online for free at <http://www.broadcastify.com/listen/ctid/213> . Many Android and iOS smartphone and tablet “scanner” apps get their streaming feeds from Broadcastify.

ARRL Field Day Planning

The ARRL Summer Field Day planning has started! The USFS use permit application for Blue Canyon Airport has been submitted and we will have our first planning meeting April 8th, 6pm at Mel's Diner in Auburn. Mark your calendar and I look forward to seeing you there!

Until we talk again... I've got you in the logbook!

73

Brian, A16US

President

A16US@titaniumsatellite.com



First Time Configuring OpenSPOT2 w/FCS

By Dennis Gregory WU6X

1. Plug-in the openSPOT2 and it should initialize in AP mode (WHITE flash) and open your browser
2. Open a browser window and type “openspot2.local” and press enter
3. Select the Country ... in this case USA, and initialization will complete
4. Next, select your wireless network and enter the wireless key. Note: both your phone or computer, and openSPOT2 MUST be connected to the same WiFi network

The openSPOT2 will connect to your wireless network and show “connected”

5. Next, enter the Device UID number from the bottom of the openSPOT2 and click Connect
6. Enter your callsign and your DMR ID if needed, then click SAVE
7. Next, select the type of radio you will talk to the openSPOT2 with. In this example, C4FM

8. Next, enter the UHF frequency you will communicate to the openSPOT2, for example, 433.200. Your radio should be set to the same frequency, simplex.

9. Select the network, FCS, YSF, BrandMeister, DMR, etc. This example will use FCS

10. Pick a server, for example, United States, then select the server address.

11. Next select the Talk Group (TG), for example, FCS00348 YouTubers and click Connect

The Status tab should now show Connected along with other information you've entered

12. Key the mic and ask for a signal report

Once you've confirmed the radio-to-openSPOT2 is working correctly, you can configure a YSF talk group, like America Link (YSF21080) or US Southwest Lake Havasu (YSF73102), even a local, Sacramento DMR (311416) link.

Lastly, if you like, you can setup a PROFILE for each connection, so you can quickly change between talk groups from the radio or a cell phone.



KB6NU's Ham Radio Blog

How the National Bureau of Standards helped make “radio”

By Dan Romanchik, KB6NU

This was originally published as “NIST’s Role in the Early Decades of Radio (1911-1933)” on the National Institute of Science and Technology’s blog, Taking Measure.....Dan

Even if you weren’t able to watch the recent Super Bowl on TV, you could still listen to the play-by-play commentary on the radio. But radio does more than just broadcasting sporting events or playing music. It plays a major role in emergency response, navigation and science.

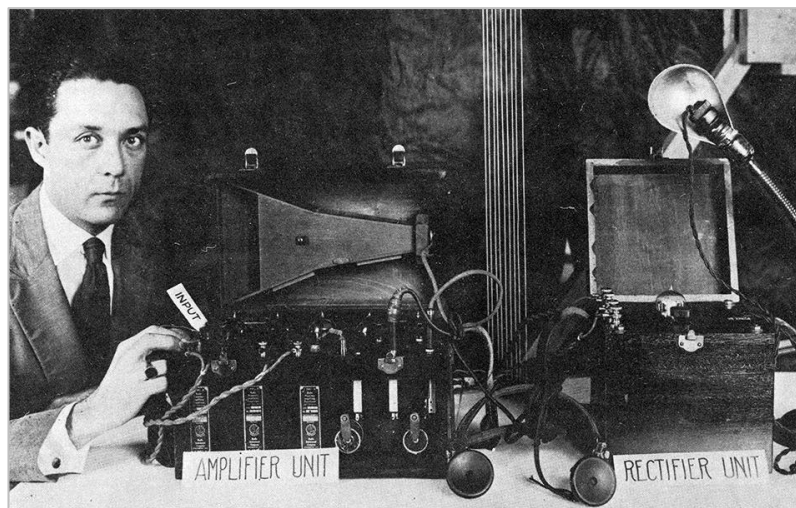
The word “radio,” however, didn’t become part of our regular vocabulary until 1911, and it happened thanks in part to J. Howard Dellinger, a radio scientist at the National Bureau of Standards (NBS), the agency that became the National Institute of Standards and Technology (NIST). This came about when the second International Radiotelegraph Conference was being planned in London, and a professor sent Dellinger a paper that he was going to present to the conference for review.

At the time, “wireless” was used as the term for radio communication, especially by the British. However, NIST was charged with revising standards in preparation for the conference, and Dellinger suggested that the professor use “radio,” which was already becoming a popular word in the U.S., instead of “wireless.” The professor agreed, and the word “radio” went on to become the universally accepted term.

Dellinger not only played a role in popularizing the word “radio,” but he also played a role in the first radio work done at NIST. A commercial company asked NIST to calibrate a wavemeter, a device developed by one of its engineers that measures electromagnetic waves like those of radio. Dellinger was known as the wireless expert and took on the project of calibrating the first radio instrument at NIST.

A New Type of Radio Receiver

But for radio to become mainstream, it first had to be commercialized, which began with its introduction into households. However, the challenge was building a radio set that used the electrical current, called alternating current (AC), which powered lights, fans and kitchen appliances when plugged into wall sockets. The predecessor to this technology was developed and patented by two researchers, Percival D. Lowell and Francis W. Dunmore, at NBS in 1922. They called their invention the “mousetrap.”



Percival Lowell with his patented radio set powered by alternating current. Credit: NIST

The “mousetrap” was a receiver for a radio amplifier that could run on AC. This was considered a breakthrough because at that time radios were only able to be powered by direct current (DC) provided by batteries. These batteries were bulky and heavy, had to be charged from time to time and were considered dangerous because of the acid used in them. The researchers’ prototype meant the radio could be used in homes without causing damage and with the same performance quality.

Lowell and Dunmore filed two more patents together for other innovations, and for the “mousetrap” they sold the rights to the Dubilier Condenser Corporation. Little did they know that, because there was no uniform policy on patents issued to government employees, their actions would result in more than a decade of litigation over who legally had the rights to the patent.

While they were tied up in court, the Radio Corporation of America (RCA) developed its own model of the AC radio in 1926. Its model later became the first AC-powered radio sold to consumers.

Flying by Radio

During the early years of flight navigation, NIST was doing research to assist pilots while they were flying and landing. Pilots needed three things to get their bearings when flying “blind,” meaning it’s foggy, too dark or too cloudy to see. They needed to know the longitudinal position, altitude and speed of the aircraft, which were all achieved by various beacons installed in the plane. The remaining issue was that there were two frequencies the pilot constantly had to switch between the frequency that the Department of Commerce used to send weather information to planes and ships, which sometimes caused interference for pilots, and the frequency the radio beacon operated on, which gave altitude and other information.

Dunmore created a prototype, but Harry Diamond, a radio engineer who joined NIST in 1927, completed the device, called the radio guidance system. Diamond solved the problem by developing a separate device that allowed for voice communication to the pilot without receiving any outside interference from ships’ radios.

A Curtiss Fledgling, a trainer aircraft developed for the U.S. Navy, was equipped with the device, and flight tests were performed between NIST’s experimental air station at College Park, Maryland, and Newark Airport in New Jersey in foggy weather. After a series of successful tests were performed, the device was turned over to be used by the Department of Commerce in 1933.

Praise from a Famous Inventor

While mostly intended for serious users, some of NIST’s journals and publications were popular with the public. One such book, titled *The Principles Underlying Radio Communication*, covered topics such as elementary electricity, radio circuits and electromagnetic waves and was also published as a textbook for soldiers in the U.S. Army. The famous inventor Thomas Edison received a copy from NIST and wrote a letter thanking the first director, Samuel W. Stratton, for publishing it, saying it was “the greatest book on this subject that I have ever read.”

As these and other examples show, NIST had a significant influence on radio research between 1911 and 1933. However, NIST’s radio work didn’t end with the first blind landing. NIST would continue to contribute to the field leading up to and during World War II, and research continues to this day in areas such as 5G, public safety communications and spectrum sharing.

ABOUT THE AUTHOR

Alex Boss is a general assignment writer in the NIST Public Affairs Office and covers standard reference materials (SRM). She has a B.S. in biology from Rhodes College and an M.A. in health and...



Sierra Foothills Amateur Radio Club's - W6EK.ORG

Loomis Hamfest 2020

Saturday, March 21st

First Swap of the Year - Rain or Shine

Historic Loomis Train Depot
5775 Horseshoe Bar Road, Downtown Loomis

6th Annual Loomis Hamfest
Meet & Greet Everyone - Visit
the ARRL Booth - Door Prizes
Hourly - Fusion, DStar, DMR
Workshop - Free Parking



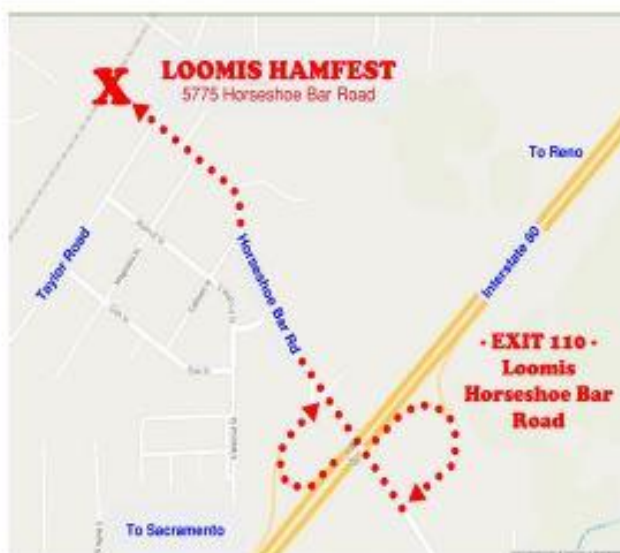
Elmer Tours - Test Bench - Hot
Coffee and Donuts - Taylor's
Lunch Deal - SFARC Club Table

Buyers 7 AM - Noon
Sellers 6 AM

Grand Prize @ 11 AM



SFARC is an ARRL Affiliated and Special Service Club. ARRL is the National Organization Representing Amateur Radio Operators. Stop by the ARRL Booth and visit with Dr. Carol Milazzo, KP4MD, Sacramento Valley Section Manager.



Talk-In - W6EK 145.430 PL 162.2 Hz - Talk-In



BOARD OF DIRECTORS MEETING MINUTES

February 14, 2020

The meeting was called to order at 18:00 by President, Brian/AI6US.

Treasurer, Jeff/KM6RGO motioned and Wayne/W6DT seconded in approval of the January 2020 minutes. Jeff reported that the usual bills, but PG&E gave a credit; therefore, it will be July or August before we have a PG&E bill again this year.

There are about 68% of our SFARC members that are also ARRL members which is good for our club service status, which requires a minimum of 51% membership participation.

Vice-President, Greg/KO6TH had no report at this time.

Secretary, Michele/WH7QC had no report at this time, except that on the sign-in roster a distinct Y or N as to who is a member of ARRL is essential to determining the membership status as the dashes often mean two different things and can be confusing as to who is a member and who is not. 😊

Director, Gerry/WA6E was absent.

Director, Nathan/K6NDC and Director, Wayne/W6DT had no reports at this time.

Repeater (Station Trustee), Clyde/AB4CC announced that our Repeater is still working. We have AllStarLink and Echolink on both inbound and outbound W6EK 2m repeater.

AI/NI2U was on the club net last week and appreciates the cards and phone calls.

ARES, Carl/N6CKV submitted an article to our February SFARC newsletter on the Yaesu FTM-400 used for Winlink.

Greeter/Sunshine, Richard/WA6RWS was absent.

Newsletter, Barbara/W6EVA was absent.

Webmaster, Herb/KM6JBI reported that he was seeking photos to put on our website.

Groups.io, Dennis/WU6X said that space on the site has been taken up with photos. We will lose older ones eventually, so there is a need for an archival back up folder. Jeff and Herb will research free archival on W6EK.org account.

Social Media Officer (SMO), Bob/K6UDA asked us to submit & post to Social Media: FB, Groups.io, Instagram via K6UDA.

Membership, Jeff/KM6RGO said we have Membership Application online with 94 renewed and 12 awaiting payment.

VE Exam, AI/NI2U (Assisting are Andrew/K6OP & Carl/N6CKV). Andrew/K6OP announced that at the VE Exam there were 2 candidates: 1 General & 1 Extra

Volunteer Events, Mike/KK6GLP announced that the STEM WJU is canceled and that we have 6 volunteers so far for CERA. So far, Mike has a list of six volunteers for the MS Walk in Folsom which is on April 26th and eight for the Crazy Miner CERA Enduro which is on May 3rd.

Contest Chair, Dennis/WU6X

Vice-President, Greg/KO6TH suggested that the Club have someone teach how to run an event for which Mike/KK6GLP volunteered.

Drawing Chair, Aaron/K6JBI was absent.

President Brian/AI6US suggested that at ½ time during the General meeting we all take the time to meet new folks—learn their name/s and call sign. Whoever does so may put their name in the “hat” for a special drawing.

Snack Bar, George/KG6LSB was absent.

Public Information Officer (PIO), Scott/WA6YNE: Hamfest/WFD/FD Promotion/Listing.

Digital Repeater, Bob/K6UDA recommends we move the Repeater to the Repeater Committee.

Nomination Committee is to be determined.

Club Christmas Party Chair is to be determined. Orion/AI6JBI has arranged the room with the Veteran’s Hall.

Field Day Chair is to be determined.

Picnic Chair volunteers: Roy/WH7DH & Michele/WH7QC and will probably be in September 2020.

Field Day is needing volunteers.

HAMfest Chair, Orion/AI6JB announced that we need Greeters, handling the vendor monies, vendors, “non-regular” vendors. State definition of “non-regular” vendors are tax exempt. The prizes will be: First Place, FTM-100DR mobile and Second Place, FT-70DR ht, and Third Place, a Diamond X50a antenna.

HAM Radio class is cancelled for the time being.

Guest attendee Roy/WH7DH asked: ‘What is a good starter kit for a beginner HAM?’ He has had newer HAMs and prospective HAMs ask him that question, being concerned with expenses.

A great suggestion was given to hold a “What now?” workshop at the Veteran’s Club for new operators.

Don Hay/WB6LPJ and Richard Lewis/K6NYC gave a financial review. Jeff/KM6RGO was highly commended for his meticulous organization and accounting skills! Well done Jeff! We are so fortunate to have you as our Treasurer! Thank you, Jeff, Don and Andrew for all your time and efforts!

Digital Repeater Day: Brian/AI6US suggests \$25 for coffee and donuts for the occasion. Jeff/KM6RGO said we can do that with the PG&E credit we now have. Nathan/K6NDC motioned for a \$25 budget for the coffee and donuts and Wayne/W6DT seconded the motion for the Digital Repeater Day refreshments.

Public Officer, Scott/WA6YNE announced that the annual HAMfest will again be held at the Loomis Historic Train Depot on March 21st starting at 11:00 am. He will print posters for the event and is coordinating PR with Orion/AI6JB.

MS Walk-Folsom Volunteers for April 26 with NET Control and 3 Stations:

Mike Perry/KK6GLP, Brian Gohl/AI6US, Gary Martinez/N6UWQ, Matt Pauley/KK6YMU, Andrew Silvester/K6OP, and Greg Dolkas/KO6TH.

Crazy Miner CERA Enduro Volunteers for May 3 with NET Control and 4 Stations:
Mike Perry/KK6GLP, Orion Endres/AI6JBI, Brian Gohl/AI6US, Greg Dolkas/KO6TH,
Matt Pauley/KK6YMU, Ed Morell/W6OSC, Mike Zachary and Gary Quigley/KM6ZCQ

Birton/N6UG, now a non-club member, has been covering the cost for the W6EK.net and dynamic domain subscription, which are used for Echolink, IRLP and AllStarLink for the repeaters. Greg/KO6TH motioned and Wayne/W6DT seconded the motion for SFARC to take over. The cost would be about \$20-30 yearly. Jeff/KM6RGO is to be in contact with Birton.

The Board meeting was adjourned at 19:00. Submitted by Michele J. Bauer WH7QC



GENERAL MEETING MINUTES

February 14, 2020

The welcome on this Valentine's Day was given by President Brian/AI6US who also led us in the Pledge of Allegiance.

Introductions were made. There were 42 members signed in with 4 guests/visitors. ARRL members signed in was 36.

The minutes from January 2020 General meeting minutes were approved.

Don Hay/WB6LPJ reported on our excellent financial records review. Both he and Richard Lewis/K6NYC were the reviewers. Thank you, Gentlemen for your time and efforts in this task!

Hooray for Jeff Morgan/KM6RGO whom the club is blessed to have as our wonderful, capable, meticulously organized club Treasurer! Three cheers for Jeff!

The SFARC Bi-laws are being reviewed and revised. Please let Tyghe/W6TJR know of any change you recommend.

HAMfest Chair, Orion/AI6JB announced that the annual HAMfest is March 21st at the Loomis Historic Train Depot. Set up will be at 5:00 am. Sellers are let in at 6:00 am so they can set up and be ready for buyers at 7:00 am. We need volunteers for lots of jobs. HAMfest is one of the club's major fund raisers.

President, Brian/AI6US announced the Digital Repeater Workshop that will be held on March 14 at 9:00 am at the Veteran's Hall in Auburn. It will be "hands on" and will last for up to 2 or 2-1/2 hours. Coffee and donuts will be provided.

Vice-President, Greg/KO6TH announced that this evening there will be two programs: Winter Field Day Review and a Fusion How to Guide.

Repeater (Station Trustee), Clyde/AB4CC announced that AllStarLink and Echostar are up and running.

Sunshine, Richard/WA6RWS gave his report regarding ill club members. Gary Cunningham/KQ6RT was in attendance—welcome back Gary!

VE Exam: Andrew/K6OP announced that there were 2 candidate upgrades, 1 to General and 1 to Extra.

Volunteer Events Chair, Mike/KK6GLP announced the MS Walk in Folsom and the CERA Fool's Gold Events.

Satellite Report: Greg/KO6TH reported about recent Cubesat "Tangle" in space and that there is a video of ISS grand tour from Europe.

Public Information Officer (PIO), Scott/WA6YN announced that there will be great weather for this upcoming HAMfest and we are getting good publicity.

Website Chair, Herb/KM6JBI announced that we need photos for the website. Dennis/Wu6x SUGGESTED THE SFARC Groups.io site has many files, photos, etc.

Groups.io and Contest Chair, Dennis/WU6X two contests coming: ARRL DX CW and North America RTTY.

Social Media Officer (SMO), Bob/K6UDA announced that the internet is running. Please email or text interesting photo to him for the club site.

ARES, Carl/N6CKV was absent. ARES check-in is every Sunday evening at 7:30.

Snack Bar Chair, George/KG6LSB announced that unless folks suggest otherwise, he will bring in the usual fare. Remember to donate! The proceeds go towards our end-of-the-year Christmas party!

Drawing Chair, Aaron/K6ABJ was not present.

Equipment Donations/Library Chair, Jim/WA8MPA announced that on the table were some free items, and on sale, for \$100, there was a SBE SBI-LA Linear Amplifier Unit (which sold later in the evening).

TEC-TEN

We had a wonderful Winter Field Day video/results presentation. Winter Field Day was held on January 24-25. Counted were 51 participants—28 members and 23 visitors. There were 8-RV campers. Three stations ran in 24 hours. A great campfire burned for many hours, until the rain kicked in. 😊

Orion/AI6JB gave a presentation on Winter Field Day. Why Winter Field Day? It is a great time to connect with other stations in a semi-competitive way. Our club finished in the top 10! We had 4 operation sets in the tent we set up and Bruce/K6BAA had his satellite set up outside.

Station 1 was our Primary SSB. Station 2 was our Secondary. Station 3 was our Digital, and Station 4 was our VHF/UHF. Roy/WH7DH and Michele/WH7QC set up their portable "go kit" outside the main tent. Gary/KC3PO arrived on Saturday and set up a 2m-1.2GHz station.

There were 18 operators over the weekend.

Qs by Station: SSB>203; CW/SSB>125; Digital>33; VHF/UHF>20.

We had a score of 21,808 (a difference of 8,176 over 2019 which was 13,632).

There were 381 contacts over the weekend, 24 logged in, 16 multipliers.

We received 6,000 total bonus points.

The next Winter Field Day is scheduled for January 30-31, 2021.

Announcements: There is an Elmer Net every Wednesday on W6EK. SFARC check-in every Thursday evening at 7:30 on W6EK. Club breakfast, at January 29 at Mel's Diner.

Next SFARC meeting on Friday, March 13, 2020.

SFARC Fusion System

Bob/K6UDA gave a presentation on the What, Where, How and Why of the Fusion System. Fusion can operate Digital, Analog or Mixed (Fusion). It has a 440.575 + 5 offset.

WIRES X-America's Link is the largest room on WIRES X. FCS & YSF are not WIRES X.

There is an upcoming "Hands-on" Fusion Workshop training on March 14 from 9-Noon at the Veteran's Memorial Hall in Auburn.

Calendar of Club Events

March 14-Fusion "Hands-on" Workshop, Veteran's Memorial Hall from 9-Noon.

March 21-HAMfest 2020. Chair, Orion/AI6JB

April 26-MS Walk, Folsom, CA. Chair, Mike/KK6GLP

May 3-CERA Enduro Weekend, Georgetown, CA. Chair, Mike/KK6GLP

June 26-28-ARRL Field Day at Blue Canyon Airport. Chair to be announced

June 27-28-Western States Endurance Run. Chair, Joe/K6SAT

August 20-Tevis Cup, Randy. Chair, Mike/KK6GLP

September-Club Picnic, date to be announced. Chairs, Roy/WH7DH & Michele/WH7QC

September 11-Club Officer Nominations. Chair to be announced.

October 9-White Elephant Auction. Chair, Bob/K6UDA

October-Mini Maker Faire, date to be announced. Chair, Mike/KK6GLP

October-Jamboree on the Air, date to be announced. Chair, Orion/AI6JB

December 12-Club Christmas Party-Confirmed-Insurance Binder. Chair to be announced

Announcements

Club Nets-Every Thursday at 7:30 pm (145.430, PL=162.2)

Elmer Net-Every 1st & 3rd Wednesday at 7:30 pm (145.430, PL=162.2)

Club Board Meeting-2nd Friday of the month, March 13th, 6:00 pm at Mel's Diner

Club Breakfast-February 29th at 7:30 am at Mel's Diner in Auburn

Club Meeting-March 13th at the Auburn City Hall Rose Room

The General Meeting adjourned at 21:29. Submitted by Michele J. Bauer WH7QC



Name: _____ Call: _____ Class: _____ e-mail: _____
Address: _____ City: _____ State: _____ Zip: _____
Associate Name: _____ Call: _____ Class: _____ email: _____
Phone: _____ Cellphone: _____ Application is: (New / Renewal) _____

Dues / Donations:

Membership: yearly*	\$22.00 or 20x	Name Badge:	\$ 10.00/15.00	Yes (special name)	_____
Associate: yearly*	\$ 7.00	Repeater Donation:	\$ _____		
Auto Patch Donation:	\$ _____	Newsletter Booster:	\$ _____		
Misc. Donation:	\$ _____	Christmas Donation:	\$ _____	ARRL member? (Yes/No/Life)	_____
TOTAL:			\$ _____	Please add \$1 if paying via PayPal	

*Prorated dues for NEW Members/Associates Only

July	\$ 20 /6	October	\$ 14/3 + following year	New - - New - New -
August	\$ 18/5	November	\$ 12/2+ following year	Multi-year DISCOUNT Membership
September	\$ 16/4	December	\$ 10/1 + following year	*\$20 per year for 2 or more years (new or renewal)

OFFICE USE ONLY:	DO NOT WRITE BELOW THIS LINE
Date: _____	Treasurer: _____
Secretary: _____	Roster: _____
Payment: _____	Check Number: _____
Cash: _____	PayPal: _____

Rev. 5-11-2018



Dennis H. Gregory
Instructor/Technician

MISSION CONTROL

Computer Repairs and Support
Reasonable rates, free consultation
Business License #114527

Phone: 530-305-0180 Email: yourmissioncontrol@att.net
Auburn, CA Web: www.yourmissioncontrol.com



Macintosh Computer Repair

2905 58th Street
Sacramento, CA 95817

916 862-6802
support@carlschultz.biz

Carl Schultz
Hardware, Software, Network, Tutoring

SACRAMENTO RADIO EXPO



Doug Wilner
916.769.5016

4343 Marconi Ave. Ste. #2
Sacramento, CA 95821

sacramentoradioexpo.com

Batteries + Bulbs

Ryan Tollefson
District Manager

8025 Greenback Lane • Citrus Heights, CA 95610
P 916-722-8800 • C 916-775-3030 • F 916-722-2489
rtollefson@batteriesplus.net • www.BatteriesPlus.com

Independently owned and operated Franchise.