



P.O. Box 6421 Auburn, CA 95604

**February 2020**

<http://w6ek.org> [info@w6ek.org](mailto:info@w6ek.org)

**At The Key of SFARC:**

**PRESIDENT**

Brian Gohl, AI6US  
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**VICE PRESIDENT**

Greg Dolkas, KO6TH  
[ko6th.greg@gmail.com](mailto:ko6th.greg@gmail.com)

**SECRETARY**

Michele Bauer, WH7QC  
[mickeybauer2012@gmail.com](mailto:mickeybauer2012@gmail.com)

**TREASURER**

Jeff Morgan, KM6RGO  
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**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](mailto:anderson51@wavecable.com)

**WEBMASTER:** Herb Garcia, KM6JBI

**VOLUNTEER EXAMINER**

Al Martin, NI2U

**Calendar of Events**

**February 2<sup>nd</sup>:**

*Groundhog Day*

**February 14<sup>th</sup>:**

*Club Meeting*

*aka*

*Valentine's Day*

**February 17<sup>th</sup>:**

*President's Day*

**February 29<sup>th</sup>:**

*Club Breakfast*

*aka*

*Leap Day*

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## President's Message

*By Brian Gohl – AI6US,  
President*

### **Action packed start to 2020!**

#### **Repeaters**

W6EK 440.575 +5 is a bee hive of activity with the recent activation of the Yaesu DR2-XR Fusion repeater with Wires-X node 52998 and often connected to the YouTubers room. The 70-cm Fusion repeater is also linked with the K6IOK 147.36 +.6 Fusion repeater in Rocklin, which provides excellent 2 meter coverage throughout the Sacramento Valley. It has been fun to ride along and stay in touch with local hams during their trips to Quartzsite, AZ. A BIG thanks to Scott, KK7AIR for the Yaesu equipment loan to the club and especially to Clyde, AB4CC for installing and continuing to add more and more features! I recently overheard a QSO that stated the obvious, "sure is good to hear all of the activity on the 440 pair raised from the dead!"

Craig, KM6LYW and Clyde have installed an AllStarLink Node on the W6EK 145.43 -.6 PL162.2 repeater and removed IRLP. AllStarLink is based on the Asterisk open source communications project and provides an excellent audio quality with minimal latency. Inbound and outbound connections to other AllStarLink repeaters and personal nodes can be made on the W6EK AllStarLink node 51018. Echolink has been moved to this system and the service now supports both inbound and outbound connections via Echolink node 4128. Repeater etiquette reminder: Before connecting to another node, be sure to announce on the W6EK repeater where you will be connecting and disconnect when you are done.

#### **Club Business**

Special thanks to Don, WB6LPJ and Richard, KM6NYC for completing the SFARC 2019 financial review. Don and Richard report that the books are in order with minimal corrections and compliment Jeff, KM6GO for doing an excellent job in keeping the club's records. They also verified that the PG&E PSPS outage rebate will cover the majority of the 2020 electric bills for the repeater vault!

Tyghe, W6TJR has volunteered to chair the 2020 SFARC By-Laws required leap-year review. Joining him in the review process will be committee members: Earl, K6GPB, Orion, AI6JB, Jim, WA8MPA, and Nathan, K6NDC. If you have any suggestions of changes or review to the By-Laws, please contact Tyghe before March 1<sup>st</sup>, 2020.

Thank you to Rich, AA6RS and Bob, K6UDA for volunteering for the newly formed AV Technician positions. Rich and Bob will lead in setting up and breaking down the PA, lighting and projection systems at each club meeting. I am certain that they would appreciate your assistance if you are able to arrive a few minutes early and stay a few minutes afterwards!

## Winter Field Day

A successful and fun Winter Field Day was hosted January 24-26 at the Georgetown, CA Airport campground. Operation at this beautiful location was made possible by Scott, KK7AIR through his contacts with El Dorado County. Scott also provided access road improvements and spent many hours with his team, "Ranch Hand" Jeff and Gary, KN6AVC prepping the area. Eighteen members and guests made quick work of both camp set-up and break-down. This included a large tarp with the social, operation and cooking canopies underneath, two 80-10m doublets, 160-10m inverted L endfed, hexbeam, 6m-1.2GHz yagi, 2m/70cm dipoles along with four HF and VHF/UHF stations.

Bruce, K6BAA demonstrated his recently completed portable dual axis tracker with 2/440m Arrow antenna, which he used to successfully log a 1500 point satellite exchange for WFD. Congrats Bruce for pulling off a rare satellite contact in tough and crowded contest conditions! You have got to see this automatic tracking rig in action! Hoping that we will see it again at the ARRL Summer Field Day?

Over the 2 ½ days we hosted 80 daily visits. Breaking this down, there were 51 unique attendees made up of 28 members and 23 guests and visitors! 17 members and guests operated stations and approximately 14 assisted with logging. Scott and Al, N6ADT both offered rides in their planes. The social tent and campfire were popular hang-outs from early morning until... well... the early morning hours! The potluck, pizza party, free breakfasts and the group sharing snacks table were delicious and much appreciated! A 1/2" of rainfall hit camp at 10pm Saturday night before wrapping up around 11am on Sunday. No radio gear got wet, but the canopies and tarps needed attention before storing away. A big thank you to the Village Center in Meadow Vista for allowing us to use the vacant library space to dry-out the gear!

Scores? Orion, AI6US, event co-chair reports that we made 281 contacts with 16 multipliers. The exchanges came from 90 CW, 268 Phone and 23 digital QSOs on 160 – 70cm. Our claimed score is 21,808, an impressive increase despite poor band conditions over last year's score of 13,632! An event overview and scoring break-down will be presented at the next club meeting on February 14<sup>th</sup>.

Many WFD event photos have been uploaded on the [Groups.io SFARC forum](#) and an awesome video created by Mike, KK6GLP is on the [SFARC Youtube channel](#). It took a big team of volunteers to make our Winter Field Day event happen and far too many to list, but I do want to especially thank one member Jim, WA8MPA for his equipment donations, hard work and leadership that he puts into our events. Please join me in thanking everyone who pitched in to make WFD such a huge success!

## Dues Are Due

Membership dues are due. A single year's membership is \$22. If you pay for 2 or more years, it is only \$20 per year. Please consider a donation to the repeater fund or to help with additional club expenses. Thanks to the website development by Herb, KM6JBI, you may now simply complete the [online membership application](#) and pay via PayPal. If you prefer to pay by cash or check, print a copy of the application and send it to Jeff, KM6RGO or bring it with you to the February 14th meeting. Thank you!

## Hamfest 2020, Saturday, March 21, 2020, Historic Loomis Train Depot

Mark your calendars for the first Hamfest of the year on Saturday, March 21st, 2020, at the Historic Loomis Train Depot in Loomis, CA. We need the assistance of every SFARC member to put together this annual event and to spread the word. Please check out Orion's article and let him know if you are available to help [ai6jb@arrl.net](mailto:ai6jb@arrl.net)

Thank you for your endless energy and support for our club. I am excited to be a part of Sierra Foothills ARC and look forward to the upcoming activities and events in 2020!

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

73

Brian, AI6US

President

[AI6US@titaniumsatellite.com](mailto:AI6US@titaniumsatellite.com)



See posted photos of Winter Field Day on [groups.io](https://groups.io)

## Loomis Hamfest 2020 is Just Around the Corner

*By Orion Endres, AI6JB*

The SFARC 6<sup>th</sup> Annual Loomis Hamfest is just around the corner on Saturday, March 21<sup>st</sup>, 2020. Sellers are invited to show-up at 6:00 AM with Buyers arriving at 7:00 AM. Check out our website for additional information.

This is an all hands on deck event for our Club! In addition to being a service to the amateur radio community, the Loomis Hamfest is a significant fundraiser. Please block-out the time on your calendars to help out.

How can you help, you ask? Visit radio nets in our area and announce our Hamfest. Do you have sellable equipment (3 items max) for the Club Table or do you want to donate stuff, please contact Jim, WA8MPA.

The Setup/Tear-Down crew lead by George, KG6LSB, and Chip, KM6MFD, need able bodied folks to perform these vital tasks.

Bruce, K6BAA, is leading the security team again this year. The team helps vendors get situated, and greet visitors.

The Parking Crew headed by Carl, N6CKV, needs folks to help buyers to the nearest parking spot.

We need Elmer's to show people around the Hamfest.

If any of these jobs peak your interest, please let me know and we'll sign you up.

This year, Bob, K6UDA, and Jeff, AK6OK, will be conducting a digital communication presentation and workshop. The presentation will cover the basics of digital mode communications, i.e. Fusion, DStar, and DMR. The workshop will have Elmers available to help participants to program their Fusion, DSTAR, DMR radios and setup Wires-X nodes.

We will have the usual SFARC Hamfest staples: Club Table, Drawings, Coffee and Donuts, Elmer Tours, ARRL Booth, Talk-In Station, and the Test Bench will be returning.

I look forward to seeing all of you there and toward another fabulous Hamfest!! And remember, IT HAS NEVER RAINED ON LOOMIS HAMFEST! We may have experienced heavy dew in the past.

Hope to hear you on the air!

73

**Orion Endres, AI6JB**

[AI6JB@arrl.net](mailto:AI6JB@arrl.net)

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



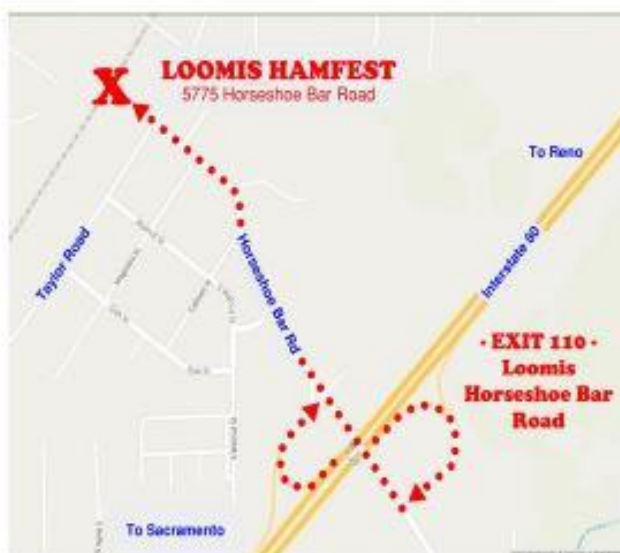
Elmer Tours - Test Bench - Hot  
Coffee and Donuts - Taylor's  
Lunch Deal - SFARC Club Table

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

## Yaesu FTM 400XDR, Kantronics KPC 3+ nad WinLink

By Carl First, N6CKV

For the holidays I bought myself Yaesu FTM 400 XDR and a Kantronics KPC 3+ USB, in addition I also bought a Yaesu CT-167 Data Cable to connect the two.

The first step is to make the cable between the FTM \$\$ and the KPC. The KPC 3+ includes a DB-9 connector. Only 4 wires need to be soldered to the DB-9.

The connector is soldered as follows:

Brown wire to Pin 1

Red wire to Pin 3

Yellow wire to Pin 5

Ground (Shield) to Pin 6

Once the soldering is done connect the cable between the FTM 400 Data Port and the DB-9 connector on the KPC 3+.

Now it is time to set up the FTM 400 for doing data. The directions can be found starting on page 164 of the FTM 400 Operating Manual.

In step 6 of the directions chose the default of 9600

In steps 7 and 8 for the Data Band Select I chose B-BAND FIX so I could do data on VFO B while keeping VFO A on Fusion set to the club's repeater.

In step 12 Data Speed I chose the default of 1200

That is all that is needed for the configuration of the FTM 400.

The WinLink settings should be set as shown, chose the Serial Port that is correct for your system.

In Windows 10 use the Device Manager to find the correct COM Port. The Port will be listed under the "Ports (COM & LPT) entry that says "USB Serial Port." In my case it was COM12. The WinLink settings should look like (with the exception of the Serial Port):

Packet Winlink/P2P Setup

TNC Connection

Packet TNC Type: Kantronics

Packet TNC Model: KAM+ Serial Port: COM12

Autoconnect time: 15 Minutes Serial Port Baud: 9600

Packet sound modem:  Browse

Automatically launch packet sound modem

TNC Parameters

1200 Baud  9600 Baud

TX Delay (Milliseconds): 400 300

Maximum Packet Length: 128 255

Maximum Frames: 4 7

Frack: 2 2

Persistence: 160 224

Slot time: 30 20

Maximum Retries: 5 5

Disable Xmit Level Adjust  Transmit Level: 100 100

Update Cancel



## BOARD OF DIRECTORS MEETING MINUTES

### January 10, 2020

The January 2020 SFARC Board meeting commenced at 1800 hours at Mel's Diner in Auburn.

**Roll Call:** Officers and directors present: Brian Gohl/AI6US (President), Greg Dolkas/KO6TH (Vice President), Jeffrey Morgan/KM6RGO (Treasurer), Wayne Stilwell/W6DT (Director), and Nathan Chilton/K6NDC (Director). Board members absent: Michele Bauer/WH7QC (Secretary) and Gerry Brentnall/WA6E (Director). Guests present: Dennis Gregory/WU6X, Mike Perry/KK6GLP, Clyde Campbell/AB4CC, Orion Endres/AI6JB, and Herb Garcia/KM6JBI. Mike KK6GLP performed Secretary duties (minutes and attendance roll) for the Board of Director and General meetings.

#### REPORTS and DISCUSSIONS

**President's Report:** Brian AI6US submitted the agenda. Jeff KM6RGO motioned that the November minutes be approved. Greg KO6TH seconded. Board passed the motion. Brian asked for officer, director, and committee chair reports.

**Vice President's Report:** Greg KO6TH explained today's General Meeting programs.

**Secretary's Report:** Michele WH7QC absent.

**Treasurer's Report:** Jeff KM6RGO provided the 2019 Budget. He said the 2019 budget was exceeded, but income was enough for the Club to have a net 2019 gain.

**Director's Reports:** No reports. Gerry WA6E was not present. Brian AI6US introduced the new directors Wayne W6DT and Nathan K6NDC.

#### Committee Chair Reports:

**Repeater:** Clyde AB4CC said: 1) The Fusion repeater is online and being tested; 2) The Western States Endurance Run wants to use our UHF repeater for their event this year. They will tell us of their needs at today's General Meeting.

**Greeter/Sunshine:** Brian AI6US gave an update on Club members suffering from illness.

**Newsletter:** Brian AI6US stated that the latest Newsletter was published and distributed.

**Webmaster:** Herb KM6JBI asked the board to advise him of anything needed on the website.

**Groups.io:** Dennis WU6X said he is doing maintenance on the site - deleting unneeded photos and creating subgroups.

**Social Media Officer:** Brian AI6US said that Bob Brodovsky/K6UDA asks that people keep posting items.

**Membership:** Jeff KM6RGO reported: 1) 54 members for 2020, with more applications coming in; 2) PayPal on our website is experiencing some problems - asked that Herb KM6JBI look into it; 3) Discussed the costs associated with different payment methods. Brian AI6US said this issue would be moved to New Business at today's board meeting.



**VE Exam:** Brian AI6US reported that Andrew Silvester/K6OP will work with Carl First/N6CKV on the exams.

**Volunteer Events:** Mike KK6GLP reported: 1) The Placer County STEM Expo, normally held in March, has been cancelled for 2020. Dr. Milazzo/KP4MD, ARRL Sacramento Valley Section Manager, is looking into whether ARRL will sponsor a booth at the regional STEM event, date and location to be determined; 2) There are no local events in 2020 for the Diabetes Tour de Cure or the Cystic Fibrosis Cycle for Life, which we have supported in past years; 3) Our next event is the MS Walk in Folsom on April 26.

**Contest Chair:** Dennis WU6X announced upcoming events, including Winter Field Day.

**Drawing Chair:** No report.

**Refreshments:** No report.

**Public Information Officer:** Brian AI6US said our Hamfest information has been submitted to ARRL. Also, our website needs to be updated with Hamfest information.

**Digital Repeater:** Brian AI6US said that since the digital repeater is on line, the Digital Repeater Chair duties should be moved to the Repeater Committee.

**Other Chairs:** Brian AI6US said that volunteers are needed for Nomination Committee, Club Christmas Party Chair, Field Day Chair, and Picnic Chair. Orion AI6JB said that since this is a leap year, we need to review the Club By Laws. Brian will seek volunteers for this.

**CALENDAR OF CLUB EVENTS:** Brian AI6US went over upcoming events. Orion AI6JB discussed Winter Field Day and Hamfest.

## OLD BUSINESS

**Club Officer Duties Description:** Brian AI6US asked new board members to review their duties with their predecessors.

**SFARC Ham Class:** Clyde AB4CC said he will follow up on this. Dennis WU6X added that he conducts a slow speed CW class on 7.035 each Thursday at 1900 hours.

**Reserve Vet Hall for 2020 Christmas Party:** Orion AI6JB said the site has yet to confirm our 2020 reservation. Will follow up.

## NEW BUSINESS

**Approve 2020 Club Budget:** Jeff KM6RGO presented the 2020 Proposed Budget. The board discussed it and made revisions. Wayne W6DT motioned that the amended 2020 budget be approved. Nathan K6NDC seconded. Board passed the motion.

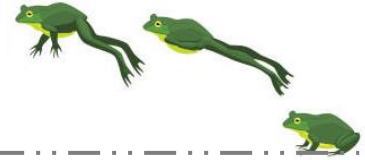
**Approve Annual Financial Auditors:** Brian AI6US said that Club members Don Hay/WB6LPJ and Richard Lewis/K6NYC agreed to conduct the annual financial review. Greg KO6TH motioned to accept them. Wayne W6DT seconded. Board passed the motion.

**Web Hosting and Two Domains:** Brian AI6US said discussion on this would be postponed to a future meeting.

**AV Tech Position:** Brian AI6US said he would ask for volunteers at the General meeting. This position will set up audio and visual equipment for the General meetings.

**Absorb Processing Cost:** The board discussed the Club absorbing the transaction fees of membership payments made other than with cash or check (i.e. PayPal, credit card), starting with 2021 Club dues. Jeff KM6RGO motioned that this be done. Greg KO6TH seconded. Board passed the motion.

Meeting adjourned at 1900. Submitted by Mike Perry KK6GLP.



## GENERAL MEETING MINUTES

### January 10, 2020

The SFARC General meeting for January 2020 commenced at 1930 hours at the Auburn City Hall Rose Room, with President Brian Gohl/AI6US presiding. Officers present were Brian AI6US (President), Greg Dolkas/KO6TH (Vice President), and Jeff Morgan/KM6RGO (Treasurer). Michele Bauer/WH7QC (Secretary) was absent. Mike Perry/KK6GLP took minutes in her absence. Directors present were Wayne Stilwell/W6DT and Nathan Chilton/K6NDC. Gerry Brentnall/WA6E was absent. The sign-up sheet reflected 42 attendees: 37 members and 5 visitors or guests. Brian led the group in reciting the Pledge of Allegiance to the flag. Then followed an introduction of officers, directors, members, and visitors/guests.

#### CLUB BUSINESS

**November 2019 Minutes:** Bob Brodovsky/K6UDA motioned that the November 2019 Minutes be approved. Clyde Campbell/AB4CC seconded. Motion approved.

**Board Meeting Update - 2020 Club Budget:** Brian AI6US discussed the 2020 Club Budget (Amended). Peter Wittenberg/K2LRC motioned that the amended budget be accepted. Bob Wold/K6ZLY seconded. Motion approved.

**New Business:** Brian AI6US announced: 1) The Board approved Don Hay/WB6LPJ and Richard Lewis/K6NYC to conduct the annual financial audit; 2) The Board approved that the Club will absorb surcharges for payment methods other than cash or check (i.e. PayPal, credit card) for Club dues starting in 2021; 3) Need for volunteers to help with audio visual duties. These people volunteered: Rich Snyder/AA6RS (Primary) and Bob K6UDA (Alternate).

Brian recognized Orion Endres/AI6JB for his four terms of service (2015 - 2019) to the Club as President. He presented Orion with a Certificate of Appreciation and a comical hat with a propeller (Orion is a pilot).

Brian recognized Dustin Yue/W6YUE for his service as a Club director in 2019.

#### COMMITTEE CHAIR REPORTS

**Repeater (Station Trustee):** Clyde Campbell/AB4CC said the digital repeater is active, and there will be a February presentation on it. Bob K6UDA gave a demonstration of Fusion/WiresX.

**Greeter /Sunshine:** Richard Kuepper/WA6RWS provided updates on Al Martin/NI2U, Gary Cunningham/KQ6RT, and Sam Frasier/KB6SQT.

**Newsletter:** Bruce Anderson/K6BAA asked members to submit articles and items.

**VE Exam:** Carl First/N6CKV said three people at the last session earned Technician licenses.

**Volunteer Events:** Mike KK6GLP reported that the STEM Expo, normally held each March at William Jessup University, has been cancelled.

**Website:** Herb Garcia/KM6JBI said the website is working fine.

**Groups.io Site:** Dennis Gregory/WU6X encouraged people to sign up to the site.

**Contest Chair:** Dennis WU6X discussed upcoming contests.

**Social Media Officer:** Bob K6UDA asked members to keep posting Club photos to the Club's Instagram site, and post items to the Club's Facebook page.

**Membership:** Jeff KM6RGO said the club has 54 members, with more signing up for 2020, several at today's meeting.

**Refreshments:** George Simmons/KG6LSB discussed refreshments.

**Drawings:** Aaron Jones/K6ABJ discussed items on the table.

**Other:** Brian AI6US said he wanted to fill these positions: 1) Nomination Committee Chair and Members; 2) Christmas Party Chair; 3) Summer Field Day Chair; 4) Picnic Chair; and 5) Club By Laws Review Committee Chair and Members. These people volunteered for the By Laws Committee: Earl Wilson/K6GPB, Orion AI6JB, Jim Jupin/WA8MPA, and Nathan K6NDC.

## **CLUB EVENTS**

Brian AI6US announced the sign up form for Winter Field Day. Orion AI6JB said Hamfest will be held March 21, and a planning meeting is coming up. Joe Steinmetz/K6SAT discussed Western States Endurance Run, and provided fliers.

**TEC TEN:** Greg KO6TH said that during the break Club members would display the ham radio items Santa brought them.

**OTHER:** Jim WA8MPA discussed: 1) The Lending Library; 2) The Freebie Table (manuals, equipment); 3) A Tempo 2020 radio and C-1180 cable donated to the Club by Silent Key Cal Stokes/WA6BLW, through his son Larry Merrill/N6XOB. The Club will sell these items.

**ANNOUNCEMENTS:** Brian AI6US provided information on nets and meetings.

**PROGRAM:** Greg KO6TH introduced Alan Thompson/W6WN, who gave an interesting talk titled Radio for the Rest of Us.

**REMINDERS:** Brian AI6US provided reminders on Winter Field Day and the February meeting.

The meeting adjourned at 2135. Submitted by Mike Perry/KK6GLP.

**SIERRA Foothills Amateur Radio Club**

P.O. Box 6421, Auburn, CA 95604

**2020 MEMBERSHIP APPLICATION**

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

**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

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**SACRAMENTO RADIO EXPO**



**Doug Wilner**  
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