



P.O. Box 6421 Auburn, CA 95604

May 2020

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

At The Key of SFARC:

PRESIDENT

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AI6US@titaniumsattelite.com

VICE PRESIDENT

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DIRECTORS

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

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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

May 8th:

On-line Club Meeting
 @ 7:30 PM

*(Instructions on how to
 join the meeting are in
 Brian's column)*

May 25th:



*Join us every morning starting
 at 7:30am for the Coffee Break
 Net on the W6EK repeater
 145.43, PL 162.2*



Inside this issue

- *President's Message*
- *A modest proposal (for the next Extra Class question pool)*
- *Board Meeting Minutes*
- *General Meeting Minutes*

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

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President's Message

*By Brian Gohl – AI6US,
President*

Hello and welcome to another Blursday! I found that this description for yet another “Ground Hog” day, sheltering in place due to Covid-19 to be quite accurate. While the days may blur together, many of our club members are taking this off-time to build kits, rework the shack, buy new gear, put up new antennas and spend much more time on the air. Cycle 25 is showing signs of life as the sunspots continue to tease us and the bands have been very active as the dust gets brushed off of unused gear and nets experience record check-ins. Unexpectedly, there has been an incredible run on new radios with many popular items now showing out of stock and on back-order! Interesting times! Locating a new IC-7300 or FTM-100 is almost as rare as seeing a TP package at Costco!

Amateur Radio Exams

As AI, NI2U temporarily steps back from his outstanding leadership as our club VEC, Andrew, K6OP has accepted the position of the SFARC ARRL Volunteer Exam Coordinator. Andrew has been quite busy developing new protocols for implementing the online and electronic testing. Andrew and the VE team are targeting the June 6th Amateur Exam session for limited electronic testing by appointment only. We are excited to see this progress and I know that many folks are anxious to have SFARC testing available once again. Please contact Andrew for space availability if you would like to be part of these inaugural exams.

Club Meetings

SFARC had a very successful first online club meeting in April with over 65 in attendance. While we were limited to viewing a maximum of 25 cameras at a time, it was great to see and hear you participating in addressing the club business and enjoying an excellent presentation by Greg, KO6TH on digital radio modes. Clyde, AB4CC reviewed the repeater failure, the committee's equipment purchase recommendation and requested membership approval on the expenditure. Joe, K6SAT presented SFARC with the Western States Endurance Run Foundation's generous repeater fund donation of \$1000. The repeater equipment purchase reimbursement was unanimously approved. The social hour after the end of the meeting was a ton of fun!

Join us on May 8th at 7:30pm for our next online club meeting. The tech ten segment will be a short presentation on Amateur Astronomy by Greg, KO6TH and the main presentation will be by Jef, N5JEF on Near Vertical Incidence Skywave (NVIS) propagation. Be sure to hang around afterwards and chat with friends or maybe even take a virtual tour of a member's station.

We want to make sure that all members and guests are comfortable with joining the meeting and are able to participate. If you have any questions about how to use GoTo Meeting, please contact any of SFARC board members and we will arrange assistance. Please be sure that your name and call sign are correctly displayed when you log in so we will have an accurate record of attending members.

Click on this link to join our meeting from your computer, tablet or smartphone:

<https://global.gotomeeting.com/join/423173365>

You can also view the meeting online and dial in using your phone to vote.

(872) 240-3212 then enter this access code when prompted: **423-173-365**

or

One-Touch Telephone: **+18722403212,,423173365#**

Field Day Planning

Due to the fluidity required for event planning around the Covid-19 uncertainties, we have decided to make Field Day 2020 on June 27th and 28th an interactive club activity. Each of us will independently participate in the event, follow the ARRL event rules to gather the most points for operation, modes and bonuses. The Field Day committee will be coming up with a list of prizes that we will award for Field Day participation (best station decoration, best portable set-up, best BBQ, most points, most contacts, distant contact, etc), offer social online activities and a method to share logs for those with a competitive streak. We will go over the plans and details at the June club meeting. Fire up the generator, get out the batteries and solar panels, set-up the pop-up and ready to operate portable from your backyard, a remote location or even from your air conditioned shack.

Repeater Upgrades

The W6EK 2 meter repeater now has Wires-X connectivity via the W6EK-2M-Room. This means that you can now connect via your 2 meter FM radio to any mixed mode or analog Wires-X node or repeater using DTMF tones. Yes, someone on the W6EK 440 digital Fusion repeater can talk with someone on the W6EK 2m analog and vice versa! A repeater page is being prepared for the W6EK.org website. This page will be active within the month and explain how to use the different features of the 2m and 70cm repeaters.

W6EK Coffee Break Net

The Coffee break Net continues to grow. Join us every morning from 7:30 to 10am on the W6EK repeater 145.43, PL 162.2. You never know who will drop by and what subject will be discussed. A fun way to start your day! Put down that coffee cup, pick up the microphone and say Good Morning!

Looking forward to talking with you again, a little further down the logbook!

Until then,

73

Brian Gohl – AI6US

SFARC President

KB6NU's Ham Radio Blog

A modest proposal (for the next Extra Class question pool)

By Dan Romanchik, KB6NU

At our last club meeting, I was discussing the changes to the Extra Class question pool with someone, and the topic of memorizing the answers popped up. As I always do, I mentioned that many of the questions you can only get right by memorizing the answer. At that point, someone down the way piped up. "Not me," he said, "I studied the material so that I didn't have to memorize the answers."



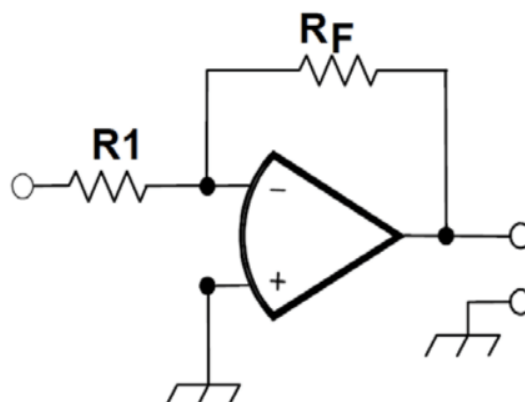
At that point, the president called the meeting to order, so I didn't get to challenge him on that point, but that statement is just plain wrong. First of all, it's true that some questions you can only get right by memorizing the answer. Almost all of the rules questions are that way, for example.

Secondly, there is no way to study the rest of the material in any depth and still have time to actually be an amateur radio operator. The amount of material that the Extra Class question pool covers take an electrical engineering student four years or more to study thoroughly. And even then, some topics are bound to get short shrift.

So, we're back to memorizing. I would say that even an "engaged" person will memorize about half the answers. I'd go even further and say that those that "study" the technical topics, don't study it as thoroughly as a college student would.

For example, there are a dozen questions in Section E7G – Active filters and op-amp circuits: active audio filters; characteristics; basic circuit design; operational amplifiers. Despite the name, you don't need to know how to design or build an op-amp filter. **All you really need to know is that op-amps are high gain devices and if you have a circuit like the one shown below, $V_{out}/V_{in} = R_F/R_1$.**

Figure E7-3



These concepts are relatively easy to learn. but there are also two questions on filter “ringing.” Honestly, you’re better off just memorizing the answers to those questions unless you have a real interest in active filters that use op amps. Wading into the mathematics isn’t all that hard, but when you consider this is only one of dozens of topics, you can see where doing any kind of in-depth study is going to take you months, if not years, to accomplish.

A modest proposal

The end result of this approach to testing is that we have many Extra Class licensees who know about a lot of things, but not in very much depth. Perhaps that’s OK. Perhaps that’s just what the question pool committee of the National Council of Volunteer Examiner Coordinators (NCVEC) was shooting for. If, however, we want an Extra Class license to denote that the licensee has some real technical expertise, I have a modest proposal.

Basically, my idea is that instead of testing on an incredibly wide range of topics, we test applicants on a set of basics, plus one or two particular topics. These would be topics that the person has expertise in already or enough of an interest in to study the topic in some depth. **Below are the topics that I would consider to be basic and some that I consider to be more specialized.** This is, of course, not an extensive list.

- Basic questions (20 questions, everyone takes this part of the exam)
 - Safety
 - Rules and regulations
 - Electrical principles/basic circuits
- Technical Interests (Choose two, 20 questions each)
 - Antennas and transmission lines
 - Radio wave propagation
 - EMI/RFI
 - Analog and digital design
 - Digital communications and networking
 - Software/software-defined radio
 - Operating: contests, DXing, direction finding, etc.
 - VHF/UHF

The questions in each of the technical interest question pools would be designed to really test the knowledge of the person taking the test. We’d have to figure out a way to make them difficult enough so that one couldn’t just simply memorize the answer. Questions could appear in one or more technical interest test. For example, a question on VHF/UHF propagation could appear in both the Radio Wave Propagation and VHF/UHF question pools.

Having said all this, I realize that this would not be easy to implement. You’d have to first decide on the topics and then enlist experts for each of the topics and get them to come up with a list of 80 – 100 questions each. I realize that this has very little chance of being adopted, but it’s interesting to think about, no? And, we have four years to do this, so it could be possible.

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Dan Romanchik, KB6NU, is the author of the KB6NU amateur radio blog (KB6NU.Com), the “No Nonsense” amateur radio license study guides (KB6NU.Com/study-guides/), and often appears on the ICQPodcast (icqpodcast.com). When he's not thinking up ways to make the lives of the NCVEC question pool committee more difficult, he likes to build stuff and operate CW on the HF bands.



BOARD OF DIRECTORS MEETING MINUTES

Video Conference “Go to Meeting”

April 10, 2020 @ 1800

Officers in attendance:

President - Brian/AI6US, Vice-president - Greg/KO6TH, Treasurer - Jeff/KM6RGO,
Secretary - Michele/WH7QC, Directors: Gerry/WA6E, Nathan/K6NDC, and Wayne/W6DT.

Attendees

Jerry/W6GU, Andrew/K6P, Dennis/WU6X, Mike/N6MRP, Glenn/KM6RGO, Clyde/AB4CC, Roy/WH7DH,
Carl/N6CKV, Peter/WB6POT, Erik/W6EMR, Bob/N6EMS, Gary/KC3PO, Bob/K6UDA, Bill/KM6LNR,
Mike/KK6RXY, Steven/KK6YXC, Stuart/AK6XR, Orion/AI6JB.

Roll call was done and afterwards the March 25 minutes were accepted as submitted.

Reports

Repeater: Clyde/AB4CC announced that the Repeater is open.

Sunshine: Richard/WA6RWS was not present; however, it was reported that AI/NI2U was in good spirits.
Should be back home soon from Auburn Oaks. A card was sent on behalf of the Club.

Carl/N6CKV talked to Peter/ K2LRC who recently broke his hip. A card was sent on behalf of the Club.

Rich/AA6RS is on the road to recovery from his ski injury and doing more each day.

Newsletter: Barbara/W6EVA always does a great job!

Website: Herb/KM6JBI was not present

Groups.io: Dennis/WU6X reported that the site is running out of room and he has been painstakingly busy organizing and archiving. Photos take the bulk of the space and the older files and photos will get auto deleted once the site is too full. Getting items off Groups.io is very tedious. Nathan/K6NDC offered to help download if he can. Dennis mentioned Premium storage for a \$20 per monthly fee or a \$220 yearly fee the Club could possibly look into.

Membership: Jeff/KM6RGO reported that we have now 110 members in our Club! There was 104 + 6 more recently added.

VE Exams: Andrew/K6OP announced that due to COVID-19, Raley's closed their conference center until further notice so we cannot use that space for exams. Some ideas rolled around were that perhaps exams could be done in a parking lot with test takers putting their electronics, etc. in glove compartments and then take their test in their autos. Volunteers could wear masks and gloves and use Ziploc bags for the tests. Pushpins could be put into laminated test templates.

Volunteer events: Mike/K6MRP announced that all volunteer events through July have been cancelled. The Tevis Cup is scheduled for August 1st, but the committee is still reviewing that.

Contest: Dennis/WU6X reported that there is nothing for April.

Drawing chair: Aaron/K6JBI not present / no drawing.

Snack bar: George/KG6LSB not present / no snack bar
 Public Information Officer (PIO): Scott/WA6YNE not present
 Nomination: Herb/KM6JBI not present

Club Christmas Party chair: TBD but party set for December 12, 2020

Field Day Committee: Orion/AI6JB reported that maybe Field Day will not happen due to COVID-19. A possible Plan B: Should we try it electronically? We could send pictures of portable kits and so forth...

Picnic chairs: Roy/WH7DH and Michele/WH7QC reported that the annual picnic is set for September 19 at the Applegate Park next to the Applegate library. The Club will provide the BBQ and the rest it was suggested we do deli dishes from one of our local grocer's.

New Business

By-laws: Gerry/WA6E and Nathan/K6NDC reported it is coming along.

A big thanks to Gerry for prepping the repeater lease letter and update. The policy will be changed from 30 days to 180 days-notice in case the Club needed to leave--in order to allow time to collect our equipment and move out.

Greg/KO6TH reported a request to remove YouTube club main presentation video by Bill/K6KN from March 2018.

For tonight's General Meeting, we are hoping for a "quorum" in order to be able to vote on necessary business items. Gerry/WA6E and Jeff/KM6RGO will check for the needed 21/22 attendees at the general meeting.

KUDOS go out to Brian/AI6US for handling our "coffee break" net every weekday morning! It has been a great success! Don Hay/WP6LPJ will be net control on Wednesdays and Orion/AI6JB on Saturday's Thank you, Brian, Don and Orion!

The Board meeting was adjourned at 18:52. Submitted by Michele Bauer/WH7QC, Secretary



GENERAL MEETING MINUTES

Video Conference "Go to Meeting"

April 10, 2020

Board members in attendance

President - Brian/AI6US, Vice-president - Greg/KO6TH, Treasurer - Jeff/KM6RGO,
 Secretary - Michele/WH7QC, Directors: Gerry/WA6E, Nathan/K6NDC, and Wayne/W6DT.

Members in attendance

Roy/WH7DH, Bill/KM6LNR, Bob/K6UDA, Chris/KN6CCC, Clyde/AB4CC, Dennis/WU6X, Don/WB6LPJ, Ed/W6OSC, Erik/W6EMR, Gary/KC3PO, Gary/KB7WC, Glenn/KM6RGQ, Herb/KM6JBI, Jef/N6JEF, Jerry/W6GU, Ken/K6KEC, Mike/N6MRP, Carl/N6CKV, Peter/WB6POT, Steven/KK6YXC, Stuart/AK6XR, Earl/N6GPB, George/KG6LSB, Fred/WA4VXW, Jim/WA8MPA, Jim/KQ6VP, Phil/KM6NFS, Joe/K6SAT, Darrell/?, Rich/AA6RS, Marv/N7MSM, Chip/KM6MDF, Mike/AJ6OI, Bob/KF6CXC, Richard/WA6RWS, Erez/KM6TVV, Gary/KN6AC, Ken/KA6SUB.

Guests in attendance

Carol Malazzo/KP4MD, ARRL Sacramento Valley Section Manager
 Robby/KE0TIL from Missouri
 Bill McKenzie/W6BKM
 Dan/KK6WCG
 Chris Campbell/XYL
 Michelle Hay/XYL
 Rachel Dolkas

The General meeting was opened with the Pledge of Allegiance, led by our club president, Brian/AI6US. The board members were then introduced.

Treasurer, Jeff/KM6RGO reported that the “bad news” is there isn’t much income. The “good news” is that there aren’t many expenses. 😊

Membership chair: Jeff/KM6RGO announced that we have nine new members: Antonio/KK6ITI, Tim/KJ6CVH, Mike/AJ6OI, Tom/KN6AUA, Bill/W6BKM, Peter/KD6QZH, Dan/KK6WCG, Erik/W6EMR, and Sal/K6SAL.

Secretary, Michele/WH7QC did not have a report.

Gerry/WA6E reported that tonight we have a quorum! That is very good news when it comes time for setting motions and voting.

Nathan/K6NDC reported that he is enjoying the morning “Coffee Break Net”, which is handled by Brian/AI6US. Thank you so much Brian! The morning net has been a nice break with all the “sheltering in place” going on these past several weeks!

Director, Wayne/W6DT had no report.

Don/WB6LPJ and Michelle Hay were recent Princess Grand Cruise Ship passengers gave a brief report on their experiences. They were among approximately 150 people quarantined. They were treated well both on the ship as well as the Travis Air Force Base. One thing they learned through their experiences was the realization of them being responsible for their own health. DO NOT rely on other people and guard yourself. And YES, they would go on a cruise again! We are happy Don and Michelle stayed safe and healthy through their ordeal!

Jeff/KM6RGO and Gerry/WA6E announced that at tonight’s “Go to Meeting” we had a double quorum in attendance! This is very important for items needing to be voted upon.

Bob/K6UDA motioned and Carl/N6CKV seconded for the club to accept the February minutes.

VE Testing: Bill/KM6LNR volunteered to help Andrew/K6OP with exams. Thank you, Andrew and Bill! VE testing is tentatively scheduled for May 2.

Volunteer events: Mike/KN6MRP announced that that all volunteer events through July have been cancelled. The Tevis Cup is scheduled for August 1st; however, that is also being reviewed. Many events have been bumped up to October 2020.

Satellite: Greg/KO6TH announced that the Chinese XW2D came back to life for a few seconds—on/off. Otherwise things have been pretty quiet for satellites.

Public Information Officer (PIO): Scott/WA6YNE was not present.

Website: Herb/KM6JBI reported that the site is still running and to send pictures of your radio shack. 😊

Groups.io: Dennis/WU6X reported that the site is close to maxing out of our free space, mostly because of pictures starting from 2011. Nathan/K6NDC volunteered to help Dennis organize and archive files and pictures as it is a monumental task. Thank you, Dennis and Nathan!

Contests: Dennis/WU6X reported that there are no contests for April.

Drawing chair: Aaron/K6JBI not present-no drawing.

Snack bar: George/KG6LSB present, shelter in place snacks 😊

Social Media Officer (SMO): Bob/K6UDA asked club members to please send pictures to post.

ARES: Carl/N6CKV announced an “at home” emergency exercise scheduled for Saturday, April 25 from 10-noon. He has been sending out information via email for members.

Equipment Donations/Library: Jim/WA8MPA reported that there is a MFJ meter to use and a fair amount of equipment donated on behalf of “silent keys”.

Field Day: Orion/AI6JB reported that the Field Day which was to be held up in Blue Canyon will occur in a very unusual way--from Home. According to ARRL rules, we can work as a club event from our individual homes. Prizes are being considered for such things as: best mobile/portable station, funniest costumes, whatever the committee comes up with. Orion will have an online scoreboard system. We may have to submit individual scores to ARRL, rather than as a club and with the online scoreboard. It is possible we could have a few club members meet together in one home (no more than 6), but we will see what the official order is at that time. Orion added, “We want to make it fun!”

Our guest, Carol/KP4MD said that Field Days are also regarded as emergencies and the COVID-19 is clearly an emergency situation.

Rob/KM6YKX asked if we could sell or buy the W6EK patches. Some of us also feel that is a good idea. 😊

Orion added that directives/training will be sent out as to how to participate and submit scores. Perhaps a TECTEN, 10-minute technical training? Orion lastly added that perhaps this June event will end up being cancelled, but we will see.

Thanks to Gerry/WA6E for prepping the repeater lease, cover letter and for keeping us updated. He reported that the letter will be submitted when business is open to continue with the repeater lease.

By-laws: Gerry/WA6E and the Bi-laws review committee (Nathan/K6NDC, Tyghe/W6TJR, Earl/K6GPB, Orion/AI6JB, & Jim/WA8MPA) have been revising the club Bi-laws to update with the times. Thank you, to the Bi-laws committee!

Repeater (Station Trustee): Clyde/AB4CC reported that we have had some challenges with it being about 27 years old (1972-93)—a bit outdated—and the back-up failed as well. The Repeater committee held an emergency meeting. They looked at Echolink and Allstar. Bob/K6UDA loaned a DR-1X.

Joe Steinmetz/K6SAT with the Western States Endurance Run Foundation donated to the SFARC, \$1,000 toward a new club W6EK Repeater! When Joe heard about the Repeater failure, he was the first to respond. Many thanks to Joe and WSER!!

The approximate cost of the new Repeater came to \$3,000 which the SFARC Board of Directors unanimously voted to spend, especially considering the generous donation from the Western States Club. Club president, Brian/AI6US initially purchased the Repeater for the club in order to allow the community volunteers communication events to continue functioning as necessary. The Board also unanimously voted to reimburse Brian. We now have a W6EK Repeater replacement/upgrade: Two Yaesu DR-2X Repeaters—with one being a spare!

The SFARC Club would like to thank those responsible for keeping the W6EK Repeater going: Brian/AI6US, Orion/AI6JB, Clyde/AB4CC, Bob/K6UDA, Scott/KK7AIR, Ken/KA6SUB, Jim/WA8MPA, Jeff/AK6OK, Jef/N5JEF.

The 220 Mhz Repeater needs upgrading. The Repeater committee is considering some sort of digital system.

Clyde motioned to reimburse for the repeater equipment purchase up to \$3000 and Carl/N6CKV seconded. The club voting was unanimous.

Program

Presentation on Digital Modes

“The Other Shoe”

D-Star, DMR, and the Rest

by Greg Dolkas/KO6TH

Greg spent much time on his very interesting and informative power-point presentation, and he exudes much enthusiasm! ☺ First, Greg gave a brief recap of February’s talk given by Bob/K6UDA.

Presentation

Back to Basics—What is Digital Voice?

(Like listening to streaming audio, but through the radio. Voice to Digital is called Codec)

D-Star Overview (D-Star is short for “Digital Smart Technologies for Amateur Radio”),

D-Star Configuration, Getting on D-Star, DMR Overview (Digital Mobile Radio),

DMR Configuration, Getting on DMR, Other Digital Voice Modes, Repeaters, Decoders, & Rooms, and General Resources.

Greg’s presentation will be posted onto Groups.io in the near future. Thank you, Greg!

Sunshine: Richard/WA6RWS

Update on AI/N12U seems in good spirits. He has been in Auburn Oaks the past few weeks, but hopefully back home by May 1st.

Peter/K2LRC suffered a serious fall, but is doing well, at home and receiving physical therapy and using a wheelchair.

Rich/AA6RS is recovering from a ski accident where he broke his leg, vertebrae and sternum. It was great to have Rich was in attendance at the meeting tonight!

Calendar of Club Events

6/26-28/20 ARRL Field Day-Club Centeric

Chair: TBD

6/27-28/20 Western States Endurance Run-cancelled

Chair: Joe/K6SAT

8/1/20 Tevis Cup-Evaluating

Chair: Mike/N6MRP

9/19/20 Club Picnic-Commercial deli supplemented

Chairs: WH7DH & WH7QC

9/11/20 Club Officer Nominations

Chair: Herb/KM6JBI

10/3/20 Cera Crazy Miner Enduro, Georgetown

Chair: Mike/N6MRP

10/4/20 Cera Fools Gold Enduro, Georgetown

Chair: Mike/N6MRP

10/9/20 White Elephant Auction

Chair: Bob/K6UDA

10/ /20 Mini Maker Faire

Chair: Mike/N6MRP

10/17/20 Jamboree On the Air

Chair: Orion/AI6JB

12/12/20 Club Christmas Party

Chair: TBD

The General meeting adjourned at 21:30. Submitted by Michele J. Bauer, Secretary



April Showers
Bring May Flowers



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
 August \$ 18/5
 September \$ 16/4

October \$ 14/3 + following year
 November \$ 12/2+ following year
 December \$ 10/1 + following year

New - - New - New -
 Multi-year DISCOUNT Membership
 *\$20 per year for 2 or more years (new or renewal)

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DO NOT WRITE BELOW THIS LINE

Date: _____ Treasurer: _____ Secretary: _____ Roster: _____

Payment: _____ Check Number: _____ Cash: _____ PayPal: _____

Rev. 5-11-2018



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