



Next up on Zoom  
*(get link on BIARC ListServe)*

Saturday, December 11  
Noon: BIARC Board meeting  
2 p.m.: Membership gathering

# December 2021 Newsletter

## Big Island Amateur Radio Club

### License prep classes offered

★ **Doug Wilson, KH7DQ**, will be conducting Ham Radio Technician License Preparation Classes via Zoom starting on January 15.

The classes will be held at 6:30 p.m., and run about an hour. They are designed to enable you to take the Amateur Radio Technician exam (\$15).

There is no charge for the classes and they are open to CERTs, Neighborhood Watch, VOAD, responders, and other interested folks.

To enroll, or for more information, please contact Doug directly at: [douscelle@aol.com](mailto:douscelle@aol.com)

★ **Steve Kawamae, KH6WG**, has announced his schedule for 2022 Amateur Radio classes. He has been teaching classes for three years, most recently over Zoom.

In 2022 there will be one General and three Technician classes based on the ARRL license manual. Classes consist of 2-hour lessons held at 6 p.m. on five consecutive Mondays. For more details see, <http://hameducation.org/2022/Classes/>

Class sizes are limited so anyone interested should sign up early to reserve a place.

★ PH21XMAS will be a special Merry Christmas 2021 operation, conducted jointly by Radio Scouting, PI4RS, and Plusscouts, PA3EFR/J, from various locations in the Netherlands. PH21XMAS will be on the air December 6 - January 3, and PH22HNY will be on the air December 10 - January 31. Operation will be on SSB and digital modes.





### Pepeekeo repeater is getting some much-needed TLC

Photos courtesy of WH6GEM

### Use temporarily limited to emergencies

On Sunday, Nov. 21, BIARC Vice President Jim Huntley, WH6FQI, posted a directive on the club Listserve site calling for "emergency use only" of the Pepeekeo repeater.

"The air conditioners in the building have failed and the equipment is overheating. Until the AC is repaired by the broadcaster, we need to limit use to prevent damage. Thank you in advance for your help," he said.

The previous Sunday, Nov 14, a work crew from BIARC had made the trip up to the repeater, only to meet a changed lock on the entry gate. While there, Jimmy Love, WH6GEM, chainsawed and used his brush cutter machine to knock down brush and grass along both sides of the circular drive. And on Nov. 21, President William Polhemus, NH6ET, drove up to replace the repeater.

"There still is no A/C to the container. But Bob Schneider, AH6J, donated one, and Jim Tatar, WH6EMN, is loaning one," reported Jimmy. "Both are smaller than what was in there. So William and I, — and whoever else wants to help, would be great — will re-frame the holes with 2x4's, and cover it with new plywood, then install the air conditioners." The work will be done on either the first or second Friday in December, dependent on weather.

"After we do the modifications and install the air conditioners, the 880 repeater will be returned to normal service," said Jimmy.

Others involved in the Pepeekeo support crew have included Joe Rosenbaum, WH6FZH; Roy Kunishige, KH6KU (formerly WH6FYK); Gerald Kita, WH6GOG, and Glenn Yazaki, WH6GPG.



WH6GEM



## Section Manager Speroni offers great idea for a holiday gift

*Aloha,*

Here's hoping you had a great Thanksgiving feast with family and friends and are looking forward to the upcoming holidays.

Here's an idea for a "present" leading up to Christmas. Why not help someone get their Amateur Radio license or even get yourself an upgrade that can justify Santa dropping off a station upgrade under your tree.

The team on Oahu has been conducting Amateur exams via ZOOM since the start of the Covid-19 restrictions in early 2020. Our hats off to Steve Kawamae (KH6WG), Joe Tabrah (now AH6T) who have carried the brunt of the almost 100 test sessions for just over 300 candidates. Many other Hawaii hams have assisted when additional VEs were needed - Alan Maenchen (AD6E/KH6TU), Jim Sugg (AH6AE), Bev Yeun (AH6NF) and Jim Yeun (WH6GS), to name a few. The team has even had VE support from Guam (Shane, AH2EJ), California (Larry, KI6LNB) and New Jersey (John, NU3E).

With the added \$35 FCC application fee beginning in early 2022 (total of \$50 when the \$15 VEC fee is added), now is a good time to have candidates sit the exam. There are three exams planned in December - Saturday the 4th, 11th and 18th.

Candidates can register at <http://hameducation.org/register>

Please pass the word onto others. It is an opportunity when there are few in-person testing opportunities in Hawaii and the Pacific Section.

Best regards for a Merry Christmas and a great Ham Radio 2022.

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**ARRL Pacific Section**  
**Section Manager: Joseph Speroni, AH0A**  
**[ah0a@arrl.org](mailto:ah0a@arrl.org)**

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## Hawaii DXers asked to take survey aimed at changing rules for isle hams working ARRL contests

*Aloha!*

Over the years as Section Manager (SM), I've frequently got the question "How can Hawaii stations operate in the ARRL DX contests as a state so we can work DX". The short answer is "we can't" under current ARRL contest rules. Some ideas for proposed rule changes have been rejected outright as unworkable. But the question keeps coming back.

Another possible workable suggestion recently came to our attention.

One avid contester suggested that the only justification for a rule change would be if it would increase the number of Hawaii stations operating in the contests. Thus, this survey to see what the effect might be.

The requested rule change is documented in a PDF. It has not been submitted to the ARRL Contest Activity Committee (CAC) and won't be unless there is wide interest and no major objections.

[https://HawaiiARRL.info/stories/2021/Contest Rule Changes.pdf](https://HawaiiARRL.info/stories/2021/Contest%20Rule%20Changes.pdf)

The short version is, "this rule change would allow Hawaii stations to choose how they want to operate". Operate as a W/VE station by prefixing their Hawaiian call with W/. Or operate as a DX station by continuing to identify with their Hawaii call sign. For example, under these suggested revised rules:

**KH6TU, WH6ABC, KH6ABC and WH7ABC would be DX stations working only W/VE stations**  
**W/AD6E, W/AH0A, W/WH6ABC, W/KH6ABC and W/NH7ABC would operate as W/VE stations working only DX stations.**

If contesting and DX'ing is one of your interests, please take a few minutes to fill out this survey and let us know what you think.

<https://forms.gle/eubrmJyzoQZBriD99>

The results will be published along with the section decision on requesting a rule change for Hawaii Amateurs operating in ARRL DX contests.

To be realistic, any request will take time to be adequately reviewed to understand unintended consequences affecting other participating stations.

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**ARRL Pacific Section**  
**Section Manager: Joseph Speroni, AH0A**  
**[ah0a@arrl.org](mailto:ah0a@arrl.org)**

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# ***Ten tips for new contesters and those with modest stations***

*Former ARRL Headquarters employee turned ham radio retailer John "Bee" Bartscherer, N1GNV, considers himself a casual contester with a 100 W transceiver and a wire antenna.*

*As the fall and winter contest season begins, he shared 10 operating tips for new contesters and those with modest stations.*

**1. Read the contest rules.** Know which bands are in play, your entry category, and the contest exchange.

**2. Use a logging program.** Quite a few options are out there. Bee's personal choice is N1MM Logger+. It's free, has an amazing array of features, and it's updated regularly. Most current logging software will interface with just about any modern HF radio.

**3. More operating time means more contacts.** Get rid of any distractions, such as texting, TV, and email, and concentrate on making contacts. However, Bee does suggest taking breaks. For 5 minutes each hour, get up, stretch, hydrate, and get some fresh air.

**4. Set achievable goals.** If you're not an experienced contester with a well-equipped station (yet), it's not likely that you'll win a contest. Instead of trying to win, aim to beat your score from last year's contest, try to work DXCC in a weekend, or try to outscore fellow club members.

**5. Study propagation forecasts.** Get a sense of what bands are likely to be open to areas you want to work and when. This will help you come up with a basic operating strategy. Band openings can occur at any time, so if you're operating in a category that allows it, keep an eye on the DX cluster to find out when a DX station is on the air.

**6. Don't waste time in pileups.** Early on in a contest, don't waste a lot of time trying to break

the pileup. Try a call or two, but if you don't succeed, move on and try again later.

**7. Work multipliers.** Most contests include multipliers in their scoring system, which can help to boost your score. Typically, you multiply your contact points by the number of multipliers (Sections, states, DXCC entities, grid squares) to determine your total score.

**8. Know your radio's knobs.** Familiarize yourself with your radio's front-panel controls, as well as any functions that may be hidden in a menu. Just about every radio has an attenuator, preamplifier, RF gain control, noise blanker, and, frequently, noise reduction. Most will also include an IF shift or passband tuning. Try turning off the preamplifier and turning on some attenuation. This may seem counterintuitive, but if a station sounds loud, chances are you're also loud to them. Reducing RF gain can also knock down strong, close-in interference, so you can hear (and contact) weaker stations that may be drowned out by stronger ones.

**9. Use standard phonetics.** Cute phonetics might be okay to use on your local repeater, but in a contest, other stations will be listening for standard phonetics. Even though phonetics can vary, it's important to be consistent.

**10. Listen before calling.** Make sure you correctly copy the other station's call sign and exchange, which you can enter in your log while waiting in line (this is especially valuable during the ARRL November Sweepstakes, where the exchange is more than a simple signal report). Listen to the other operator's pattern (saying "QRZ?" after each contact, for example). Make sure you're transmitting when the other station is listening.

*-- Adapted from*

*The ARRL Contest Update*

President's Annual Report  
Big Island Amateur Radio Club

Prepared by William Polhemus

November 11, 2021

Much as 2020 was, 2021 have been a challenge for a social club, such as the Big Island Amateur Club. The continued effects of the COVID pandemic have certainly suppressed the social side of things. Without meaningful opportunities for socialization and enrichment I feared coming into 2021 that the club would weaken; members would choose to not renew, and the club would functionally change. To my pleasure, my fears were completely unfounded.

Early in 2021 it did appear as if the membership was in decline. However, by mid-year, the numbers showed that this was not the case. I credit this to the deep love for the hobby which has brought us all together being so prevalent in the membership. A sense of community is oft quoted to me as a reason for being a member. Others cite a love for the public service aspects of our activity. Some credit the educational nature and information sharing as their draw. This mix seems to be the magic recipe.

It is still completely unknown when we will be able to resume in-person meetings. We have adapted well to virtual meetings, such as on Zoom. However, some of us are restless. Activities such as Field Day, Grid Madness, and the repeater work parties have helped. However, antenna build days and a holiday party sure would be nice. Options are being explored for in-person events. However, every option that a member has explored had resulted in a closed door.

A venue for in-person events is a high priority for the club at this point. So I call upon the members of the club to assist in any way possible. If you are connected to an entity who has a potential venue – a place of worship, a subdivision community center, a private employer – please, explore the possibility for us. If your in-laws are on vacation, and you want to let us use their house...

The BIARC executive board has been kept busy by the six committees. These six committees are really where the rubber meets the road. Sure, the Executive Board is running the routine business of the club, but it's the committees which get stuff done. If you do Don't recall, the six standing committees are:

- Public Service Communications:
  - The Public Service Communications Committee is the BIARC liaison to our local, state, and federal Agencies and BIARC. They interface with these agencies, and other community groups and individuals and makes recommendations to the Executive Board regarding activities pertaining to public services provided by the club. This committee has a strong focus on emergency management.
  - Chaired by Tony Kitchen – WH6DVI
- Operating Activities:

- The Operating Activities Committee seeks input from the club membership regarding operating activities that may be sponsored by the club. The committee helps in coordinating these activities, such as Field Day, and special projects.
- Chaired by Roy Kunishige – WH6PYK
- Programs Committee:
  - The Programs Committee has the hard job of bringing you interesting presentations each month. This Committee are really the unsung heroes of our monthly enrichment as amateur service operators. This committee never receives enough support, or thanks from the community. Without them our monthly meeting would last about five minutes.
  - Chaired by Jim Huntly – WH6FQJ
- Digital Systems Committee:
  - The Digital Systems Committee is responsible for maintaining all non-repeater digital equipment, including digital voice and data, owned by the club. This committee works hand in hand with the Voice Repeaters Committee, helping to divide the infrastructure support work into manageable workflows.
  - Chaired by Jim Huntly – WH6FQJ
- Voice Repeaters Committee:
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  - Chaired by me, William Polhemus – NH6ET
- Education and Outreach Committee:
  - The Education and Outreach Committee is responsible for coordinating VEC assess to our community, as may be needed. Additionally, they have a strong focus on establishing relationships with local education agencies in order to provide resources for study related to the amateur service. This committee also manages BIARC's public facing resources, such as our online presence, and media relations.
  - Chaired by Les Hittner – K8BAD

Each of the club chairs has a report about their club's progress and actions throughout the year. I'll leave it to them to give you details. Each of these committees has several additional members. But there is always more room in each committee if steering the activities of the club in one of these areas interests you. I encourage each and every one of you to consider joining a committee. It will help the club grow, and it will help you grow as an amateur operator.

The hobby is in a decline. We all know the struggle the amateur service has had in appearing relevant to the younger generations. Amateur radio organizations the world around remain befuddled as to how to stem the loss of interest. BIARC is no exception. The club board, and several of the committees have discussed at length how to revitalize interest in the hobby locally. The recent balloon launch and tracking, conducted as a joint program with several participating schools, was a great success. It garnered more interest than previous balloon launches. The successful outreach was not unnoticed, and events of this type – not just balloon launches – are being explored for their outreach potential. But we

need more than a single trick in our bag. Recruitment into the hobby remains a high priority, yet an unmet goal.

The state of the club is good. We certainly have room to improve in the new normal of distance social events, as we move toward a hybrid model where we can combine on-line virtual events with one or more in-person venues. However, we haven't dwindled while confined to virtual only sessions. Recruitment into the amateur service remains difficult. And it is difficult to tell at this point if the new normal is helping or hurting our efforts. However, there is always room to improve in recruitment. And the club committees and executive board are making good strides.

William Polhemus – NH6ET  
President  
Big Island Amateur Radio Club

# Combined BIARC Executive Board Secretary and Education and Outreach Committee Report

November 13, 2021

This is a comprehensive report of my activities as both Executive Board Secretary and Chair of the Education and Outreach Committee.

## Executive Board Secretary

I have continued to write meeting minutes primarily from the recordings of the Zoom sessions of the Executive Board meetings. In fact, I was even able to write a set of minutes for a meeting that I was unable to attend. I believe that even when we are able to again resume live in-person meetings, it would be wise to record these meetings. I found as Secretary that I have been able to more actively participate in these meetings when I did not have to record in writing and in real-time what was happening. I would certainly encourage future Executive Board Secretaries to do the same – and to merely make notes during the meeting of key items to watch for in the recordings.

Since keeping video copies of these meetings takes a lot of space in the club's Dropbox account, I have decided to transfer only the audio portions to Dropbox. I will pass entire video copies of Zoom Executive Board meetings to future secretaries on a USB drive or by other means.

I really look forward to resuming in-person Executive Board Meetings.

## Education and Outreach Committee

The Education and Outreach Committee has been engaged in a number of behind-the-scenes activities throughout the year.

1. **Media Coverage (Hawaii Tribune-Herald)** – Three members of the Executive Board met with reporters from the Hawaii Tribune-Herald in August. The article being prepared was to discuss the role of Amateur Radio in Public Service and Emergency Communications on Hawaii Island. This article was to serve as a follow-up on an earlier article (“Hamming It Up”) that discussed contest operation of ham radio enthusiasts. That article has not yet been published.
2. **Media Coverage (Civil Beat)** – Two members of the Executive Board met with a reporter from Hawaii Civil Beat, who also interviewed members of Hawaii County Civil Defense Agency. These Zoom meetings occurred the week of November 8-12. The reporter asked questions about many aspects of Amateur Radio Emergency Communications and how hams hope to work with government and non-government agencies during emergencies. We hope to see this article published in Civil Beat soon.
3. **BIARC Lending Library** – The BIARC Lending Library continues to grow. Doug Wilson has completed a transport table for the library that can be folded to fit into a car trunk or SUV back end. With adequate security locks the entire library could be contained on the table and safely stored at a meeting location (when in-person meetings can be resumed).

An index of the Lending Library contents will be included on the new BIARC website so that members can determine if reference books they are looking for can be checked out of the BIARC library.

Until in-person meetings are resumed, once-a-month Saturday morning checkout options will be made available in Hilo starting in January 2022.

New books are being added to the BIARC Lending Library nearly every month. If you wish to donate books, please contact me (k0bad@arrl.net).

4. **License Classes** – Technician Class License courses are being offered by Doug Wilson via Zoom. Please watch the BIARC website for details and dates. Remote testing opportunities are also announced and conducted as a part of these courses.

Mahalo Nui,

*Leslie D. Hittner*  
Leslie Hittner

Annual Report  
Voice Repeaters Committee  
Big Island Amateur Radio Club

Prepared by William Polhemus, Committee Chair

November 11, 2021

2021 committee members:

- William Polhemus, Chair, NH6ET
- Paul Ducasse, Station Trustee, WH7BR
- Gary Schwiter, WH6EPS
- Alan Okinawa, KH6ATU

The Big Island Amateur Radio Club's Voice Repeaters Committee respectfully submits this summarization of or activities to the General Membership of the club. This year, as seems to be typical, was not as productive as the committee desired; however, large strides were made on several large projects. The existing club infrastructure has experienced very little downtime in the past year, with the bulk of the outage hours occurring only this last week with the failure of our Pepeekeo repeater.

The linked repeater project is ongoing. The network elements have been purchased, and work parties will soon be scheduled for the installation of the microwave radios to connect the Pepeekeo site to the Kulani Cone site. This involved getting permission for sever site owners, and a significant amount of systems engineering and planning. There are several additional planned phases to this project. Once this first phase is in place, we will be able to work on the next phase. The second phase is the one which consists of two subtending hub repeaters – one in Naalehu and one on the slope of Mauna Kea, high above Laupahoehoe. This will allow an operator to begin a QSO while driving in Discovery harbor and be able to continue talking all the way through the Kau, Puna, South Hilo, North Hilo and Hamakua districts.

We had hoped to complete phase 1 of this project by the end of the year. However, our Committee Chair forgot that special hardware is needed to attach anything to the very large Kulani tower legs. This hardware has to be special ordered, and will delay the project at least another month. However, the phase 2 goal remains to have that work completed by mid 2022.

The C4FM project, being led by committee guest and subject matter expert Les Hittner (KOBAD,) is moving along nicely. The new microwave radio link from Pepeekeo to Kulani Cone will allow us to link the installed Yaesu C4FM repeater on Kulani Cone to the rest of the Yaesu C4FM repeaters, which are in the process of being rolled out. The replacement of the Pepeekeo 2M FM repeater will allow the Yaesu C4FM capable repeater currently use there to be re-deployed as a C4FM repeater. The club has also re-deployed the Mauna Loa repeater as C4FM capable, through the YSF reflectors on the Pi-Star platform.

Additional projects are underway, such as a repeater installation for our friends at the Hawaii County Civil Defense Agency, and the building of a set of portable repeaters, including a cross band repeater. These portable repeaters will allow rapid deployment for not only planned events, but also in emergencies.

This past year we were able to support our partners with a work party at the Kulani Cone repeater site. This has helped to solidify out position as a partner to the site owner. We were happy top help, and I am thankful to those who lent a hand. That successful work party went very well, and did not go unnoticed by our peers. It is this type of effort which will continue to open doors for us to be able to home repeaters in ideal locations. Thank you again to those who helped.

We can never move as fast as we want. And we always bit off more than we can chew. But the progress is real, and we look forward to the fruits of our labor. We hope you do too.

# BIARC Public Service Communications Committee Report

## December 1, 2021

- **ARRL/ARES:**

- **ICS-205 Comms Plans.**

- The ICS-205s used for the Simulated Emergency Test have been shared between the Hawaii County districts. The SET version includes local and regional repeaters. The Makani Pahili version uses mainly simplex frequencies.
- The ICS-205s used in exercises are a *starting point* for developing Communication plans for use during an actual disaster.
- Each district DEC is responsible for adapting, and approving the ICS-205 for their district, in coordination with their CECs for any specific event. Their ICS-205s are based upon conditions on the ground and what works for their operations.
- ICS-205s for specific events are to be distributed by DECs and CECs via the [BigIslandARES@HawaiiARES.groups.io](mailto:BigIslandARES@HawaiiARES.groups.io) reflector, Winlink RMS, P2P modes, etc. Please take steps to assure the maximum distribution to operators in your area.

- **ARES coordination with Hawaii VOAD:**

ARES leaders have continued to meet frequently with the Hawaii VOAD Communications workgroup. The workgroup has completed a survey for Hawaii VOAD members. We received information regarding disaster communications plans, radio operations, and interests in participating in training opportunities. Kevin Bogan, AH6QQ, and Clement Jung, KH7HO presented information at the October 20th Hawaii VOAD general meeting. All BIARC and ARES members are members of Hawaii VOAD, and invited to participate in the general meetings and workgroups. Please contact David Miller, KH6GZ via email at [davroymill@gmail.com](mailto:davroymill@gmail.com) for more information.

- The PSCC will continue to work closely with ARES to recruit and train new operators and we encourage all stations to join ARES. We also work to encourage communication and collaboration between served agencies, and continue to build relationships between agencies and

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the Amateur Radio Community.

- Hawaii ARES and Hawaii VOAD will act as the primary umbrella organizations for coordinating EMCOMM training and operations. All amateur radio operators are encouraged to participate.

- **Exercises, Drills, and EmComm Training & Activities:**

- The annual Skywarn Recognition Day for 2021 is held on Saturday, December 4th. The Amateur Radio station at the Honolulu Field Office has been activated for the first time since the outbreak of the COVID-19 pandemic. Our statewide coordinator for the Skywarn Ham portion of Skywarn, Keven Bogan, AH8QO operates the station from the HFO.
  - Simulated severe weather reports are sent in via any Winlink RMS mode to Skywarn via the amateur call sign of KH8SW, with a CC: to AH8QO.
  - These reports are plaintext reports sending only the Essential Elements of Information. (EEI) This includes Who observed, what was observed, when, where, and damages.
  - Please read the Skywarn Basic operators field guide for guidance on what to report at [https://www.weather.gov/media/owlie/SGJune8-11\(1\).pdf](https://www.weather.gov/media/owlie/SGJune8-11(1).pdf)
  - Please refer to the Hawaii Skywarn Webpage at <https://www.weather.gov/skywarn/hi-skywarn>
- The Hawaii ARES portion of the Great Hawaii Shakeout was held on October 16th, with 37 stations submitting reports. ARES received feedback from the USGS expressing their appreciation for our participation. USGS Staff also pointed out that Big Island Winlink reports sent in during our recent earthquakes represent the first time actual earthquake reports have been sent to the USGS via Winlink.
  - See the Hawaii ARES website at <https://hawaiiares.net/> for more details.
  - Please be sure that you have joined the [main@hawaiiares.groups.io](mailto:main@hawaiiares.groups.io) and the [BigIslandARES@HawaiiARES.groups.io](mailto:BigIslandARES@HawaiiARES.groups.io) reflectors so that you will receive current information and notices of drills and activations.

Continued on next page



- **Hawaii County SirenNet:**

- The net on the AllStar Hawaii/Mainland network is coordinated by ARES DEC, KH6RDO with the support and assistance from KH7LM. We thank them and all of the Allstar Admins and Sysops for their efforts, as well as the many amateur radio operators who participate. See the <https://nh8tu.org/> website for more information.
- The sirens are tested and the net is held on the first Business day of the month. Jimmy Love, WH6GEM again volunteered to be the Net Control Station for the December 1st test. The AllStar network is linked together in a "Hawaii County only" only configuration for this net.
- KH7MS continues to run the DMR portion of the siren net on talk group 31153.

- **Winlink Training:**

- Please visit the [ETO Winlink website](https://emcomm-training.org/). See <https://emcomm-training.org/>
- This is a national training group with well-organized exercises titled "Winlink Thursdays." All stations are invited to participate.
- Send your Winlink messages to RMS stations using the tactical address of ETO-09. Your participation is logged automatically on ETO's map.

**Submitted by**  
**Tony Kitchen, WH6DVI**

# BIARC Executive Board Meeting

November 13, 2021

## A Begin Meeting

- **Call to Order**

The meeting was called to order at 12:02 pm by Board President William Polhemus

- **Quorum Call**

Present: William Polhemus, Tony Kitchen, Leslie Hittner, Robert Schneider, James Sugg (late), Jim Huntley (late), Paul Ducasse

Guests: Jimmy (WH6GEM), Gary (WH6EPS), Joe (WH6FZH), Roy (WH6FYK), David (KH6CZ), Glen (AH6EI)

- **Secretary's Report and Minutes (08/14/21)**

William **moved** and Tony **seconded** that the October 11, 2021 BIARC Board Minutes be approved as published and amended. Motion **passed**.

- **Treasurer's Report**

No changes from last month. Leslie **moved** and William **seconded** that the Treasurer's Reports be approved subject to audit. The motion **passed**.

## B Committee Reports

- **Digital Systems** – No written report.

- **Education and Outreach** - Written report for Annual Members' Meeting.

- **Operating Activities** – No written report.

Roy noted that coming up is Winter Field Day in February. Roy also discussed getting a "fox" built for foxhunts.

- **Program** – No written report.

Annual Holiday Party is coming up in December. William hopes to have an in-person party at his classroom/outside lanai space at Hilo Community College.

- **Public Service Communications** – Written report for Annual Members' Meeting.

- **Voice Repeaters** – Written report for Annual Members' Meeting.

William discussed some of the technical details of the microwave infrastructure project including both the 5.6 GHz and 900 MHz systems.

- **Ad Hoc Elections Committee** – Paul Ducasse summarized the election procedure. Jim Huntley and Tony Kitchen will run for second terms, and Bob Schneider will step down. Roy has nominated himself. Thus, at the Annual

Meeting, the committee will submit three candidates for the three board positions.

**C Old Business**

• **Annual Meeting agenda**

1. Opening remarks and introductions
2. Quorum Call (20% = 12 members)
3. Elections
4. Reports from Board officials and Committee chairs
5. Upcoming work party discussion
6. Holiday Party discussion
7. Open discussion

**D New Business**

• **HVOAD Elections**

Leslie **moved** and Tony **seconded** that David Miller be authorized to vote as he feels best the HVOAD elections. Motion **passed** without objection.

**E Other Business**

**F Member Input**

- Paul Ducasse would like to turn over the Station Custodian/Trustee responsibilities to some other individual during 2022. William indicated an interest in that position.

**G Adjourn**

There being no further business, William adjourned the meeting at 1252 pm.

Respectfully Submitted,

*Leslie D. Hittner*

Leslie D. Hittner, Secretary

**Attachments:**

2021-11-13 Secretary and Education and Outreach Committee Annual Reports

2021-11-13 Voice Repeaters Committee Annual Report

2021-11-13 PSCC Committee Annual Report