

## MAY MEETING AT PUNA COVENANT CHURCH

Bob Schneider, AH6J, has arranged for the club to meet at the Puna Covenant Church, right up the road from the Keaau Community Center, which is serving as one of the emergency shelters for Leilani area lava flow evacuees. We'll gather at the usual time, 2 p.m., on Saturday, May 12. The church is near the upper access to Keaau, on old Volcano Road, right off the Volcano Highway.

*Photos by Linda  
Quarberg, WH6LQ*

## Collegiate radio amateur wins Radio Club of America's "Young Achiever Award"

ARRL member Ruth Willet, KM4LAO, a 19-year-old student at Michigan's [Kettering University](#), has received the Radio Club of America's "Young Achiever Award."

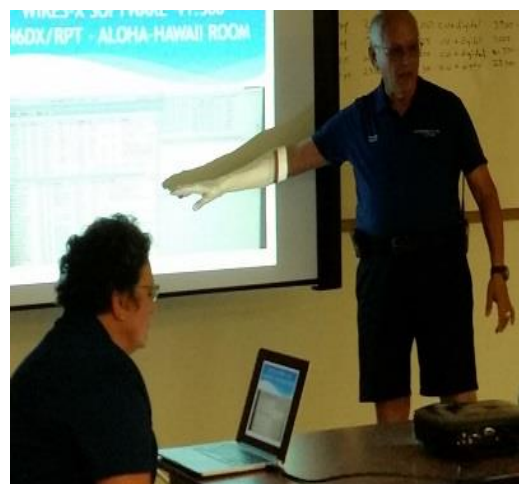
# BIARC NEWSLETTER

## *Big Island Amateur Radio Club May 2018*



*At our April meeting, Tommy Akin, KH6TA, and wife Cherub, KH6CA, give an illustrated presentation on voice-over internet protocol, focusing on an "intro to System Fusion II."*

**BIARC members get insights into "DSTAR DMR & C4FM, a paradigm shift," with Webster's definition of "paradigm shift" providing the foundation, said presenter Tommy Akin, KH6TA.**



## **Ham service and support commended on National Volunteer Week**

ARRL President Rick Roderick, K5UR, used the occasion of National Volunteer Week, April 15 - 21, to express gratitude to "the thousands of Amateur Radio operators who have given, and who continue to give, of their time and expertise" to serve as vital communication links during emergencies, disasters, and community events.



**ARRL  
President  
Rick  
Roderick,  
K5UR.**

Throughout the past year, President Roderick recounted, ham radio operators have volunteered during hurricanes, wildfires, and severe weather to support communication for emergency evacuation shelters, pass health-and-welfare traffic to anxious families, and partner with the National Weather Service as SKYWARN volunteers to report local weather conditions. Hams also volunteered during the solar eclipse last August, working with scientists to record its impact on radio propagation, he pointed out.

"Amateur Radio volunteers have a long history of providing service and support to their communities and our served agencies," Roderick said. "As this avocation continues to evolve, alongside the technological advances in telecommunications, we are proud that, as hams, public service to our communities will continue to be at the core of who we are."

Echoing President Roderick's remarks, ARRL Emergency Preparedness Manager Mike Corey, KI1U, cited Amateur Radio's volunteer spirit as one of its most admirable aspects.

"Radio amateurs have taken their passion for radio, communication, science, and technology and given back service in so many ways," Corey said. "Radio amateurs teach, inspire, offer insights to the world that others cannot, assist during times of emergency and disaster, and report to assist during such community events as marathons and festivals," he said.

"Volunteerism has always been at the heart of Amateur Radio, and it is through the work of volunteers that Amateur Radio will be there for future generations to enjoy."

National Volunteer Week is sponsored by [Points of Light](#), an ARRL partner through National Voluntary Organizations Active in Disaster ([VOAD](#)). Points of Light called the week-long observance "an opportunity to celebrate the impact of volunteer service and the power of volunteers to come together to tackle tough challenges and build stronger, more resilient communities."

"Each year, we shine a light on the people and causes that inspire us to serve, recognizing and thanking volunteers who lend their time, talent, and voice to make a difference in their communities," the organization said.

***Free Technician  
classes continue  
around Big Isle***

**Ocean View – Hove Community Center**

May 3, 2018  
May 10, 2018  
May 17, 2018  
May 24, 2018  
May 31, 2018  
June 7, 2018 (Exam)

**Kea'au – Kea'au Community Center**

November 1, 2018  
November 8, 2018  
November 15, 2018  
November 29, 2018  
December 6, 2018  
December 13, 2018 (Exam)

**Contact Doug Wilson (KH7DQ) at  
douscelle@aol.com or Ph. 985-9362**

**Note: Test fee of \$15 (in exact cash) due  
at time of each exam.**

## NEW 630-METER BAND REPORTED "VERY BUSY"

Amateur Radio got two new bands last year, and amateurs are beginning to use them. Ralph Wallio, W0RPK, of Greenville, North Carolina, and others who took part in ARRL's WD2XSH Part 5 Experimental operation or have a deep interest in what now is the 630-meter band (472 - 479 kHz), say activity is picking up. Wallio maintains an [informal database](#) that tracks the activity of stations on a state-by-state basis, as well as how many states each station has worked. Topping the list is Eric Tichansky, [NO3M](#), in Pennsylvania, with 36 states worked on 630 meters, and 35 confirmed, including Hawaii and Alaska. NO3M, who also operates as W3CDX, reports eight DXCC entities worked on the new band. "During the past 6 months, our list of stations in the US participating in QSOs on 630 meters has steadily increased to 108 stations across 39 states," Wallio told ARRL. "As of mid-April 2018, we have 6 months of operating experience over the past winter. Our 630-meter band has been very busy."

Wallio said modes frequently used for 630-meter contacts include CW, JT9, WSQ (weak-signal QSO), and FT8, with occasional additional digital mode experiments and SSB. Numerous US stations are also participating in WSPR beacon transmission, reception, and reporting on 472 kHz. "An analysis of the past 30 days finds 59 stations occasionally transmitting 630-meter WSPR beacons in the US," Wallio added. Transatlantic and transpacific contacts on the new band also have been reported. John Langridge, KB5NJD, posts a [daily discussion](#) of 630-meter operations and conditions. He advises stations operating on 630 meters to upload their logs to Logbook of The World, so 630-meter operators participating in the 2018 ARRL International Grid Chase ([IGC](#)) can receive credit.

Another WD2XSH participant, Rudy Severns, N6LF, discusses [LF-MF antenna design](#) on his website, with [notes](#). An [archive](#) of 600MRG discussions also is available.



**The 630-meter antenna at  
NO3M.**



**Eric Tichansky, NO3M, has modified a  
Heathkit SB-1000 linear for 630 meters, so  
he can generate sufficient power to obtain  
1 W ERP.**

## International Girls in Information and Telecommunication Technologies Day

"Girls Can Do ICT!" was the theme of International Girls in Information and Telecommunication Technologies (ICT) Day on April 26. An initiative of the International Telecommunication Union (ITU), International Girls in ICT Day aims to "create a global environment that empowers and encourages girls and young women to consider careers in the growing ICT field," the ITU said.

International Girls in ICT Day is celebrated every year on the fourth Thursday of April. To date, more than 300,000 girls and young women have taken part in some 9,000 celebrations of International Girls in ICT Day in 166 countries.

"Girls in ICT Day provides a much-needed boost to female participation in the ICT sector," said ITU Secretary-General Dr. Hamadoun I. Touré. "With many countries now forecasting a shortage of skilled ICT professionals within the next 10 years, it is vital that we attract young women into technology if we are to sustain healthy growth rates for the industry overall." Girls in ICT Day encourages girls to let personal interests and talent, not stereotypes, define their career paths. "It promotes an interest in technology, computer science, new communication media, and engineering."



### All invited to Friday

#### BIARC lunches

The BIARC luncheon is held every Friday at Nani Mau Gardens on Makalika Street off of Railroad Avenue, or Route 11. Members arrive anywhere from 11 a.m. to 11:15 a.m.

It is a buffet luncheon at a cost of \$15, paid in the gift shop. This cost includes walking in the garden also. We have one table in use at the present time, but can always add another if attendance increases. Hope to see some of you there.

73,

**Barbara Darling, NH7FY**

### Space Station Commemorative Slow-Scan TV Transmissions Prove Extremely Popular

Thousands of slow-scan television (SSTV) enthusiasts around the globe enthusiastically tracked the International Space Station (ISS) to download commemorative SSTV images transmitted as part of the ARISS-Russia Cosmonautics Day (International Day of Human Space Flight) celebration April 11 - 15. Another ARISS-Russia SSTV event is planned for May. Upward of 9,000 images relating to the 40th anniversary of the Interkosmos Project period of the Soviet space program have been [posted for viewing](#). The SSTV images, stored on a computer in the ISS Russian segment, were transmitted by RS0ISS on 145.800 MHz with PD-120 SSTV protocol, using a Kenwood TM-D710E transceiver. Certificates are being distributed via e-mail to those who posted reception reports and images.

## Don't forget to sign up for the QTH.NET Email Listserve

The Big Island Amateur Radio Club continues to build and streamline its email listserve.

"The main advantage of using such a listserve is that you do not have to individually maintain a list of club member email addresses in order to enter into important conversations related to club operations," explains coordinator Les Hittner.

"The listserve can be set up to maintain two independent lists; a general one and an administrative one. The advantages follow:

- Members do not have to maintain their own list of BIARC email addresses.
- Messages sent via the listserve can be archived. This is particularly important for the administrative listserve where club business might be discussed.
- The listserve provides a secure means of sending club email.
- Listserve emails are easily identified by their unique Subject Line headings.
- Access to the Listserve can be placed on the club's website.

Additional information can be found at:  
<http://mailman.qth.net/>

In order to become a member of the BIARC Listserve,  
simply send me an email:

***lhittner@hbc.com***

and let me know that you want to be placed on the listserve. I will enroll you and then send you an information email about its use.

Mahalo,

***Leslie Hittner, K0BAD***



### Congratulations, Cindy!

Cindy Ollis from Hilo "slammed all three exams" during VE license testing conducted at the Keaau Community Center in the next-door room during the April meeting. "We are so proud of her," said Linda Quarberg, on behalf of the VE panel of volunteers overseeing the testing. Cindy passed her Technician, General and Amateur Extra exams, all in one sitting!

### Hams on Dominica conduct "Preparedness Field Day" in advance of Hurricane Season

Members of the Dominica Amateur Radio Club Incorporated (DARCI) held a second Field Day-style emergency preparedness, awareness, and recruiting exercise on April 21. Radio amateurs on the Caribbean island are continuing the process of taking on a larger role in emergency preparedness and response for the Atlantic Hurricane Season, which begins June 1. Dominica suffered severe damage from Hurricane Maria last September, and, using their remaining resources in the storm's aftermath, radio amateurs there played a leading role in establishing communication links and providing necessary information to the public.



## Ham ohana turns out for HPP Radio Day

**Aloha HPP NW Emergency Radio Team,**

Thank you to all those who attended the Radio Day in HPP Saturday 4/28!

Special Mahalo to Mike Stratton for organizing the event.

Mahalo David, Jim, Bruce, Rick, and Chris for setting up the radio system and taking turns answering the visitors questions.

Mahalo to Pat and Zack for the CERT booth and promoting the program.

For me I was there to host, facilitate connections, learn, provide food, coffee, and water to all the visitors and wonderful volunteers.

ARES, ARRL, BIARC, CERT, and HPP NW ERT all hand booths and gave interesting demonstrations and shared their knowledge with everyone.

Hawaii Tribune Herald photographer Hollyn was there and took a group photo. She told us we will be in the Community section of the newspaper this week.

Our current Volcanic activity heightens our awareness of staying connected, being prepared, and the value of radio communications.

Radio Day is an important event and we plan on doing this again next year!

Sincere Gratitude to All!

***Judi Houle***

***HPP NW ERT Coordinator***



**BIARC members and friends gather at the Keaau Community Center for the April meeting.**

*Photo by Linda Quarberg*

## ***AC7N: The President's Paragraphs***

As I write this, Debbie and I are in southern Georgia, not far from Tallahassee, Florida. Grid square EM70vu for those who are familiar with those locators. We brought the IC-7300 with us, and put a 40-10m end-fed wire antenna up from Debbie's parents' house to a tree. Debbie has been having fun working the European stations she hasn't been able to work from Hawaii. Even though we are 4500 miles from our home QTH, the contacts do count for the 2018 Grid Chase. Operating while away from home is one of the challenging and fun aspects of our ham radio hobby. I'm glad we decided to go to the extra effort to pack the transceiver, power supply, and other necessary equipment to set up station at our destination.

Debbie and I will be back home to Hawaii in time for the May 12 BIARC meeting. We look forward to seeing many of you there. We are encouraged by the enthusiasm which we are seeing and feeling amongst you, old-timers and newcomers alike. Let's keep having fun and encouraging each other to get involved and help out each other and our neighbors. We remember that two of the most important aspects of our hobby are developing technical skills and helping our communities with our communication skills and capabilities in times of emergency. We also enjoy ourselves while we do all these things.

This month we will have a program which encompasses both of the aspects of our hobby mentioned above. Tom English WH6EBS and I will do a presentation and how-to on the very interesting digital mode called FSQ. Many of you may not have heard of FSQ yet, but we hope to give you reasons to try it out. Several of us in Hawaii have been using FSQ for about a year, and have found it to have qualities which especially suit it to both group chatting and EmComm. It is usually used as a net mode, with short turnarounds, multiple stations on the same frequency, and busy channel detection before transmit (CDMA). We hope to do a live demo and give a start-here guide to using FSQ. We'd love to get more people able to operate FSQ and use it for EmComm preparation and practice as well as chatting.

Get on the air! Keep the RF waves radiating.

**73 and Aloha,**

**Pascal AC7N**

## April 14, 2018 BIARC meeting minutes

The meeting was called to order by President, Pascal Nelson, AC7N, at 1400.

Pascal stated that he was changing the meeting format slightly in order to reduce overall meeting time. Introductions were made only of new members and attendees and of those who had not been to BIARC meetings for a long period of time.

New members and guests, and people who had been away for a long period of time introduced themselves.

Treasurer's Report (End of month – March 2018): Bank: \$ 2250.04 – up from \$ 2007.04 as reported in March. Additional funds are being received today from new and renewing members.

Announcements:

Leigh, WH6LC: Russ Roberts (KH6JRM) will be making a presentation on Monday (April 16) at the Laupahoehoe Public Library.

Members of KHRC (Kohala, Hamakua Radio Club) Ceri Saunders (AH6CS), John Buck (KH7T) asked about details of the repeater systems on Hawai'i Island – specifically, those connected with the BIWARN (Big Island Wide Area Radio Network). Eric (KH6CQ) has a schematic of the BIWARN system, but it needs updating. For instance, the link on Mauna Loa needs to be repaired. The east-west link depends upon this system. John Buck noted that there used to be an island-wide repeater coordination group, but that it appears that this group has disbanded. Can it be re-organized?

Doug Wilson, KH7DQ: A testing session will now begin in the adjacent room. Doug (KH7DQ), Debbie (AH7DN), and Linda (WH6LQ) departed to proctor the session.

Mike, KH6PAC: There will be an HPP Radio Day at the HPP Activities Center on Saturday, April 28 (8-5). The center is located on Maku'u Drive between 16<sup>th</sup> and 17<sup>th</sup> Avenues.

John, KH6DLK: The ARRL has proposed expanded Tech privileges on the HF bands as follows:

3.525 – 3.600 MHz – CW and digital

7.025 – 7.125 MHz – CW and digital

21.025 – 21.200 MHz – CW and digital

28.00 – 28.300 MHz – CW and digital (in addition to existing FM privileges)

3.900 – 4.000 MHz – SSB

7.225 – 7.300 MHz – SSB

21.350 – 21.450 – SSB

28.300 – 28.500 – SSB

Suggestions were made concerning current Hawai'i net frequencies on 40 meters. Could the nets be changed to 7.264 MHz to accommodate the new Technician privileges? The current frequencies (7.088 and 7.188) fall outside of those privileges. It was noted that 7.264 MHz is not prone to interference from shortwave broadcasting.

John, KH6DLK: It is hoped that new inter-island SSB equipment in FSM (Federated States of Micronesia) will also be capable of operation on the amateur radio bands.

John, KH6DLK: The club board approved the adopt-a-school Raspberry PI program – to provide Raspberry PI computers for students and teachers.

Pascal, AC7N: The club website (biarc.net) has been largely updated. More changes will be forthcoming.

Gary, WH6EPS: The ISS (International Space Station) is operating slow scan on its passages this week. The frequency is 145.800 (plus or minus doppler shift).

Gary, WH6EPS: noted that PERC is not going to do Field Day this year, but he had received an offer to host a BIARC Field day operation at the Reed's Bay Hotel covered patio near the beach. There was interest among the members and Peggy and Leigh agreed to deal with food and Daryl agreed to deal with the site preparation.

Members were encouraged to continue the discussion on the BIARC listserve and a sign-up sheet will be posted in May/June.

Pascal, AC7N, announced that there will be a BIARC Board meeting on Thursday, April 19 at noon at Canton Gardens restaurant in Kea'au. This meeting is open to all members and the board may discuss a location change for its meetings.

## Reports:

Gary, WH6EPS: (a) The new antenna has not yet been installed at Kulani. (b) The re-installation of the UHF repeater at the Department of Public Works in Ku'u has not yet been resolved. The enclosure itself needs repair work and the club needs to consider the EMCOM uses of this system (solar PV emergency power?). (c) The Mauna Loa link at the Girl Scout Camp is in need of a new antenna and controller. A new repeater might also be considered. (d) The Pepeekeo site is the next one to be worked on. Hank, KH6HAK noted that in the case of RF saturation, simple quarter wave stub lines for each commercial transmitter could be installed at the receiver input. He offered to build and tune the needed stubs.

Members asked for pictures of the sites and suggested that each site be hardened before considering major upgrades.

There being no further business, Pascal adjourned the meeting adjourned at 1456.

Following a brief break for pupus, a program on System Fusion was presented by Tommy Akin, KH6TA.

*Leslie D. Hittner*

Respectfully Submitted,

Leslie D. Hittner, Secretary



## ***The 10-10 Connection***

with NH7PE,

**10-10 Aloha Chapter**

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**Activities on tap  
on Ten Meters:**

Irene Kubica, NH7PE, notes that her personal 10-10 number has the number 56 in it (74456), which will come in quite handy throughout this year, which is the 56<sup>th</sup> anniversary of the 10-10 International Net. That means any QSO with her in 2018 allows the other station to enter a log in the 10-10 Anniversary QSO Party. All entries must be postmarked by Jan. 8, 2019.

"Go, 10 meters," says NH7PE, one of Hawaii's big 10-10 promoters.

### Spring Digital QSO Party

Sat May 05, 2018 00:00 -

Sun May 06, 2018 23:59

### Spring CW QSO Party

Sat May 05, 2018 00:00 -

Sun May 06, 2018 23:59

### Spring CW QSO Party

Sat Jun 02, 2018 00:00 -

Sun Jun 03, 2018 23:59

### Open Season QSO Party