



Meeting!

Our semi-annual membership meeting, with annual elections and voting on club biz, is set for 2 p.m. Saturday, Nov. 14. See Page 3 for details and Internet link to the Zoom session.



American Red Cross

Recap of ARES SET exercise shows value of emcomms

A review of the Oct. 3 statewide ARES SET exercise was the main focus of the Oct. 10 BIARC Zoom get-together.
President William



Tony Kitchen, WH6DVI
Polhemus, NH6ET, opened the meeting by inviting everyone to join in a "lively discussion" about the simulated tsunami emergency and the response by Hawaii hams in transmitting messages for the American Red Cross.



Kevin Bogan, AH6QO
Tony Kitchen, WH6DVI, thanked all who had participated. On the island of Hawaii, local hams at 22 stations transmitted 44 messages for a total of 37 "shelters." Tony invited feedback from



Mel Uchida, KH6EKD
Roy Kunishige, WH6FYK
See EMCOMMS: Continued on next page



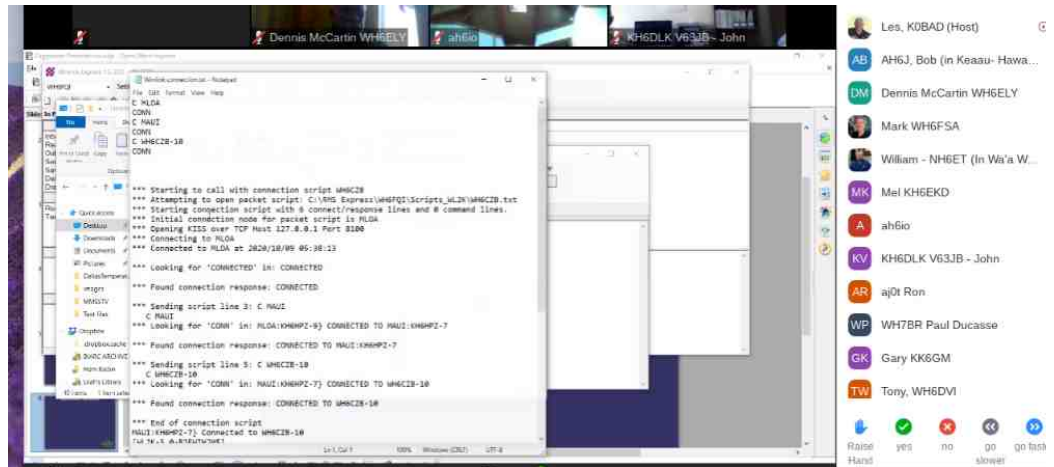
Date: November 14, 2020		BIARC Annual Membership Meeting Agenda			
Location: Via Zoom		2:00 PM			
(access link on Page 3)					
Time	#	Description	Brought By	Likely Action	Committee
2:00 PM	A	Begin Meeting			
00:00	1	Call to Order	Polhemus		
00:01	2	Quorum Call	Hittner	Record	
00:02	3	Last Annual Meeting Minutes (11/09/2019)	Hittner	Receive and Approve	
2:03 PM	B	Executive Board Reports			
00:02	1	President's Annual Report	Polhemus		
00:02	2	Treasurer's Annual Report	Kitchen		
00:02	3	Secretary's Annual Report	Hittner		
00:06	4	Committee Reports			
2:15 PM	D	New Business			
00:05	1	Report of Nominating Committee	Paul Ducasse		
00:05	2	Receive Nominations for Board Positions	William Polhemus/Paul Ducasse	Present Slate/Seek additional Nominations/Hold Election	
00:10	3	Description of Election and balloting Process	Leslie Hittner		
00:20	4	Election of Executive Board Members	Paul Ducasse		
00:10	5	Approval of Proposed Constitutional Amendment	William Polhemus		
00:10	6	Approval of Proposed Bylaws Amendment	William Polhemus		
3:15 PM		Other Business			
00:45	2	Program	James Huntley		
4:00 PM		Adjourn			
4:00 PM		End			



Jim Huntley,
WH6FQI



Les Hittner,
KOBAD



Jim FQI offered an intro to using the Winlink program, above.

stations regarding what worked, what didn't, and techniques and equipment used.

All agreed it is vital service amateur radio can offer the community. And such practice runs let operators get familiar with the protocols.

Messages were transmitted digitally and via voice using the prescribed messaging forms.

Tony noted that, nationally, an agreement has been signed between ARES and the ARC. In the 50th state, such a pact is pending between Hawaii's ARES and ARC organizations.

The next SET exercise will be on Nov. 14, he said. The website for all information on the exercise is <https://nh6tu.org/forms/ARC2020> HubSpokeList.pdf

Tony recommends Winlink as the conduit for emcomms. It's

Connection Script

- > C MLOA
- > CONN
- > C MAUI
- > CONN
- > C WH6CZB-10
- > CONN

Transport Modes

- > VaraFM
- > VaraHF
- > Packet
- > Pactor
- > ARDOP



This map shows the location of most, but not all, of the Packet stations across the state.

much faster than voice, error-checking is easy, and Winlink already has the pertinent forms set up for instant use.

Jim Huntley, WH6FQI, is chair of the BIARC Digital Systems Committee.

He gave a short intro to Winlink for the Zoom gang. (Note accompanying graphics, which he used to illustrate his talk.)

Winlink has five transport modes for VHF. We currently are using VaraFM and Packet.

~~~ Tony is recruiting isle hams to add their names to a list of ready, willing and able operators for an emcomms list to be shared with the County of Hawaii Civil Defense Agency. Everyone is welcome. ~~~

# Semi-annual membership meeting Nov. 14 on Zoom

To: *BIARC Full Members*

(Below, and at right:) See the text of the proposed amendments to the BIARC Constitution and Bylaws, along with an excerpt from the BIARC Constitution regarding the amendment procedure. These changes will be brought up at our semi-annual membership meeting to be held on Saturday, Nov. 14, at 2 p.m. via the Zoom video conferencing service. At this same meeting, we will hold the election for three BIARC Executive Board positions that will expire at the end of 2020. I encourage everyone to attend so that we can achieve the quorum required.

73,  
*Tony Kitchen, WH6DVI  
Chair, Public Service  
Communication Committee  
2020 BIARC Treasurer*

## Proposed Constitutional Amendment

Move that the Big Island Radio Club Constitution be amended as follows:

A. ARTICLE I, SECTION 1, Paragraph 1 of the BIARC Constitution be amended as follows:

1. Full Members: Members who have Amateur Radio Licenses are designated as Full Members.

Be re-worded:

1. Full Members: Members who have Amateur Radio Licenses and whose amateur station license address is on Hawai'i Island are designated as Full Members.

B. ARTICLE I, SECTION 1, Paragraph 2 of the BIARC Constitution be amended as follows:

Strike: Members who do not have Amateur Radio Licenses

And replace with: Members who do not have Amateur Radio Licenses or whose Amateur Radio Station License address is not on Hawai'i Island

Thus:

1. **Associate Members:** Members who do not have Amateur Radio Licenses are designated as **Associate Members**. Associate Members do not have voting rights and cannot be elected to the Executive Board.

Becomes:

1. **Associate Members:** Members who do not have Amateur Radio Licenses or whose Amateur Radio Station License address is not on Hawai'i Island are designated as **Associate Members**. Associate Members do not have voting rights and cannot be elected to the Executive Board.

**Reasoning:** The Board was concerned that because of the state's strong tourist economy, significant numbers of vacationing Amateur Radio Operators may choose to join BIARC in order to provide financial support. Such amateurs, when at their homes on the mainland or elsewhere, would not be able to physically attend a Semi-Annual Membership meeting and other special membership meetings called by the Executive Board or by other members. This could impact the ability of the club to achieve a quorum at such meetings. This Constitutional Amendment assigns non-resident members to Associate Membership status regardless of their Amateur Radio License status.

The link to the meeting on the Zoom video conferencing service is:

<https://us02web.zoom.us/j/5181360132?pwd=bTVFTG5HZXowYVJ6OHpFcEV1dHJRUT09>

Meeting ID: 518 136 0132

Password: 3487388



## Proposed Bylaws Amendment

Move that the Big Island Radio Club Bylaws be amended as follows:

A. The following shall be added to the end of Section 2 m (Dues):

**On-Line Dues Payments:** Dues paid by means of a BIARC-approved on-line technology shall be 10% more than dues paid with cash or by check.

**Reasoning:** The Board has adopted a popular on-line payment system that involves transaction fees. It was felt that the club should not have to cover the costs of this convenience. This Bylaws Amendment creates method for including such fees in establishing the value of on-line transactions.

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## Constitution and Bylaws Amendment Procedure

### ARTICLE VI

#### Amendments

SECTION 1 This Constitution may be amended by a two-thirds majority of the members in attendance at a Semi-Annual or special meeting of the membership. Proposals for amendments to this Constitution shall be submitted in writing at least one month prior to the meeting at which the vote is to be taken.

SECTION 2 The Bylaws to this Constitution may be amended by a simple majority at any Semi-Annual or special meeting of the membership.

## ARRL November Sweepstakes in two parts

The CW weekend of the ARRL November Sweepstakes (SS) takes place Nov. 7-9. The hallmark of this very popular operating event is its challenging and lengthy exchange, which has its origins in the National Traffic System (NTS) message format.

The ARRL November Sweepstakes SSB weekend is set for Nov. 21-23.

## BIARC Board Meeting

October 10, 2020

### A. Begin Meeting

1. William Polhemus called the meeting to order at 12:00.
2. The following board members were in attendance: James Huntly, Leslie Hittner, Tony Kitchen, Mel Uchida, Bob Schneider, William Polhemus, and Paul Ducasse
3. Visitors in attendance – Roy (WH6FYK)
4. The Secretary's Minutes for the board meeting of 09/12/2020 were approved as read. William **moved** and Mel **seconded** to approved the minutes as published by email. Motion passed.
5. The Treasurer's Report was presented by Tony. He stated that the club currently has 97 members. Paul asked about the PayPal and Namecheap Account Balances. Tony said that he lets PayPal payments accumulate so that they can be used by the club to make payments via PayPal. At any time that balance can be transferred to the club bank account, but both accounts accrue the same interest (0%). The services purchased from Namecheap ended up costing slightly less than anticipated. The remainder of that balance may end up being used to pay for an SSL certificate for the club website. A summary of the report follows:

- Since the September report, we have added 3 new members for a total membership count of 97.
- BIARC is currently \$76 short of the budget estimate for dues receipts in 2020, and \$226.72 over the budget estimate for repeater donations.
- BIARC received \$20 additional donations to the repeater fund since the last report. The fund balance is now \$931.97
- BIARC reimbursed NH6ET \$229.78 for equipment (2 Diamond X50A).
- There were no additional requests for reimbursement or disbursements made since the last report.

Fund totals:

|                      |                   |
|----------------------|-------------------|
| Repeater fund:       | \$ 931.97         |
| Emergency Reserves:  | \$1,000.00        |
| <u>General Fund:</u> | <u>\$1,891.20</u> |
| Total Funds:         | \$3,823.17        |

William **moved** and Mel **seconded** to accept the Treasurer's Report subject to audit. Motion **passed** with a unanimous vote.

### B. Committee Reports

1. **Digital Systems:** Huntley (Chair) Written report attached.

2. **Education and Outreach:** Hittner (Chair) No report.
3. **Operating Activities:** Kunishige (Chair) No Report.
4. **Program:** Huntley (Chair) No Report.

Additional programs about digital modes will be scheduled, including discussions of Winlink VARA development. William stated that in his opinion an open standard, platform agnostic VARA is needed before it could effectively replace AX-25 packet. Digital Systems might be a good program for the Annual Membership Meeting in November. Les also suggested that APRS be discussed.

5. **Public Service Communications:** Kitchen (Chair) Written report attached.

Today's program about the SET will also involve some discussion about packet and Winlink. The MOU with Department of Water Supply modified by Les needs to be forwarded to the Board for action in November.

6. **Voice Repeaters:** Polhemus (Chair) No report.

William's side project with HCCDA involves a research project that will require some communications infrastructure that can eventually become a part of the BIARC infrastructure. William is also continuing work on a repeater for the Laupahoehoe site.

7. **Ad Hoc Elections Committee:** Paul (Chair) Is satisfied with the plan so far.

C. **Old Business:** None

D. **New Business:** None

**Annual Membership Meeting Announcement and Agenda:** The Board discussed the Board member candidates for the three open positions. A question of a process for secret ballots/voting on Zoom were discussed. Les suggested that we use the waiting room and to certify members while they were in the waiting room before allowing them to enter the meeting. Then, either ask for negative votes or perform a role call of all certified members. This did not address the secrecy issue, if required. After some discussion, it was decided to use the Zoom Chat feature to message Paul (privately) with their vote. The chat log can then be saved as a record. Eligible members are those who have joined the club as of the day of the meeting. There is an earlier requirement for determining the quorum number.

Since the proposed ByLaws/Constitutional changes will affect who is a qualified voter, this item should appear on the agenda after the elections. The membership list on the biarc.net website is current and can be used to qualify members in the meeting.

Agenda:

- President and other officer reports, Annual Meeting Minutes and annual summaries, Treasurer's annual summary, committee annual summaries.
- Elections
- ByLaws/Constitution Amendments.
- Program

This information needs to be published by email blast, website, Listserve, Newsletter:

- Amendments
- Annual Meeting announcement/Agenda

### E. Other Business:

William stated that Jim Sugg, AH6AE, asked about approaching political candidates about their positions about HCCDA. Les suggested that we stay out of it at least until after the election. William's opinion was that if we were to decide to get involved politically, we are a bit too late. Board members nodded their agreement.

Jim asked for two members to be added/confirmed. William **moved** and Mel **seconded** to accept the following members to sit on the Digital Systems Committee: Gary Schwiter (WH6EPS), Lawrence Byng (WH6GGG). Motion **passed**.

Tony stated that he (WH6DVI) and Roy (WH6FYK) have received AREDN Mesh 5 GHz equipment from Joe Spironi. William noted that the communications infrastructure he is installing to support his research is AREDN Mesh as well.

### F. Adjourn

There being no further business, William adjourned the meeting at 13:01.

## New Zealand radio amateurs lose access to 60 meters

New Zealand radio amateurs no longer have access to 60 meters.

The change was effective on October 24.

Use of the band by radio amateurs in New Zealand was provisional, allowing hams there to use two frequencies in the band -- 5353.0 kHz and 5362.0 kHz -- as part of a "trial."

New Zealand Association of Radio Transmitters (NZART), the national amateur radio organization, said the New Zealand Defence Force (NZDF) advised the organization that it was not willing to approve another renewal of the 5 MHz trial allocation.

NZART has indicated that it will continue to work with telecoms regulator RSM to see if other ways may be available to provide access to 5 MHz.

Respectfully Submitted,

*Leslie D. Hittner*

Leslie Hittner, Secretary

Enc: Written Committee Reports  
(Digital Systems, Public Service)

## Western Pennsylvania hams to mark a centennial

Pittsburgh radio station KDKA will celebrate 100 years of radio broadcasting in November, and Pennsylvania radio amateurs will honor that milestone in a multi-station special event.

KDKA dates its broadcasting history to the airing of the Harding-Cox presidential results on November 2, 1920, and the station has been on the air ever since. The special event, which will involve the operation of four stations, will run through the entire month of November.

## ARRL urges members to join in strongly opposing FCC application fee proposal

ARRL opposes an FCC proposal to impose a \$50 fee on amateur radio license and application fees. With the Nov. 16 comment deadline fast approaching, ARRL urges its members to add their voices by filing opposition comments of their own.

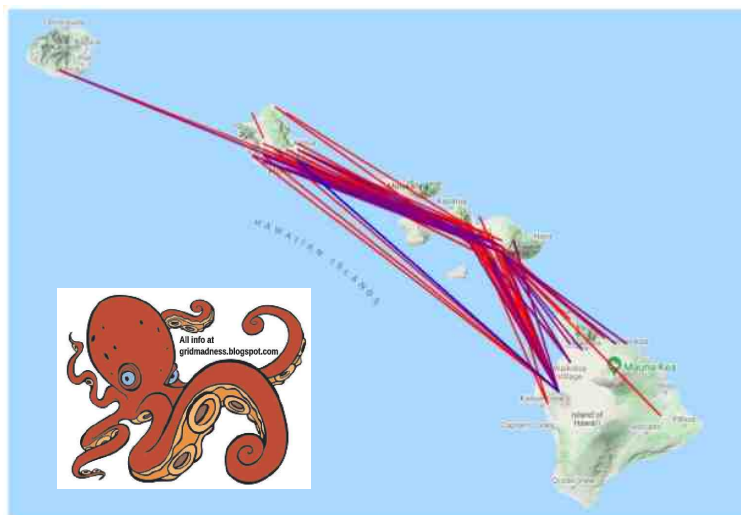
The FCC Notice of Proposed Rulemaking MD Docket 20-270 appeared in the Oct. 15 edition of The Federal Register and sets deadlines of Nov. 16 to comment and Nov. 30 to post reply comments, which are comments on comments already filed. ARRL has prepared a Guide to Filing Comments with the FCC (go to [www.arrl.org/FCC-Fees-Proposal](http://www.arrl.org/FCC-Fees-Proposal)).

File remarks on MD Docket 20-270 using the FCC's Electronic Comment Filing System. ARRL encourages members to stress amateur radio's contributions to the country and communities. ARRL's Guide to Filing Comments includes "talking points" that may be helpful in preparing comments. These stress amateur radio's role in volunteering communication support during disasters and emergencies, and inspiring students to pursue education and careers in engineering, radio technology, and communications.

Under the proposal, amateur radio licensees would pay a \$50 fee for each application for new licenses, license renewals, upgrades to existing licenses, and vanity call sign requests. The FCC also has proposed a \$50 fee to obtain a printed copy of a license. Excluded are applications for administrative updates, such as changes of address, and annual regulatory fees. Amateur Service licensees have been exempt from application fees for several years.

The FCC proposal is contained in a Notice of Proposed Rulemaking in MD Docket 20-270, which was adopted to implement portions of the "Repack Airwaves Yielding Better Access for Users of Modern Services Act" of 2018 — the so-called "Ray Baum's Act," which requires switching from a Congressionally-mandated fee structure to a cost-based system of assessment.

The FCC proposal affects all FCC services and does not single out amateur radio.



*Interisland grid connections during the recent statewide Grid Madness.*

## Grid Madness wrapup released

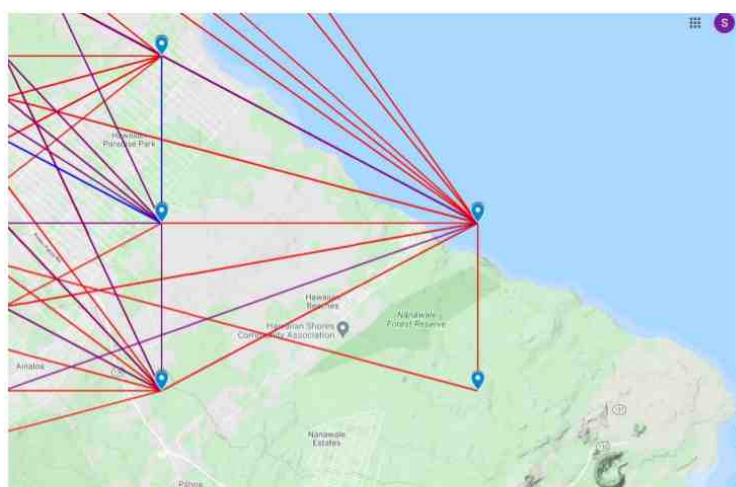
Stan AH6KO has released the official summary and results of Grid Madness 2020. The fun statewide simplex event is sponsored by the Aulani Hui Amateur Repeater Club and its friends.

"Mahalo to all the radio amateurs who called 'CQ Grid Madness' on Sunday, Sept. 20," said Stan.

The Aulani Hui team

has sent its comprehensive wrapup report -- with overall results and individual and club highlights and awards -- to all participants and supporters on its email list. There are lots of photos, computer graphics and comments on who did what, and where.

To be added to the Grid Madness email list, send a note to [AH6KO@arrl.net](mailto:AH6KO@arrl.net).



*Bev was not really in the ocean, only the center of her grid BK29nn*

*The prominent cluster at Hawaiian Beaches is Bev KH7LM. In addition to 23 contacts, she served up 10 relays, many for Irene NH7PE in BK29nm.*

## ARISS marks 20 years of ham radio on International Space Station

Amateur Radio on the International Space Station (ARISS) will soon celebrate 20 years of continuous ham radio operations on the International Space Station (ISS).

NASA is commemorating the milestone with a newly produced infographic highlighting the educational contacts via amateur radio between astronaut crew members aboard the ISS and students.

Over its 20 years, ARISS has supported nearly 1,400 scheduled ham radio contacts with schools, student groups, and other organizations.

Planning for ARISS began in 1996 as a cooperative venture among national amateur radio and amateur satellite societies, with support from their respective space agencies.

The ARISS ham radio gear actually arrived on the station before the Expedition 1 crew, headed by Commander Bill Shepherd, ex-KD5GSL.

The FCC issued ham radio call sign NA1SS for ISS operations.



*Jordan -- above, dressed for the special occasion -- was among the students at Celia Hays Elementary School in Rockwall, Texas, late last February who made contact with a real, live astronaut aboard the International Space Station. The participating keiki were excited to make ARISS contacts with astronaut Drew Morgan.*

After Expedition 1 arrived on station, some initial tests with ARISS ham radio ground stations and individual hams confirmed the ham

gear was working properly. The first ARISS school contact was made with students at Luther Burbank Elementary School in Illinois on December 21, 2000.

### Celebrate peace pact with Israeli, Arab ham clubs

Amateur radio operators are invited to celebrate the Abraham Accords treaty of peace, diplomatic relations and normalization between the United Arab Emirates and Israel.

Special event stations 4X0AAP and 4Z0AAP are being activated by members of the Israel Amateur Radio Club, while members of the Emirates Amateur Radio Society are operating A60AAP, October 16, 2020 - January 11, 2021.

### Aloha Chapter of 10-10 International

Local hams active on 10-meters encourage amateur radio licensees at all levels to join in the fun.

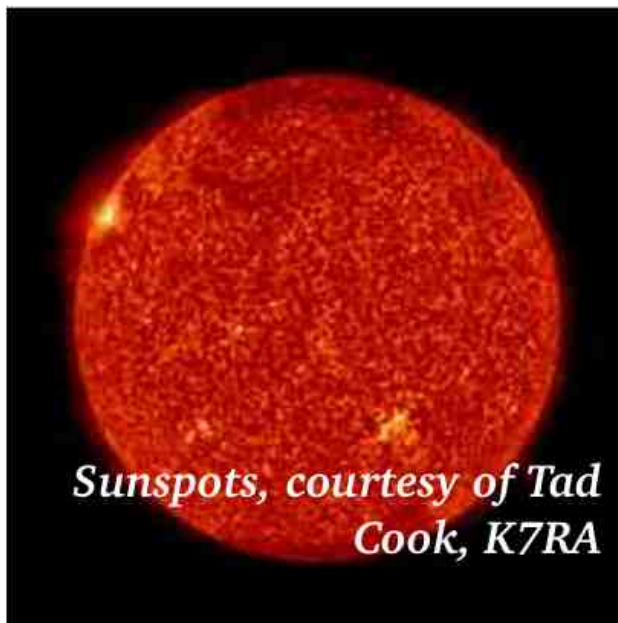
[More info on the world of Ten-Ten is available on Facebook and at <https://www.ten-ten.org>]

## Solar physicist predicts a slightly better Solar Cycle 25

Solar physicist Leif Svalgaard of the W.W. Hansen Experimental Physics Laboratory at Stanford University has predicted a maximum sunspot number of  $128 \pm 10$ , slightly better than Solar Cycle 24.

"The overall average is  $132 \pm 47$  (median 124)," he said. "None of these numbers are substantially different, so one could perhaps just go with the 'wisdom of the crowd.'

"All predictions that we consider have the underlying assumption that the sun has not changed its behavior (its 'spots,' so to speak) on a timescale of a few centuries. (The Maunder Minimum may be a possible violation of that assumption), and that there



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will be no such changes in the near future, in spite of speculative suggestions." Those included one of his own in 2013.

Svalgaard characterized the science of solar cycle

prediction to be still in its infancy, "borne out by the extreme range of predictions of Cycle 25."

-- Thanks to Frank Donovan, W3LPL

## Oldest-known U.S. radio amateur, Cliff Kayhart, W4KKP, SK

Based in Hawaii, he set up comms on Iwo Jima for U.S. Signal Corps

Charles Clifford "Cliff" Kayhart, W4KKP, of White Rock, South Carolina, died on Oct. 26, a few days past his birthday. An ARRL member, he was 109 and the oldest-known U.S. radio amateur and possibly the oldest ham in the world.

During World War II, Kayhart joined the U.S. Army Signal Corps, which sent him off to school to study radar. He was assigned to the U.S. Army Air Corps in



Charles Clifford "Cliff" Kayhart, W4KKP, SK.

Georgia and then sent to Hawaii to become part of a Signal Service Battalion.

He served at Iwo Jima, shortly after the U.S. victory there, setting up equipment for long-range radio communication and broadcasting, with

rhombic antennas in four directions.

Last November, Roanoke Division Director Bud Hippisley, W2RU; Vice Director Bill Morine, N2COP, and South Carolina Section Manager Marc Tarplee, N4UFP, jointly presented Kayhart with ARRL's Centurion Award, which honors centenarian members who have at least 40 years of ARRL membership.

On that occasion, Hippisley interviewed Kayhart.

First licensed in 1937 as W2LFE in New Jersey, he also held W9GNQ.

According to his obituary, Kayhart built

his first radio at the age of nine.

After working for New York Telephone Company as a young man, he became enamored with engineering, so he headed off to Tri-State University in Indiana, graduating with a degree in aeronautical engineering. Afterward, he went to work for RCA in New Jersey, becoming a quality control manager. Positions followed at Philco Radio and Bendix Aviation.

# Ham terminology 101

## *A refresher course*

A couple of months ago, Barbara Darling, NH7FY, reported that a friend from church had asked what the word "ham" means in the context of amateur radio. Not able to come up with a definitive on-the-spot response, she gave him an assignment.

"I told him he'd have to do some research and let us know what it meant," said Barbara. "He sent the following message and I told him I was sending it on to for the BIARC Newsletter."

"You didn't want to know this!" reported the family friend, fresh from his Wikipedia inquiry. "The term 'ham' was first a pejorative term used in professional wired telegraphy during the 19th century, to mock operators with poor Morse code-sending skills ('ham-fisted'). This term continued to be used after the invention of radio and the proliferation of amateur experimentation with wireless telegraphy; among land- and sea-based professional radio operators, 'ham' amateurs were considered a nuisance.

"The use of 'ham' meaning 'amateurish or unskilled' survives today sparsely in other disciplines (e.g. 'ham actor')." The amateur radio community subsequently began to reclaim the word as a label of pride, and by the mid-20th century it had lost its pejorative meaning.

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Internet searches turn up all sorts of interesting tidbits about amateur radio terminology, historic and/or modern in usage. Many terms are learned throughout the licensing process, others are not as widely known.



Photos courtesy of Robert Richardson, offgridsurvival.com.

"In 1859, Western Union standardized on the '92 code', a series of telegraphic abbreviations in which numbers (originally 1 to 92) were assigned meanings.

These were later included as part of the "Philips Code," a series of abbreviations first published in 1879 by Walter Phillips of the Associated Press for use in the telegraphic transmission of press dispatches.

While most of the codes have fallen into disuse, the

form 19 and 31 train orders remained in railroad use long beyond the end of landline telegraphy, the use of '30' at the end of a news wire story was continued through the teletypewriter era and the '73' and '88' greetings remain in use in amateur radiotelegraphy."

-- From

<https://www.amateur-radio-wiki.net>

Why is Ham Radio Still Important for Emergency Communications?



33: The Young Ladies Radio League (YLRL) was organized in 1939 and quickly coined '33' as "Love sealed with mutual respect and friendship between one YL and another YL"

73: Best regards

88: Love and kisses