Next up:

BIARC meets at 2 p.m. Saturday Nov. 10 at the Keaau Community Center



Club crew gets Pepeekeo repeater back on line



Darrell Asuka snapped this closeup shot of Gary Schwiter installing the new filter made by Hank Kaul for the Pepeekeo repeater. The Pepeekeo repeater is back to normal, reports BIARC Repeater Committee Chair Gary Schwiter, WH6EPS. He updated the membership on the recent trip he and Darrell Asuka, KH6RDO, made to the site recently to install the filter created by Hank Kaul, KH6HAK.

"Thanks to Hank, there's a nice coverage area of Hilo town," Gary said at the October meeting. The repeater is at 146.88, with a PL of 100 in and out.

Hank offers this description of the new filter and how it works:

"The repeater antenna is installed on an FM broadcast tower in very close proximity to TWO FM broadcast

See next page





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antennas. As such, it picks up an extraordinary amount of RF from these high power antennas. Even though they are not on the 2 meter FM frequencies, the receiver front end is saturated and desensitized at the desired operating frequency. To put it simply... the receiver is 'deafened' by two very loud shouts while it is trying to hear a distant whisper of a signal. The solution to the problem is to eliminate as much of the FM Broadcast frequencies RF as possible, right at the receiver input.

"The filter(s) I constructed are each a 1/4 wave coaxial stub (open at the far end) that are tuned to each FM broadcast frequency. An 'Open' 1/4 wave line will reflect a dead short at the opposite end, so by carefully tuning the length of the coax we can effectively short out the FM Broadcast RF back at the coax junction. Note that there are two coax stubs coming off the line. Each slightly different in length, each one is tuned to the specific FM broadcast frequency of one of the interfering transmitters. I made these by calculating the approximate length of the Coax, (1/4 wave at frequency X Velocity factor of coax) and cutting it slightly long. Then I hooked it up to a network analyzer that sweeps thru the frequency and draws a graph of the attenuation. It shows me a nice notch, about -40dB and all I have to do is carefully trim the coax open end until the notch moves up to center on the exact frequency I want.

"So each of the FM transmitters has been attenuated by approximately 35-40dB at the receiver front end, and that is enough to eliminate the de-sense problem. I am still looking at another filter that might be even more effective, and possibly a preamp to boost weak incoming signals. We strive for perfection!"



Jim Huntley, WH6FQI, reports on the ARRL GoKit IC7200.

Members get up-close intro to ARRL emergency GoKit ensemble

At the October meeting, Jim Huntley, WH6FQI. and Tim Bryan, KH6TOB, coordinated a presentation demonstrating how they set up the club's on-loan ARRL GoKit IC7200 to use WinLink.

ARRL deployed seven Ham Aid HF kits to Hawaii for Hurricane Lane, and these will remain in Hawaii through the rest of the hurricane season. BIARC members have been enouraged to take turns practicing with the kit as great preparation for a real emergency.

The Ham Aid Fund was created in 2005 in response to the need for equipment and resources to support the Amateur Radio response to Hurricanes Katrina, Rita and Wilma.

Ham Aid equipment is available on loan to Amateur Radio organizations during disaster responseto use when other communications equipment is unavailable.





President
Pascal
Nelson
discusses
ARRL
GoKit
currently
on loan to
the club.

BIARC Repeater Committee Report/Update as of November 3 From Chair Gary Schwiter, WH6EPS

The Pepeekeo repeater was inspected and a filter was installed. The filter recommended and provided by Hank Kaul, KH6HAK, helped eliminate the effects of near RF that was causing the receiver receive issues.

Hank also recommended and donated a preamp hoping to boost weak signals. This is an experiment and will be a test. If successful it is hopeful to allow signals in from near volcano based on topography and transmit power into the repeater.

WH6EMN Jim Tatar is also a supporter of the repeater and has donated a 12v battery and charger to help promote disaster preparedness. Two more trips will be planned for the Pepeekeo site on for repeater work and a second for site cleanup/grass cutting.

KH6RDO Darrell Asuka and I went up to Pepeekeo today (Nov. 3) and I installed the battery I had for Kulani. I have 3 or 4 of the APC so we can get another ready for Kulani later. The preamp did not seem to work, however I do want to test at a later date. We may go back up tomorrow to cut the grass.

Thanks, Gary

(The on-site inspections by Gary and Darrell also have brought to light the need for a new connector and a replacement extension cord. Also: the repeater is not grounded.)

At this point the repeater should have a few hours of batter power and the AC side has some protection.

The President's Paragraphs



Pascal Nelson, AC7N

November!

The year's end is rapidly approaching. Remember the BIARC Christmas dinner and gettogether on December 8th. Also, we are looking for nominations for president and a couple of other officer positions.

Those of us who are HF afficianados already know that the solar numbers and global propagation conditions continue to scrape along at the bottom of the solar cycle. Nonetheless, I've been hearing of many DX successes. You can't work them if you don't try. Meanwhile, there seems to be an increase in interest in VHF simplex, especially on 146.52 MHz - the national 2m FM calling frequency.

The results of the Grid Madness exercise, and

intentional simplex nets, the 2018 SET, and other spontaneous trials have given many of us some idea of what can be done on VHF/UHF without repeaters. That's a good thing to know. Antennas, and a little power always help.

The November meeting will feature our usual community catch-up and sharing. We'd love to hear what you have been up to in your ham radio adventures.

The program will be about LTE (4G).

Many of you expressed an interest in getting an overview of the current state of our wireless technology.

It's radio, but not like your 2m FM handheld. Most of us use the new wireless technologies without ever giving a thought to the tremendously complex and fascinating radio and computing technology which enables it, and the stupendous amount of knowledge and experience which made it possible.

I was fortunate to work in the electronics industry where these technologies were being developed over the last 30 years. My ham radio interests and background gave me a launching point, but the radio technology behind our 4G wireless networks should amaze any of us who have not delved into it. I'll try to lift the curtain a bit and let you have a glimpse at the marvels behind your 4G phone, both iPhone and Android.

See you at the November 10th meeting at the Keaau Community Center.

Aloha, Pascal AC7N

National Public Radio features Clem Jung, Hawaii ARRL SEC

National Public Radio (NPR) interviewed Clem Jung (KH7HO), the Hawaii ARRL Section Emergency Coordinator, about the Saturday, Oct 13, ARRL Simulated Emergency Test (SET).

Clem appeared on "The Conversation" hosted by Catherine Cruz. Their conversation gives a good picture of the services Hawaii hams provide to served agencies and communities and the need for emergency preparedness. A copy of the ten-minute interview audio is available at http://hawaiiarrl.info/stories/2018/KH7HHPR-Interview.html.



Club gets intro to ARRL GoKit at October meeting.

Big Island Amateur Radio Club Meeting Minutes Saturday, October 13, 2018

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

Pascal welcomed the following new members:

Wayne Gordon - NOCALL - Hilo

Mary L Uchida - N0ZSJ - Honolulu - Originally from Missouri

<u>Treasurer's Report</u> (End of month – August 2018):

Bank: \$ 1943.06 – up from \$1873.00 as reported in September.

Announcements:

From John, KH6DLK/V63JB – A 737 crashed in Chook recently. The Channels in Chook are currently being dredged in order to be able to accept larger US Naval vessels.

Les, K0BAD – His year 2017 copies of QSTs are available for members to take.

Pascal, AC7N – The INOLOA simplex AllStar node (147.420 MHz) with 100 Hz PL is operational.

Debbie Nelson's parents in Georgia, who had been without power since the recent hurricane, called just prior to the meeting to say that their power had just been restored.

Pascal displayed a certificate of appreciation to be sent to Oscar Resto (KP4RF), the Puerto Rico Section Manager thanking him for his presentation to members of BIARC in September.

Barbara, NH7FY: Reiterated that because Nani Mau is not serving lunch, Friday lunches will continue to be held at the New China Restaurant starting at 11:30. The restaurant is located on Kilauea across from Long's Drug Store.

SET:

This year's SET will be held from 9 a.m. to noon today (Oct. 13). No served agencies participated nor were they represented by SET participants. The scenario was that everything was broken by a hurricane (except Winlink infrastructure). Participants were expected to send messages to Winlink RMS facilities via simplex frequencies. Messages were sent to State ARES Coordinators on O'ahu and included SITREPs -- Situation Reports, DA – Damage Analysis, and RR -- Resource Requests. All of these messages were to have been formatted as ICS-210 reports.

Pascal, AC7N, forwarded 28 messages during the SET exercise.

There was activity on 80, 40, and 30 meters and on 146.520 MHz

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Les, K0BAD, sent his traffic (a single message) directly to a Winlink RMS on 145.090 MHz. There followed a brief discussion about ACS and CERT and the HCCD ACS website.

Pascal, AC7N – There appears to be an issue with DMR radios currently being sold to amateur operators in the USA. These radios, mostly from China, are manufactured and type accepted as Part 90 equipment (land mobile, commercial and public safety services). The FCC claims it is illegal for amateur radio operatory to use this equipment – even if constrained by laws and best practice to frequencies allocated to the Amateur Radio Service. The ARRL is working to clear up this issue.

John, KH7T – We as amateur radio operators need to figure out how to actually do communications when everything else breaks down. While our slogan has been, "When all else fails there is amateur radio," but is there? Are we really ready?

Pascal, AC7N – We are now 99% certain that the person killed in a recent house fire was Robert Oliver, although authorities still have not released his name officially. Barbara Darling expressed concern about the amateur radio installation at the Hilo Medical Center, which Robert was responsible for. James Huntley, WH6FQI, will take over that responsibility. Repeater Committee Report

Gary, WH6EPS: The quarter wave stub filters have been installed at the 146.28/88 repeater site and they appear to be very effective. The repeater is up and running in analog mode with a PL of 100 Hz. Handheld coverage in downtown Hilo is very good. This site will be hardened in the near future with a UPC and new batteries.

A new power supply and new batteries haves been installed at the Kulani site (146.16/76). One older battery that tested good was retained. The new antenna has not yet been installed.

The repeater at Naalehu (156.32.92) is still in storage. There is some urgency in getting the new location officially approved and getting the repeater up and running again.

Lopaka's repeater (147.12/72) repeater survived the volcano eruption although the power sources did not. The solar/battery supply assembly was damaged by lava. Lopaka estimates 2-3 months before he will be ready to turn it back on.

A club member offered Gary a VHF receive preamp that could be used to improve reception on the 156.28/88 repeater. Considering the impact of the new stub filters it was unknown whether a preamplifier would offer any improvement.

Pascal, AC7N – Someone needs to step up and take charge of Christmas Party planning. Please talk with Pascal after the meeting.

Pascal, AC7N – Pascal announced that he will not run for re-election. He and Debbie are preparing to move back to the mainland. The club needs to seek a candidate that is a unifier in order to continue the excellent work began by Pascal. Leslie Hittner is willing to continue as Secretary, but the club must seek a new Treasurer and a new Vice President. Elections are held in December.

The meeting broke for pupus at 1500 and resumed at 1520 with a program presentation of the ARRL Go Kit and Winlink operations after a brief slide presentation of powered gliders, one of Pascal's flying interests.

Respectfully submitted, Leslie D. Hittner, Secretary

Please kokua statewide repeater test: Check in on first Saturday of the month

Amateur radio operators are encouraged to kokua on the first Saturday of each month when the Hawaii State VOAD repeater on Maunakea is tested. The repeater is turned on for a one-hour check, then turned off again. It needs to be tested on a monthly basis to continue to map out coverage and discover what minimal conditions are required to maintain communications on the repeater and to insure that it is operational.

Please check in on the Hawaii State VOAD repeater, 146.72 MHz (PL 100.0 Hz) Maunakea on the first Saturday from 1200-1300 HST.

Please help us map the extent of coverage of the Maunakea repeater by checking in on the HSVOAD net from as many locations as possible.

This is an emcomm repeater, so please use best practices as given by the NCS when operating on the repeater.

This repeater serves the member agencies (e.g., East Hawaii VOAD, American Red Cross, The Salvation Army, Hawaii Pacific Baptist Convention, Team Rubicon, ARES and more https://hivoad.communityos.org/cms/membership) and their partners (e.g., HI-EMA, HCCDA, MEMA, etc.)

Thanks,

Kevin Bogan, AH6QO

ASM Hawaii State VOAD ARRL/ARES Liaison

Club Log's DXCC Most Wanted entities list has been updated

Club Log's DXCC Most Wanted entities list has been updated as of August 28. The list includes 340 entities, and the Democratic People's Republic of Korea (DPRK), or North Korea, is the #1 mostwanted DXCC entity, as it has been for quite a few years.

The other top 10 most-wanted entities, listed in descending order, are: 3Y/B Bouvet Island; FT5/W Crozet Island; BS7H Scarborough Reef; CE0X San Felix Islands; BV9P Pratas Island; KH7K Kure Island; KH3 Johnston Island; VK0M Macquarie Island, and FT5/X Kerguelen Island.



Robert Oliver, NH6AH, SK.

Aloha, NH6AH

Longtime BIARC member presumed to have died in fire

This picture of Robert E. Oliver III, NH6AH, was taken at Hilo Medical Center on June 3, 2015. He and his team of operators had set up an Amateur Radio station during a hospital simulated emergency test. He had done extensive work on the antenna system to avoid interference from the various medical devices.

Although not formally announced yet, apparently due to a problem in locating and notifying next of kin, various officials have confirmed off the record that it is presumed that it was Robert who died in the house fire that destroyed his home in Hilo Sept. 15.

A former president of BIARC, Robert was active in various club functions. He was a licensed architect and had presented a program on how to strengthen a building against hurricanes and earthquakes, noted Bob Schneider, AH6J.

Robert spearheaded development of an emergency communications setup at the Hilo hospital and conducted monthly practice nets. Jim Huntley, WH6FQI, who had participated in the project, is now coordinating emergency comms at HMC.

The Section Manager's Report

Your SM is off to the ARRL Pacific Division Convention (Pacificon) for an education on new developments in the ARRL, new activities and new

technologies in Amateur Radio. A lot to cover and I'm glad an addition to the Pacific Division will help keep ARRL members informed.

We welcome Claire Santos (KH6YO) as ARRL's new Pacific Section Public Information Officer (PIO).

Claire is a registered nurse, businesswoman and social media marketing curator who has many years of experience in emergency management & communication that includes deploying to the island of Kauai for Hurricane Iniki (1992). Claire looks forward to increasing member engagement and recruiting new hams through social & traditional media & more

We welcome Claire Santos (KH6YO) as ARRL's new Pacific Section Public Information Officer (PIO).

organic communication networking.

Claire has expanded our social media accounts to include Facebook, Twitter, Instragram, LinkIn and WordPress.

For information on how you can follow accounts that may interest you, visit: http://hawaiiarrl.info/stories/2018/ARRLHawaii-SocialMedia.pdf

ARRL Pacific Section Section Manager Joseph Speroni, AH0A ah0a@arrl.org

US senator again spotlights ham radio's disaster response role

US Senator Roger Wicker of Mississippi has tweeted about the work radio amateurs have been doing in assisting with disaster response efforts in Florida after Hurricane Michael. Wicker noted that the trained volunteers help maintain critical communication to areas with no electricity, phone, or internet service. Wicker, a Republican, and Senator Richard Blumenthal, a Connecticut Democrat,

sponsored the US Senate version of the Amateur Radio Parity Act (S. 1534). "Amateur Radio continues to be a critical part of our emergency communications operations," Wicker said at the time. "Mississippians learned firsthand after Hurricane Katrina how Amateur Radio operators can provide a resilient, distributed network to first responders and disaster relief organizations when other communications tools fail."

US ARDF team tops its own World Championships medal count in Korea

Team USA took home 10 medals from the 2018 Amateur Radio Direction Finding World Championships, the highest medal count since the US began participating 20 years ago. The 19th running of the event took place near the resort city of Sokcho, South Korea. Hidden transmitters were scattered in forests encompassing 1,000 acres or more. The US has been represented at every ARDF World Championships event since 1988, with competitions taking place every 2 years.

On Sept. 4, the first day of competition, the US won its first medal of this year as Ruth Bromer, WB4QZG, captured individual 3rd

place in the W60 category in the 80-meter foxoring competition. The next day, the team's M50 competitors -- Vadim Afonkin, KB1RLI; Nicolai Mejevoi, and Bill Wright, WB6CMD -- won bronze medals in the classic 2-meter team competition. That same day, the team of Ken Harker, WM5R -- the Team USA Captain and the new International Amateur Radio Union (IARU) Region 2 ARDF Coordinator -- and Joe Burkhead won bronze in the M40 category on 80 meters.

Afonkin took individual gold for his 1st-place finish on 80 meters in the M50 category, boosting the aggregate team score to a bronze in that event for Afonkin, Mejevoi and Wright.

Minnesota club provides support for "Ride The Ridges" cycling event

Members of the Winona (MN) Amateur Radio Club (WARC) provided communication support in mid-September for 300 riders taking part in the "Ride The Ridges" bicycle tour. WARC said the region's scenic hills and deep valleys present a communication challenge. Members patrolled four routes -- ranging from 23 to 105 miles -- as well as seven rest stops, working voice communication via a UHF repeater near Winona and the Riverland Amateur Radio Club VHF repeater 30 miles away in Wisconsin. APRS was used to track SAG and sweep vehicles and also offered messaging capability.

As a public awareness effort, a large-screen display at the ride's start and end showed friends and family the progress of riders. With cell coverage impaired by the terrain, the club installed two temporary digipeaters to assure constant contact with the APRS units.

"We can bring technology to these events that the sponsoring organizations don't have other access to," said Dan Goltz, WKOW, of WARC. "We are there to enhance the event, and to provide a service, not for our benefit but for theirs."



Lance
Tagliapietra,
AD0UT,
manages a
large-screen
display at
ride's start
and end, so
friends and
family could
observe the
progress of
the riders.

FT8 to be permitted in 2019 ARRL RTTY Roundup

The ARRL Contest Branch has announced that participants in the 2019 ARRL RTTY Roundup will be permitted to use the new FT8 protocol, which is part of the WSJT-X software suite. The RTTY Roundup takes place January 5 - 6, 2019.

"Even though digital modes other than RTTY have been permitted in the RTTY Roundup for 30 years, FT8 was excluded in 2018, because it could not manage the required exchanges," ARRL Contest Branch Manager Bart Jahnke, W9JJ, said. "Through the work of the WSJT-X development team, the latest version of FT8 can handle the necessary exchanges that earlier versions were unable to do."

Some limitations will apply to FT8 entrants. Participants must use WSJT-X version 2.0 or later to ensure they are able to transmit and receive the exchange messages the event requires. No unattended operation, including QSO/macro automations, will be allowed. Neither is FT8's Fox and Hounds mode; each contact must be carried out in a one-to-one mode, manually accepting/logging each contact.

Because ARRL contest rules regarding spotting assistance prohibit the use of "automated, multi-channel decoders" by Single-Operator entrants, stations using software that decodes more than one FT8 signal at a time will have to enter as Single-Operator Unlimited or as Multioperator, just as PSK participants have had to do in the past when using fldigi or DigiPan software.

Astronaut's radio contacts with students excite, inspire all involved

"My best day as a teacher!" was educator Kathryn Craven's exuberant reaction following a successful Oct. 22 ham radio contact between International Space Station (ISS) crew member Serena Auñón-Chancellor, KG5TMT, and youngsters at Ashford School in Ashford, Connecticut. ARRL Headquarters provided equipment for the Amateur Radio on the International Space Station (ARISS)-sponsored event, and several ARRL Headquarters staffers were among those assisting in setting up the station, working with teachers, students, and the media, shooting photos, and offering other support.

The entire student body of the kindergartenthrough-eighth grade school in northeastern Connecticut sat in rapt attention during the event, as a dozen of their classmates spoke directly to Auñón-Chancellor, who was at the helm of NA1SS on the ISS. Using ARRL's equipment, members of the Eastern Connecticut Amateur Radio Association (ECARA) set up the Earth station

Serena Auñón-Chancellor, KG5TMT, on the ISS. [NASA photo

International Space Station crew member fires up NA1SS to seek random contacts



"Hello, America. This is the International Space Station. Who's out there?"

And with that "CQ" of sorts on 145.800 MHz, NASA astronaut Serena Auñón-Chancellor, KG5TMT, M.D., spent some time at the helm of NA1SS on Oct. 6 making casual, random contacts -- something fairly rare these days.

The ISS was on a pass that took the spacecraft up along the east coast of the US at the time. In response to a question, Auñón-Chancellor, who has been on station since



Bernard Dubb, KD1DGY, holds microphone as Amena Perry asks astronaut Serena Auñón-Chancellor, KG5TMT, her question.

(KZ1M), with technical and hands-on help from W1AW Station Manager Joe Carcia, NJ1Q, who also assisted in summoning NA1SS for the approximately 10-minute pass. ~~~~~

June, told a caller she's been floating the entire time: "We float every day. Float to work, float back to sleep. It is awesome."

Scott Chapman, K4KDR, of Virginia edited a clip of downlink chatter by the 42-year-old flight surgeon and engineer.

"During most passes of the ISS where I'm working with the packet digipeater on 145.825, I also monitor 145.800 just in case there is any activity on that frequency," Chapman said in a post to AMSAT-BB. "For the first time in my personal experience, today one of the astronauts was randomly calling to see if anybody was listening. Of course I tried to reply on 145.800 simplex, but there are a number of possible uplinks, and none of them were programmed into my radio. They are now! It was a real thrill and, like so much of this hobby, a learning opportunity."

The Amateur Radio FM voice frequencies for stations in ITU Regions 2 and 3 are 145.800 MHz down and 144.490 MHz up. For stations in Region 1, the uplink frequency is 145.200 MHz.

Achieving a "Clean Sweep" is the brass ring of ARRL November Sweepstakes

ARRL November Sweepstakes (SS) offers two popular operating events -- one for CW and the other for phone (SSB) -- which typically attract approximately 3,000 logs combined. For this 77th running ARRL November Sweepstakes, the CW event was Nov. 3 - 5 (UTC), and phone is Nov. 17 - 19 (UTC), each starting at 2100 UTC on that Saturday and running through 0259 UTC on that Monday. Stations may operate 24 of the available 30 hours. Logs are due within 7 days after the event is over. Last year saw 1,275 entries for the CW weekend, while the phone weekend attracted 1,674 logs.

The challenge of SS -- or "Sweeps" -- is to work as many stations in as many of the 83 ARRL and Radio Amateurs of Canada (RAC) sections as possible within the 24 hours available to operate. The number of sections worked is a score multiplier. Making a "clean sweep" is the goal of many SS aficionados -working all 83 of the available US and Canadian multipliers, and qualifying for a clean sweep coffee mug. In the 2017 CW event, only 10 operators managed to work them all. Phone participants had better luck, with 78 clean sweeps. Last year, Puerto Rico (PR) and the US Virgin Islands (VI) were still reeling from devastating hurricanes, making those sections rare.

At one time, the most difficult SS multiplier was Northern Territories (NT) in Canada, where J. Allen, VY1JA, in Yukon Territory, was often the only station available. That's changed now that the VY1JA station not only has been thoroughly upgraded but can be remotely operated (as VY1AAA), although by a Canadian operator, thanks to Gerry Hull, W1VE/VE1RM, who told ARRL recently that VY1AAA was ready for SS action.

Other hard ones in 2017 appear to have been Alberta (AB), Northern New York (NNY), US Virgin Islands (VI), and Wyoming (WY).

SS is a "domestic" contest with broad appeal, and even stations with modest equipment and

antennas can enjoy success. Many stations like to operate in the QRP category (output of 5 W or less), although that challenge is more daunting at this point in the solar cycle.

ARRL November Sweepstakes is the oldest domestic radiosport event (the first was in 1930). The SS contest exchange has deep roots in message-handling protocol and replicates a radiogram preamble.

In SS, stations exchange:

A consecutive serial number (NR). Operators do not have to add leading zeros on numbers less than 100.

Operating category -- Q for Single Operator, QRP; A for Single Operator, Low Power (up to 150 W output); B for Single Operator, High Power (greater than 150 W output); U for Single Operator, Unlimited, regardless of power; M for Multioperator, regardless of power, and S for School Club.

Your call sign.

Check (CK) -- the last two digits of the year of first license for either operator or station. Section -- ARRL/RAC Section.

"Casual operators are very important to SS, so I would advise that if you come across [operators] who just want to help you out with a QSO, take the time to walk them through the proper exchange sequence, and encourage them to work other stations and to submit a log," said now-retired SS Manager Larry Hammel, K5OT. "Your patience might be rewarded with a motivated op next year!"

The SS Operating Guide package, available for download, explains how to participate in the Sweepstakes, including all rules and examples of log formatting. -- Thanks to Gerry Hull, W1VE; Larry Hammel, K5OT, and Bart Jahnke, W9JJ



ARISS plan under consideration for NASA's Deep Space Gateway Program

Amateur Radio on the International Space Station (ARISS) International delegates were pleased to learn recently that an ARISS plan is under consideration by NASA's Deep Space Gateway (DSG) program. NASA Gateway Utilization Manager John Guidi, ex-KF4YUI, informed those attending the annual ARISS-International in-person meeting, held in College Park, Maryland, that ARISS is the only noncommercial entity whose ideas are under study by the program. The ARISS plan focuses on Amateur Radio communication, including optical communication channels, as well as equipment development, team cooperation, education, and public outreach.

"Naturally, because the NASA Deep Space Gateway program is so new and has yet to be fleshed out, ARISS needs to follow NASA's lead in being open to how the DSG program flows," ARISS-US Delegate for ARRL Rosalie White, K1STO, explained. "ARISS's first moves need to be loose enough that the plan, development, and execution can go in ways that dovetail with what is needed."

The Deep Space Gateway would be a small outpost orbiting the moon that would act as a "spaceport for human and robotic exploration to the moon and beyond," NASA has said. Crewed by four people, it would provide an operational platform for further exploring the lunar surface and a hub to deeper space destinations. NASA hopes to have the completed Gateway in lunar orbit as early as 2024.

The ARISS-International annual meeting on October 17 - 19 ran back to back with the first-ever ARISS Education Summit, held October 15 - 16. At the ARISS-International sessions, delegates and team

members from around the world presented and listened to talks on all aspects of ARISS, from operations to education to hardware -- current and upgrades -- to future projects. The team heard the latest news on HamTV, the Interoperable Radio System, the antenna change-out required by the European Space Agency's Bartolomeo platform, and proposed Astrobee activities, HamTV II, and Radio-Pi projects.

Astrobee is a robot that will fly around the ISS with the astronauts to help scientists and engineers develop and test technologies for use in zero-gravity, aid astronauts with routine chores, and offer Houston flight controllers additional eyes and ears on the spacecraft.

Team members enjoyed viewing a live-streamed ARISS contact in Belgium. Team members unable to travel to Maryland were able to teleconference into the sessions.

On hand for the earlier ARISS Education Summit were teachers from the US and elsewhere: ARISS-US Education Committee members; STEM educators from College Park Airport Museum; education leaders from various NASA entities, including the Space Communications and Navigation (SCaN) office, nearby Goddard Space Flight Center (GSFC), and the manager of the ISS US National Laboratory -- Center for the Advancement of Science in Space (CASIS); a group of SCaN-sponsored mid-Atlantic teachers, and University of Maryland educators and students. Attendees saw a demonstration of ARISS slow-scan television (SSTV) and several ham satellite contacts. ARISS-US Education Committee teacher Melissa Pore, KM4CZN, arrived from Virginia with eight of her students, who talked about their ARISS-related STEM studies. Read more. -- Thanks to Rosalie White, K1STO



Annual Global Learn Day on the Air aims to shrink the world ... one contact at a time

Each year, Global Learn Day on the Air aims to shrink the world ... one contact at a time.

Global Learn Day on the Air (GLDOTA) is an extension of Global Learn Day, which celebrates learning and encourages everyone to recognize the importance of education.

This year's GLDOTA started at 0001 UTC on October 5 and continued through 2359 UTC on October 8.

During the event, individual radio amateurs and clubs are encouraged to exchange contacts with each other and to include children in this learning activity.

"Each contact during GLDOTA is a celebration, reducing the distance between us as we shrink the planet one contact at a time," the event announcement said.

Coordinators suggest that participants use these frequencies: 3.803, 7.187, 14.287, and 21.387 MHz. Contacts via satellite and with the International Space Station are also valid.



Ten Ten International

You have to make contacts to get results



Aloha Chapter

Ten-Ten International

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

Upcoming 10-10 events

Sat Nov 10, 2018 00:00 -Sun Nov 11, 2018 23:59 Fall Digital OSO Party Tue Jan 01, 2019 00:00 10-10 Anniversary

Aloha, fellow amateur radio operators:

There's a special FREE offer for any ham interested in Morse Code -- at any level.

A free two-year membership, or extension of a current or lapsed membership, is offered by the Americas Chapter of the FISTS CW Club, reports club membership manager Dennis K6DF. This one-time offer is "due to no Keynote newsletters being produced from Jan. 1, 2017 to Aug. 15, 2018."

The free period runs from Aug. 15 2018 to Aug. 15, 2020. Current members automatically receive the extension. Lapsed and new members need to send a request to membership@fistsna.org.

Or, drop a snail mail note to Dennis at Americas Chapter, FISTS CW Club, 300 Town Center, Suite 2370, Southfield MI 48075.