

USGS Hawaiian Volcano Observatory photo, map

# The Big Island Amateur Radio Club Newsletter

Hawai'i Island  
March 2014



## President's message

**Dear BIARC members:**

**Lopaka's Presentation:** I'd like to take a moment to say what an amazing presentation by Lopaka Lee at the February general membership meeting. Please see highlights of his presentation in this newsletter. I encourage all to participate in your monthly BIARC general membership meetings and presentations.

Now, on to this month's message.

**Boxers or Briefs:** Walking down the boardwalk in Atlantic City, a couple spotted an older man coming their way. His dark blue shirt bore the bold question: "Boxers or Briefs?" with arrows pointing toward his back. In passing, they turned to see "Depends" written on the back.

Every day, we face decisions and the questions that life presents similar to the question on the man's shirt. The questions we face may be option 1 or 2, what's behind Door #1 or Door #2, Go Left or Go Right, and so on. What is perhaps most interesting is that most people respond, "Depends," to life's decisions.



**HANSON**

What exactly does "Depends" mean? Nike says, "Just Do It." Texas business tycoon Ross Perot, in his campaign for the presidency, gave his famous snake speech where he said if he sees a snake, "I just kill it," [versus forming a committee, and a sub-committee to that committee, to study the snake]. Do coqui frogs or fire ants mean anything to you?

**The Scenery Never Changes:** For the most part, only a minority of folks reach out, grab the bull by the horns, so to speak, and take control of whatever life throws their way and just do it, while the majority of people answer life's decisions with a rubbery backbone, lack of conviction, and say "Depends."

Depends on what? If we are talking about the planets to be in perfect alignment and the conditions be absolutely right, we'll be waiting for hell to freeze over. It is rare for conditions in life to be optimum. Conditions are for the most part like a card hand. We are dealt a hand of conditions and what we do with what we are dealt is what is most important. But as we



**Gunnery  
Sergeant  
Carlos  
Norman  
Hathcock II**

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wait for the conditions to perhaps improve to make a decision, life's opportunities slip by. Taking an active role in decisions and their actions, or not, is like being on a mush dog team. You've heard the saying, "If you're not the lead dog, the scenery never changes."

Actually, we need to take a look at the step right before decision-making and that step is a state of mind called Attitude: "Attitude equals altitude." One of my favorite quotes in reference to attitude is from Fredrick Lang-bridge and it goes like this, "Two men looked through iron bars; one sees mud, the other stars." Whether we view the Glass of Life as being half empty or half full is everything. What we do when handed lemons in life can be the difference in being or becoming bitter or making lemonade. "Within life's struggles lies greatness." (Quote by Bill Hanson.)

**The Squirrel Hunt:** Back in the 40s and 50s was a boy who would hunt squirrels in the woods near his home in Arkansas. That could be fun, but actually, he hunted squirrels so his family could eat; the consequence of which meant possibly going without dinner if he missed. Over the years, Carlos became very good with a rifle. No matter what the weather conditions or distance the shot, Carlos was successful.

In the 1960s, Carlos went into the Marine Corps and was stationed in Vietnam as a gunnery sergeant and sniper. Carlos was instrumental in saving thousands of U.S. soldiers' lives, because of skill he mastered in the woods near his house.

Carlos Hathcock earned a Silver Star, the

Purple Heart, and the Navy Commendation Medal as a dead-shot. So good at what he did, he actually was a sniper who took out other snipers, most famously a North Vietnam soldier sent to kill him. Hathcock turned the tables on the enemy, shooting him through his scope a split second before the North Vietnamese could pull his trigger.

Like Hathcock, struggling to put food on the table, we too face struggles. We perhaps wonder and say to ourselves, what good could ever become of all this, or why me? But, what we make or don't make of life's situations defines each and every one of us as the person we are.

**Depends:** As amateur radio operators, perhaps we will be instrumental in saving lives. I encourage BIARC members to adopt the resolve of looking at the glass of life as being no less than half full. For some, our cup may even "runneth over." I exhort all to light a candle of hope in your hearts as we move forward as a club, whether as just a hobbyist or beyond, let us consider dedicating some of our personal time and talents in performing selfless works. Let us work together toward common, worthwhile goals. I think we have a right to complain about life's struggles and rightfully so. We can justify ourselves in doing so. But after the dust clears, the only one that can really make a difference in our individual lives will be us as individuals and collectively as we work together. So, in a way, it does "Depend." It does depend on each and every one of us, and all working together to truly make a difference.

**Mahalo,  
Bill Hanson/NOCAN**

# Big Island Amateur Radio Club

P.O. Box 1938

Hilo, HI 96721

*[www.biarc.net](http://www.biarc.net)*

## Officers for Calendar Year 2014

President: Bill Hanson, N0CAN, 989-4700  
Vice President: Milt Nodacker, AH6I, 965-6471  
Secretary: Leigh Critchlow, WH6DZX, 930-7330  
Treasurer: George Bezilla, WH6EFN, 961-6323

## Directors — 2014-2015

Toni Robert, N0INK, 937-2183  
Barbara Darling, NH7FY, 982-9126

## Directors — 2013-2014

Mary Brewer, WH6DYW, 985-9595  
John Buck, KH7T, 885-9718  
John Bush, KH6DLK/V63JB, 935-5500

(Club License Trustee: Paul Ducasse,  
WH7BR, 985-9222)

## Standing Committees

(as of December, 2013)

Service/Awards: vacant  
Education & Testing: Milt Nodacker, AH6I  
Emergency: Paul Ducasse, WH7BR  
Equipment: Milt Nodacker, AH6I  
Health & Welfare: Barbara Darling, NH7FY  
Membership: Richard Darling, AH7G  
Hospitality: Jean Nodacker, WH7WT, 965-6471  
Newsletter: Leigh Critchlow, WH6DZX  
Repeater: Bob Schneider, AH6J  
Webmaster: Curt Knight, AH6RE

## Special Committees

Field Day Chair: Robert Oliver, NH6AH (969-9993)  
Hamfest Chair: Bob Schneider, AH6J  
co-Chair: Doug Wilson, KH7DQ  
QSL Bureau Chair: Barbara Darling, NH7FY

## Meetings and Get-Togethers

Membership meetings: Second Saturday of each month at 2 p.m. at the Keaau Community Center  
Friday Lunches: A group meets for lunch every Friday at 11:30 a.m. at Kow's Chinese Restaurant in Hilo at 87 W. Kawailani St., just above Kinoole Street behind the Shell station.



## *East Hawaii Net*

The East Hawai'i Net meets on Monday, Wednesday and Friday mornings at 8AM HST on the 146.76 MHz repeater.

## *ARES Emergency Net*

Meets Saturday evening at 1900 HST on the 146.76 repeater. Backup is 146.76 simplex. All are welcome to check in.

## *BIWARN Accessible Repeaters*

Repeaters in bold font are BI WARN/MCDA linked. When operating over a link, remember to leave extra time in each transmission for the link to be established. The number in parentheses is the tone access frequency.

- 145.29- HOVE-Ka'u WH6FC (100)
- 146.66- HOVE (100)
- 146.68- Keaau limited area KH6EJ
- 146.76- Kulani KH6EJ
- 146.82- Mauna Loa ARES KH6EJ
- 146.88- Pepeekeo KH6EJ (may be linked)
- 146.92- Ka'u PD KH6EJ
- 146.94- Haleakala Maui KH6RS (110.9)
- 147.02+ Haleakala, Maui RACES KH6HPZ (103.5)
- 147.04+ Mauna Loa RACES KH6HPZ
- 147.16+ Kona (Hualalai) WH6DEW (100)
- 147.32+ Waimea Hospital NH7HI (100)
- 147.38+ Waimea-East KH7T experimental
- 442.35+ Kaanapali, Maui (136.5)
- 442.5+ Keaau KH6EJ
- 443.40+ Ocean View KH7MS (77.0)
- 443.40+ Kona KH7MS (100.0)
- 443.65+ Ocean View Hub
- 444.225+ Haleakala, Maui KH6RS (110.9)
- 444.45+ Parker Ranch KH6EJ (88.5)
- 444.9+ Hilo WH6FM WIN system (100)
- 444.775+ Hilo WH6FM XO system (123)



# Lee talks techtonics, technology, telemetry, radios by the stack

## Circa 1936, HVO used Morse Code in record keeping

The February monthly program was presented by Lopaka Lee, WH6DYN, of the U.S. Geological Survey's Hawaiian Volcano Observatory. HVO, located on the back side of the Jaggar Museum, overlooking Halema'uma'u Crater, is one of a handful of USGS observatories.

Established in 1912, it was THE original USGS observatory, studying and monitoring its active volcanoes for a good seven decades before the Cascades Volcano Observatory was established following the eruption of Mount St. Helens in 1980. It was followed by observatories in Alaska, Yellowstone and California.

At HVO, within Hawaii Volcanoes National Park, a staff of 26 is augmented by additional researchers, contractors and volunteers. In addition to monitoring Kilauea, Mauna Loa and Hualalai on the Island of Hawaii, Haleakala on Maui, and the Loihi seamount, HVO workers assess hazards, respond to eruptions and earthquakes, keep the public informed and work on a variety of ongoing research projects.

Lopaka gave us a peek into how volcanoes work, a brief history of activity and a current update, illustrating his talk with photos and graphics. He traced the history of technology at HVO from the early, literally more hands-on days to the age of digital data-keeping and the equipment that has gone along with each step forward.

Noting that Pu'u 'O'o has been erupting in one fashion or another since 1983, he said: "31 years later, and it's still going." He showed a recent map which pinpoints all of the Kilauea flows since 1983. He fielded questions from the audience, and showed videos of eruptions — explosive and more peaceful episodes — and a Feb. 1 movie of the lava lake now active in Halema'uma'u



Lopaka Lee, WH6DYN, of the USGS Hawaiian Volcano Observatory, discusses the lava lake in Halema'uma'u Crater at the summit of Kilauea volcano. The photo on the screen shows the lake as it appeared on Feb. 1.

— — — *Linda Quarberg, WH6LQ*

Crater some 4,000 feet above sea level.

What about Kilauea's neighbors, the other active Big Isle volcanoes? Lopaka pointed out that Mauna Loa, "the sleeping giant in our backyard," is 500 times bigger than Mt. Rainier, a fact the HVO crew enjoys pointing out to their counterparts at CVO.

He showed a graphic delineating the historical flows of Mauna Loa, "which has a huge magma supply rate when it does erupt." When lava from Mauna Loa pours downslope in areas with a steep pitch, it can take only a few hours for flows to reach the ocean. This doesn't give much time for folks living in a flow path to get out of the way.

Lopaka gave a brief history of telemetry at HVO, drawing on accounts by Tom English, an HVO alumnus who all-to-well remembers earlier days of seismometry and smoke drums, changing countless setups of waxed paper, and the art of getting a reading after giving each completed sheet a bath of shellac and alcohol. "And we were still using smoke drums into the '80s,"

said Tom. (Lopaka showed a photo of HVO founder T.A. Jaggar working with smoke drums.)

The first telemetry at HVO involved miles and miles of cable. Circa 1936, scientists used Morse Code in their record keeping. In the '50s, voice carrier signals over phone lines allowed a single cable to demodulate a number of signals. At first, 8 channels per single carrier proved "a big game change." Then in 1969, Mauna Ulu flows took out a lot of cables. Scientists then transitioned to FM radios until the '90s. VHF/UHF, unidirectional telemetry, stacks and stacks of radios in an "analog FM Radio Network." He showed a graphic demonstrating how the system worked. From the mid to the late '90s, HVO moved to "all-digital networks." Scientists had run out of spectrum; science required more bandwidth; operations need bi-directional communications. In the late '90s, technology started forcing HVO in different directions.

From the year 2000, to the present, it's been "The digital-microwave era," Lopaka said.

HVO now has 250 instruments distributed around the Big Island, the bulk of them on Kilauea and Mauna Loa, and all microwave-tel. HVO's backbone is three microwave rings, with tiltmeters, seismometers, GPS receivers, gas sensors and webcams.

He showed photos of repeater sites, all of them off-grid — most of them photovoltaic, with some operated on windpower. HVO also has "rapid-deploy systems" designed by Kevan Kamibayashi, WH6ECW, and his crew, to be transported by helicopter. HVO's backbone radios are Motorola PTP 5.8 GHz, PTP54500 and PTP58500, spread spectrum without the need for line-of-sight. They cost \$8,000 to \$9,000 per link and switch between modulations to get the data through. Technology now is forcing the scientists in the direction of WiFi radios. They're cheap, and with them, "we have 40-mile shots," said Lopaka.

A break for refreshments prepared by hospitality Chair Jean followed, before the group reconvened for the main business portion of the meeting.



## Minutes

### Big Island Amateur Radio Club general membership meeting February 8, 2014 Keaau Community Center

President Bill Hanson, N0CAN, convened the meeting at 2:04 p.m., with a total of 42 hams in attendance. Also present: Vice President Milt Nodacker, AH6I; Treasurer George Bezilla, WH6EFN; Secretary Leigh Critchlow, WH6DZX; Directors John Buck, KH7T; Toni Robert, N0INK, and John Bush, V63JB/KH6DLK, and fellow members David Ratzlaff, WH6EHG; Dar-ryl Koon, AH6TQ; Barbara Darling, NH7FY; Richard Darling, AH7G; Glenn Kadota, AH6IO; Mike Last, NH7JT; Shirley Golden, NH7OH; Sidney Sellers, NH7OD; Ceri Sanders, WH6ECS; Rick Bowen, WH6ECR; Paul Agamata, WH6FM; Chris-tine Matsuno, WH6KKB; David Shearer, WH6AWH; Ray Dustin, N5NNK; Francis Blas, WH6CVG; Beau Mills, NH7WV; Linda Quarberg, WH6LQ; Lopaka Lee, WH6DYN; Doug Wilson, KH7DQ; Andre Robert, WH6EBA; Satoshi Yabuki, AH6TG; Doug Pase, AH6UD; Paul Lakin, WH6DYX; Nancy Lakin, WH6DYY; Jim Sky, KH6SKY; Joe Owen, KH6GA; Bob Schneider, AH6J; Sean Fendt, KH6SF; Tom English, WH6EBS; Paul Ducasse, WH7BR; Greg Erk, WB7UBC; Kevin Hanna, AH6UK; Kim Fendt, KD0QLR; Jean Nodacker, WH7WT, and Robert Oliver, NH6AH.

In addition to the traditional round of self-introductions, and sharing of recent contact

milestones, several announce-ments were made. Barbara congratulated Linda on being named East Hawaii Donor of the Year by the Blood Bank of Hawaii and held up the Jan. 25 Hawaii Tribune-Herald front page story and photo paying tribute to Linda and her first 197 pints — donated over a stretch of volunteerism dating back to 1975. Barbara also passed around QSL cards that had arrived for members.



QUARBERG

Milt distributed copies of the proposed BIARC bylaws changes and the proposed 2014 budget. Noting that the membership would vote on these two items later in the meeting, he reminded everyone that dues are due before a member is qualified to vote. He announced that the next Technician Class will start March 6, with sessions at 6:30 p.m. weekly at the Orchidland LDS church. Call Milt at 965-6471 if you know someone who is interested.

Toni announced that the next four-weekend Com-munity Emergency Response Team training will start Feb. 22 at Aupuni Center in Hilo. She is the Civil Defense Agency's volunteer coordina-tor for Hawaii County's CERT program, which is part of a nationwide effort focused on creating community resili-ency and preparedness.

Beau told the BIARC crowd that his son, Inoke, WH7DI, has fulfilled all of the steps leading to qualify-ing as an Eagle Scout.

Bill announced that the annual ARRL Field Day will



1913 photo of Dr. Thomas Jaggar, founder of the USGS Hawaiian Volcano Observatory, working on his seismograph.

be held Saturday, June 28, at a location yet-to-be-finalized that will expose ham radio to as many as 3,000 persons. The 24-hour event will be present-ed in partnership with various other organizations. He posted a sign-up sheet on the wall and asked members to volunteer to help out that day. There will be lots of opportunities to assist, before and during the event.

Referring to photographs in the February BIARC newslet-ter, Bill gave an update on the recent inventorying expedi-tion he, Bob Schneider, Milt Nodacker and Doug Wilson took up to Mauna Loa and Mauna Kea. They visited the Kulani Cone "Shack on High," the repeater site in Pepeekeo and other locations, including Naalehu. At each place, equip-ment was inspected, identified with a bar code and labeling system, and duly noted on the official club inventory list. By regulation, a current copy of our FCC license must be posted at each site, and the group made sure we are in compliance with this rule.

Bill said the club volunteers

### Vote on BIARC updated by-laws set for March meeting

The proposed amend-ments to the BIARC By-laws which were tabled at the February meeting will be pre-sented for vote at the March meeting. The proposal was tabled in February when it became apparent that some revision was needed. The revised amendment will be available for review on the website follow-ing the Board of Direc-tors meeting March 4.

— — — Milt  
Nodacker, AH6I

visited all of the locations where they knew equipment was located. "Is there any other equipment out there?" he asked. (At that point, Bob said he had received a report an hour earlier that the repeater at the Naalehu Police Station is inoperative.



# Minutes

He said BIARC reps would be making a trip over to Naalehu to check on the repeater. Blake immediately interjected an update, saying he had just turned off the Naalehu repeater and rebooted it, so all was well, crisis averted.)

In response to Bill's query about other BIARC equipment remaining at-large, Robert, who has chaired the annual Field Day for the last few years, said he has a Yagi antenna and some other components of equipment left over from Field Day stored at his house. Milt said there's no need to inventory parts of equipment, or some items installed and in use at certain locations. Richard stressed that there is more equipment out there that BIARC has been trying to round up on an inventory list for the last 12 years. This is equipment that has nothing to do with repeater sites, he said. Toni told Richard that the inventory volunteers used their own time, gas and equipment to do the job and that he should say "thank you" to the current board of directors for doing in one month what he couldn't accomplish in 12 years. John Buck suggested that some outstanding items, such as those mentioned by Robert, should be inventoried.

The minutes of the previous general membership meeting were approved as circulated in the February newsletter. Treasurer George submitted the monthly financial report, and said the on-book balance totals \$3,850.56. Education/Training Chair Milt again discussed the upcoming Technician class, which is open to all. He had hung the big banner announcing the next class at the side of the Keaau meeting room, and said he would be posting it in front of the Orchidland LDS church.

Big Island Amateur Radio Club			
2014 Proposed Budget			
2014 Available Funds Projected		2014 Projected Expenditures	
Full members 90@ \$20	1800	Insurances	600
Special New Members 10@ \$10	100	Administration (postage, PO Box, supplies, health and welfare, memberships, fees)	275
Family Members 20@ \$10	200	Field day	225
Associate and Student 5@ \$10	50	Social and Christmas Party	200
Repeater donations	600	Repeater maintenance	1000
General donations	200	Repeater upgrades	2500
Total Projected Income	2950	Total Projected Expenditures	4800
Carryover from 2013	3855	Projected Carryover to 2015	2005
Total	6805	Total	6805

Tuition, as always, is free, with the only fee being \$15 for the testing on the final night. *(He noted that the next VE Testing for all license levels would be Feb. 20 at the LDS Stake Center on Kilauea Avenue in Hilo. See report on the testing results elsewhere in this newsletter.)*

QSL Bureau Chair Barbara gave her year-end report for 2013. Last year a total of 29,687 cards arrived from a slew of countries. Of that, 14,545 were from Japan. Since BIARC assumed responsibility for the QSL Bureau in March of 2008, Barbara and Richard have processed 157,400 cards for hams throughout Hawaii. In January, 1,698 cards arrived. The postage fund at Bank of Hawaii stands at \$1,253.04. This is money sent in by folks participating in the ongoing search for new countries to add to their lists of contacts. Right now, there are 340 DXCC geographic entities which qualify as contacts.

Proposed bylaws revisions: During the business meeting, it was moved by John Buck and seconded by Glenn Kadota that action on the proposed bylaws revisions, as posted on the

BIARC website, be tabled until the March 8 general membership meeting. This followed discussion of the proposed removal of a portion of the current bylaws which states that club officers and directors must bring before the general membership any proposed action that would affect the general membership as a whole. Milt said the board removed that section because it was considered "redundant." Also, there is a word misspelled in the draft revision.

The portion of the current bylaws that would be deleted in the new bylaws follows: SECTION 2.

Powers of the Board of Directors. The Board of Directors shall have full power and authority over the affairs of the corporation as specified below: (a) To make and change policies, rules and regulations not in conflict with the law or the Articles of Incorporation or with these bylaws for the management of the corporation's business or affairs. The Board of Directors shall bring to the General Membership for approval, all major decisions, monetary

and policy, that affect the general membership as a whole.

Proposed 2014 budget:

It was moved by Milt, seconded by Sean and approved by the membership that the budget be adopted as presented by Milt. *(See budget breakdown on this page.)*

Prior to the vote, Richard objected to the projected carryover of repeater funds to 2015. John Buck said we need to come up with a system design to reduce delays at each link site on the BIWARN system, and the cost of doing this will use the money allocated this year for repeater work.

Bill said a BIARC 2014 Activities Calendar will be presented at the March 8 meeting. He has repeatedly asked the members to weigh in on ideas for club activities. Additional ideas suggested at this meeting included a program on prepping, a fox hunt and field trips to repeater sites.

The meeting ended at 4:48 p.m. Next meeting is at 2 p.m. on Saturday, March 8. Respectfully submitted

— — — Leigh Critchlow,  
WH6DZX  
Secretary

Described in an online dictionary, **TELEMETRY** is the highly automated communications process by which measurements are made and other data collected at remote or inaccessible points and transmitted to receiving equipment for monitoring.[1] The word is derived from Greek roots: tele = remote, and metron

= measure. Systems that need external instructions and data to operate require the counterpart of telemetry, telecommand.[2] Although the term commonly refers to wireless data transfer mechanisms (e.g., using radio, ultrasonic, or infrared systems), it also encompasses data transferred over other media such as a

telephone or computer network, optical link or other wired communications like phase line carriers. Many modern telemetry systems take advantage of the low cost and ubiquity of GSM networks by using SMS to receive and transmit telemetry data. A telemeter is a device used to remotely measure any quantity. It

consists of a sensor, a transmission path, and a display, recording, or control device. Telemeters are the physical devices used in telemetry. Electronic devices are widely used in telemetry and can be wireless or hard-wired, analog or digital. Other technologies are also possible, such as mechanical, hydraulic and optical.

## 10-meter mission in 2014

# 10-10 Spring Digital, CW QSO Parties on tap



***11 Technician Class Licensees have 10-meter privileges, so try your hand on HF!***

Start preparing for the Ten-Ten Spring Digital QSO Party, April 26-27, with the May 3-4 Spring CW QSO Party following soon after. For further details, check [www.ten-ten.org](http://www.ten-ten.org).

Ten-meter propagation has been “sketchy,” but NH7PE caught a Wednesday Daily Net on 28.380MHz with 42 checkins. NH7PE was able to hear most of them and contacted and exchanged info with 11 stations.

If you need your 10 initial contacts to join Ten-Ten International Net, give one of their daily nets a whirl. Two nets run at the same time. 1800Z or 8 a.m. HST on 28.380MHz and 28.800MHz every day except Sunday. Listen, and if you can hear us, join in.

There are approximately 80 chapters that meet weekly around the world, also. Give us a call! Thanks!

In this New Year 2014, the Anniversary QSO Party participants are looking

for 10-10 numbers with 52 in them. It doesn't matter where in the 10-10 number it appears. For example, 5234, 15298, 46529 and 33652 all are correct.

You have the rest of the year to amass a log for submission. Meet the Volunteers QSO Party will likely have most of the same volunteer members. Contacts made in 2014 are valid entries for your log.

All Technician Class Licensees have 10-meter privileges, so try your hand on HF!

The Aloha Chapter of Ten-Ten International Net, Inc. meets on 28.490 MHz, with an alternate frequency of 28.487MHz, every Monday evening at 6:30 p.m. HST. If you don't hear me, don't just listen, call “CQ!” Help keep 10 meters in amateur radio hands.

Thanks and aloha.

— — —Irene, NH7PE

## BIARC ARRL Field Day is June 28-29 at Hilo Wal-Mart

BIARC, in conjunction with ARRL, will be conducting Field Day 2014 on June 28-29. BIARC and ARRL will be partnering with Hilo Wal-Mart for this year's venue.

Field Day 2014 will be an event for BIARC and ARRL as we further partner with Civil Defense, FEMA Citizen Corps Program, the National Guard, and the Dept. of Education to bring what is sure to be an awesome event to Hawaii Island.

The origin of emergency communications support will be at the core of this year's event.

However, focus on contesting will also be stepped up, as well as exposure to the public about Field Day, ARRL, BIARC and amateur radio.

All great efforts are always a team effort and this event will be no different. An “Event Working Group” is being formed to address all aspects of plan-

ning and execution.

All BIARC members are cordially invited to take part in the working group, as there are many areas needing helping hands.

If you are interested in working together, please contact either Bob Schneider of ARRL at 966-8146 or Bill Hanson of BIARC at 989-4700 for details and we'll get you started.

Those interested don't necessarily need to be skilled in their area of interest. A desire to work qualifies you as a valued member of the Event Working Group.

The activity areas we are seeking your help in are as follows:

- Hazard Scenario
- Stations and Event Area Design/Layout
- Engineering and Logistics
- PSAs
- Partnership Collaboration
- Donations and Volunteer Management
- Safety and Security
- Event Operations



[waymarker.com](http://waymarker.com)

BIARC, in conjunction with ARRL, will be conducting Field Day 2014 on June 28-29. BIARC and ARRL will be partnering with Hilo Wal-Mart for this year's venue.

- Public Information and Outreach
- Rehab (food, beverages and rest for event volunteers)

— — —Bill Hanson,  
N0CAN  
(No, can!)

### BIARC Newsletter

Story/photo/ad submittal deadline  
for April edition: March 20  
email to [lcritchlow@mac.com](mailto:lcritchlow@mac.com)

# ARRL Centennial QSO Party arrives in Hawaii

The ARRL Centennial QSO Party is a year-long operating event. Full information is available at the ARRL web site.

The central aspect of the QSO Party is the portable operation of the ARRL headquarters station W1AW in each U.S. state and many of the territories.

Each state operation begins at 0000Z on a Wednesday (Tuesday afternoon at 1400 HST) and runs for a week.

Two different states are activated during each operating week, and each state is activated for two different operating weeks during 2014. Ideally, during the operating week stations would be operating on each of the HF bands and using CW, SSB, and digital modes for the whole seven days.

The first of Hawaii's two weeks was held in early February. The second Hawaii week of the ARRL Centennial QSO Party will start on Dec. 16 at 1400 HST.

(This time frame reflects a recent change from the originally scheduled second W1AW week start date of 0000Z on Aug. 20. The change was made to avoid conflict with the HQP. The new W1AW/KH6 week will be 12/17. The new date doesn't seem to conflict with any contests we'd be interested in. It should also be a little better for working the lowbands. We're good to go.)

Lloyd, KH6LC, is the coordinator for W1AW portable operations in Hawaii.

The first of the two weeks allocated to Hawaii began at 0000Z on Feb. 5. During that week, stations on Oahu, Maui, Molokai and Hawaii islands cooperated to produce 33,292 contacts with stations in 140 DXCC countries. Interest in this event is evidently very high and my experience is that a CQ could result in a pileup of hundreds of stations answering.

A band and mode summary of the operation shows the effort that was put into the W1AW/KH6 operation (see table, at right)

— 73, Lloyd, KH6LC



Lloyd, KH6LC (on the right), watches Fred, KH7Y (in the rear), and Rob, NH6V, operate at KH6LC.

— — —Curt Knight, AH6RE

Band	Mode	QSOs
1.8	CW	286
1.8	LSB	1
3.5	CW	1024
3.5	LSB	276
3.5	RTTY	187
7	AM	1
7	CW	2135
7	LSB	973
7	RTTY	733
10	CW	1766
14	CW	2102
14	JT65	1
14	PSK31	132
14	RTTY	1338
14	USB	2612
18	CW	963
18	RTTY	303
18	USB	1072
21	CW	2713
21	JT65	19
21	PSK31	54
21	RTTY	1428
21	USB	3197
24	CW	1446
24	RTTY	57
24	USB	1755
28	CW	2954
28	JT65	1
28	PSK31	144
28	RTTY	1132
28	USB	2481
144	USB	5
420	USB	1

**Total: 33,292**

## Yasme Foundation honors

The Yasme Foundation Board of Directors has announced the nine recipients of its Excellence Award for 2013. The award "honors individuals who, through their own service, creativity, effort and dedication, have made a significant contribution to Amateur Radio" -- technical, operating, or organizational. The Yasme Excellence Award is in the form of a cash grant and an engraved crystal globe.

Among the nine honorees are four singled out for years of services "made freely available (which have) greatly enriched and educated U.S. amateurs." And among these four is Joseph Speroni, AH0A, of Honolulu. The others are Michael Carroll, N4MC; Eldon Lewis, K7LS, and Dean Gibson, AE7Q.

These guys have played a major role in providing radio amateurs with convenient access to information maintained in FCC databases. Before it was discontinued earlier this year, N4MC's Vanity HQ site was the single most popular resource for U.S. amateurs seeking to obtain a desired call sign. Carroll continues to maintain the National Silent Key Archive and call sign history database. K7LS and AE7Q have created similar online services. AH0A was a pioneer in providing useful summaries of licensing information, including licensing statistics.

For additional information about The Yasme Foundation, visit its website at [www.yasme.org](http://www.yasme.org).



## *Ever hanker to play with the big boys?*

# It is remotely possible, even from middle of ocean

Few get the opportunity to operate a Ham Radio Super Station in a contest. Access to stations with multiple towers, huge antenna arrays and full power in low noise QTHs with state of the art equipment is rare. So when a group of us got a chance to operate such a station remotely from Hawaii, we jumped at the chance. Honolulu Ham Radio contesting can be difficult. The choice of the CQ 160M CW contest would be unthinkable from my Lanai.

Others in our group have various HF antennas, but none on 160. Besides a 160M contest from the middle of the Pacific can be a limiting experience. We operated over Internet using "Remote Ham Radio's" Blueberry, NY station with a two element full-sized 160M vertical. Four separate K3 locations in Honolulu were connected to the K3/Expert 1K-FA Amplifier in Blueberry using Microbit RRCs. Each of us operated from our own QTH. There are pros and cons to remote operating.

There is no travel time to the superstation. Having easy access to our own kitchen, shower and bed is calming. Picking a 160M station in NY reduced the early overnight hours. The band is dead from about two hours after sunrise to two hours before sunset - 03:00 to 11:00 in Honolulu. That raises the prospect of future group contesting involving with Hams from all three ITU regions so everyone could get a 09:00-17:00 shift. Something to think about for future contests.

On the con side, not having everyone in the same location makes coordination a little more difficult. You can't just run out to the sleeping area and wake someone up to cover your station while you get some rest. Planning an operator schedule in advance helped. For now it looks like single station, multi-ops are the norm for remote group contesting. But that will change.

We used N1MM with remote networking. What an exquisite CW contesting tool! One different aspect of operating N1MM in a remote network is that every operator has to setup his own software. A great education opportunity but different from most of the FD or other group contest experiences I've had. Usually there is just one or two software guru's that sleep close by the station to fix things when they go wrong. Each of us had the fun of setting up N1MM in an Internet network for the contest.

How did we do?

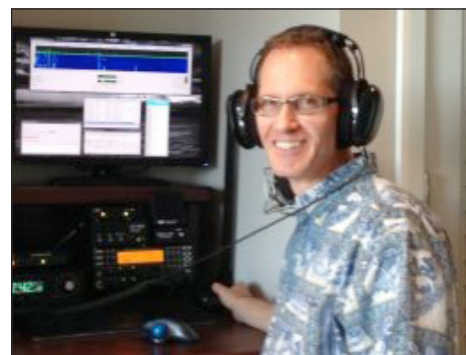
Well, four of us - KH6MB, KH6FP, WH7W and AH0A - split up 40 operating hours and worked over 840 contacts. We worked all 48 mainland states and all but



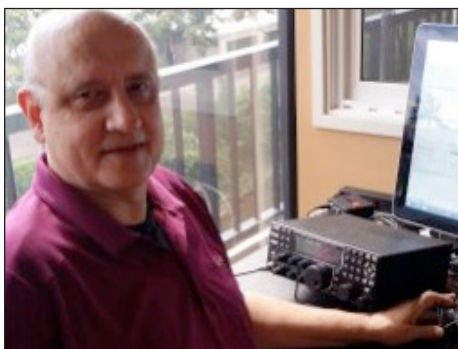
NN2DX Blueberry Super Station in New York.



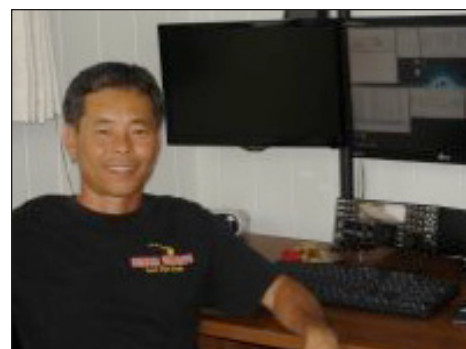
Martin - KH6MB



Mark - WH7W



Joe - AH0A



Stu - KH6FP

a few of the rare Canadian Provinces for a total of 58 North America multipliers.

To that we added 38 countries in 12 CQ zones and had fun doing it. We hope to try again in the near future - maybe in the ARRL 2014 CW SS contest?

Anyone with a K3 like to join us in a future contest?

Aloha es best 73,  
Joe, AH0A/KH6

— — Submitted by  
**Joe Speroni, AH0A**  
ah0a@arrrl.net

2781 Kapiolani Blvd #502  
Honolulu, HI 96826



## Photovoltaic home systems topic of March 8 BIARC meeting program

Photovoltaic Home Electrical Systems will be the focus of the program for the March meeting. Learn about these solar P-V systems for your home. Following some P-V basics, Rod Diamond, NH7MT, will describe his totally off-grid system in Hawaiian Paradise Park. This type of system will then be compared with the grid-connected systems being offered in the area.

— — — *Milt Nodacker, AH6I*

## Next Technician class starts March 6 at Orchidland LDS church

A Technician license class will begin March 6 at the LDS Church at Orchidland Drive and Highway 130, between Keaau and Pahoa. The class will run for six Thursday evenings, with the exam on the seventh week, on April 17. Class time is 6:30 p.m. There is no charge for the class. There is a \$15 fee for the test. For further information, contact Milt, AH6I, 965-6471 or [nodacker@gmail.com](mailto:nodacker@gmail.com).

— — — *Milt Nodacker, AH6I*

## 2010 Technician Question Pool expires at end of June

The 2010 question pool for the Technician exam expires at the end of June. Beginning the first of July, all Technician tests must use the new question pool. The final BIARC testing sessions using the present pool will be April 17 in Keaau (see previous notice) and June 28 at Field Day in Hilo. For further information, contact Milt, AH6I, 965-6471 or [nodacker@gmail.com](mailto:nodacker@gmail.com).

— — — *Milt Nodacker, AH6I*

## Hams invited to kokua at March 16 Big Island International Marathon

Ham radio operators are still invited to sign up to help at the Big Island International Marathon, which will be held Sunday, March 16, in Hilo.

Licensed amateur radio operators are needed to help provide communications and logistical support all along the route. Participation is open to all hams and all clubs. There also are volunteer opportunities for non-hams. Contact Kim Fendt at [Kd0qlr@gmail.com](mailto:Kd0qlr@gmail.com). Visit [www.hilomarathon.org](http://www.hilomarathon.org) for detailed info about the event.

— — — *Kim Fendt, KD0QLR*

## VE Testing yields 2 Extras, 10 Technicians

On Feb. 20, 16 people tested at the Kilauea LDS Church. Out of the group, we got two new Extras and 10 new Technicians. Thanks to Milt, for leading the VE team and teaching the class. The team administered a total of 22 exams.

— — — *Bob Schneider, AH6J*  
*ARRL Pacific Section manager*

An amateur radio TV program from the UK — <http://www.tx-films.co.uk/txfactor/txf001.shtml>

# Hi Hi in HI



— — — *Linda Quarberg, WH6LQ, photos*

Look ma! Transmitting on the slide with no hands!



— — — *Doug Wilson, KH7DQ, high-altitude hamfacts*

Always keep HT above shoulders when snow sliding and making a call!



With my HT atop peak of Mauna Kea at 13,796 ft. Can you hear me now?