



THE OHM TOWN NEWS

Voice of the Bridgerland Amateur Radio Club

>>>>>>> <https://www.barconline.org> <<<<<<<<

November 2017

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ARRL Affiliated



PRESIDENT'S MESSAGE

The [ARRL November Phone Sweepstakes](#) will hit the airwaves for on November 18-20. The Sweepstakes or “Sweeps” as it is usually called is a contest in which modest stations can do exceptionally well. There’s no need for giant towers and antennas or legal-limit amplifiers, for simple antennas and a “barefoot” HF rig will do just fine. Sweepstakes brings out many US and Canadian operators, and there will be a lot of stations to work on the 160, 80, 40, 20, 15 and 10 meter bands. More stations = more contacts = more fun!

If you’d like to know more about Sweepstakes, download the [Sweepstakes Operating Guide](#) – there are simple explanations of the rules and a list of resource articles and websites to help you get the most from your Sweepstakes weekend.

So get on the air during the sweeps and make contacts throughout the US and Canada. This is an excellent opportunity for you to get that [Worked All States Award](#) with lots of operators on the air.

Don’t have a HF rig and want to participate in the sweeps? BARC will be participating in the sweeps on November 18 at the club ham shack in the Engineering Lab Building room EL224 on the USU campus. The Sweeps start at 2100 UTC and we will be there until 0700 UTC (that’s 2 PM MST to midnight). Drop by and we will get you involved with whatever you would like to do, making contacts, logging contacts, or just watching what goes on.

Hope to hear you on the air during sweepstakes or have some fun operating an HF radio at the club ham shack. Our club is always looking for operating events and opportunities that excite and motivate amateur radio operators to be active, especially on HF.

The ARRL has announced that VY1AAA in the Northern Territories will be on the air this year for the ARRL November Sweepstakes. Gerry Hull W1VE will be remotely operating the station of J Allen VY1JA in the Yukon Territory. Gerry and J have done a lot of work over the summer on the station to make this possible.

Earlier this summer, The Amateur Radio Act of 2017 was introduced in the US Senate on July 12, marking another step forward in this legislation. The Senate bill, S. 1534, is identical to H.R. 555, which passed the US House of Representatives in January. The measure will, for the first time, guarantee all Amateur Radio operators who are living in deed-restricted communities governed by a homeowner's association (HOA), or subject to any private land use regulations, the right to construct and maintain an effective outdoor antenna at their residences. It is estimated that 90% of all new housing in the U.S. contains covenants, with the majority of those having boilerplate antenna restrictions. Other deed-restricted neighborhoods have the authority to absolutely deny outside antenna installations, with no recourse.

In the latest news from ARRL on the [Amateur Radio Parity Act of 2017](#), they have prepared a list of frequently asked questions to explain and to clarify what the passage of the legislation would accomplish — as well as what it would not.

73,
Cordell
KE7IK



UPCOMING 2017 ACTIVITIES

- 04 Nov, 8 AM—5 PM - Utah State RACES Conference** — Davis Conference Center, Layton, UT (sign up at <https://www.utah.train.org/>)
- 08 Nov, 7:30 PM - ARRL Rocky Mountain Division Net** 147.200/IRLP Node:9871
- 11 Nov, 10:00 AM - BARC Club Meeting** Making your own QSL cards - Quintin Gardner. Also will include elections for BARC club leadership for 2018
- 15 Nov, 7:00-9:00 PM — Cache County ARES Meeting** Cache County Sheriff's Office
- 18 Nov, 8:00 AM — Utah State RACES HF Net** 3920 KHz
- 02 Dec, 8:00 AM - ARRL VEC License Test Session** @ BTC on 600 West, Logan Room 840. ([More Info Here](#))
- 06 Dec, BARC Club Meeting/Christmas Party** (see below)
- 13 Dec, 7:30 PM - ARRL Rocky Mountain Division Net** 147.200/IRLP Node:9871
- 20 Dec, 7:00-9:00 PM — Cache County ARES meeting** at the Sheriff's Office
- 21 Dec, 8:00 PM RACES VHF Net** 449.650 pl 100.0 Mt. Pisgha 147.180 Snowbird 147.20 IRLP

For more calendar information see the barconline.org/calendar

The December BARC Club Meeting/Christmas Party

At the
BLUEBIRD
19 North Main, Logan
DECEMBER 6TH 2017
Doors open at 6:00pm
DINNER SERVED AT 6:30PM
Prime Rib/Chicken Cordon Blue Buffet/\$19
Call or Text Tammy Stevens
435-881-5435

Local Radio Nets:

- The **Weekly BARC net** is for BARC members and anyone else that would like to check in, held **every Tuesday night at 9:00 P.M.** local time on the Mt Logan BARC Repeater and Linked Systems (146.720)
- The **ARES** monthly net is the **1st Tuesday** of each month on 146.720 at **8:00 P.M.**
All ARES members are invited to check in and participate
- The **BARC Ladies Net** is every **2nd and 4th Tuesday** at **8:00 P.M.** on 146.720 and all licensed lady amateur operators are invited to check in

Proxy (Absentee) Ballot and List of Candidates

For year 2018 Officers and Board
Of the Bridgerland Amateur Radio Club

Voting held on Saturday November 11, 2017 at 10:00 A.M.
On the 3rd floor in the Cache County Sheriffs Complex on
200 North and 1225 West, Logan, Utah

Important Instructions: *If you are unable to attend the above meeting and wish to vote you may mail this ballot to any club officer in time to be in their hands before the meeting time noted above, or, you may seal the ballot in an envelope and send it with someone to be handed to a club officer at the meeting. If you need help, please contact any club officer.*
You need to be a current member of BARC to vote

For President	
• Ted McArthur AC7H	
•	
For Vice President	
• Chris Clement K7CTC	
• Tyler Griffiths N7UWX	
•	
For Secretary	
• Tammy Stevens N7YTO	
•	
For Treasurer	
• Kevin Reeve N7RXE	
•	
For members of the board (Vote for four)	
• Mitch Smith N7USU	
• Richard Elwood KE7GYD	
•	
•	
•	

You **MUST** get approval from a write-in candidate before submitting their name for office.
Additional nominations will be accepted from the floor at the meeting, with the approval of the nominee. Ballot can be mailed to **BARC P.O. Box 111 Providence Utah 84332**. It must reach the post office box by November 10th. Send in your ballot or come in person.
If mailed please put your name on the mailing envelope only.

BYLAWS of THE BRIDGERLAND AMATEUR RADIO CLUB, INC

Article I – NAME

Section 1: The name of this organization shall be
THE BRIDGERLAND AMATEUR RADIO CLUB, INC.

Article II – PURPOSE

Section 1: The purpose of this organization shall be to unite radio amateurs in fellowship, to aid those not licensed in learning code and theory, and to provide service to the community especially in times of emergency.

Article III – MEMBERSHIP

Section 1: All persons having a bona fide interest in amateur radio, whether licensed or not, shall be eligible for membership.

Section 2: Application for membership shall be submitted to a club Officer. A member charged with conduct unbecoming a member of this Club may be expelled by a two-thirds (2/3) majority vote of the members if the Board of Directors (Board) has found the charges are sustained by its investigations. An expelled member may not reapply for membership unless approved by the Board.

Section 3: A member shall be defined as one who has submitted an application for membership and paid the appropriate dues.

Article IV – OFFICERS AND BOARD

Section 1: There shall be a Board of Directors which shall consist of the Officers, the immediate past President and two at large Board Members.

Section 1A: If the Board of Directors determines that more at large Board Members are needed, they shall be elected per Article V and Article XII.

Section 2: The Officers of the club shall be: President, Vice-President, Secretary, and Treasurer.

Section 3: All Officers and Board members shall be members of the club in good standing.

Section 4: Any person elected to the office of President shall have served at least one year as Officer or Board member of the club, whether before or after incorporation.

Section 5: The immediate past president shall serve the subsequent year as a member of the Board.

Section 6: Committee chairpersons of the various committees required shall be appointed by the Board. Additional members of said committees shall be appointed by the committee chairperson.

Article V – ELECTIONS

Section 1: The Officers and Board members of the club shall be elected for the term of one (1) year and until such time as their successors shall have been elected and take office. Newly elected Officers and Board members shall take office the first day of January of the next year.

Section 2: The President shall appoint a nominating committee of three (3) members, at least one (1) of whom shall be a member of the Board. They will present their list of nominations by notification as specified in Article XII Section 6.

Section 3: Election of Officers and Board members shall be held at the November Club meeting. Nominations will be accepted from the floor. Those receiving the largest number of votes shall be elected.

Section 4: Vacancies occurring between elections must be filled by a special election at a general meeting after which the withdrawal or resignation is made known. Nominations for replacement shall be made by the Board. Nominations shall also be accepted from the floor. Voting shall be conducted per Article XII and the person receiving the largest number of votes will be the new Officer. The newly elected Officer shall take office immediately.

Section 5: Officers and Board members may be removed by a petition signed by at least ten (10) members and upheld by a three-fourths (3/4) majority vote.

Article VI – DUTIES OF THE BOARD AND OFFICERS

Section 1: The Board shall be the governing body of the Club and as such shall formulate and be responsible for all matters of policy. Decisions of the Board shall be reached upon majority vote; and thereupon the President shall execute the decisions so made or the policies so formed.

Section 2: The newly elected President shall call an organizational meeting of the old and new Officers and Board members within 30 days of the election meeting.

Section 3: The President shall preside at all meetings of this Club; shall enforce due observance of the by-laws; shall decide all questions of order; shall sign all official documents that are adopted by the Club; and shall perform all customary duties pertaining to the office of President.

Section 4: The Vice-President shall possess all the powers and assume all duties of the President in the event of the absence, disability, refusal, or failure to act, of the President. The Vice-President shall further assist the President in all functions of that office and shall perform such other duties as are properly assigned by the Board.

Section 5: The Secretary shall countersign all deeds, leases, and conveyances executed by the corporation; shall keep a record of all proceedings of all meetings; keep a roll of members and the current status of these members; shall keep a roll of members present at meetings; accept applications for membership; keep a copy of the Articles of Incorporation and By-laws present at all meetings; carry on all correspondence; read communications received at each regular meeting, and give notice of all meetings.

Section 6: The Treasurer shall receive and disburse all club funds, including dues from members; shall keep an accurate record of all such transactions; and shall give a financial report to the Board and members upon request.

Article VII – MEETINGS

Section 1: There shall be a general Club meeting held monthly. This meeting schedule may be changed, subject to a decision by the Board.

Section 2: Special meetings of the members may be called at any time by the President, provided the entire Club membership is notified in writing of such special meeting ten (10) days prior to the meeting. Notification may be done per Article XII, Section 6. The President shall be required to call a special meeting upon receipt of a written request signed by ten (10) or more members.

Section 3: The Board shall meet in a general or special meeting in order to transact business. The Board shall normally meet once a month. All meetings of the Board shall require ten (10) days notice to the Board members.

Section 4: All meetings of the Board shall be open to all Club members.

Article VIII – DUES

Section 1: The annual dues will be recommended by the Board and approved by the members. The dues year shall be January 1 to December 31. Pro-rated dues will only apply to new licensees or those new in the area. The Board has the authority to accept dues paid from any valuable consideration.

Article IX – AMENDMENTS

Section 1: The by-laws may be amended by a two-thirds (2/3) majority vote at a general meeting, providing that members shall have been notified per Article XII, Section 6. Proposals for amendments shall be submitted in writing to a Club Officer.

Article X –RULES

Section 1: Roberts's rules of Order shall govern all proceedings of this Club.

Article XI – BUDGET AND REPORTING

Section 1: The Board shall give an annual report to the members on the activities of the Club with a financial report including the receipt and disbursement of Club funds. The Board shall present an annual budget after receiving input from committee members and members at large. The members shall vote upon said budget within the guidelines of said budget. A vote of the members will not have to be given again unless the budget is changed materially or exceeded in total.

Article XII –VOTING

Section 1: Only members in good standing shall be entitled to vote.

Section 2: All voting shall be by majority vote of the members present, unless specially stated otherwise in these articles.

Section 3: Voting for the election of the Board and Officers; expulsion of a member; Board member or Officer; adoption or amendments of the By-laws; approval of the annual budget and dues; and other issues as designated by the Board shall be conducted as stated below in Section 4 through 6.

Section 4: Voting on matters specified in Section 3 of this Article shall be by secret ballot of members in attendance and by members Proxies.

Section 5: A Proxy shall be included with the notification as specified in Section 6 below. Proxies may be given to a Club Officer or any other member by mail or in person. Proxies may be specific or general. The form of the proxies, ballots and balloting procedures shall be determined by the Board.

Section 6: Notification to members of the subject matter of any vote to be taken shall be by publication in the OHM TOWN NEWS the issue prior to the meeting in which the voting is to be done. The notification shall include the time, date and place of the meeting in which the vote will be taken. The notification shall be sent no later than seven (7) days prior to the scheduled meeting date.

The ARRL Letter for October 26, 2017 CW Gets the Message Through in Wake of Hurricane Irma

Any CW operator worth his or her salt will tell you that CW is the mode that gets through when all others fall short of the mark. CW certainly did the job for Chet Hogue, N3BK, who handled dozens of messages for residents of Florida's Lower Keys in the days following Hurricane Irma in September.

"A message from a Big Pine Key man to his girlfriend, who evacuated with their young daughter and was waiting to hear how he weathered the storm, was one of about 80 sent out over the airwaves by ham radio enthusiast Chet Hogue in the days following Irma's destruction," reporter Katie Atkins wrote in *The Keynoter* in [describing](#) Hogue's activity.

"Things here are still incredibly a mess!" Hogue told ARRL this week.

The Summerland Key charter captain, known as "Captain Chester," weathered the storm in place. He noted that the primary frequencies handling traffic were quite busy, so he got on CW, which, he told Atkins, allowed him "to relay messages clearly." He operated from a station at his home as well as from his boat.

According to the news report, Hogue would transmit message traffic gathered from residents trying to get in touch with family and friends outside the area. He urged anyone interested in Amateur Radio to visit the ARRL website. "It's just neat, this system," he told Atkins. "With a piece of wire and a car battery, you can talk around the world."

Hogue told ARRL that he "escaped" to the Keys in 2010 after recovering from an injury suffered in a vehicle accident. "I haven't been active in some time, but have kept my 'bug-out bag' ready for just this situation," he said. "[This] was my first emergency, as it was for many who passed traffic for me."

Hogue's father -- also Chester -- is N3VA, and his dad and some of his friends got him interested in Amateur Radio. Hogue entered the military as a teenager and, he said, realized the vital importance of communication.

Hogue used a 100 W radio powered from deep-cycle marine batteries, a G5RV antenna on shore and a fiberglass vertical antenna on his charter boat. He kept a handwritten log on a piece of cardboard.

"This is a good reason for all of us to learn CW and use it on the bands, and become skilled at sending and receiving CW," remarked Whitey Doherty, K1VV, a CW stalwart who shared the news story with ARRL Headquarters. -- Thanks to "Captain Chester" Hogue, N3BK, *The Keynoter*, and Whitey Doherty, K1VV



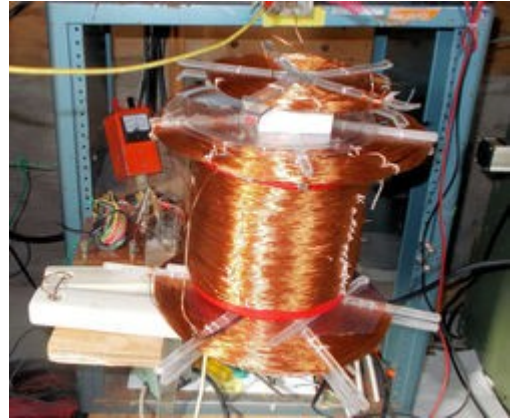
Chet Hogue, N3BK. [Photo courtesy of Chet Hogue, N3BK]

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Tiny LF Signal Makes the Hop from Newfoundland to the UK

For Joe Craig, VO1NA, in Torbay, Newfoundland, things have been pretty exciting lately on VLF (very low frequency). He's among the early MF, LF, and VLF experimenters in North America -- active even before Canada allocated Amateur Radio bands in that part of the spectrum. He believes he accomplished a "first" for a Canadian radio amateur on October 22, when his very VLF, very QRP signal on 8.27 kHz (that would be the 36-kilometer band) was copied in the UK.

"After much effort on both sides of the pond, SWL Paul Nicholson in Todmorden finally copied a three-letter message," he told ARRL. "It's the lowest-frequency transatlantic message, made possible because of Paul's [EbNaut](#) coherent BPSK mode and DL4YHF's [Spectrum Lab](#) spectrum analyzer." Even more amazing: The power was 10 μ W ERP. Craig is permitted to run 10 mW by regulator ISED Canada (formerly Industry Canada). The transmission path was more than 3,500 kilometers (approximately 2,170 miles).



VLF signals have been copied across the Atlantic in the past. In March 2014, a very slow-speed (QRSS) CW signal on 29.499 kHz, transmitted by Bob Raide, W2ZM, a New York Experimental licensee, initially was detected in the UK by Nicholson. In June 2014, Dex McIntyre, W4DEX, in North Carolina, transmitted an *EbNaut* signal on 8.971 kHz, while running on the order of 150 μ W effective radiated power. Nicholson detected that signal too. McIntyre needed no FCC license to transmit on 8.971 kHz, because the Commission has not designated any [allocations](#) below 9 kHz, dubbed "the Dreamers' Band."

Now, this is a coil! The VLF loading coil at VO1NA.

Craig's transmission from Newfoundland began at 2300 UTC on October 22 and ended 7 hours later. "Paul replied by e-mail the following day with the correct message," Craig said, "and there was much rejoicing across the pond and in the Marconi Radio Club of Newfoundland!"



VO1NA's "Tower A." His VLF antenna is attached to the second guy station at this point. [Joe Craig, VO1NA, photo]

Craig said that Nicholson had detected a carrier from VO1NA this past spring, but it was not stable enough to send a message.

DL4YHF's *Spectrum Lab*, with a GPS module output signal used to calibrate the computer and help from DF6NM and DK7FC, worked much better, Craig said. "Paul measured the phase for a few days before the message was sent. With the new high-stability carrier, Paul got me on the first call."

The final stage of his VLF transmitter is what Craig described as "the very Canadian Traynor Group One/SC stage amplifier" from the 1970s. He says his is "the only known VLF transmitter in Newfoundland and Labrador." His antenna, by the way, is approximately 100 meters (approximately 328 feet) of #12 copper wire, about 12 meters high on average. Craig's [blog](#) offers more information.

(Continued on page 10)

The ARRL Letter for November 2, 2017

American Red Cross Hails "New Partnership" with ARRL Following Puerto Rico Deployment

The American Red Cross (ARC) this week thanked ARRL and its "Force of 50" hurricane recovery volunteers who deployed to Puerto Rico earlier this month, and it suggested a new level of partnership now exists between the two organizations. ARC Senior Vice President, Disaster Cycle Services Harvey Johnson this week wrote ARRL President Rick Roderick, K5UR, and ARRL CEO Tom Gallagher, NY2RF, to express his organization's gratitude for "all your amazing volunteers for the unwavering commitment demonstrated during the response to this unprecedented disaster in Puerto Rico." Johnson said the team's actions "made a significant difference" in the lives of those affected.



"This mission marked an exciting new path for our two organizations with it being the first time we deployed ARRL volunteers to a Red Cross relief operation," Johnson wrote. "I continue to hear incredible stories about how the ARRL volunteers supported individuals, communities, and partner organizations during their time in Puerto Rico." ARRL and the American Red Cross have a long-standing memorandum of understanding ([MOU](#)) to cooperate in emergencies and disasters.



ARRL Emergency Preparedness Manager Mike Corey, K11U.

"It was a complex cooperation in an austere environment, and the mission certainly had its challenges," Johnson continued. "While we have much to learn from this new experience and areas to improve upon, we remain committed to working with you, ARRL, and your cadre of talented volunteers."

Johnson singled out for special praise ARRL Emergency Response Manager Mike Corey, K11U, "for his leadership in planning and managing the mission."

"Mike was fast acting and thoughtful, constantly working to make the mission effective through transparency and collaboration," Johnson said. "We simply could not have achieved the outcomes without him."

Johnson said the ARC looks forward to working together with ARRL to "serve those impacted by disasters."

Questions for The Technician Class License

1. (T1B04) Which amateur band are you using when your station is transmitting on 146.52 MHz?
 - A. 2 meter band
 - B. 20 meter band
 - C. 14 meter band
 - D. 6 meter band
2. (T2C04) What do RACES and ARES have in common?
 - A. They represent the two largest ham clubs in the United States
 - B. Both organizations broadcast road and weather information
 - C. Neither may handle emergency traffic supporting public service agencies
 - D. Both organizations may provide communications during emergencies
3. (T3A02) Why are UHF signals often more effective from inside buildings than VHF signals?
 - A. VHF signals lose power faster over distance
 - B. The shorter wavelength allows them to more easily penetrate the structure of buildings
 - C. This is incorrect; VHF works better than UHF inside buildings
 - D. UHF antennas are more efficient than VHF antennas
4. (T4B12) What is the function of automatic gain control or AGC?
 - A. To keep received audio relatively constant
 - B. To protect an antenna from lightning
 - C. To eliminate RF on the station cabling
 - D. An asymmetric goniometer control used for antenna matching
5. (T5A09) What is the name for a current that reverses direction on a regular basis?
 - A. Alternating current
 - B. Direct current
 - C. Circular current
 - D. Vertical current
6. (T6A09) (A) What electrical component is used to protect other circuit components from current overloads?
 - A. Fuse
 - B. Capacitor
 - C. Inductor
 - D. All of these choices are correct
7. (T7C09) Which of the following is the most common cause for failure of coaxial cables?
 - A. Moisture contamination
 - B. Gamma rays
 - C. The velocity factor exceeds 1.0
 - D. Overloading
8. (T8B10) What do the initials LEO tell you about an amateur satellite?
 - A. The satellite battery is in Low Energy Operation mode
 - B. The satellite is performing a Lunar Ejection Orbit maneuver
 - C. The satellite is in a Low Earth Orbit
 - D. The satellite uses Light Emitting Optics
9. (T9B04) What does an antenna tuner do?
 - A. It matches the antenna system impedance to the transceiver's output impedance
 - B. It helps a receiver automatically tune in weak stations
 - C. It allows an antenna to be used on both transmit and receive
 - D. It automatically selects the proper antenna for the frequency band being used
10. (T0A06) What is a good way to guard against electrical shock at your station?
 - A. Use three-wire cords and plugs for all AC powered equipment
 - B. Connect all AC powered station equipment to a common safety ground
 - C. Use a circuit protected by a ground-fault interrupter
 - D. All of these choices are correct

(For answers to test questions see bottom of page 12)

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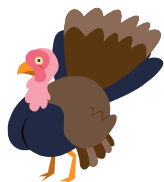
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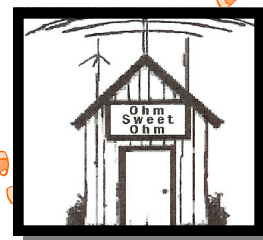
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Answers to questions on page 11: 1-A, 2-D, 3-B, 4-A, 5-A, 6-A, 7-A, 8-C, 9-A, 10-D