



THE OHM TOWN NEWS

Voice of the Bridgerland Amateur Radio Club

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

November 2011

Some Contents...

Presidents Message	2
Upcoming Activities	3
Ham Profile: Dave(KF7ZZ)& Karen(KC7CVJ) Luthy	4
Election Absentee Ballot	5
BARC Bylaws	6-8
Club Membership Application	9
Christmas Party Information.....	10
Test Questions for Technician Class License ..	13
2011 Club Officers.....	14



ARRL Affiliated



ARRL *The national association for*
AMATEUR RADIO

SWEEPSTAKES

PRESIDENT'S MESSAGE

We are always looking for operating events and opportunities that excite and motivate amateur radio operators to be active, especially on HF. This year's [ARRL November Sweepstakes](#) (November 19-20) fits the bill and for the first time in years, the bands will have plenty to offer Technician license holders, too! As many of you have noticed working on HF or seen the announcements about 10 meters on the BARC email group, the 10 meter band is really picking up due to the solar cycle. A portion of the 10 meter band is available to Technician license holders for CW and phone operation. During the peak times of the solar cycle when many sunspots appear, 10 meters can be alive with extremely long distance signals from coast to coast during the daytime, refracting from the F2 layer in the ionosphere.

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 bands. More stations = more contacts = more fun!

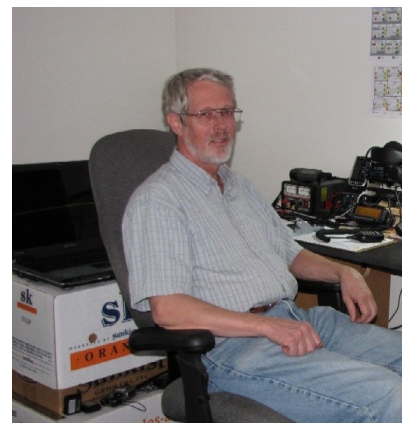
So get on the air during the sweeps and make contacts throughout the US and Canada. This is an excellent opportunity for you to get that [Worked All States Award](#) with lots of operators on the air and great band conditions.

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.

Don't have a HF rig and want to participate in the sweeps? No problem. BARC will be participating in the sweeps on November 19 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 or have some fun operating an HF radio at the club ham shack.

73,
Cordell
KE7IK



UPCOMING ACTIVITIES

Club Meeting - 12 November, 10:00 AM (for more info see below)

RACES HF Net - 19 November, 8:00 AM 3920 KHz

Club Meeting - Christmas Party - 7 December, 6 PM
At the Coppermill Restaurant

RACES VHF Net - 15 December, 8:00 PM

Starting in 2012

Club Meeting - 14 January, 10:00 AM

RACES HF Net - 21 January, 8:00 AM 3920 KHz

BARC Club Meetings are normally on the 2nd Saturday of the month at 10:00 A.M. on the 3rd floor of the Cache County Sheriffs Complex on 200 North and 1225 West, Logan, Utah.

ARES Meetings are usually held on the Third Wednesday of each month at 7 P.M. at the Cache County Sheriffs Complex. Contact Tyler Griffiths for more information.

BARC Club Meeting for November

The November BARC Club meeting will be at its usual place and time, 10:00 A.M. on Saturday, November 12, on the 3rd floor of the Cache County Sheriff's complex, at 1225 West 200 North, in Logan. Elections will be held for the 2012 officers and board members. After the elections we will have a presentation on what you need to setup your first ham radio HF station for on the air operation, with some tips and information that you should think about ahead of time. We'll have some HF radios and a HF/VHF/UHF (all band mobile) radio, and other equipment to show. As always, visiting with friends and refreshments after the meeting. See you there.

Cordell
KE7IK

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HAM PROFILE

By Jared B. Luther

Dave (KF7ZZ) and Karen (KC7CVJ) Luthy

Dave received his first ham radio license in 1960 while a student in high school. He had assembled a short wave radio kit and stumbled upon a ham in his neighborhood who frequently talked with people in Japan. This coupled with an interest in electronic circuits led him to give ham radio a try. He got a "Novice" ticket, built a CW transmitter, and put up a 40-meter dipole. He will never forget his first contact with a ham in Washington on his first CQ. The thrill of hearing his call sign come back to him from a faraway place has not lessened through the years. He spent many teenage nights absorbed in ham radio and credits the hobby for keeping him out of mischief through those years.

After graduate school, with a little more money, he got SSB and 2-meter radios. Along the way, Karen (KC7CVJ) and several in the family became hams. Most of the family ham activity has been on 2 meters during vacations. However, Karen recently made her first DX contact with Christmas Island on 10 meters.

They have kept their tickets current through the years, but career and church service has kept their activity at a minimum until retirement. Even then, they haven't been very active until they returned home from a mission in Malaysia. They now, again, have new radios and more time to use them. "Learning new technologies and modes has been fascinating" says Dave. "Our recent activity on HF includes digital modes and SSB. However, we still use the same old all-band trap dipole. A new dual-band vertical helps us get out on VHF."

Dave and Karen's interest in VHF has shifted to emergency preparedness and participation in local nets and service activities. They participated this summer in LOTOJA and Bike The Bear. They also "exercise" the radio in the North Logan EOC. Recently, Dave has been asked to help with the Logan Bishops' Storehouse Emergency Response Communications group and they both look forward to that involvement. Karen adds "Ham radio is a great hobby and still keeps Dave out of mischief!"



DX University Salt Lake City, Utah

Utah DX Association is pleased to announce the first annual DX University to be held on Saturday, November 12, 2011 at the University of Utah.

This day-long seminar is targeted at wannabe, beginner and intermediate DXers. Attendees will learn from experienced DXers and DXpeditioners how to set up an effective DXing station and will gain useful tips, tricks and techniques that will improve their ability to work DX stations and gain the QSLs to obtain DXCC and other awards.

Program agenda and information is available at www.udxa.org/dxu.php. A registration fee of \$15.00 will include morning and afternoon breaks and a box lunch. Classes begin at 8:00 a.m. and run until 4:30 p.m.

Seating is limited and registration ends on Thursday, November 10th, so join your friends and register now!

Proxy (Absentee) Ballot and List of Candidates

For year 2012 Officers and Board
Of the Bridgerland Amateur Radio Club

Voting held on Saturday November 12, 2011 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	
• Cordell Smart KE7IK	
•	
For Vice President	
• Tyler Griffiths N7UWX	
• Ted McArthur AC7H	
•	
For Secretary	
• Tammy Stevens N7YTO	
•	
For Treasurer	
• Kevin Reeve N7RXE	
•	
For members of the board (Vote for three)	
• Ted McArthur AC7H	
• Tyler Griffiths N7UWX	
• Roger Ellis AE7HB	
• Guy Hatch N7WAT	
•	
•	

*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 11th. 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 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.

Membership in **The Bridgerland Amateur Radio Club, Inc. (BARC)** is open to anyone interested in Amateur Radio. You do not need an amateur license to join. Learn more online at <http://www.barconline.org/> or by emailing membership@barconline.org.

The Bridgerland Amateur Radio Club provides the following to its members:

- A repeater system that covers northern Utah from Bear Lake to Salt Lake Valley.
- Events where you can practice your radio skills in a fun learning environment.
- Club meetings are held the second Saturday each month from October to May. An opportunity to meet and learn from other amateur operators.
- Social activities where members can make friends and interact with other members.



Your tax deductible membership supports club activities and the BARC repeater system.



The Bridgerland Amateur Radio Club, Inc.

Membership application for the year 2012

*Dues are in effect January 1, 2012 through December 31, 2012
New Members Only, individual membership dues prorated quarterly
Please indicate if you or family member is an American Radio Relay League (ARRL) member*

Name _____ Call Sign _____ Date Paid _____

ARRL member

P.O. Box _____ Street Address _____

City _____ State _____ Zip Code _____

Home Phone () _____ Work Phone () _____

E-mail _____

(The club's newsletter, THE OHM TOWN NEWS, is sent to the E-mail Address)

Individual Membership - \$25 \$ _____

Addition Family members in same household - \$3 ea \$ _____

Donation for Repeater upgrades / equipment purchases \$ _____

Total \$ _____

Names and Call Signs of additional family members

Name _____ Call Sign _____

ARRL member E-mail _____

Name _____ Call Sign _____

ARRL member E-mail _____

Name _____ Call Sign _____

ARRL member E-mail _____



Bridgerland Amateur Radio Club is an ARRL affiliated club

Mail your completed form and a check to: B.A.R.C., P.O. Box 111, Providence UT 84322-0111 or pay online at <http://www.barconline.org/?q=node/242>

B.A.R.C. is a non-profit organization

2011 BARC Christmas Party

When: 7 December
Arrive at 6 PM
Dinner served at 6:30 PM

Where: **The Coppermill Restaurant**

Cost is \$21 per person.

Dinner menu: Prime Rib and Paprika Chicken Buffet.

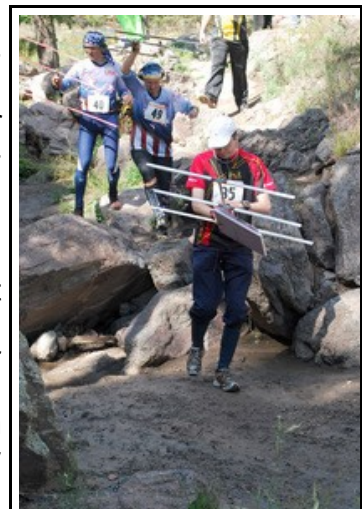
Prizes include: (but may not limited to)



The ARRL Letter for October 27, 2011

ARDF Update: New Mexico Hosts Successful Foxhunting Championships

Results of the USA's 11th national championships of Amateur Radio Direction Finding (ARDF) are in the record books. Members of Albuquerque Amateur Radio Club went all out to provide a top-notch experience for fans of on-foot transmitter hunting, also called radio-orienteering and fox-tailing. They came from 10 states and four other nations to see who would win medals by finding transmitters in the forests of central and northern New Mexico. From September 14-18, competitors took to the woods with directional antennas and receivers. They navigated not with GPS sets, but with maps and compasses. Their goal was to find all of their required transmitters and to get to the finish line in the shortest elapsed time. For fairness, the organizers didn't disclose the exact sites of the competition in advance. That kept anyone from doing advance reconnaissance in person or via *Google Earth*. Competitors boarded buses on Saturday and Sunday mornings, not knowing where there were going. Read more [here](#).



After leaving the 2 meter starting point, competitors had to be nimble to get down into the canyon that served as a corridor into the forest. [Joe Moell, K0OV, Photo]

Now You Know: The National Traffic System

The American Radio Relay League was founded in 1914 because Hiram Percy Maxim could not get a message via wireless from Hartford, Connecticut to Springfield, Massachusetts -- a distance of only about 30 miles. He had to rely on another wireless operator in Agawam, Massachusetts to relay his message to its intended recipient. This was the very beginning of what is now the National Traffic System (NTS). But what is the NTS?

The [Public Service Communications Manual](#) defines the NTS as "a structure that allows for rapid movement of message traffic from origin to destination and training amateur operators to handle written traffic and participate in directed nets. These two objectives are the underlying foundations of the NTS. It's a system that operates daily, even continuously, with advanced digital links."

The NTS consists of operators who usually participate for one or two periods a week, and some who are active daily. The National Traffic System is an organized effort to handle traffic in accordance with a plan that is easily understood, and employs modern methods of network traffic handling. The NTS is not intended as a deterrent or competition for the many independently organized traffic networks. When necessitated by overload or lack of outlet for traffic, the facilities of such networks can function as alternate traffic routings where this is indicated in the best interest of efficient message relay and/or delivery.

One of the most important features of NTS is the system concept. No



NTS net is an independent entity that can conduct its activities without concern for or consideration of other NTS nets. Each net performs its function and only its function in the overall organization. If nets fail to perform their functions or perform functions intended for other nets, the overall system may be adversely affected. Nets may sometimes find it necessary to adopt temporary measures to ensure the movement of traffic.

According to [ARES® E-Letter](#) Editor Rick Palm, K1CE, the best way to get to know the National Traffic System is to hook up with a local NTS traffic net in your area where messages (Radiograms) are entered and others are accepted for delivery by mail or phone. Local clubs, repeater groups and ARES operators are all good sources for local info on NTS activity.

FCC, FEMA, NOAA to Conduct First Nationwide Test of Emergency Alert System

The FCC, in coordination with the Federal Emergency Management Agency and the National Oceanic and Atmospheric Administration, will conduct the first nationwide test of the Emergency Alert System (EAS) at 2 PM EST (1900 UTC) Wednesday, November 9. According to FEMA, EAS participants -- broadcasters, satellite and digital radio and television providers, and cable and wire-line video providers -- "provide a critical public service to the nation as the resilient backbone of alert and warning when all other means of communication are unavailable." Read more [here](#).



The ARRL Letter for November 3, 2011

FCC News: FCC Terminates Proceedings Affecting the Amateur Radio Service

The FCC issued an *Order* on November 1 that terminated hundreds of proceedings, including six proceedings that members of the public, including the ARRL, had asked not to be terminated. Two of these six proceedings involved the Amateur Radio Service. This follows a June 2011 *Public Notice* that sought comments on whether or not it should terminate approximately 800 docketed proceedings.

On July 20, 2011, the ARRL filed comments with the FCC on this matter, explaining that it had no objection to the termination of the proceedings in the *Public Notice*, save for one item: The ARRL's *Petition for Rulemaking (RM-10165) Amendment of Parts 2 and 97 of the Commission's Rules Regarding the 2300-2305 MHz Band*. In this *Petition*, the ARRL requested that the FCC change the Amateur Radio Service's allocation in that band from Secondary to Primary. This *Petition* was one of the six items to be terminated. Read more [here](#).

Questions for Technician Class License

1. (T1B10) Which of the bands available to Technician Class operators have mode-restricted sub-bands?
 - A. The 6 meter, 2 meter, and 70 cm bands
 - B. The 2 meter and 13 cm bands
 - C. The 6 meter, 2 meter, and 1.25 meter bands
 - D. The 2 meter and 70 cm bands
2. (T2B06) What happens when the deviation of an FM transmitter is increased?
 - A. Its signal occupies more bandwidth
 - B. Its output power increases
 - C. Its output power and bandwidth increases
 - D. Asymmetric modulation occurs
3. (T3B05) How does the wavelength of a radio wave relate to its frequency?
 - A. The wavelength gets longer as the frequency increases
 - B. The wavelength gets shorter as the frequency increases
 - C. There is no relationship between wavelength and frequency
 - D. The wavelength depends on the bandwidth of the signal
4. (T4A11) Where should a mobile transceiver's power negative connection be made?
 - A. At the battery or engine block ground strap
 - B. At the antenna mount
 - C. To any metal part of the vehicle
 - D. Through the transceiver's mounting bracket
5. (T5C02) What is the basic unit of capacitance?
 - A. The farad
 - B. The ohm
 - C. The volt
 - D. The henry
6. (T6B12) What is the term that describes a transistor's ability to amplify a signal?
 - A. Gain
 - B. Forward resistance
 - C. Forward voltage drop
 - D. On resistance
7. (T7C01) What is the primary purpose of a dummy load?
 - A. To prevent the radiation of signals when making tests
 - B. To prevent over-modulation of your transmitter
 - C. To improve the radiation from your antenna
 - D. To improve the signal to noise ratio of your receiver
8. (T8B08) What is meant by the statement that a satellite is operating in "mode U/V"?
 - A. The satellite uplink is in the 15 meter band and the downlink is in the 10 meter band
 - B. The satellite uplink is in the 70 cm band and the downlink is in the 2 meter band
 - C. The satellite operates using ultraviolet frequencies
 - D. The satellite frequencies are usually variable
9. (T9A10) In which direction is the radiation strongest from a half-wave dipole antenna in free space?
 - A. Equally in all directions
 - B. Off the ends of the antenna
 - C. Broadside to the antenna
 - D. In the direction of the feedline
10. (T0B10) Which of the following is true concerning grounding conductors used for lightning protection?
 - A. Only non-insulated wire must be used
 - B. Wires must be carefully routed with precise right-angle bends
 - C. Sharp bends must be avoided
 - D. Common grounds must be avoided

(For answers to test questions see page 14)



BARC Club Officers

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Answers to questions on page 13: 1-C, 2-A, 3-B, 4-A, 5-A, 6-A, 7-A, 8-B, 9-C, 10-C

