



THE OHM TOWN NEWS

Voice of the Bridgerland Amateur Radio Club

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

December 2010

Merry Christmas

Happy New Year

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PRESIDENT'S MESSAGE

Another year has quickly gone by. I would like to take this opportunity to thank everyone for their help and support during the past year, especially the officers and board: Tyler Griffiths N7UWX Vice President; Tammy Stevens N7YTO Secretary; Kevin Reeve N7RXE Treasurer; and Board Members Roger Ellis AD7HB; Ted McArthur AC7II; Bob Wood WA7MXZ; for a job well done – THANK YOU.

I would also like to extend thanks to those who have managed the events and activities that our club participates in. Little Red Riding Hood, Russell Leikis KE7VFI; 7th Area QSO Party, Ted McArthur AC7II; Cache Valley Biathlon, Kevin Reeve N7RXE; Wasatch Back, Tyler Griffiths N7UWX; Rocket Recovery, Guy Hatch N7WAT; Field Day, Ted McArthur AC7II; Bike The BEAR, Theo Thompson N7TWT; LOTOJA, Kevin Reeve N7RXE, Tyler Griffiths N7UWX, and Ted McArthur AC7II; Top of Utah, Roger Ellis AD7HB; BEAR 100, Ted MacArthur AC7II; the November Sweepstakes, Ted McArthur AC7II, and our Net Manager who keeps our weekly net running, Roger Ellis AD7HB.

A thanks to our newsletter editor/publisher Dale Cox KB7UPW for the exceptional job he does in preparing and sending out the Ohm Town News for the club. I have to say that the Ohm Town News is the best amateur radio club newsletter around.

And THANK YOU to all our club members for your help and participation throughout the past year – remember the Bridgerland Amateur Radio Club is only as good as you, our members, make it.

We had elections at the November club meeting and have a couple of new board members for next year. Welcome onboard the following new board members for 2011: Jared Luther K7LRX and Guy Hatch N7WAT. Welcome back returning officers and board member for 2011: (Well it's me) Cordell Smart KE7IK President, Tyler Griffiths N7UWX Vice President, Tammy Stevens N7YTO Secretary; Kevin Reeve N7RXE Treasurer; and Ted McArthur AC7II Board Member. A hardy thanks goes to

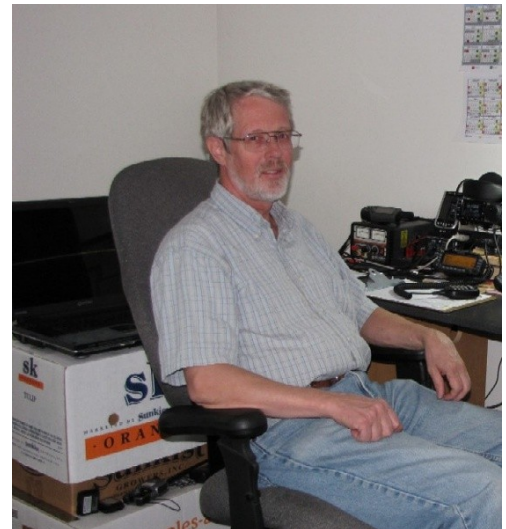
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(President's Message Continued from page 2)

our outgoing board members Roger Ellis AD7HB and Bob Wood WA7MXZ for the time and dedicated service they provided.

Later this month, a survey will be sent out seeking what kind of topics you would like to see in our club meetings. Let us know what your interest is so we can better plan the monthly meeting presentations. Once again, our club has some of the most outstanding members and participation in amateur radio.



Have a Merry Christmas
and a Happy New Year.

73
Cordell
KE7IK



Bridgerland Amateur Radio Club Christmas Party

The club meeting for December was the BARC Christmas party and it was on the 2nd of December. It was held at the Bluebird Restaurant, there was a good prime rib and chicken buffet dinner. After the dinner there was a brief discussion of some of the activities and accomplishments of the Club over this past year. There was a drawing and several things were given out, there were a couple Yaesu hats, some hand made Christmas table runners and other small goodies. The grand prize in the drawing was a Yaesu 2 Meter FT 1900 mobile radio and it went to Boyd Fullmer.



The second prize was a \$50 ARRL gift certificate that went to Dale Cox, and the third prize was a 2m/70cm mag mount antenna that was won by Bob Humphrey's wife, but we all know who will get to use it. Everyone had a good time and got a chance to see some of those that they have just talked to on the air for a while. If you weren't there you missed a great time, make sure and come next year.

UPCOMING ACTIVITIES

Merry Christmas

Happy New Year

2011

Club Meeting - 8 January 2011

RACES HF Net - 15 January 2011, 8:00 AM 3920 KHz

Club Meeting - 12 February, 10:00 AM

RACES VHF Net - 17 February, 8:00 PM

Club Meeting - 12 March, 10:00 AM

RACES HF Net - 19 March, 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.





HAM PROFILE

AD7HL, Shirley Larsen

I was first licensed in Hawaii as a Technician-Plus in Jan 1977 with the callsign KH6JGM. Shortly afterwards, I upgraded to the General Class license. My husband (Kent, now AD7HK) and I used to enjoy listening to the short-wave radio broadcast

bands and decided we would like to talk to these countries via ham radio--the start of a fun journey in many aspects of the hobby! We have always enjoyed pushing the limits of ham radio tech-



nology available at the time. In Hawaii, we started with black and white slow scan TV and the construction of radio satellite antennas to communicate via early SSB satellites. We eventually sent amateur slow scan TV via LEO satellite between Hawaii and Japan on Oscar 7, even before live commercial satellite TV programming was available in Hawaii. Because my husband was a US Air Force Squadron Commander, we had the opportunity to operate from many different locations in the world.

From 1978 -1981 my husband and I lived on the Island of Crete, Greece, where I obtained a Greek license as SVØBC. My mother was also licensed so that she would have a way to contact me via HF while we lived overseas. (There were few phones in Crete and no cell phones or Internet back then.) We kept a schedule each week; afterwards I would run a DX pileup for a few hours from that rare DX location. While there, I had the honor of speaking on the radio to His Majesty King Hussein of Jordan (JY1) a few times. Of all the ham radio awards I have (DXCC, WAS, WAZ, etc.), I am most proud of my Arabian Knights Award (number 425 in the world) and the Royal Jordanian Silver Award (number 120 in the world) from the Arabian Amateur Radio League and signed by King Hussein of Jordan. I also participated in several contests while there (I had the all time record for Crete in the 1980 CQWW Contest), and I have boxes full of QSL cards from hundreds of wonderful countries.

From 1981-1985 we lived in Marquette, Michigan where I was once again known as KH6JGM/8. A highlight of this area was our first trip to the Dayton Hamfest, and meeting amateurs we talked to on the radio while on Crete Island (We wore our

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(Ham Profile Continued from page 5)

SVØBC & SVØAP jackets). I also upgraded to an Advanced Class License as I missed talking in the sub-bands I had the privilege of using in Greece. On one vacation to the northeast, we had the opportunity to make a mobile QSO across the pond from the same location that Marconi used for his first transatlantic radio contact in 1901 (Signal Hill, St. John's, Newfoundland).

From 1985 -1989 we lived in Eagle River, Alaska where we asked for new call-signs and I received AL7HJ. I worked as a Communications Coordinator for the 1988 Iditarod Sled Dog Race, keeping track of bush pilots, mushers, supply movements and even handling a serious medical emergency when a team was trampled by a moose. Our daughter, Becky, got her Technician-Plus radio license in Alaska when she was 12 years old (NL7LI—now Advanced Class).

We lived in Mountain Home, Idaho from 1989-1995 and kept our Alaska call-signs. We started into Digital Modes in Idaho, using Packet on HF, and on VHF to communicate with Becky while she was attending college 300 miles away (still no Internet or email).

With a move to Utah in 1995, we eventually felt it was time to again upgrade our licenses and shed our Alaska call-signs, which continually confused people as to our location. Not long after we started studying, we both upgraded to Amateur Extra in Dec 2007. We helped teach a Technician Class in Mendon in early 2009 to increase the number of operators in our area. After reading some of our lesson plans, our son-in-law (Ryan) decided to join the ranks of Amateur Radio Operators. Within two months of studying, he had a General Class License (KF7AIJ).

I still enjoy doing some contests, contacting the Space Shuttle (and the now extinct MIR Space Station), attempting to bust DX pileups to snag a new country, supporting BARC by volunteering to work bike races, being an ARRL Volunteer Examiner, and participating in Field Day activities.

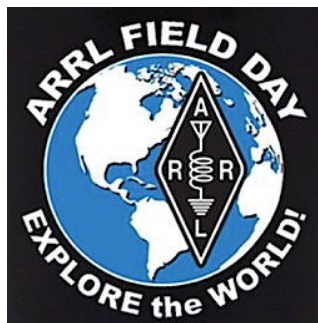
In 2010 I was asked by the BARC board to be a liaison for the women in the club—we have started a BARC Ladies' Net to encourage the ladies to be on the air more (Second and Fourth Tuesdays at 8:00 p.m. on the Valley Floor Repeater 146.640). We are planning some eyeball QSOs/activities to make antennas, cables, go-bags, dinners, etc.

Kent and I really enjoy taking our amateur radio to the mountains, throwing up simple antennas, and having QSOs. We have a complete setup in our motorhome, which makes it easy for mobile communications. A few years ago we decided to invest in a Pactor modem and have used it many times where there was no email or cell phone service in the mountains. We do even more soundcard digital modes now including APRS, PSK31, Olivia, Winmor, etc.

Our current radio equipment includes a Yaesu FT-2000D, Yaesu FT-897D, Yaesu FT-736R, Alpha 87A Linear Amplifier, Mosley 5-band HF beam antenna on a 40 foot crank-up Hazer tower, HF Vertical, 6-meter beam, trap dipole for 40-80-160 meters, inverted V for 30 meters, 13-Element 2-meter beam, Satellite beams with elevation and azimuth control, homemade digital computer interfaces, my homebrewed portable APRS unit, plus a variety of old and newer handheld radios and antennas.

Of course, we enjoy the company of all the nice BARC people we have met since coming to Utah. We look forward to continuing our ham radio experiences here in Cache Valley during our retirement years.

Field Day 2010 Results for Utah



Here are the results of the clubs and individuals in Utah that participated in Field Day this past June.

This year's BARC Field Day event was well attended and included new hams and older hams alike. At Field Day, anyone who would like to operate a radio to make a contact gets an opportunity. It is a lot of fun and once you get on the air and make some contacts, you'll want to be there next year.

KE7IK

| # | Call | Score | Category | QSOs | Power Mult | GOTA Call | Section | Participants | Club |
|----|--------|--------|----------|-------|------------|-----------|---------|--------------|-------------------------|
| 1 | K7UM | 15,154 | 4A | 4,739 | 2 | KE7VHF | UT | 37 | Utah DX Assn |
| 2 | W7UT | 7,818 | 2A | 2,129 | 2 | | UT | 5 | Mesa Marauders |
| 3 | K7DAV | 5,002 | 3A | 1,262 | 2 | AA7AK | UT | 81 | |
| 4 | W7SP | 3,894 | 2A | 862 | 2 | N7HVF | UT | 105 | Utah ARC |
| 5 | K9JWV | 2,540 | 1B1B | 229 | 5 | | UT | 1 | |
| 6 | W7IVM | 2,488 | 5A | 539 | 2 | | UT | 30 | Bridgerland ARC |
| 7 | K7UB | 2,262 | 4A | 487 | 2 | | UT | 51 | Golden Spike ARC |
| 8 | W7DRC | 2,026 | 3A | 569 | 2 | | UT | 7 | |
| 9 | W7BAR | 2,020 | 3A | 510 | 2 | AD7OW | UT | 30 | Borderline ARC |
| 10 | N7ARE | 1,310 | 1B1B | 172 | 5 | | UT | 1 | |
| 11 | W7SU | 1,220 | 2A | 367 | 2 | | UT | 44 | Ogden ARC |
| 12 | K7NAL | 1,172 | 1E | 511 | 2 | | UT | 1 | |
| 13 | N7N | 962 | 2A | 205 | 2 | | UT | 3 | Flood Street Irregulars |
| 14 | K7RFW | 930 | 1E | 115 | 2 | | UT | 2 | |
| 15 | K7UCA | 796 | 1F | 223 | 2 | | UT | 30 | Utah Cty ARES |
| 16 | AA7SM | 784 | 2A | 217 | 2 | | UT | 3 | Marshall Radio |
| 17 | K7EA | 626 | 1E | 119 | 2 | | UT | 1 | |
| 18 | W7DML | 594 | 1E | 86 | 2 | | UT | 1 | |
| 19 | K7NS | 456 | 1B2 | 57 | 2 | | UT | 2 | |
| 20 | AD7QF | 385 | 1B1B | 6 | 5 | | UT | 1 | |
| 21 | KF7DVJ | 300 | 1B1B | 5 | 5 | | UT | 1 | |
| 22 | KC7PVD | 298 | 1E | 24 | 2 | | UT | 1 | |
| 23 | K7ULS | 233 | 1D | 182 | 1 | | UT | 1 | |
| 24 | WA7BME | 138 | 1D | 22 | 2 | | UT | 1 | |
| 25 | KD7SWL | 96 | 1D | 23 | 2 | | UT | 1 | |



The ARRL Letter for December 9, 2010

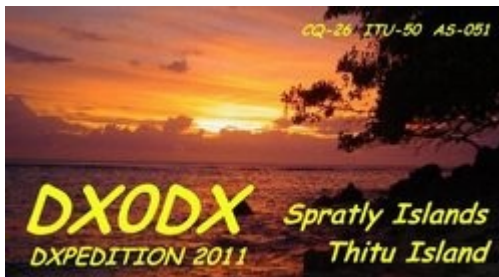
Amateur Radio in Space: ISS Expedition 24/25 Crew Back on Terra Firma

After more than 160 days in space, ISS Expedition 25 Commander Doug Wheelock, KF5BOC -- along with Flight Engineers Shannon Walker, KD5DXB, and Fyodor Yurchikhin, RN3FI -- has returned to Earth from the International Space Station (ISS). Their Soyuz spacecraft landed in Kazakhstan on Friday, November 26. While on board the ISS, both Wheelock and Walker participated in the Amateur Radio on the International Space Station (ARISS) program, and made 22 ISS-to-school and ISS-to-camp QSOs. In addition, Wheelock averaged about two dozen casual QSOs each week while on board the ISS. Read more [here](#).



Astronaut Doug Wheelock, KF5BOC, chats with Craig Fox, N6RSX, of Brea, California while on board the International Space Station. [Image courtesy of NASA]

On the Air: The Spratly Islands DXpedition Gets Wings

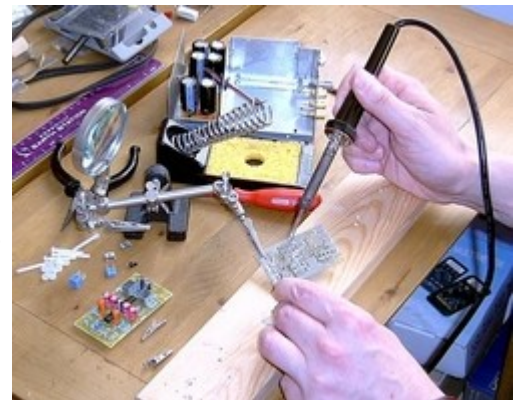


The 37 operators from 15 countries who make up the DX0DX DXpedition Team that will go to the Spratly Islands is finalizing preparations for the almost month-long DXpedition that begins January 6, 2011. Instead of going by boat, the team will instead fly to Thitu Island where they will set up their operation. Thitu is the second largest island in the Spratly Islands. The Spratlys are a group of more than 750 reefs, islets, atolls, cays and islands in the South China Sea between Vietnam, the Philippines, China, Malaysia and Brunei. They comprise less than

4 square kilometers of land area, spread out over more than 425,000 square kilometers of sea. Read more [here](#).

ARRL Homebrew Challenge Has New Dedicated Web Page

The original announcement of the Third ARRL Homebrew Challenge -- as seen on page 47 in the November 2010 issue of QST -- referred readers to the QST-in-Depth Web page for updates and rules clarifications. We have now established a [dedicated Web page for the ARRL Homebrew Challenge](#). This page not only has the original and updated rules and clarifications to the third challenge, but also has information about the earlier contests. For additional clarifications, just [e-mail](#) QST Technical Editor Joel Hallas, W1ZR.



MERRY CHRISTMAS

The ARRL Letter for December 9, 2010

Exams: NCVEC Releases New General Class Question Pool

The Question Pool Committee (QPC) of the National Conference of Volunteer Examiner Coordinators ([NCVEC](#)) released the new [General class \(Element 3\) question pool](#) on Tuesday, December 7. This new question pool -- including graphics and diagrams -- will become effective for all General class examinations administered on or after July 1, 2011; it will remain valid until June 30, 2015. The current General question pool that became effective July 1, 2007 will expire June 30, 2011. The new General pool contains 457 questions, from which 35 are selected for an Element 3 examination. The [current Technician class question pool](#) that was effective July 1, 2010 is valid through June 30, 2014. The [current Amateur Extra class pool](#) that was effective July 1, 2008 is valid until June 30, 2012.



Silent Key: Body of Veteran Balloonist Richard Abruzzo, KC5VWK, Found off Italian Coast

The bodies of famed hot-air balloonist Richard Abruzzo, KC5VWK, of Albuquerque, New Mexico, and a companion were discovered on Monday, December 6 deep underwater off the coast of Vieste, Italy. Abruzzo, 47, and Carol Rymer-Davis, 65, of Denver, Colorado, had been missing since September 29 when they lost contact with officials during a balloon race, after their balloon made a rapid descent during rough weather. Read more [here](#).



Richard Abruzzo, KC5VWK (right), and Carol Rymer-Davis in the gondola of their balloon, just before taking off in the 54th Gordon Bennett Gas Balloon Race from Bristol, England.



The ARRL Letter for December 16, 2010

FCC News: New Rules Governing Vanity, Club Station Call Signs to Take Effect February 14, 2011

On Wednesday, December 15, new rules affecting vanity and club station call signs within the Amateur Radio Service were [published in the Federal Register](#). These new rules will go into effect on February 14, 2011. Thirteen months ago, the [FCC announced its intention to modify Part 97](#) as it applies to the vanity call sign system and club station call signs, aligning the rules to prior Commission decisions. Last month, the [Commission released a Report and Order \(R&O\)](#), outlining its decision.

Along with the changes to the call sign rules, the FCC made "certain minor, non-substantive amendments" to portions of Part 97.

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 2011

*Dues are in effect January 1, 2011 through December 31, 2011
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



Questions for Technician Class License



1. (T1A02) What agency regulates and enforces the rules for the Amateur Radio Service in the United States?
 - A. FEMA
 - B. The ITU
 - C. The FCC
 - D. Homeland Security

2. (T2A02) What is the national calling frequency for FM simplex operations in the 70 cm band?
 - A. 146.520 MHz
 - B. 145.000 MHz
 - C. 432.100 MHz
 - D. 446.000 MHz

3. (T3C06) What mode is responsible for allowing over-the-horizon VHF and UHF communications to ranges of approximately 300 miles on a regular basis?
 - A. Tropospheric scatter
 - B. D layer refraction
 - C. F2 layer refraction
 - D. Faraday rotation

4. (T4A03) Which is a good reason to use a regulated power supply for communications equipment?
 - A. It prevents voltage fluctuations from reaching sensitive circuits
 - B. A regulated power supply has FCC approval
 - C. A fuse or circuit breaker regulates the power
 - D. Power consumption is independent of load

5. (T5A07) Which of the following is a good electrical conductor?
 - A. Glass
 - B. Wood
 - C. Copper
 - D. Rubber

6. (T6B09) What are the names of the two electrodes of a diode?
 - A. Plus and minus
 - B. Source and drain
 - C. Anode and cathode
 - D. Gate and base

7. (T7C04) What reading on an SWR meter indicates a perfect impedance match between the antenna and the feedline?
 - A. 2 to 1
 - B. 1 to 3
 - C. 1 to 1
 - D. 10 to 1

8. (T8D06) What does the abbreviation PSK mean?
 - A. Pulse Shift Keying
 - B. Phase Shift Keying
 - C. Packet Short Keying
 - D. Phased Slide Keying

9. (T9A11) What is meant by the gain of an antenna?
 - A. The additional power that is added to the transmitter power
 - B. The additional power that is lost in the antenna when transmitting on a higher frequency
 - C. The increase in signal strength in a specified direction when compared to a reference antenna
 - D. The increase in impedance on receive or transmit compared to a reference antenna

10. (T0B06) What is the minimum safe distance from a power line to allow when installing an antenna?
 - A. Half the width of your property
 - B. The height of the power line above ground
 - C. 1/2 wavelength at the operating frequency
 - D. So that if the antenna falls unexpectedly, no part of it can come closer than 10 feet to the power wires

(For answers to test questions see page 12)

BARC Club Officers

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Have a very Merry Christmas and a Happy New Year



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