



THE OHM TOWN NEWS

Voice of the Bridgerland Amateur Radio Club

April 2007

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

PRESIDENTS MESSAGE

Welcome to the new hams

What an exciting month March has been. From the wrap up of a large class full of self-motivated and enthusiastic potential hams, through a full testing session day that was well organized and staffed by the BARC ARRL VE team, to the end of a longer than normal (in recent history anyway) wait for the new call signs to appear in the FCC ULS database.

We want to welcome and thank you new hams for your positive and patient attitudes and for your show of proper amateur radio procedures on the air.



Everyone I have talked to about this process has expressed gladness in their own ways.

Please continue to join us on the air on weekly nets, face to face at monthly club meetings

and a combination of both with some hands on experience at events like Field Day (always the fourth full weekend in June) and public service events. Ask us questions and let us know what your needs are. We will try our best to remember what it was like to be in your shoes and keep you in mind as we prepare net topics and club activities.

April Club Meeting

The theme for the April Club Meeting is Digital HF modes.

Last year at Field Day a lot of people were curious about the software Ted (AC7II) had running. It looked like some kind of merging of a chat program, RTTY and an audio equalizer. When he told them about

(Continued on page 3)

HAM PROFILE

by Boyd Humpherys W7MOY

We are enduring daylight savings time earlier than ever, morse code requirements for Amateur License applicants have been eliminated, and pretty soon we'll need a passport to travel through Petersboro. What other earth shaking events have we forgotten. Ah yes, this is the April issue of the club news letter. Most of you know what that entails.

To see just how many of you loyal enthusiasts know your beans, we'll begin with a bit of head scratching. See how many of the following events you can remember, have read about, or remember hearing grandpa relate in tales of the "olden days".

We haven't listed the name of said individual, at least to begin with. To do so would give the whole thing away. NOW—no cheating and peeking at the end of the article. Here goes !!!

- Perhaps one of the earliest hams, he obtained his Amateur Radio license from the Federal Radio Commission in 1923 at the age of 14. 9CXX.
- Six years earlier he and a childhood friend Merrill Lund, made their first crystal receivers using Quaker Oats tubes Merrill's father brought home from work.
- A former neighbor told the New York Times in 1962 that "We sensed that _____ was different, but we did not know he was a genius". "When the rest of us were out playing Cowboys and Indians, _____ was in the house working on his radios.
- At 16 he was able to establish a communications link with Navy Commander Richard E. Berd during his exploration of Greenland in 1925—a feat that



(Continued on page 3)



Club Officers

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UPCOMING ACTIVITIES 2007

April 14 - Club meeting
Digital HF Modes, Winlink 2000

May 12 - Club meeting - Build it party

Mt Man Rendezvous - May 23, 24, 25

Cache Classic - June 2nd?

C. V. Biathlon - June 9th

Wasatch Back Relay June 22

Field Day - June 23 & 24

Utah MS 150 - June 23 & 24

Cache Cruise In - July 7th

LOTOJA - September 8th

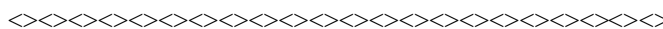
Top of Utah Marathon - September 15th

BEAR 100 - September 22nd

JOTA - October 20 & 21

BARC Club Meetings are normally on the second 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

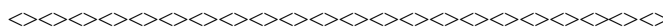
ARES Meetings are usually held on the Third Wednesday of each month at 7 P.M. at the Cache County Sheriffs Complex. Contact Tyler Griffiths for more information.



RAGNAR RELAY WASATCH BACK

The Wasatch Back already has 2500 participants registered and is on pace for 4000 participants!

Due to the fantastic growth of the Wasatch Back we have been forced to make some changes to the 2007 course. We are pleased to announce that the new location of the Wasatch Back start line will be Merlin Olsen Park in Logan, UT. In addition Exchange 6 has been moved to Eden and Exchange 12 has been moved to Snowbasin. For more details on the course changes go to <http://www.ragnarrelay.com/wasatchback/index.php>



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

The Bridgerland Amateur Radio Club, Inc. 2007 Members
As of 31 March 2007

Dave Allen KB7RAY	Bob Humphreys KD7BHB
Jacob Anawalt KD7YKO	Boyd Humphreys W7MOY
Anna Anawalt KE7CMJ	Kevin Kesler KE7AAF
I saac Anawalt	Robyn Kesler KE7GYI
Ethan Anawalt	Tyson Kesler KE7CMK
Esther Anawalt	Wallace Kohler N7YTL
Heidi Bleazard AC7ZC	Fred Larson KB7ZOU
Wayne Campbell KC7GCC	Erik Larson KD7YKO
Scott Corbridge KC7CUB	Heather Larson KD7ZFO
Dale Cox KB7UPW	Jim Lofthouse K7OA
Leon Creger W7NRV	Beanie Lofthouse KJ7LQ
Cody Dobson KD7LGT	Ken Lyon KD7BGZ
Dorothy Dobson	Ted McArthur AC7II
Richard Elwood KE7GYD	John Merkley KB7RAO
Nathan Elwood KE7GYF	Kurt Meyer W7CKY
Roger Ellis KE7HTE	Stanley Miller KE7JED
Rosario Ellis KE7MDV	Bill Neville WA7KMF
Arnold Finchum W6HO	Dennis Peck KC7YVO
Dave Fullmer N7RRZ	Teddy Peck KD7ARW
Wally Gibbons WB7ASQ	Bryan Purdie KE7CML
Roxanne Gibbons N7NJD	Philip Rasmussen N7JFG
Tyler Griffiths N7UWX	Kevin Rees KB7RAI
Paul Hansen WO7N	Donald Rice KC7JIQ
Linda Hansen N7NIS	Susan Rice KD7RUM
Richard Harris KC7TXX	Cordell Smart KD7WRB
Philip Harris KE7BVR	Russell Smart KD7WRA
Gary Hawkins KC7EUW	Dean Stevens N7WDY
Cline Hendrickson K7KE	Tammy Stevens N7YTO
Robert Henke	Lisa Swing KE7GYC
Ralph Holt KC7CWI	Russ Tarbet KJ7UP
Gloria Holt KC7CWU	Keith Thompson AC7ZJ
Neil Holt N7PEO	Colby Vanderbeek KE7LAY
Kathy Holt N7PEN	John Waldron KB7WET
Heather Holt KE7ERD	Jay Williams KB7RAZ
Eric Holt KE7ESS	Harold Winger KB7RBA
LaDell Hoth KC7BDU	Bob Wood WA7MXZ
Paul Hoth N1IM	Valerie Wood N7NJV
Bonnie Hoth KC7DGP	Terry Zollinger N7PEG

If your name is missing from the list, please contact one of the club officers or send an email to membership@barconline.org. Be sure to act soon so you don't miss the next issue of The Ohm Town News. We thank you for your support and look forward to seeing you at the meetings and activities.

Membership in **The Bridgerland Amateur Radio Club, Inc.** 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.
- An opportunity to meet and learn from other amateur operators. (Club meetings are held the second Saturday each month from October to May.)
- Events where you can practice your radio skills in a fun learning environment.
- Social activities where members can make friends and interact with other members.



Your tax deductible membership fees maintain the repeaters and support club activities.

The Bridgerland Amateur Radio Club, Inc.

Application for the Year 2007 Membership

Dues are in effect January 1, 2007 through December 31, 2007

Name _____ Call Sign _____ Date Paid _____

P.O. Box _____ Street Address _____

City _____ State _____ Zip Code _____

Home Phone () _____ Work Phone () _____

E-mail _____

Individual Membership - \$25 \$ _____

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

Equipment Donation \$ _____

(One Newsletter per household)

Names and call signs of additional family members Total \$ _____

Name _____ Call Sign _____

Name _____ Call Sign _____

Name _____ Call Sign _____



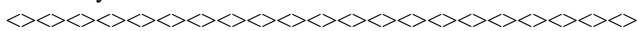
Mail your completed form and a check to: B.A.R.C., P.O. Box 111, Providence, UT 84332-0111 or pay online at <http://www.barconline.org/?q=node/242>

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

The ARRL Letter Vol. 26, No. 09 March 2, 2007
==>AMATEUR RADIO VOLUNTEERS ASSIST
FOLLOWING SEVERE WEATHER

Amateur Radio Emergency Service (ARES) members and individual radio amateurs pitched in to assist after severe weather struck Arkansas and Louisiana February 24. In Desha County, Arkansas, more than two dozen people were injured when a tornado ripped through Dumas, causing widespread damage. Dumas resident Roger Lunsford, KD5HMS, says the twister spared his neighborhood. "My family and I huddled in the bathroom with my radios in hand monitoring public officials reporting a visual sighting of the funnel cloud . . . heading straight for town," he recounted. The storm took out electrical power. Once the storm passed, Lunsford grabbed his radio and went into town to help search for victims; most escaped without life-threatening injuries. No ARES teams deployed, but with telephone service out, Lunsford was able to get out word of the damage via Amateur Radio. He and his family had to take cover again as another tornado threatened. In Louisiana, Caddo-Bossier Parish Emergency Coordinator Richard Lea, NZ5S, reports Bossier Marshals Office Chief Rick Ware, K5VXT, requested ARES activation after a tornado struck North Bossier Parish. An emergency net convened for three hours on a VHF repeater, with 20 check-ins and others monitoring. SKYWARN volunteers relayed storm and weather data. Agencies responding to or using the ARES net included the Bossier Office of Emergency Preparedness as well as law enforcement. "The affected area was thankfully small, and only minor injuries were reported," Lea said. "ARES stations were prepared to deploy, but there was not a need at the time of the activation." ARES terminated operations at midnight, although Lea and Ware stood by overnight.

ARRL Regulatory Information Branch issues reminders: The ARRL Regulatory Information Branch advises all Technician and Novice licensees that they may not operate FM mode on 10 meters (or anywhere else below 30 MHz). Novices and Technicians may operate CW and data on the segment 28.0 to 28.3 MHz, and CW and SSB phone on the segment 28.3 to 28.5 MHz. Novices and Technicians must limit their output power to 200 W PEP on these 10-meter segments and on any HF bands where they have privileges (ie, CW on 80, 40 and 15 meters). The RIB also notes that a valid Certificate of Successful Completion of Examination (CSCE) for element credit issued prior to February 23, 2007, does not automatically convey operating privileges under the new rules. The holder must first redeem the CSCE by applying at an examination session and paying any application fee. If the Volunteer Examiner (VE) team accepts the CSCE for element credit, it will issue a CSCE for upgrade credit. Only then may upgraders operate under their new privileges, identifying as /AG (if upgrading to General) or /AE (if upgrading to Amateur Extra) until the FCC Universal Licensing System (ULS) <<http://wireless.fcc.gov/uls/>> database reflects their new license class. A CSCE is valid for 365 days from the date of issuance.



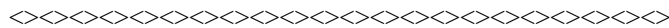
The ARRL Letter Vol. 26, No. 10 March 9, 2007
==>ARRL PRESIDENT EMERITUS JIM HAYNIE,
W5JBP, NAMED "AMATEUR OF THE YEAR"
Dayton Hamvention® <<http://www.hamvention.org>> has

named ARRL President Emeritus Jim Haynie, W5JBP, as its 2007 Amateur of the Year. Hamvention says Haynie's League leadership "helped define Amateur Radio's role in emergency communication." Hamvention also announced this week that ARRL Laboratory Manager Ed Hare, W1RFI, will receive Hamvention's Special Achievement Award to recognize his technical expertise in documenting the threat of interference from broadband over power line (BPL) systems. Internet Radio Linking Project (IRLP) <<http://www.irlp.net>> David Cameron, VE7LTD, was named the recipient of the Technical Excellence Award. "I was astonished, and I'm deeply honored," Haynie said after getting word that he'd be receiving Hamvention's top award in May. "It's quite a recognition—and quite a surprise." A ham for 34 years, Haynie, who lives in Dallas, was West Gulf Division Director for eight years and an ARRL vice president for two years. He then served three terms as the League's volunteer president, from 2000 until 2006, when he was succeeded by current ARRL President Joel Harrison, W5ZN. Haynie's award nomination cited his "energy, tenacity and attention to detail that has transformed the American Radio Relay League from the service organization it was prior to 9/11 into the proactive, vital emergency service clearing house and educational operation that it is today." During his tenure as League president, Haynie's effort to define Amateur Radio's role in homeland security was among his top initiatives. In 2003, he signed a formal Statement of Affiliation between the Department of Homeland Security and ARRL. He has an abiding interest in emergency communication and has promoted Amateur Radio's emergency communication value and contributions on Capitol Hill and elsewhere. Haynie also championed "The Big Project"—now the ARRL Education and Technology Program (ETP) -- to bring ham radio and wireless technology into schools. Special Achievement Award: Ed Hare, W1RFI Dayton Hamvention will honor Hare for his extensive work calling attention to the potential threat of BPL interference to licensed radio communication services and in documenting it. A member of the ARRL HQ staff for more than 20 years, Hare said he's honored but feels the award really is one for Amateur Radio. "What I did would have had no meaning without the work of hundreds of hams across the country working on BPL issues locally," he said. "They have put in countless hours as volunteers, making a difference when a difference was really needed." Hamvention said Hare's modeling of BPL interference "made a convincing argument" about the threat. "Hare even outfitted his own automobile so he could travel the Northeast and conclusively document BPL interference," the announcement added. Hare said the award would have a place in the ARRL Lab "to honor and thank all of those who have given their time to protect Amateur Radio." Technical Excellence Award: David Cameron, VE7LTD In announcing the recipient of its Technical Excellence Award, Hamvention cited Cameron's instrumental role in developing IRLP to permit worldwide radio and repeater linking. "His work literally transformed FM repeater communication from a local entity into a worldwide communication network that has been of immense value in emergencies and has helped unite the world's radio amateurs over the Internet and radio," the announcement said. "IRLP and its derivatives have opened up



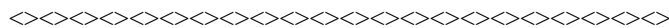
a whole new world of communications in VHF/UHF repeaters with the power of the Internet." Dayton Hamvention 2007 takes place Friday through Sunday, May 18-20, at Hara Arena near Dayton, Ohio. The theme of the 56th Hamvention is "Local Clubs: The Heart of Ham Radio."

ARRL releases statement on Red Cross background check policy: ARRL—the National Association for Amateur Radio, has released a position statement <<http://www.arrl.org/announce/ARRL-ARC-bg-check.html>> regarding the implementation of a background check procedure by the American Red Cross. The statement was released to address ARRL members' concerns prior to a March 31, 2007, compliance deadline the Red Cross has set. The application of the background check policy to Amateur Radio operators providing communication services to the Red Cross—either as Red Cross volunteers or as Amateur Radio Emergency Service (ARES) members—is the subject of continuing discussions between the ARRL and the Red Cross. Therefore, the position statement is subject to change. The ARRL will announce any such revisions and updates on its Web site.



The ARRL Letter Vol. 26, No. 11 March 16, 2007
CQ introduces HF Operator's Survival Guide: In response to recent changes in licensing rules and operating privileges for all hams, the editors of CQ Amateur Radio magazine have prepared an HF Operator's Survival Guide, a 16-page getting-started guide for newcomers to high-frequency (shortwave) Amateur Radio communications. Written by CQ Contesting Editor John Dorr, K1AR, Contributing Editor Gordon West, WB6NOA, and CQ Editor Rich Moseson, W2VU, the booklet is a practical, hands-on guide to success in HF ham radio. "Starting out on HF can be pretty intimidating, especially now, at the bottom of the sunspot cycle, when DX opportunities are harder to find," said Moseson, who also oversaw the guide's overall production. "This practical guide will help the new HF operator, regardless of license class, hit the air running." Among other topics, the book discusses the characteristics of each HF ham band and explains which is best and when, basic HF operating practices, choosing your first HF transceiver, antenna basics, and various HF modes and operating activities. There's also an HF band chart. The HF Operator's Survival Guide is \$2 (plus shipping), with discounts available for bulk purchases. To order, or for more information, contact CQ Communications Inc, 800-853-9797 (toll-free) weekdays 9 AM to 5 PM Eastern Time.

Cushcraft Corporation acquired by Laird Technologies: Cushcraft Corporation, a manufacturer of antennas for Amateur Radio, commercial and industrial applications has been acquired by Laird Technologies. A February 26 announcement put the purchase price at \$89.75 million. Headquartered in St Louis, Laird Technologies designs and manufactures antenna systems, electro magnetic interference shielding products and wireless systems, among other products. Cushcraft has design and manufacturing centers in New Hampshire, California and Utah.



The ARES E-Letter March 21, 2007
JOINT ARES-MARS EXERCISE "OPERATION DEEP

FREEZE 2007" DEMONSTRATES CAPABILITIES

Not far from the area of New York State buried by 10 feet of snow, MARS and Civil Air Patrol members set up a joint operations center (JOC) at Hancock Air National Guard Base in Syracuse to manage a disaster drill based on a catastrophic winter storm scenario. The purpose of the February 10 "Deep Freeze '07 Exercise" was to evaluate the capability of MARS, ARES and RACES operators to cooperate and support a federal response to a major disaster. One of the specific goals was to file with the JOC numerous Essential Elements of Information (EEI) reports, which are important sources of information for the federal disaster response planners and others. Another goal was to test the effectiveness of obtaining "spot reports" of conditions from the Amateur Radio community that could be formatted into EEIs by the MARS operators. The exercise dovetailed with disaster drills at eight up-state hospitals and included a patient evacuation and tracking exercise run by the Central New York Regional Resource Center, the Medical Reserve Corps, and the NY Air National Guard. According to Deep Freeze Coordinator James Edmonds, the exercise was a complete success surpassing all expectations for participation and messages successfully delivered. Observers from the Transportation Security Administration and NY Division of Military and Naval Affairs were impressed by the technical capabilities and operator skill demonstrated by the volunteer radio operators. The technology included HF and VHF voice nets on Amateur and MARS frequencies, WinLink 2000, HF phone patches, and liaison with the SHARES net, an HF component of the National Communications System. Thomas Carrigan, NE1R, who served as net control on a busy 75 meter net observed that the interaction between ARES operators and MARS operators was "seamless." As MARS is redefined from its Viet Nam era role as a communications service for deployed military to a more current role providing auxiliary communications for homeland security and disaster response, it appears likely that more drills including ARES members will be planned.—Tom Carrigan, NE1R <tomc54@charter.net>

**ARMY MARS AND WINLINK 2000
INSTALLATION AT DHS**

In a letter to its members, new Army MARS Chief Carter reports, "Our efforts to make Army MARS 'Relevant to First Responders Today and Tomorrow' are paying off with big results. The Department of Homeland Security (DHS) has studied our efforts with Winlink 2000 and well understand its utility when coupled with Army MARS HF capability. DHS has completed installing and activating its own hardened Winlink Message Server, called a Common Message Server (CMS), in its Headquarters in Washington D.C. This is the fourth hardened CMS in the Army MARS Winlink 2000 network. All four Army MARS Winlink 2000 CMSs mirror 100% of all Army MARS Winlink message traffic. This redundancy will assure the unrestricted availability to all Winlink message traffic during even the most catastrophic conditions to support emergency relief efforts." "DHS is the first federal agency to adopt the Army MARS Winlink messaging strategy to maximize a low cost, readily available, and highly reliable Army MARS HF/e-mail capability. Soon, other agencies will leverage the capability and reliability that Army MARS and its Winlink system provides." - Stuart S. Carter, AAA9A, Chief, Army MARS (AAA9A)

Questions for Extra License

1. (E1E06) Which amateur stations are eligible to operate as a space station?
 - A. Any except those of Technician Class operators
 - B. Only those of General, Advanced or Amateur Extra Class operators
 - C. Only those of Amateur Extra Class operators
 - D. Any FCC-licensed amateur station
2. (E2B07) What is the standard video level, in percent PEV, for blanking in amateur fast scan television?
 - A. 0%
 - B. 12.5%
 - C. 75%
 - D. 100%
3. (E3C01) What effect does auroral activity have upon radio communications?
 - A. The readability of SSB signals increases
 - B. FM communications are clearer
 - C. CW signals have a clearer tone
 - D. CW signals have a fluttery tone
4. (E4D01) What is one of the most significant problems associated with reception in HF transceivers?
 - A. Ignition noise
 - B. Doppler shift
 - C. Radar interference
 - D. Mechanical vibrations
5. (E5D07) What is the relationship between the current through an inductor and the voltage across an inductor?
 - A. Voltage leads current by 90 degrees
 - B. Current leads voltage by 90 degrees
 - C. Voltage and current are 180 degrees out of phase
 - D. Voltage and current are in phase
6. (E5I09) Which material will exhibit the greatest photoconductive effect when visible light shines on it?
 - A. Potassium nitrate
 - B. Lead sulfide
 - C. Cadmium sulfide
 - D. Sodium chloride
7. (E6E01) For single-sideband phone emissions, what would be the bandwidth of a good crystal lattice band-pass filter?
 - A. 6 kHz at -6 dB
 - B. 2.1 kHz at -6 dB
 - C. 500 Hz at -6 dB
 - D. 15 kHz at -6 dB

**THE OHM TOWN NEWS
PO BOX 111
PROVIDENCE, UT 84332**



April, 2007

Some Contents...

Presidents Message	1
Ham Profile: Mystery Guest??.....	1
Events Calendar	2
BARC Membership Application Form	5
ARRL News	6-7

