



# THE OHM TOWN NEWS

*Voice of the Bridgerland Amateur Radio Club*

## September 2006

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

### HAM PROFILE

by Boyd Humpherys W7MOY

Lets get acquainted with another of our globe trotting fraternity. None other than Terry Barnett, AD7IG, formerly KE7DGX. Terry had the necessary stuff to get his first ticket back in 58, a couple of upgrades in the interim, winding up with an extra patch hanging on the wall. He like quite a few had to travel to SLC to take the initial exam. Anyone remember those rather hairy FCC administered exams with the noisy code machines which you had to decipher first before they gave you the written exam? Those Honchos never cracked anything resembling a smile, strictly business. He claims he caught the bug when a junior in High School, South Cache High School no less. Incidentally the physical evidence of the old Alma Mater is currently missing.



He sports an ICOM 718 & V8000, plus a Kenwood HT and an assortment of Mag mounts for 2 & 440 and a J-pole. You probably haven't heard him on the air much recently, however, in the presence of his good frau, he exhibited exceeding sorrow and a change of heart, so we expect great S units from his castle.

He first became an eligible tax paying new infant in Logan, but shortly tagged along with his parents when they shifted to Sauerkraut town, where he attended elementary and later the hallowed halls of ivy across the gully on the west end of Hyrum.

Then began a rather lengthy involvement with Uncle Sam's military, 21 years to be exact, with 14 years in the reserve. The U S Army and Air Force took him into

*(Continued on page 3)*

### PRESIDENTS MESSAGE

As I write this plans are underway for LOTOJA and Top of Utah. These events alone take days of planning. We have had a unprecedented amount of hams step forward and volunteer for these events. On Behalf of the club, thank you very much. This year for LOTOJA we will have more than 80 Ham/spouses from 3 states and 4 clubs help us with LOTOJA. I wish to extend my thanks to Tyler Griffiths, Ted McArthur, Bob Wood, Bill Neville, Jacob Anawalt, Paul & Bonnie Hoth, Ken Buist, and Khalil and Sheri Godfrey for their help in organizing the efforts of LOTOJA.

Field Day was a lot of fun and a great success. We had a fantastic turnout for our clubs dinner on Saturday night. Probably the largest group we have had for about 5 years. Thanks to all who came and helped us out. It was great to see many faces that we have not seen in some time.



Our Club Pot-luck social will be held on Thursday September 7<sup>th</sup> at 6:30 PM at the Hyrum Gibbons Mount Logan Park on 1400 East and about 300 south in Logan. You come up Center street and up onto the hill. You can follow Eastridge to 1400 East and you will be there at the park.

Bring a main dish or dessert to share with everyone. Bring your own table service. We will provide the root-beer. A LOTOJA meeting will follow at 7:15 PM. Last minute details will be given out.

#### Elections

Club elections are coming up this year. After 3 years as President and before that Secretary etc, it is time for me to step down and let someone else lead the

*(Continued on page 3)*



## Club Officers

### *President*

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## UPCOMING ACTIVITIES 2006

September 7 - BARC Club Meeting 6:30 PM  
Pot-luck social at Hyrum Gibbons Mount Logan Park

September 9 (5-10) - LOTOJA  
Sep 5 - Radio checks after regular BARC Net  
Sep 7 - 7:15 P.M. Short meeting with last minute  
Details after club meeting

Sep 8 - 5-7 P.M. Dinner sponsored by EPIC and catered  
by Cafe Ibis for those helping with race, in front of Sun-  
rise Cyclery, for tickets see Ken Buist or Khalil Godfrey

Sep 8 - 8:00 P.M. Pick up tires in front of Sunrise Cyclery

Sep 9-Race begins at 6:30, be there by 5:30 to get ready  
For more information check out [www.barconline.org](http://www.barconline.org) or  
[http://www.lotojaclassic.com/LOTOJAmain\\_content.html](http://www.lotojaclassic.com/LOTOJAmain_content.html)

September 22 & 23 - Bear 100  
<http://www.bear100.com/>

September 23 - Top of Utah Marathon  
<http://today.lib.usu.edu/run/marathon.htm>

October 14 - BARC Club Meeting

October 21 & 22 - Jamboree on the Air  
<http://www.scout.org/wse/jota.shtml>

November 11- BARC Club meeting  
Club elections

December - Club meeting  
Christmas party, more info later

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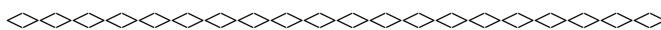
BARC Club Meetings are normally on Saturday  
mornings at 10:00 A.M. on the 3rd floor of  
the Cache County Sheriffs Complex on  
200 North and 1225 West, Logan, Utah

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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.

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The Bridgerland Amateur Radio Club holds a weekly net Tues-  
day nights at 9:00 PM on the 146.72, the 147.26, the 145.31,  
the 147.20 and the 449.625 BARC Repeater System with a PL  
tone of 103.5. It is a directed net and we invite all licensed  
Amateur Radio Operators to check in and participate.



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

*(Presidents Message Continued from page 1)*

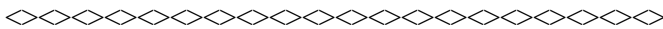
club for awhile. I hope you will consider running for club office. The club is going great. There are many new hams involved, and lots of enthusiasm. I hope you will consider running for office to help things move forward. We need you. I will still be around as a Board member and will be doing what I can to help BARC move along. Elections will be held in November. We will have the Christmas Party in December and a regular club meeting in October.

Members of the club have been busy working on repeaters, even helping out our friends to the North with the 146.80 repeater in Idaho. The portable repeater has been tuned up. Many Saturdays have been spent in a shop on the west side of Logan, building and building and figuring things out. Thanks to everyone who has helped make this possible.

I am looking forward to seeing you all at the potluck social. It should be a lot of fun.

Till then, 73

Kevin Reeve N7RXE



*(Ham Profile Continued from page 1)*

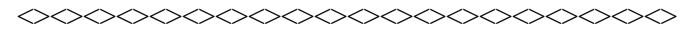
So. Carolina, Italy, Viet Nam, Japan, Korea, and a few places in between. His specialty in the service involved microwave communications and other related technology involving electron flow. After taking care of his duty, he wound up back in Logan with a stint at USU in the Space Dynamics Lab and finally in the Electronics area of the Maintenance Department for a total of 14 years. No gold watch after that service, however we had the pleasure of meeting him up there during that time. Terry has a fondness for electronics of course, along with photography and camping.

He and his future XYL, the former Patricia Weeks met with a blind date just as he was about to ride off into the sunset to Viet Nam with Uncle's forces. They apparently decided that delay wouldn't get in their way and they tied the knot. She has tagged along since and 7 harmonics are to their credit. She takes care of their neat castle(Ham shack), has gotten involved with ceramics with some neat examples gracing their home. She also dabbles with embroidery and might even be persuaded to plug up the holes in your stockings(one at a time, for a modest fee of course).

Terry got involved with MARS while in Viet Nam and put it to good use when the prospect of a rather serious operation and his departure homewards post haste created a tense moment or two. With confidence he fired up the MARS rig, generated a quick note to his family with the vital travel data and passed it off to a fellow ham in Arizona who called the family and passed it along in fine style. The friendly ham, Barry Goldwater. Another interesting note was that of his handling some MARS traffic while at a base in Arizona. The person initiating the traffic was a ranking General in Viet Nam

who was issuing marching orders to a wife, to meet him in Hawaii at such and such a time and such and such a place, all in proper military protocol of course. After a hurried call to said frau, she must have obeyed orders, thanked Terry and apparently grabbed her bags and departed. That prompt action surely must have averted some form of international crises.

73s Good to have you aboard Terry. The Navy accepts hams as well.



The ARRL Letter Vol. 25, No. 29 July 21, 2006

**==>FBI'S "INFRAGARD" PROGRAM COURTS AMATEUR RADIO AS ALLY**

Amateur Radio's value as one component in a cooperative effort to protect critical national infrastructure was the focus of an InfraGard "Communications Interoperability and Ham Radios" summit this week in New York City. An FBI program, InfraGard is dedicated to promoting dialogue between the private sector and the federal investigative agency "concerning critical infrastructure protection issues." ARRL Chief Development Officer Mary Hobart, K1MMH, and Affiliated Clubs/Mentor Program Manager Norm Fusaro, W3IZ, represented League Headquarters at the gathering, which featured a range of speakers. "This is the key to opening the door to a valuable model partnership," Hobart commented afterward. "They were very receptive. I think it was a good beginning." Hobart says Amateur Radio came up on InfraGard's radar earlier this year and got the nonprofit organization thinking of Amateur Radio as a possible partner, ally and service provider in emergencies. New York Metro InfraGard put together the one-day session July 17 at Cisco Systems' New York office as a way to get more familiar with Amateur Radio. "They understand that ham radio has 'been there' in terms of emergencies and disasters and is working to improve its ability to respond," Hobart said. She said New York Metro InfraGard President Joe Concannon "expressed his deep interest in Amateur Radio as a partner and a desire to learn more about our capabilities." Keynote speaker for the day-long session was Broadcasting & Cable Hall of Famer and New York Public Television CEO William Baker, W1BKR. Jeff Pulver, WA2BOT, chairman and founder of pulvermedia.com and cofounder of Vonage, also addressed the gathering. "This InfraGard meeting brought together a group of people who care about post-disaster communication preparedness, and a majority of the people in attendance were active members of the Amateur Radio community," Pulver observed later in a blog entry. "This was my first time in the post-VoIP era that I had a chance to talk to hams about my early experiences with VoIP and how my ham radio background has had a positive effect on the past 12 years of my life." Pulver said the InfraGard meeting provided "a great audience to speak to, since we shared a common passion for communications and common ground on a number of topics." He said that includes the need for coordination between the ham radio community and fellow communication enthusiasts "who want to volunteer their time the next time disaster strikes." In a presentation called "Radio Communications 101," New York City District Emergency Coordinator Mike Lisenco, N2YBB, spoke about the Amateur Radio Emergency Service (ARES) and the League's role in emergency and public service communication

and training. Allan Manuel, an attorney in the FCC Public Safety and Homeland Security Branch, indicated the Commission is willing to be more flexible in accommodating Amateur Radio during emergencies and disasters. The FCC wants to hear from the public by August 7 in response to an FCC Notice of Proposed Rule Making (NPRM) regarding recommendations of the independent panel that reviewed Hurricane Katrina's impact on communication systems (EB Docket 06-119). Some of the wide-ranging proposals in the NPRM include possibly amending the rules to permit automatic grants of certain types of waivers or special temporary authority (STA) in declared disaster areas. For their part, Hobart and Fusaro demonstrated the League's "Ham Aid" go kits of Amateur Radio gear that can be rapidly deployed to disaster areas where the Amateur Radio infrastructure has been lost or compromised. They also provided attendees with copies of the ARRL's Community Education Program brochures and materials. Hobart says Concannon envisions a model in New York City that other InfraGard chapters across the country could emulate. "I think it's an opportunity for Amateur Radio to align itself with a high-profile group with key federal connections," she said.

? RAC seeks input on restructuring Amateur Radio in Canada: Radio Amateurs of Canada is seeking input from the Amateur Radio community on possible future restructuring of the Amateur Radio Service, possibly by easing entry-level licensing requirements as other countries have done. The Committee on the Restructuring of Amateur Radio in Canada, chaired by RAC Midwest Director Bj. Maden, VE5FX, has designed a questionnaire to gather information from Canadian amateurs about their thoughts on the future of the service. "Your input to this questionnaire is critical to help the committee to determine the direction which Amateur Radio might take," the RAC says. The survey takes about 10 minutes. Canadian radio amateurs can visit the RAC Web site's "Restructuring in Canada" page <<http://www.rac.ca/regulatory/restructuring.htm>>, which includes a link to the survey and to an article on restructuring that appeared in the May/June issue of The Canadian Amateur. There's also a PowerPoint presentation, including presenter's notes, for club programs.

The ARRL Letter Vol. 25, No. 30 July 28, 2006  
==>**NEW EMERGENCY COMMUNICATIONS BILL  
INCLUDES ROLE FOR HAMS**

A bill to enhance emergency communication at the Department of Homeland Security (DHS) includes Amateur Radio operators as part of an overall effort to provide interoperability among responders. The 21st Century Emergency Communications Act of 2006 (HR 5852), an amendment to the Homeland Security Act of 2002, passed the US House this week on a 414-2 vote and has gone to the Senate. Its sponsor, Rep David G. Reichert (R-WA) -- who chairs the Subcommittee on Emergency Preparedness, Science and Technology—says his legislation is designed "to improve the ability of emergency responders to communicate with each other"—interoperability. "Until the events of September 11, 2001, many people in this nation believed and assumed that first responders from differ-

ent disciplines and jurisdictions could actually talk to each other," Reichert—a former police officer—told the House in support of his bill. "It wasn't happening. It is still not happening today. Unfortunately, that was not the case then, and, as demonstrated by the inadequate responses to Hurricane Katrina, that is not the case today." Reichert told his colleagues that the inability of first responders to communicate with each another effectively led to the loss of many lives along the US Gulf Coast last year. "This is simply unacceptable," he said. His measure also would require the DHS to strengthen its efforts to improve emergency communications. HR 5852 calls for Amateur Radio operators to be part of a "Regional Emergency Communications Coordination Working Group" (RECC Working Group) that would be attached to each regional Department of Homeland Security office. The RECC Working Groups would advise federal and state homeland security officials. In addition to radio amateurs, membership in the RECC Working Groups would include state and local officials; law enforcement, first responders such as fire departments; 911 centers; hospitals; ambulance services; communications equipment vendors, telephone, wireless satellite, broadband and cable service providers; public utilities; broadcasters; emergency evacuation transit services; state emergency managers, homeland security directors or representatives of state administrative agencies; local emergency managers or homeland security directors, and "other emergency response providers or emergency support providers as deemed appropriate." Federal government representatives to the RECC Working Groups would include representatives from the DHS "and other federal departments and agencies with responsibility for coordinating interoperable emergency communications" with state, local, and tribal governments. According to the bill, the RECC Working Groups would function to assess the survivability, sustainability, and interoperability of local emergency communications systems to meet the goals of the National Emergency Communications Report. That report would recommend how the US could "accelerate the deployment of interoperable emergency communications nationwide." The RECC Working Groups also would be tasked with ensuring a process to coordinate the establishment of "effective multi-jurisdictional, multi-agency emergency communications networks" that could be brought into play following acts of terrorism, natural disasters and other emergencies. HR 5852 has been referred to the Senate Committee on Homeland Security and Governmental Affairs.

==>**MASSIVE CUBESAT LAUNCH FAILS**

A much-heralded attempt to launch 15 CubeSats built by 11 universities and one private company failed this week. Fourteen of the tiny spacecraft carried Amateur Radio transmit-only payloads. The Dnepr-1LV rocket lifted off from Russia's Baikonur Cosmodrome in Kazakhstan at 1943 UTC on July 26. Various accounts indicate that the mission went awry less than two minutes after liftoff when the first stage failed to separate on time, causing an emergency shutdown of the rocket's main engine. Reports vary on how far downrange—and just where—the vehicle fell. One said the Dnepr dropped to Earth some 15 km from the launch site, while another put the distance at 190 km. A third account said the Dnepr dropped into the Indian Ocean. Originally set for June 28, the

launch had been postponed until July 26. The CubeSat project was a collaboration between California Polytechnic State University-San Luis Obispo and Stanford University's Space Systems Development Laboratory. All of the CubeSats were designed and built by students at various universities in the US and elsewhere in the world. The CubeSat roster included AeroCube-1, CP-1, CP-2, ICE Cube-1, ICE Cube-2, ION, HAUSAT-1, KUTESat, MEROPE, nCube-1, RINCON, SACRED, SEEDS, PiCPoT and Voyager. Thirteen of the satellites were to have downlinks in the Amateur Radio satellite allocation between 435 and 438 MHz, and one was to operate on 145.980 MHz. None of the spacecraft carried a transponder. Transmitter power outputs ranged from 10 mW to 2 W. The Dnepr was the second to launch this month from Baikonur's Area 109. Other payloads included BelKA, the first Belarusian satellite, and three other microsattellites. According to Satellite Launch Report, the original Dnepr launcher was replaced by a different one in June after a problem was detected in the original vehicle's digital flight control system. The Dnepr launch failure was said to be the first in seven orbital launch attempts. The Dnepr vehicle is a repurposed SS-18 "Satan" three-stage intercontinental ballistic missile, originally designed in the 1980s to compete with the US Peacekeeper missile. The START 2 treaty allowed up to 150 of the missiles to be converted for use as space launchers. The Russian space agency has convened a special commission to look into the cause of the malfunction.

? Indonesian radio amateurs assist in tsunami response: Amateur Radio volunteers in Indonesia assisted authorities in West Java and Central Java provinces in recovery efforts following an earthquake and subsequent tsunami along Java's southern coast July 17. Wyn Purwinto, AB2QV, a native of Java who's been visiting his homeland this month, said he was in his car when the earthquake struck. "Only those in top levels of Jakarta's towers felt things shake a bit," he said. He reports that Halim Dani, YC2TJV, led a volunteer group in Central Java Province, to work with local authorities and the government to evacuate and aid victims along the beaches of South Kebumen. Residents of nearly 200 miles of south-facing coastal areas were affected by the tsunami. Hundreds of people were reported dead, many still are missing and upward of 10,000 left homeless as a result of the earthquake and tsunami. Purwinto says he and his family are safe in the capital city of Jakarta. He reports ORARI—the International Amateur Radio Union member-society—prepared to send Amateur Radio teams to several beaches along the south coast.

The ARRL Letter Vol. 25, No. 31 August 4, 2006  
 ==>VANITY CALL SIGN FEE TO  
 DROP SEPTEMBER 6

The regulatory fee to obtain or renew an Amateur Radio vanity call sign will drop slightly starting with applications received by the FCC on or after Wednesday, September 6, the FCC's Wireless Telecommunications Bureau (WTB) said this week. The new fee will be \$20.80 for the 10-year license term. This year promises to be a big one for vanity call sign renewals, since the initial round of vanity grants under the current system occurred in 1996. Licensees who want to retain vanity

call signs issued under the current (post-1995) system must pay the regulatory fee when renewing. "Consistent with our established practice, we plan to collect these regulatory fees in the August-September 2006 time frame in order to collect the required amount by the end of the fiscal year," the FCC explained in a July 17 Report and Order (R&O), "Assessment and Collection of Regulatory Fees for Fiscal Year 2006," in MD Docket 06-68. The FY 2006 vanity fee is a bit higher than the \$20.10 for the license term that the Commission had proposed in a Notice of Proposed Rule Making last March. The current vanity call sign fee of \$21.90 remains in effect for applications received by the FCC before September 6. Amateur Radio licensees may file renewal applications no sooner than 90 days of their license expiration date. While the regulatory fee payment is required from licensees wishing to keep their current vanity call signs after renewal, vanity holders can opt to get a sequential call sign and avoid paying any fee when they renew. ARRL VEC Manager Maria Somma, AB1FM, says the FCC has been handling vanity call sign license renewals from June without any delay or problems. "I'm sure Gate 2 will go just as smoothly if you use one of the automated methods of filing, such as via the ARRL or using the Universal Licensing System (ULS)," she predicted. "Paper filings to the FCC can be confusing and difficult." The FCC renewed nearly 3000 vanity call sign licenses during June and July. Amateur Radio licensees holding vanity call signs granted prior to 1996 do not have to pay a regulatory fee when renewing. This is because Congress did not begin requiring the FCC to annually recover its regulatory costs until 1993. Additionally, such licensees are not specifically tagged as vanity call sign holders in the ULS. The ARRL VEC will process license renewals for vanity call sign holders for a modest fee. The service is available to ARRL members and nonmembers, although League members pay less. Routine, non-vanity renewals continue to be free for ARRL members. Trustees of club stations with vanity call signs may renew either via the ULS or through a Club Station Call Sign Administrator, such as ARRL VEC. Somma says the ARRL's new license renewal/modification Web pages <<http://www.arrl.org/fcc/memberlicenseinstructions.html>> contain complete information on license-filing procedures, including step-by-step instructions on how to renew or update a license using the ULS <<http://wireless.fcc.gov/uls/>>.



? Irish radio amateurs seek 500 kHz allocation: According to the Radio Society of Great Britain (RSGB), the Irish Radio Transmitters Society has applied to Irish communications regulator ComReg for a small allocation in the region of 500 kHz for Amateur Radio experimentation. The move follows a similar proposal made by the RSGB to UK regulator Ofcom in 2004. Ofcom has not yet made a decision on the RSGB proposal, but the society is hopeful of an allocation between 501 and 504 kHz. There is also a possibility that Ofcom might designate the spot frequency of 500 kHz as a maritime memorial frequency. In recent years, there has been little traffic on the band 415 to 526.6 kHz, after most countries stopped using it as a Morse emergency maritime frequency in the 1990s.



## Questions for General Class License

1. (G1A11) What are the frequency segments within the 10-meter band for phone emissions?
  - A. 28000 - 28300 kHz
  - B. 29000 - 29700 kHz
  - C. 28300 - 29700 kHz
  - D. 28000 - 29000 kHz
2. (G1F08) What is the maximum symbol rate permitted for RTTY or data emission transmissions on the 6- and 2-meter bands?
  - A. 56 kilobauds
  - B. 19.6 kilobauds
  - C. 1200 bauds
  - D. 300 bauds
3. (G2F02) In what segment of the 80-meter band do most data transmissions take place?
  - A. 3580 - 3620-kHz
  - B. 3500 - 3525-kHz
  - C. 3700 - 3750-kHz
  - D. 3775 - 3825-kHz
4. (G4B09) In order to raise the S-meter reading on a receiver from S8 to S9, how much must the power output of a transmitter be increased?
  - A. Approximately 2 times
  - B. Approximately 3 times
  - C. Approximately 4 times
  - D. Approximately 5 times
5. (G5B10) A sine wave of 17 volts peak is equivalent to how many volts RMS?
  - A. 8.5 volts
  - B. 12 volts
  - C. 24 volts
  - D. 34 volts
6. (G9B02) Approximately how long is each side of a cubical-quad antenna driven element for 14.3 MHz?
  - A. 17.6 feet
  - B. 23.4 feet
  - C. 70.3 feet
  - D. 175 feet
7. (G0D04) What RF-safety precautions should you take before beginning repairs on an antenna?
  - A. Be sure you and the antenna structure are grounded
  - B. Be sure to turn off the transmitter and disconnect the feed-line
  - C. Inform your neighbors so they are aware of your intentions
  - D. Turn off the main power switch in your house

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