



# THE OHM TOWN NEWS

*Voice of the Bridgerland Amateur Radio Club*

## March 2004

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

### PRESIDENTS MESSAGE

First let me welcome all the new members of the club who have joined us this year. We have some new calls and faces, and faces we have not seen for awhile. I hope you will have fun with us, and I hope everyone will reach out to a ham they do not know and say hi, either on the air or face to face. Determine to meet a new ham or two this month.

Our February club meeting was fantastic. I can feel the excitement for having some fun with our hobby. Brian Ulrich N7QAR and Gary Roberts AG1T presented on direction finding. We will be



building the PVC/Tape measure antenna at our club meeting on March 6<sup>th</sup>. A bunny hunt will follow. Come join the fun. There are even some rumors that we may do a balloon launch sooner than we originally thought.

A recent comment by a ham has got me thinking. Basically this new ham was concerned that since he received his license, he has had a hard time finding someone to talk to on the repeater. Certain times of the day, I hear all kinds of stuff on the air. Mostly as folks are commuting to work. I am wondering what we might do to encourage some more chatter at other times during the day. We have a few young hams on the air now, should we start a kids/teen net? Do we have enough to do it. We could have a scheduled rag-chew time each evening say 9:00 PM. These are just thoughts. If you have any ideas let me know. If you are willing to help

*(Continued on page 5)*

**March Club Meeting will be held on  
March 6 (the first Saturday) at 10:00 A.M.  
It will be in Hyde Park but at a  
different location.  
See page 2 for more details.**

### HAM PROFILE

by Boyd Humpherys W7MOY

Nothing like talking to a hubby and frau team who endorse the hobby. Such is the case with Steve Wizer N7RVV and his good spouse N7RSW. Both have held a Tech + ticket for about 12 years and the tell tale vertical on the roof saved me from pounding on several doors for directions. Steve and crew sport several older Icom HTs that do the job like they are supposed to.

Steve was born in Logan, attended and graduated from the Grizzly lair, although he hesitated in a request to sing the school song. He attended USU where he adsorbed some principles of Business, strange enough to be on the receiving end of that for many years. He has been given the business by untold hundreds of students as a school bus driver for quite a few years for the Cache Co. School district. Those of you yearning for some hair raising experiences in your life, please contact Steve for fatherly counsel. Interestingly enough he has a Federal Firearms License. He probably could obtain most any kind of critter eliminating fire stick for you. Time delay on a 105 mm scatter gun is running about 6 months right now.

He and the crew like to snow mobile, and use their respectably sized boat on Bear Lake and especially Lake Powell. Didn't think to ask if he had operated any maritime mobile down there.



He was introduced to his future spouse, Teresa Fullmer some 26 years ago by a friend. There may be some credence to the rumor that she may be a shirt tail relative to our honorable keeper of the shekels, Dave, N7RRZ. They have two harmonics, the oldest, Kimberly (Kimi), has æ-

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## Events Calendar

### Club Officers

#### *President*

Kevin Reeve N7RXE  
kevree@mdls.usu.edu  
(435)753-1645

#### *Vice President*

Gary Roberts AG1T  
groberts@smithfieldfire.org  
(435)563-9528

#### *Secretary*

Julie Dabb KC7RPP  
(435)797-6724

#### *Treasurer*

Dave Fullmer N7RRZ  
Webmaster@spectradesign.com  
(435)753-2685

#### *Board Members*

Rick Stallings N7XZ  
n7xz@xmission.net  
(435)750-5578

Ted McArthur AC7II  
ac7ii@comcast.net  
(435)245-4904

#### *Newsletter Editor*

Dale Cox KB7UPW  
dbclfc@mtwest.net  
(435)563-3836

#### *Web Page Editor*

Kevin Reeve N7RXE  
kevree@mdls.usu.edu  
(435)753-1645

#### March

Saturday March 6<sup>th</sup> at 10:00 AM (note: this is a first Saturday)  
At the Hancey Shop 333 North, 100 East Hyde Park  
Behind the house on the North West corner. Three blocks  
north of the city building

Bob Wood WA7MXZ and Bill Neville WA7KMF, will  
present on the technical aspects of radio maintenance. We  
will also be building the low-cost  
direction finding antennas and at-  
tenuators demonstrated in February.



#### April

Saturday April 10<sup>th</sup> at 10:00 AM  
Probably at the University, but more  
information about the location to be announced later.

Our emergency preparedness club meeting featuring the  
earthquake lady from the Utah Homeland Security office.  
You can bet we will be called upon in the event of an earth-  
quake, we should be prepared. I hear she is an exciting  
speaker.

#### May

Saturday May 8<sup>th</sup> at 10:00 AM  
Location to be announced later  
Our HF & contesting meeting. Our guest speaker still not fi-  
nalized for this one yet, but in addition to our speaker, we  
will show some video footage of some underground hams  
working the 160 meter contest.

#### June

Field Day  
Saturday & Sunday June 26<sup>th</sup> & 27<sup>th</sup>  
We have reserved the USU field camp near the Tony Grove  
Turn off. Our annual field day and club dinner will be held  
this weekend. Come work the HF bands and talk around the  
world. Enjoy stories around the camp fire, and the eyeball  
qso's with your fellow hams. A great time for all. Control op-  
erators will be on hand which allows anyone, licensed or not  
to give the bands a try.

**Some other events BARC Traditionally has helped with:**  
Cache Classic, Mountain Man Rendezvous, Cache Cruise In,  
LOTOJA, Top of Utah Marathon, JOTA

VEC exam session

Date: Saturday March 13<sup>th</sup> at 8:00 AM

Location: Utah State University (details announced later)

Contact: Heidi Black AC7ZC ac7zc@yahoo.com

For more info, contact Heidi, or tune in to the Tuesday net  
or check out the club web site at [www.barconline.org](http://www.barconline.org)

**ARRL Bulletin 4 ARLB004  
Newington CT February 12, 2004**

**ARLB004 Amateur Radio bills add cosponsors**

ARRL President Jim Haynie, W5JBP, says he's encouraged to see additional members of the US House of Representatives agreeing to cosponsor The Amateur Radio Spectrum Protection Act of 2003, HR 713, and the Amateur Radio Emergency Communications Consistency Act of 2003, HR 1478-also known as "the CC&R bill." In Washington this week with an ARRL delegation, Haynie called it "an optimistic sign" for Amateur Radio that League members are continuing to urge their lawmakers to sign aboard the two pieces of legislation. "House members have proven to be very responsive to entreaties from the amateur community to get behind these bills," an elated Haynie said this week. "The campaign continues to pay off in terms of additional cosponsors for our bills." As of this week, 84 House members have gone on record as HR 713 cosponsors. An identical companion bill in the US Senate, S 537, has attracted eight cosponsors. Among recent House cosponsors of HR 713 are representatives Chris Bell (R-TX), Candice S. Miller (R-MI), Jim Turner (D-TX), Jay Inslee, (D-WA), Ray LaHood (R-IL), Stevan Pearce, (R-NM) and Baron Hill, (D-IN). Sponsored in the House by Rep Michael Bilirakis (R-FL) and in the Senate by Sen Michael Crapo (R-ID), the bill would require the FCC to provide

"equivalent replacement spectrum" to Amateur Radio if the FCC reallocates primary amateur frequencies, reduces any secondary amateur allocations, or makes additional allocations within such bands that would substantially reduce their utility to amateurs. HR 713 has been referred to the Subcommittee on Telecommunications and the Internet. The Senate version, S 537, has been referred to the Senate Committee on Commerce, Science, and Transportation. Meanwhile, the cosponsor count on the CC&R bill, HR 1478, rose to 32 this week with the addition of Rep Jim DeMint (R-SC), who was approached by ARRL South Carolina Section Manager Jim Boehner, N2ZZ, to consider cosponsoring both HR 1478 and HR 713. Introduced by Rep Steve Israel (D-NY), the CC&R bill would require private land-use regulators such as homeowners' associations to "reasonably accommodate" Amateur Radio antennas consistent with the PRB-1 limited federal preemption. Other recent HR 1478 cosponsors include representatives Donald Manzullo (R-IL) and Anibal Acevedo-Vila (D-PR). HR 1478 also has been referred to the House Subcommittee on Telecommunications and the Internet. Additional information on these bills is on the ARRL's "The Amateur Radio Spectrum Protection Act of 2003" Web page, [www.arrl.org/govrelations/arspa.html](http://www.arrl.org/govrelations/arspa.html), and on the "HR 1478, The Amateur Radio Emergency Communications Consistency Act of 2003" Web page, [www.arrl.org/govrelations/hr1478/](http://www.arrl.org/govrelations/hr1478/).

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**Proxy (Absentee) Ballot for New Board Member**

*For 2004 Bridgerland Amateur Radio Club*

**Voting held on Saturday, March 6th, 2003, 10:00 AM  
At club meeting held at 333 North, 100 East Hyde Park**

***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 Board Member (Vote for One)**

- Tom Baldwin      KD7TRN
- Erik Larson      KD7YKQ
- \_\_\_\_\_

**ARLB005 FCC okays BPL proposal**

The FCC has unanimously approved a Notice of Proposed Rule Making (NPRM) to deploy Broadband over Power Line (BPL). The NPRM is the next step in the BPL proceeding, which began last April with a Notice of Inquiry that attracted more than 5100 comments—many from the amateur community. The FCC did not propose any changes in Part 15 rules governing unlicensed devices, but said it would require BPL providers to apply "adaptive" interference mitigation techniques to their systems. An ARRL delegation that included President Jim Haynie, W5JBP, attended the FCC open meeting in Washington, and later expressed disappointment in the FCC action. "The Commission clearly recognized that the existing Part 15 emission limits are inadequate to stop interference, but it's placing the burden of interference mitigation on the licensed user that's supposed to be protected," said ARRL CEO David Sumner, K1ZZ. Sumner said that if the FCC really believed current Part 15 emission limits were sufficient, it would not have had to require that BPL providers institute interference mitigation systems. The FCC has not yet released the actual NPRM, and a presentation by the FCC's Office of Engineering and Technology (OET) revealed only its broad outlines. Sumner said the League would not take a formal position until it reviews the full NPRM. Anh Wride of the OET staff spelled out the scope of the NPRM, which only addresses so-called "access BPL"—the type that would apply radio frequency energy to exterior overhead and underground low and medium-voltage power lines to distribute broadband and Internet service. She said the OET staff believes that interference concerns "can be adequately addressed." Wride said the FCC's BPL NPRM:

- Applies existing Part 15 emission limits for unlicensed carrier-current systems to BPL systems. Part 15 rules now require that BPL systems eliminate any harmful interference that may occur "and must cease operation if they cannot," she noted.
- Requires BPL systems to employ "adaptive interference-mitigation techniques, including the capabilities to shut down a specific device, to reduce power levels on a dynamic or remote-control basis and to include or exclude specific operating frequencies or bands."
- Subjects BPL providers to notification requirements that would establish a public database to include such information as the location of BPL devices, modulation type and operating frequencies.
- Proposes guidelines to provide for consistent and repeatable measurement of the RF emissions from BPL and other carrier-current systems.

Mirroring his colleagues' enthusiasm, FCC Chairman Michael Powell called BPL "tremendously exciting." While conceding that BPL has "a long way to go," the chairman said it could be "the great broadband hope for a good part of rural America." Powell also said the FCC's OET has worked very hard to try to "get their hands around" the issue of interference and that the FCC would continue its vigilance in that area. The FCC is expected to issue the complete Notice of Proposed Rule Making within a few days and will invite comments on it sometime

after its publication. Additional information about BPL and Amateur Radio is on the ARRL Web site, [www.arrl.org/tis/info/HTML/plc/](http://www.arrl.org/tis/info/HTML/plc/).

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**==>LAST YEAR'S YOUNGEST GENERAL  
NOW THIS YEAR'S YOUNGEST EXTRA**

An Oregon girl considered a year ago as the youngest General class licensee <<http://www.arrl.org/news/stories/2003/01/31/4/>> in the US now may be the country's youngest Amateur Extra ticket holder. Seven-year-old Mattie Clauson, AD7BL (ex-KD7TYN and ex-KD7SDF), of Roseburg passed her Extra examination January 14 during a Valley Amateur Radio Club <<http://www.valleyradioclub.org/home.htm>> ARRL-VEC volunteer examination session in Eugene. The FCC granted her new ticket and Extra-appropriate call sign on January 20. "I DID IT! I DID IT! I DID IT! I PASSED MY EXTRA CLASS EXAM!!!! YIPPEEE!!!" Mattie exclaimed loudly on the QRZ.com <<http://www.qrz.com/detail/AD7BL>> Web site. She also announced her accomplishment in a message routed via the RS0ISS packet system on the International Space Station. "Looks like a future astronaut to me," Amateur Radio on the International Space Station (ARISS) Chairman Frank Bauer, KA3HDO, remarked after learning of the post. Mattie says she'd at least like to talk with one of the ISS astronauts some day. She's also a member of the ISS FanClub <<http://www.issfanclub.com/>> and enjoys digipeating through RS0ISS. Mattie's proud papa, Tim Clauson, AC7SP, says his daughter missed only four of the questions on the Element 4 test, which Mattie described as "really, really hard!" Whether she is the youngest Extra in the US is difficult to determine since the FCC no longer makes date-of-birth information public. Several of the very youngest amateur operators in the US have been female. In 1948, Jane Bieberman, W3OVV (now Jane De Nuzzo and still holding the same call sign), made the December cover of QST for getting her General ticket when she was just barely 10 years old. Rebecca Rich, KB0VVT—a very active amateur—got her Extra ticket in 1997 at age 8. The parents of both girls were amateur licensees. Mattie's own ham radio heritage also may have been a big plus. Her late great grandfather, S.A. "Sam" Sullivan, was W6WXU; his daughter, Joan Brady—Mattie's grandmother—now holds his former call sign. That makes her a fourth-generation ham. Mattie concedes that she would not have made it to Extra without a lot of study help and guidance from her parents (her mom, Charlotte, is AC7XM) and practice examinations on the QRZ.com Web site <<http://www.qrz.com/p/testing.pl>>. The Clausons all are ARRL members. Mattie says she continues to enjoy working HF SSB, especially DX. In addition to various HF nets, she also regularly checks into the Douglas County Amateur Radio Emergency Service Net as a visitor. Aside from ham radio, her dad says, Mattie—who is home schooled with two younger sisters—is "a regular kid who likes riding her bike, playing with her sisters and friends and flying her toy airplanes. She even likes to play in the mud." Mattie hopes to be sporting a new vanity call sign soon. Her father says she's applied for AE7MC—Amateur Extra 7 (year-old) Mattie Clauson, her dad explained.



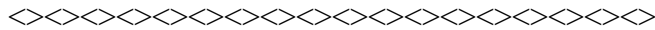
(Presidents Message Continued from page 1)

get something going here, then go for it. You do not need anyone's permission, give it a try. Some have suggested we have a 10 meter net during the week.

I wish to thank everyone who has stepped forward and offered to help. We have an opportunity in March to help some Scouts earn their radio merit badge. All that is required is a willingness to help out in some way. We will need some amateurs to help the boys carry on a 10 minute conversation with another ham or another scout. If you are interested in helping out, let us know.

Hope to see you at our March Club Meeting. We will vote for a new member of the board.

Kevin, N7RXE



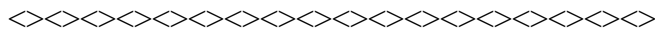
(Ham Profile Continued from page 1)

cepted a mission call for her faith and is now surf boarding in the briny deep at San Diego. Now you really don't believe that do you? Her brother Nick is also nearing eligible age and is hoping to go the far reaches of Africa or Siberia. Incidentally he has a private Pilots license, will now work up to the stretch 747.

Teresa has seen a lot of this earth's territory go by. Her father was in the Army and that ought to tell one a few things. She was born in Frankfurt, Germany, spent a few years eating sauerkraut, also a couple of years at the Fort Greely arctic test center in Alaska. At this temperate spot, they tested the endurance of all sorts of equipment as well as the humans trying to operate it. Sounds like Cache Valley when we have a warming trend. She also called Oklahoma, Maryland, and California home for a period. She majored in Special Ed at USU, has taught at Wellsville Elem. for some 26 years.

When asked her feelings when others put the bee on her to get her license, she indicated she could not make sense out of that gobbledy gook, decided to commit the stuff to undedicated memory since any explanations went in one ear and out the other. She DID persevere however and the two have utilized the rigs several times to good avail. One instance was a trip through Logan Canyon several years ago. Some gent in a barn burner came around them doing several times the speed limit, only to round the next bend, doing several ground loops and a full gainer. They used the patch to call for assistance and fortunately the driver came out alive. Just one such instance makes the involvement worth it all. Another related incident with a radio request to fill a hot tub will have to go un told. Water running down the stairs does have a soothing sound however.

73s gang.



Answers to Questions on Page 6  
1-B, 2-A, 3-C, 4-B, 5-C, 6-B

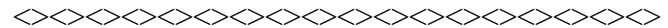
## Product Review

### ICOM IC-V8A 2 meter handheld.

I have seen tons of hand-held radios during my experience as a ham, but nothing has caught my eye more than the ICOM IC-V8A. Online you can pick it up for around \$120.00. It is a single band 2 meter radio with 5.5 watts of power, 100 memory channels and many more features. I got my hands on one visiting with a new ham who is blind, I offered to stop by to help him program in the local repeaters to his radio. He knew how to do it, but was having some difficulty only because he could not see the display to figure out what mode it was in. I actually watched him program in the .64 repeater without any problems.

The radio is very rugged, and has a nice shape to it. It has a polycarbonate front panel and an aluminum die-cast chassis. It is a nice looking radio, and has the feel of a radio you would expect to see in a commercial construction setting, but more streamlined. It lacks all the bells and whistle settings of many of the hand-helds, but when is the last time you used any of these. It is easy to program with a simple to use 16 key pad, up down buttons, on-off and PTT. Nothing could be simpler. CTCSS and DTCS are standard, along with a DTMF encoder for controlling repeaters, and an autopatch. The antenna connector is a BNC. It has all the features you need at a very affordable price. I am wishing I had one now. It is a perfect radio for a young ham, spouse, or seasoned veteran who wants a very simple to use, easy to program radio. My hats off to ICOM for creating this nice looking, easy to use, and very affordable radio.

By Kevin Reeve N7RXE



## BARC Repeaters

146.72	ac7o	Mt. Logan	link/phone
449.625	ac7o	Mt. Logan	link/phone
146.64	n7peg	Logan valley floor	no PL phone
145.31	wa7kmf	Red Spur	link/phone
147.26	wa7kmf	Promontory	link/phone

Use a PL of 103.5 for all BARC repeaters except the .64

## Other Local Repeaters

146.80	Sedgwick	Idaho	link/phone
449.80	wa7kmf	Wellsville	PL 103.5
449.325	n7rrz	North Logan	valley floor link
147.24	n7rrz	North Logan	valley floor link

447.00 IRLP Node is on the air

## 72 Autopatch off the air

The 72 autopatch that serves all repeaters off of Mount Logan and links is down. It was taken off the air and will be installed in a temporary location until the new location is completed. Use the .64 autopatch instead.

## Questions for Extra Class License

1. (E1B07) If an amateur antenna structure is located in a valley or canyon, what height restrictions apply?
  - A. The structure must not extend more than 200 feet above average height of terrain
  - B. The structure must be no higher than 200 feet above the ground level at its site
  - C. There are no height restrictions since the structure would not be a hazard to aircraft in a valley or canyon
  - D. The structure must not extend more than 200 feet above the top of the valley or canyon
2. (E1F28) What period of time does a Technician class licensee, who has just been issued a CSCE for having passed a 5 WPM Morse code examination, have in order to use this credit toward a license upgrade?
  - A. 365 days from the examination date as indicated on the CSCE
  - B. 15 months from the examination date as indicated on the CSCE
  - C. There is no time limit, so long as the Technician license remains valid
  - D. 5 years plus a 5-year grace period from the examination date as indicated on the CSCE
3. (E2E06) What is the most common data rate used for HF packet communications?
  - A. 48 bauds
  - B. 110 bauds
  - C. 300 bauds
  - D. 1200 bauds
4. (E4C03) Which of the following can cause receiver desensitization?
  - A. Audio gain adjusted too low
  - B. Strong adjacent-channel signals
  - C. Audio bias adjusted too high
  - D. Squelch gain adjusted too low
5. (E5B11) How long does it take for an initial charge of 800 V DC to decrease to 294 V DC in a 450-microfarad capacitor when a 1-megohm resistor is connected across it?
  - A. 0.02 seconds
  - B. 0.08 seconds
  - C. 450 seconds
  - D. 1350 seconds
6. (E6D09) By careful selection of core material, over what frequency range can toroidal cores produce useful inductors?
  - A. From a few kHz to no more than several MHz
  - B. From 100 Hz to at least 1000 MHz
  - C. From 100 Hz to no more than 3000 kHz
  - D. From a few hundred MHz to at least 1000 GHz

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



***March, 2004***

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