



# THE OHM TOWN NEWS

*Voice of the Bridgerland Amateur Radio Club*



## December 2007

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

### Operations and Activities



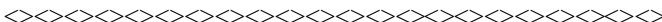
### President's Message

The November Club Meeting included the elections for the club officers for the upcoming year.

The new officers for 2008 are:

President	Jacob Anawalt	KD7YKO
Vice Pres.	Eric Larson	KD7YKQ
Secretary	Tammy Stevens	N7YTO
Treasurer	Kevin Reeve	N7RXE
Board	Tyler Griffiths	N7UWX
	Neil Dabb	KC7GCL
	Nick Dundon	N7DCL

The other committees were mentioned and members of those committees were left in place. There was a lot of discussion regarding ways to improve the club, including improvements in the web page and other publicity. For those months in the summer that we do not have a regular club meeting we need to have activities that everyone can come too, and the newsletter needs to be published every month.



Thursday, November 29 we had an exam session for some of the folks in the Ham Class. We had 10 show up to take the exam, all 10 passed.

Congratulations goes out to...



Allen LeBaron	Alan Parker
Lucille Hadfield	Linda Rasmussen
Boyd Rowley	Connie Rowley
Randy Grover	Tracy Cox
Julie Thurston	Kyle Mohlman

We also need to add John Elsworth who drove to Kaysville several weeks ago and took the exam. I expect another 10 – 15 will take it on December 8<sup>th</sup> at our regular test session and a few may try for their general that have already passed. Thanks to Eric Larsen and Ted McArthur who helped me with the test session.

Kevin Reeve  
N7RXE

I have been thinking on service a lot at this time of year and want to thank you all for your service.

Thank you for your involvement in Amateur Radio. Your actions of keeping your skills and equipment ready, meet the FCC's vision of us providing a pool of skilled radio communications experts ready to serve in the event of a communications emergency.



Thank you for your participation at club meetings and activities. I know I feel a bit

of reassurance about my choice to be a ham when I fellowship with others who are.

Thank you for participating in public service activities. What a great way to practice our skills and to have fun with each other while getting out in the public's eye. These events often require an early wake-up and a few hours or more of your time. We get thanks all the time from those we serve.

Finally a special thank-you to those who have gone the extra mile in service to fellow Amateur Radio operators and the community at large. Let's salute these great hams who have given in many ways from cash and equipment donations to time and effort servicing radio installations to organizing meetings, classes, test sessions and newsletters to monitoring the radio in case someone needs some help.

I hope to see you at the club Christmas Party and wish you a safe and uplifting holiday season.



# UPCOMING ACTIVITIES 2007



## Club Officers

### *President*

Jacob Anawalt KD7YKO  
president@barconline.org  
(435)753-9033

### *Vice President*

Eric Larson KD7YKQ  
vice-president@barconline.org  
(435)753-2267

### *Secretary*

Tammy Stevens N7YTO  
secretary@barconline.org  
(435)753-2644

### *Treasurer*

Dave Fullmer N7RRZ  
treasurer@barconline.org  
(435)753-2685

### *Board Members*

Kevin Reeve N7RXE  
n7rx@arrl.net  
(435)753-1645

Tyler Griffiths N7UWX  
n7uwx@comcast.net  
(435)752-7269

Kevin Kesler KE7AAF  
kevink@ext.usu.edu  
(435)563-1941

### *Newsletter Editor*

Dale Cox KB7UPW  
newsletter@barconline.org  
(435)563-3836

### *Web Page Editor*

Jacob Anawalt KD7YKO  
webmaster@barconline.org  
(435)753-9033

December Club Meeting - December 13  
Club Christmas Party at Golden Corral  
RSVP to Tammy Stevens or Jacob Anawalt

RACES VHF Net - December 20 8:00 P.M.

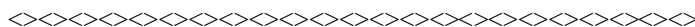
January Club Meeting - January 12

February Club Meeting - February 9

The next VE test session will be December 8.  
The tests are usually held in room 407 at Old Main  
on the USU Campus at 8:00 AM

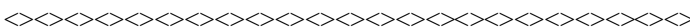
BARC Club Meetings are normally on the second  
Saturday of the month at 10:00 A.M. on the 3rd floor  
of the Cache County Sheriffs Complex on  
200 North and 1225 West, Logan, Utah

ARES Meetings are usually held on the Third Wednesday of  
each month at 7 P.M. at the Cache County Sheriffs Complex,  
but will not be held this the month (December). Contact Tyler  
Griffiths for more information. (N7UWX@comcast.net)



## The Listening Post

Name	Frequency	Days	Time
Notes			
VHF morning rag chew	146.720- 103.5	M-F	6:30AM
VHF evening rag chew	146.560	M-F	4-5PM
BARC Net	146.720- 103.5	T	9:00PM
SLC SSB VHV Net	144.250 USB	M	9:00PM
(horizontal polarization)			
Logan Storehouse ERC	146.420	1&3 Sn	8:30PM
(W7MOY)			
Ogden Utah North VHF	145.590	2,4 T	7:15PM
(W7OGD)			
SPARC Net	146.800- 88.5	1 W	8:00PM
(Sedgwick Peak)			
RACES VHF Net (IRLP)	147.200+ 103.5	3 Th	8:00PM
(even months)			
HF daily rag chew	7.228	Dy	12:00PM
High Noon Net	7.240	Dy	12:00PM
(relaxed)			
Beehive Utah Net (NTS)	7.272	Dy	12:30PM
HF daily rag chew	3.904	Dy	6:00PM
Ogden Utah North HF	3.993	1,3,5 T	7:15PM
RACES HF Net	3.918	3 S	8:00AM
(odd months)			



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



## The Trading Post

The following items were forwarded to Bob Wood, wa7mxz@arrl.net. He will be the point of contact for inquiries. The prices are the seller's estimated values, if they seem high just make a reasonable offer.

- ASTRON 12V 20A power supply - \$55
- MAX 440 MHz baes dipole antenna - \$20
- RG/8 mini feedline with connectors (50') - \$15
- SOLTEC multimeter (analog) - \$15
- WICAT audio headphones - \$5
- Realistic mic and weighted stand - \$20
- KENWOOD SMC-32 speaker/mic - \$30
- brass straight keyer - \$10
- KENWOOD TH215A 2m handheld, alkaline pack, 3 NiCad packs, charger - \$50
- MFJ electronic keyer and paddles
- KENWOOD TM 231A 2m mobile - \$150
- KENWOOD TM732 dual band mobile - \$375
- MICRONATA 12V 1.8A power supply - \$15
- TENNA SWR-12 100W SWR meter - \$15
- QRV 160-10 Marconi antenna adapter - \$5
- CHANNEL MASTER az antenna rotator and controller (medium duty) - \$100
- MFJ Versa Tuner II antenna tuner - \$75
- 10 element 2M yagi antenna - \$75
- KEMPRO alt rotator (medium duty) - \$150
- GOLD LINE 1Kw 3-way antenna switch - \$25
- G5RV antenna - \$15
- RG/8 air dielectric (Belden 9913) feedline (100') - \$60

The ARRL Letter Vol. 26, No. 42 October 19, 2007

### New Public Service Announcements Available for Broadcast:

ARRL Media and Public Relations Manager Allen Pitts, W1AGP, announced that there is a suite of seven Public Service Announcements (PSAs) available that can be used on broadcast radio. "These PSAs are a matched set that positions Amateur Radio in a positive light in the minds of people and creates a mental image of ham radio.

Parallels are on your TV or broadcast radio every evening—they show the car and an attribute of it. They want to put a positive emotion linked to their car in your mind. Like much of modern advertising, there is no specific 'call to action.' None is needed as the purpose is to create positive ideas and feelings in the mind of the public about Amateur Radio, irrespective if they will ever become hams themselves or not. In an age of antenna restrictions and frequency challenges, positive images about the Service in the minds of people can be critical."

Pitts said that he hopes hams will distribute these PSAs to local radio stations, acting for benefit of ALL Amateur Radio operators. They can be downloaded from the ARRL Web site at <<http://www.arrl.org/pio>>. A special "thank you" goes out to Don Carlson, KQ6FM, and Gary Pearce, KN4AQ, who aided in making the collection.

## W1AW 2007/2008 Winter Operating Schedule (ARLB025)

### Morning Schedule:

Time	Mode	Days
1400 UTC (9 AM EST)	CWs	Wed, Fri
1400 UTC (9 AM EST)	CWf	Tue, Thu



### Daily Visitor Operating Hours:

1500 UTC to 1700 UTC - (10 AM to 12 PM EST)  
 1800 UTC to 2045 UTC - (1 PM to 3:45 PM EST)  
 (Station closed 1700 to 1800 UTC (12 PM to 1 PM EST))

### Afternoon/Evening Schedule:

2100 UTC (4 PM EST)	CWf	Mon, Wed, Fri
2100 " "	CWs	Tue, Thu
2200 " (5 PM EST)	CWb	Daily
2300 " (6 PM EST)	RTTY	Daily
0000 " (7 PM EST)	CWs	Mon, Wed, Fri
0000 " "	CWf	Tue, Thu
0100 " (8 PM EST)	CWb	Daily
0200 " (9 PM EST)	RTTY	Daily
0245 " (9:45 PM EST)	VOICE	Daily
0300 " (10 PM EST)	CWf	Mon, Wed, Fri
0300 " "	CWs	Tue, Thu
0400 " (11 PM EST)	CWb	Daily

### Frequencies (MHz)

CW: 1.8175 3.5815 7.0475 14.0475 18.0975 21.0675  
 28.0675 147.555  
 RTTY: 3.5975 7.095 14.095 18.1025 21.095 28.095  
 147.555  
 VOICE: 1.855 3.990 7.290 14.290 18.160 21.390 28.590  
 147.555

### Notes:

CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 and 15 WPM  
 CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 and 10 WPM

CWb = Morse Code Bulletins = 18 WPM

CW frequencies include code practices, Qualifying Runs and CW bulletins.

RTTY = Teleprinter Bulletins = BAUDOT (45.45 baud) and AMTOR-FEC (100 Baud). ASCII (110 Baud) is sent only as time allows.

Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and at the beginning of alternate speeds. On Tuesdays and Fridays at 2330 UTC (6:30 PM EST), Keplerian Elements for active amateur satellites are sent on the regular teleprinter frequencies. A DX bulletin replaces or is added to the regular bulletins between 0100 UTC (8 PM EST) Thursdays and 0100 UTC (8 PM EST) Fridays. In a communications emergency, monitor W1AW for special bulletins as follows: Voice on the hour, Teleprinter at 15 minutes past the hour, and CW on the half hour.

All licensed amateurs may operate the station from 1500 UTC to 1700 UTC (10 AM to 12 PM EST), and then from 1800 UTC to 2045 UTC (1 PM to 3:45 PM EST) Monday through Friday. Be sure to bring your current FCC amateur radio license or a photocopy. The W1AW Operating Schedule may also be found on page 96 in the November 2007 issue of QST or on the web at, <http://www.arrl.org/w1aw.html>.

**ARRL FACES FCC IN FEDERAL COURT  
OVER BPL ISSUES**

On Tuesday, October 23, the ARRL faced the Federal Communications Commission in the US Court of Appeals over the continuing debate concerning harmful interference to licensed radio services from unlicensed Broadband over Powerline (BPL) systems. BPL is the delivery of broadband Internet communications using unshielded electrical wiring to conduct high-speed digital signals to homes and businesses. BPL systems are designed to conduct RF energy through unshielded, medium voltage power lines, using some or all of the HF spectrum between 1.7-80 MHz. At those frequencies on unshielded overhead power lines, the electrical wiring not only conducts the signals, it radiates them very efficiently for very substantial distances from the power lines. In October 2006, the League petitioned the United States Court of Appeals for the DC Circuit to review the FCC's October 2004 Report and Order (R&O) in ET Docket 04-37 and 2006 Memorandum Opinion and Order which generally denied all of the 17 petitions for reconsideration. In its brief initially filed May 17, the ARRL contends, among other things, that the FCC's adoption of rules to govern unlicensed BPL systems fundamentally alter the longstanding rights of radio licensees, including Amateur Radio operators. Specifically, the FCC order, while adopting rules that it claimed would minimize instances of harmful interference to licensed services, eliminated a fundamental requirement for unlicensed devices, and held for the first time that BPL systems need not shut down in the case of unresolved instances of harmful interference to "mobile" stations.

The ARRL argues that the FCC's BPL rules violate Section 301 of the Communications Act, which requires that operators of devices that emit radio frequency energy which have a substantial interference potential cannot operate without an FCC license. "For years, the FCC has consistently read Section 301 to apply to unintentional radiators, such as BPL devices, and has expressly embodied that interpretation in its rules," the League's brief recounts. The brief notes that extensive studies done by the National Telecommunications and Information Administration conclude persuasively that interference from BPL to mobile stations can be expected at distances up to almost a football field, and to fixed stations at distances up to five football fields. The Commission then compounded its error by asserting that BPL devices do not fall within Section 301 at all, the League said. "This hail-Mary attempt at justification is another unexplained departure from prior policy that independently requires invalidation of the orders," the ARRL remarked in its brief. The ARRL contends that the FCC orders under review "jeopardize the license rights of ARRL's members and other license holders by authorizing providers of a new device—Access Broadband over Power Lines, or 'BPL'—to send radio signals across the electric grid in the frequencies the license holders occupy, but without having to obtain an FCC license." Each side had 20 minutes to present their case, with the League going first. Attorney Jonathan Frankel, of the WilmerHale Law Firm, argued the case for ARRL before the three judge panel; Attorney C. Grey Pash, of the FCC General Counsel's office, argued for the FCC. According to ARRL President Joel Harrison, W5ZN,

who attended the Court session, Frankel's argument centered on the removal of interference protection for licensed mobile stations, and the Commission's rules for measuring interference. "Frankel received multiple, direct questions from each of the judges concerning the topics in the briefs, and responded to each very well," Harrison said. "Judges Tatel, Rogers and Kavanaugh interrupted both sides repeatedly with intelligent, challenging questions," ARRL Chief Executive Officer David Sumner, K1ZZ, said. "For example," Sumner continued, "while quizzing Frankel, the judges sounded skeptical that interference to mobile stations couldn't simply be regarded as 'not harmful' because it was temporary; but then, when quizzing the FCC's attorney, Judge Tatel said in response to the statement that 'mobile stations could simply move,' that in the case of BPL in Manassas, Virginia for example, you can only get away from the interference by leaving Manassas.' It wasn't, he went on to say, like a garage door opener." For the first time in decades, the FCC decided against requiring that operations found to cause "harmful interference" be shut down immediately—a stance that ignores the "right of the license holder to be free from interference," Frankel said in court. The FCC has also withheld portions of studies that would "potentially" show BPL does cause harmful interference to other devices—and ignored reports of tests the ARRL argues offer "substantial" evidence of interference problems, he continued. "We're talking about devices that radiate for football fields in length and all along power lines," Frankel said of the BPL gadgets. "When you drive down the street, [an Amateur Radio operator's] service is interrupted constantly."

"All three judges were clearly very familiar with the written record. They spent a lot of time on the issue of what information the FCC had withheld from public view (redacted)," Sumner said. "In the course of the argument, the FCC's attorney had to acknowledge that the Commission's explanations in the BPL proceeding were deficient in a number of respects, although it wasn't clear that administrative agencies are held to a very high standard in that regard." Harrison said that Pash, the FCC's attorney, began his defense of the FCC orders and was almost "immediately interrogated" by the judges on the Commission's premise that "a mobile station in a licensed service should not be afforded complete protection from harmful interference just because it can just move away from the interference. Pash also came under what Harrison called "considerable direct questioning" concerning the redacted material from the FCC's response to the ARRL's Freedom of Information request. ARRL had asked the FCC to produce all of what FCC described as "extensive" studies allegedly justifying its BPL order, on which the FCC relied in adopting the BPL rules. The FCC had deleted what appeared to be any material in that one single study that indicated that interference from BPL systems was likely. One page that was completely redacted was a Powerpoint slide titled "New Information Arguing for Caution on HF BPL." The FCC claimed that was not factual information, but just staff advice. Pash "attempted to present a position that the material pertained to 'staff opinion' that was determined to not be a basis for the FCC's decision," Harrison said. According to Pash, the redacted sections referenced earlier sections of the report, and were not "a bunch of new information," Harrison added. Pash







of Milton, Florida (498 votes). Incumbent Vice Director Sandy Donahue, W4RU, of Dothan, Alabama, with 2555 votes, defeated challenger Jeff Beals, WA4AW, of Loxahatchee, Florida, who received 2117 votes.

As in the Pacific Division, leadership in the West Gulf Division remains unchanged. West Gulf Division Director Coy Day, N5OK, of Union City, Oklahoma, received 2649 votes to defeat Ed McGinley, W5ETM, of Fort Worth, Texas, who received 751 votes. Incumbent Vice Director for the West Gulf Division, Dr David Woolweaver, K5RAV, of Harlingen, Texas, received 2592 votes to defeat Dr John Teer, AK5Z, also of Harlingen, who received 780 votes.

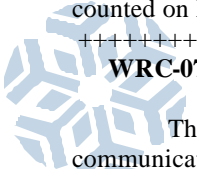
President Harrison said, "I am so pleased to see such a large turn-out of voters in these elections, and the interest and desire of the candidates to serve. It is through this electoral process that the members truly have a voice in the growth and advancement of the ARRL and the Amateur Service. I look forward to welcoming our new and returning Board members in January."

ARRL Chief Executive Officer David Sumner, K1ZZ, said, "It is always a pleasure to see literally tens of thousands of ARRL members participating in the electoral process. It's from the participation of these members that our elected Directors derive the authority to act for the benefit of Amateur Radio."

ARRL Delta Division Director and member of the ARRL Ethics and Elections Committee Henry Leggette, WD4Q, said he could sum up today's experience in one word: "Interesting. This was a new experience that I thoroughly enjoyed. Seeing how this process works from the inside makes me appreciate all the more the election process."

The newly elected and returning Directors and Vice Directors will begin their new three year term at noon on Tuesday, January 1, 2008.

The next scheduled Division elections are next fall in the Atlantic, Dakota, Delta, Great Lakes and Midwest ARRL Divisions. According to League Bylaws, ballots will be counted on November 21, 2008.



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**WRC-07 WRAPS UP IN GENEVA; WILL LIKELY MEET AGAIN IN 2011**

The final working session of the 2007 World Radiocommunication Conference (WRC-07) in Geneva drew to a close Thursday afternoon, November 15. The signing ceremony for the Final Acts will take place Friday. According to International Amateur Radio Union (IARU) Secretary David Sumner, K1ZZ, the principal achievements and disappointments, as they relate to the Amateur Services, of the conference are:

**Achievements**

- \* Maintenance all existing amateur allocations, including the 7.200-7.300 MHz allocation in ITU Region 2 (the Americas) that had been somewhat at risk in connection with consideration of additional allocations for HF broadcasting (see below).
- \* A new worldwide secondary allocation at 135.7-137.8 kHz with a maximum radiated power limit of 1 W e.i.r.p. (given the low efficiency of practical antennas for this frequency range, this limit is not as severe as it may sound).
- \* Inclusion of an item, "to consider an allocation of about 15 kHz in parts of the band 415-526.5 kHz to the Amateur Ser-

vice on a secondary basis, taking into account the need to protect existing services" on the provisional agenda for WRC-11 (set for 2011).

\* Avoidance of future agenda items that pose serious threats to key amateur allocations.

\* Some improvement in the so-called "country footnotes" that provide for different allocations by country in all or part of the 1.8, 3.5, 50 and 430 MHz amateur bands.

**Disappointments**

\* No new allocation for the Amateur Service in the vicinity of 5 MHz, and no agenda item to consider such an allocation at a future conference.

\* No future agenda item to consider an amateur allocation at 50 MHz in ITU Region 1 (Europe, the former Soviet Union, Mongolia, Africa and parts of the Middle East).

The amateur issues were of course a minor part of the WRC-07 agenda, but the Amateur Service was involved in one of the most contentious agenda items dealing with allocations between 4 and 10 MHz. A series of European Common Proposals had proposed changes to allow for an increase of 350 kHz in HF broadcasting allocations, with a footnote for administrations to allow the Amateur Service to use 5.260-5.410 MHz on a secondary basis and with a radiated power limit of 250 W; however, HF broadcasting had no support from the other regional organizations and no compromise acceptable to all parties could be found. Ultimately the European administrations had to accept "no change" for broadcasting, effectively scuttling our chances for a 5 MHz allocation.

The IARU had hoped that if an allocation could not be achieved at WRC-07, an appropriate agenda item could be included for WRC-11. The 2007 conference, however, had little interest in taking up HF issues at the next conference, tentatively set for 2011, having little to show for a great deal of effort expended on HF in preparing for WRC-07. The only HF issues on the provisional WRC-11 agenda have to do with oceanographic radar applications and the implementation of new digital technologies for the maritime mobile service.

The International Telecommunication Union's planning for the next World Radiocommunication Conference begins on Monday in Geneva, with the convening of a two-day Conference Preparatory Meeting for WRC-11. Paul Rinaldo, W4RI, will attend on behalf of the IARU.

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**Iraq Back on the Air:**

Diya Sayah, YI1DZ, President of the Iraqi Amateur Radio Society (IARS), announced November 13 that effective November 20, all Amateur Radio activity will be "back to normal" in Iraq. Sayah said, "All Amateur Radio operators in Iraq who carry a valid Iraqi license will be able to use their radios according to regulations of IARU Region 1 and the IARS." Amateur Radio activity in Iraq was suspended in March of this year, with the suspension affecting both Iraqi citizens as well as any foreigners -- including military personnel and contractors -- who have been on the air from Iraq. The request to halt all ham radio activity and the issuance of licenses in Iraq originated with a letter from the Iraqi Ministry of Defense to Iraqi Prime Minister Nouri al-Maliki as part of a new security plan, Sayah said.

### Questions for General License

1. (G1A01) On which of the following bands is a General Class license holder granted all amateur frequency privileges?  
A. 20, 17, and 12 meters  
B. 160, 80, 40, and 10 meters  
C. 160, 30, 17, 12, and 10 meters  
D. 160, 30, 17, 15, 12, and 10 meters
2. (G1D04) Which of the following are requirements for administering a Technician Class operator examination?  
A. At Least three VEC-accredited General Class or higher VEs must be present  
B. At least two VEC-accredited General Class or higher VEs must be present  
C. At least two General Class or higher VEs must be present, but only one need be VEC accredited  
D. At least three VEs of Technician Class or higher must be present
3. (G2B13) What is a practical way to avoid harmful interference when calling CQ using Morse code or CW?  
A. Send the letter "V" 12 times and then listen for a response  
B. Keep your CQ to less than 2 minutes in length to avoid interference with contacts already in progress  
C. Send "QRL? de" followed by your callsign and listen for a response  
D. Call CQ at low power first; if there is no indication of interference then increase power as necessary
4. (G3A03) How long does it take the increased ultraviolet and X-ray radiation from solar flares to affect radio-wave propagation on the Earth?  
A. 28 days  
B. Several hours depending on the position of the Earth in its orbit  
C. Approximately 8 minutes  
D. 20 to 40 hours after the radiation reaches the Earth
5. (G4A05) How is DSP filtering accomplished?  
A. By using direct signal phasing  
B. By converting the signal from analog to digital and using digital processing  
C. By up-converting the signal to VHF  
D. By converting the signal from digital to analog and taking the difference of mixing products
6. (G4E01) Which of the following emission types are permissible while operating HF mobile?  
A. CW  
B. SSB  
C. FM  
D. All of these choices are correct



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PO BOX 111  
PROVIDENCE, UT 84332**



**December, 2007**

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