

### THE OHM TOWN NEWS

Voice of the Bridgerland Amateur Radio Club

# **March 2007**

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

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#### HAM PROFILE

by Boyd Humpherys W7MOY

We have a lot of diverse talent amongst the members of the club. What ever you may want to do, learn, or experience, there is bound to be someone who can take you aside and teach you the finer arts of about anything, or explain why you should pass it by. We probably ought to change the name of our noble organization to Google BARC, BARC Google, or something similar. If any of you would like to learn the fine art of SCUBA diving, one of our members by the handle of



Heidi Bleazard, AC7ZC is the one to give you the straight scoop. If you can't wait for summer to don the wet suit, goggles and tank, she might be persuaded to take you out to Hyrum Dam next week and

throw you in. The local newspaper has had a few articles recently about several suicidal individuals who have recently braved the icy waters of the valley's Southern inland sea, and cavort about, doing things they could have done in the summer and felt a great deal better about it, plus not drawing the attention of the guys in the white suits.

Heidi sports an ICOM HT, and an FT 100 rig to complete the complement. Mag mounts for 2 have done the job when they fire up the family Benz. I think I did detect a slight air of nostalgia when we broached the subject of an outside antenna and tower. I do believe that may be in the planning stage. She has held an extra ticket for 2-3 years and has assisted as a Volunteer examiner for our group during that time.

She first appeared on the hazy scene in Los Angeles some years back, went to school hither and yon, taking some correspondence courses from Penn State, and to quote her, she grew up on the beach, here in the (Continued on page 5)

### PRESIDENTS MESSAGE

### Time flies when you're busy having fun

Almost March already, where has the time gone? They say that time flies when you are having fun. I think it's doubly so when you are busy, and I've been doing both. I've been having a great time getting involved in a minor roll with the 4H/BARC ham class that has been going on the past few weeks. It's great to see new people show interest in the hobby. I have also enjoyed my first foray into HF communications using my own license privileges in the 10 meter SSB/CW "novice" sub-band. Studying for the General Class exam took a fair chunk of time, but it was fun. The ARRL's General Class License Exam book worked very well for me. I highly recommend it to other Technicians. I've got an element three CSCE ready to turn in at the next exam session.

I attended a lot of meetings this last month and many mentions of areas where people could get in-

volved. The local Red Cross could use an Amateur Radio operator to serve on their board and two others to be in a communications committee. Our BARC VE team could use at least a few more VEs at each exam session



plus a few BARC club members to help out and to mentor new hams. CERT groups and various Church organizations are looking for people willing to train themselves as skilled Amateur Radio operators. If you are into airplanes, the Citizens Air Patrol (C.A.P.) would like more coordination between it and the Amateur Radio community. Last, but definitely not least in this non-exhaustive list, the local ARES group could always be bigger to have more "surge capacity" in the event of an emergency.

 $(Continued\ on\ page\ 3)$ 



# UPCOMING ACTIVITIES 2007

March 10 - Club meeting - APRS and Bunny Hunt assisted with APRS if weather permits

April 14 - Club meeting

May 12 - Club meeting - Build it party

Mt Man Rendezvous - May 23, 24, 25?

Cache Classic - June 2nd?

Cache Cruise In - June 7th

C. V. Biathlon - June 9th

Wasatch Back Relay June 22

Field Day - June 23 & 24

Utah MS 150 - June 23 & 24

LOTOJA - September 8th

Top of Utah Marathon - September 15th

JOTA - October 20 & 21

BEAR 100 - September 22nd

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.

### SARC E-mail Addresses

In conjunction with the upgrades to the Web site www.barconline.org it is now possible to use barconline.org e-mail addresses. Some addresses that have been set up for everyone's benefit are:

- president@barconline.org
- vice-president@barconline.org
- secretary@barconline.org
- treasurer@barconline.org
- newsletter@barconline.org
- webmaster@barconline.org

If you are interested in getting an e-mail address please contact the Club President to arrange for your own address.

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

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### March Club Meeting

The march club meeting topic will be on the Automatic Position Reporting System (APRS) and weather permitting will include a coordinated team bunny hunt using the VHF/UHF FM repeater system and the APRS packet network. I really hope the weather cooperates. If the 10 day forecast is even partially correct, we should be up to the high 40's by the middle of next week with rain instead of snow. We will start the meeting at the Cache County Sheriff's complex with a brief overview of APRS and a briefing of the field exercise.

I am hoping to bring at least part of the activity nearby the testing session. My vision is to have a laptop or two in a room near the testing session running some APRS mapping programs like UIView, and XASTIR with direction finding report overlays transmitted via APRS or via FM voice and then entered into the map. It may also be nice, but not necessary, to have the net control up there.

After the activity, I would like to meet in the parking lot south of Old Main for an after action review and some hot chocolate or ice cream, as the weather permits.

If you've tried doing APRS before but hit a roadblock or two, please bring your equipment or some notes on your troubles to the club meeting so that we can help you out. We may even be able to get you going before we head out to get our bearing and signal strength report if you show up a little early.

#### BARC Below 30 Mhz

A few club members, myself included, would love to drum up some more HF activity within the club. I don't think the idea is novel, but the timing seems great. The Technician license now includes the "old Novice" license privileges I've heard many lament the loss of plus full privileges above 50Mhz. All this without the stumbling block of the code that may have been holding some people back.

Ernie, KB7ZNH, has been sharing a brief report of HF conditions and upcoming contests on most Tuesday evening nets for over a month now. I have enjoyed this and hope that it also inspires others to get the HF bug. He has also shared some training information and prompted the creation of an HF section on the club web site. I hope that area grows with helpful articles and news shared by you.

Last Thursday I was getting excited about the count down to the FCC "no code" change going into effect. I sent a last-minute announcement out to the

club email list encouraging others to join me with a QSO party on 28.480 Mhz single side band to celebrate the event. A number of people got on and we had fun testing settings out on our radios and seeing how our antenna systems worked.

Don, AC7ZB, suggested on the club mailing list that we have a local 10 meter calling frequency for people to try, especially on the weekends. I think it's a great idea and haven't found a reason for not using 28.480. He pointed out that 10m gets some sporadic-E openings in the summer time, so even Techs might get some phone or digital DX. The 10 meter band is currently "dead" as far as day to day DX goes, but that and the fact that most HF rigs include the 10 meter band makes it a great HF frequency to practice on. You can coordinate via the club's FM repeater systems while you attempt to set up your HF station. Give a call out on the repeaters asking if anyone is available to work on HF with you if no one's answering on 28.480 Mhz.

I hope to hear you on the air.

### A Few Ham Radio Special Events in March

Mar 10-Mar 11, 1500Z-2200Z, Newport News, VA. Hampton Roads/Peninsula Combined Radio Clubs, K4M. Battle of Hampton Roads (145th anniversary) and USS *Monitor* Center Opening. SSB 28.362 21.362 CW 14.062 PSK31 14.070. Certificate. Cynthia Verser, The Mariner's Museum, 100 Museum Dr, Newport News, VA 23606. *Special event sponsored by many area clubs. Operators will also be on more frequencies than listed.* cverser@marinersmuseum.org

Mar 11, 0000Z-1300Z, Tustin, CA. Yamon DX Federation, W6YDX. Celebrating the essence of Daylight Savings Time (DST). 14.250 7.250 7.040 3.850. QSL. Dan Dankert, N6PEQ, 13672 Fairmont Way, Tustin, CA 92780-1811. w6ydx@dxer.com

Mar 17, 1500Z-2200Z, Macon, GA. Macon Amateur Radio Club, W4BKM. 25th Annual Cherry Blossom Festival. 145.370 14.240 10.110 7.055. Certificate. Macon ARC, PO Box 4862, Macon, GA 31208. www.qsl.net/w4bkm

Mar 31-Apr 1, 1500Z-0100Z, Laramie, WY. University Amateur Radio Club, N7UW. Operating from the highest university in the US -- elevation 7250 feet. 28.450 21.350 14.250 7.250 3.850. Certificate. University Amateur Radio Club, Dept 3625, 1000 E University Ave, Laramie, WY 82071. uwacadweb.uwyo.edu/UARC

For more information about Special Events see: http://www.arrl.org/contests/spev.html

### Thank you for your support of the Bridgerland Amateur Radio Club

Your **tax deductible** membership fee and contributions to the Bridgerland Amateur Radio Club (BARC) help support a strong Amateur Radio group and a *valuable FM VHF/UHF repeater network reaching from Bear Lake to the Salt Lake Valley*. These funds are carefully spent according to the approval by vote of the members of the BARC for:

- Repeater site fees.
- Maintaining existing and adding new repeater systems.
- Refreshments at the monthly club meetings. (We hope to see you there.)
- Field Day site rental and dinner. (Great fun. Please join us!)
- Christmas party door prizes.
- Club newsletter.

Bridgerland Amateur Application for the Year Dues are in effect January 1, 2007	r 2007 Membershi		
Name	_ Call Sign	_ Date Pai d	
P.O. BoxSt	treet Address		
CityState _		Zip Code	
Home Phone ( )	Work Phone (	)	
Phone # for Auto-Dial Slot	E-mail		
☐ Individual Membership - \$25			\$
Additional Family members in same household - \$3 ea			\$
(One Newsletter per household) Names and call signs of additional family members  Total			\$
Name C	all Sign		
Name C	all Sign		
Are you an ARRL Memb	er?		
Mail your completed form and a c B.A.R.C. is a non-profit organizati		ox 111, Providence, UT	84332-0111

(Ham Profile Continued from page 1)

US and abroad where she traveled a bit. I had heard of varieties of individuals who live on the beaches and call themselves Beach \_\_\_\_\_. Although I didn't ask that question, she must have read my mind and remarked, No I'm not one of those.

We'll have to relate an interesting story. It appears a grandmother's TV antenna had some form of a seizure and unless remedial action were to be administered shortly, she would likely miss such things as the Super Bowl, midget professional wrestling, the world tiddley wink playoffs, and other similar interesting things. A contest was conjured up. Who would be the first to come up with a fix for Grandma's broken sky hook? Well you guessed it, Heidi came up with a Yagi made out of baling wire, and other odds and ends. Heidi claimed it performed much better than the original. So now take note everyone, no more half baked technical fixes. An uncle reportedly used to make radios out of bed springs. Mr. Goldberg's traits must run in the family.

They have a combined family of anywhere from 6-9 around the breakfast table, depending on schedules but no one goes hungry and reports are that love abounds in their castle and that's what it's all about.

Hubby Keith was born in Salt Lake City. He has now managed the USU hockey team for the last several years, and those of you who have witnessed their games will have to admire their finesse. The family, especially mom & pop are into Scuba Diving, in fact they met while submerged in this H2O environment. I'll bet all of you want to know just how they communicated 10' under water. Well it seems these participants have developed a form of communications to be used under water, basically morse code, you bang on a pipe, or pound on someone's noggin with certain key coded signals which mean certain things. Hello, glub, glub, have we met before, glub, glub, glub? . . -..., and so on. Affection blossomed rather cryptically and they decided to swim off into the sunset, submerged. Thus we have the benefit of some great people in our club. Incidentally Keith is mastering morse code, not because it's not a requirement any more, but he wants more meaningful conversations with Heidi.

73 Welcome to BARC land, Heidi and Keith.

The ARRL Letter Vol. 26, No. 05 February 2, 2007

==>LEAGUE ROLLS OUT EMERGENCY RADIO
PUBLIC RELATIONS CAMPAIGN, WEB SITE
"Ham Radio . . . Getting the message through for your family and community" is the theme of the League's 2007 public

relations camp aign. The "Emergency Radio" Web site

<a href="http://www.emergency-radio.org/">http://www.emergency-radio.org/</a> debuted this week. ARRL Media and Public Relations Manager Allen Pitts, W1AGP, says the 2007 PR initiative picks up the momentum ARRL public information officers started during the justended "Hello" campaign. "As we begin launching the new emergency communications campaign, the friendships and good will developed in Hello will aid in future promotions of Amateur Radio," Pitts said. "For 100 years, radio in its many forms has saved lives and aided in crises. We have a great legacy and a bright future." The new Web site is a partner to the "Ham Radio . . . Getting the message through for your family and community" brochure now available and, in fact, already starting to make the rounds. "If an emergency or disaster should happen, the new 'Ham Radio . . . Getting the message through' site has the capability to quickly upload current information, providing PIOs with words and pictures to circulate to the media while the event is still news," Pitts explained. As both the brochure and the "Ham Radio . . . Ge tting the message through" Web site note: "Amateur Radio . . . has consistently been the most reliable means of communication in emergencies when other systems failed or were overloaded." The campaign stresses that ham radio works and works well and it doesn't require any external infrastructure, such as telephone lines or even the Internet, to get the message through. The Web site provides page space for emergency communication and disaster relief organizations to tell about their work. "So far, SKYWARN, MARS, SATERN and RACES have taken advantage of our offer, showing the versatility of ham radio in disasters and emergencies," Pitts says, "and more are expected." The campaign also emphasizes that ham radio is fun and a good way to keep in touch with friends or family. "You can have this capability for yourself and your family," the campaign points out, inviting members of the general public to get an Amateur Radio license and become active in emergency communication through the Amateur Radio Emergency Service (ARES) or other organization. A "How to Get Started" tab on the Web

site offers step-by-step instructions.

 ton Athletic Association (BAA). This year marks the 111th running of the Boston Marathon, which is expected to attract some 20,000 runners. Visit the MARC Amateur Radio Volunteer Signup page to register <a href="http://mtfort.vh.primushost.com/marc/access.html">http://mtfort.vh.primushost.com/marc/access.html</a>.—Richard H. Wheeler, N1KXR

Portugal now BPL-free, radio amateur reports: Citing news media accounts in his country, Carlos Mourato, CT4RK, in Portugal says the telecommunications corporation Oni withdrawn its investment in broadband over power line (BPL), known in Europe as PLC (power line carrier or power line communications). "With this fantastic news we are proud to proclaim Portugal a free BPL/PLC country!" Mourato exclaimed. Oni reportedly has said its decision was not a matter of technology but strictly a matter of good business. The company says BPL/PLC performed well but failed to attract the customer base the company felt it needed in the face of competition from other broadband services. Utility EDP, which closely cooperated with Oni in the BPL/PLC effort, now has severed its fiscal relationship with the company.

#### The ARRL Letter Vol. 26, No. 06 February 9, 2007 ==>AMATEUR RADIO VOLUNTEERS SUPPORT TORNADO RELIEF OPERATION

When deadly tornados struck Central Florida early Friday, February 2, Amateur Radio volunteers turned out to assist emergency managers and relief organizations to supplement communication and offer other support. The National Weather Service (NWS) rated two of the three twisters as EF-3 events -- 160-165 MPH winds-on the new "Enhanced Fujita Scale." Since they hit in the early-morning hours, the tornadoes took many residents by surprise. They left behind a landscape of downed trees and extensive structural damage in at least four Florida counties and claimed 20 lives- most within the tornado's first two minutes, authorities say. Amateur Radio Emergency Service (ARES) and SKYWARN volunteers were active in Lake, Seminole, Sumter and Volusia counties—all designated as federal disaster areas. "It's likely to take a long time to recover from this," observed Sparky Leger, N1YLQ, a Red Cross and SKYWARN volunteer in Volusia County, where an EF-1 tornado -- 100-105 MPH hit. "Seeing some of the damage during a drive-through, honestly, we're not sure how people managed to survive." He shared his experiences last weekend with members of the VoIP Hurricane Prep Net <a href="http://www.voipwx.net/">http://www.voipwx.net/>. An estimated 1500 dwellings were badly damaged or destroyed in the four-county region. Devastation was widespread. Sumter County ARES Emergency Coordinator JT Fleming, W3GQJ, who says the storm affected only a portion of his county. "Sumter County was very lucky in that the majority of the homes affected were all built in the last two years to the current Florida 110 miles-per-hour standard," he noted. "Lake County that borders on the east side had much greater destruction because the tornado hit a mobile home community." All 20 deaths occurred in Lake County. Some 20 Sumter County ARES volunteers responded over the course of the weekend to support communication between the county emergency operations center (EOC) and shelters. Many resi-

dents opted to remain at their damaged properties, although some are staying with family or friends or in public accommodations. By all accounts, Amateur Radio communication support was largely unneeded because the cellular telephone network remained operational, although it did get overloaded at times. ARES teams stood by to fill the gaps if needed. Irv Butler, KB1E, was among those volunteering in hard-hit Lake County. "We are providing comms to The Salvation Army meals relief teams," he told ARRL Northern Florida Section Emergency Coordinator Joe Bushel, W2DWR, over the weekend. He said the county emergency management staff had expressed appreciation for the Amateur Radio assistance. ARES/RACES volunteers from Seminole and Lake counties installed a backup repeater in Paisley to restore radio communication for Lake County Fire and Rescue. Volusia County EC Fred Magliacane, KF4VRS, reports the adjacent KE8MR 145.23 MHz repeater was abruptly taken off the air after the storm toppled the 1500-foot commercial radio tower that had supported the repeater's antenna. The repeater typically serves the East Central District ARES during disasters. "Over the past few years we have learned that we cannot always rely on repeaters," Magliacane says. "We have trained our members to use simplex if and when the repeaters fail. One net a month we have a simplex net, and sometimes during the regular nets, we turn off the repeaters to see if our members remember to go to simplex."

## The ARRL Letter Vol. 26, No. 07 February 16, 2007 ==>BPL STUDY BILL GAINS COSPONSORS

A bill in the US House of Representatives calling on the FCC to study the interference potential of broadband over power line (BPL) technology and report its findings back to Congress has gained two cosponsors, its sponsor, US Rep Mike Ross, WD5DVR (D-AR), reports. They are US Rep Steve Israel (D-NY) and US Rep Ron Paul (R-TX). One of two radio amateurs in the House, Ross submitted the "Emergency Amateur Radio Interference Protection Act of 2007" (HR 462) <a href="http://thomas.loc.gov/cgi-bin/query/z?c110:H.R.462:>">http://thomas.loc.gov/cgi-bin/quer on January 12. Last year, the US House passed a telecommunications bill, HR 5252, containing language that Ross proposed requiring the FCC to study the interference potential of BPL systems. The legislation never made it out of Congress, however. In a letter to his House colleagues inviting additional cosponsors, Ross emphasized that his primary goal is to minimize BPL's interference potential. "In the 110th Congress, I have reintroduced this legislation and narrowed the scope of the study significantly so as to not hinder any broadband Internet deployment that does not cause proven interference," Ross wrote. "The study called for by this bill will not slow, nor frustrate, the deployment of competitive broadband delivery mechanisms. It will not inhibit the deployment of Broadband over Power Line (BPL) systems anywhere in the US. The purpose of the study is to ascertain what additional rules should be adopted by the FCC governing BPL systems in order to reduce the interference potential to a reasonably low level." Ross said that as a radio amateur, he believes it's

imperative that BPL's interference potential be thoroughly examined and comprehensively evaluated. "Power lines are not designed to prevent radiation of RF energy; therefore BPL represents a significant potential interference source for all public safety radio services using this frequency range, including Amateur Radio operators," he told his colleagues. HR 462 would require the Commission to address several technical facets, including variations in BPL emission field strength with distance from power lines and a technical justification for using a particular distance extrapolation factor when making measurements. The FCC also would have to investigate the degree of notching necessary "to protect the reliability of mobile radio communications," and provide a technical justification for permitted BPL radiated emission levels relative to ambient noise levels. Finally, the study would have to outline options for new or improved BPL rules aimed at preventing harmful interference to public safety and other radio communication systems. HR 462 has been referred to the House Committee on Energy and Commerce. If Ross's measure is adopted by both houses of Congress and signed by the president, the FCC would have to undertake a study of BPL's interference potential within 90 days of enactment and report to the House Committee on Energy and Commerce and the Senate Committee on Commerce, Science, and Transportation.

==>FRESH FOOD DOESN'T LAST LONG ON ISS,

ASTRONAUT TELLS YOUNGSTERS VIA HAM RADIO US astronaut Suni Williams, KD5PLB, this week continued her string of successful Amateur Radio on the International Space Station (ARISS) school contacts when she spoke with youngsters at Hanazono Elementary School in Japan. ARISS arranged the February 12 direct VHF QSO between NA1SS in space and 8N3F at the school. Williams said that supplies of fresh food tend to go fast aboard the space station. "We do get fresh food, raw food, when the Progress [supply rocket] comes up," Williams explained, "and we try to eat it within the first month because, yeah, it's just going to get old up here." She also told the youngsters that the ISS crew members rarely argue with one another. "Well, sometimes we have arguments, but usually we just discuss and, actually, end up laughing quite a bit, over dinner," she said. Now onboard the ISS with Williams are Expedition 14 Commander Mike Lopez-Alegria, KE5GTK, and Russian cosmonaut Mikhail Tyurin, RZ3FT. Responding to another youngster's question, Williams said that various odors abound aboard the space station. "There are all sorts of smells up here, ranging from food to the different metals to some of the materials that we're working with," she said, "so there's all sorts of good and bad smells up here." As for space trash, Williams explained that it all goes into the Progress supply rocket that remains attached to the ISS after its cargo has been unloaded. Once the rocket it full, it's sent into Earth's atmosphere where it disintegrates. All told, Williams managed to answer 21 of the students' questions during the approximately 10-minute pass before the space station went over the horizon and out of range. On hand for the occasion were some 200 onlookers, including teachers, parents and other pupils, plus members of the news media -- one newspaper and one TV station. Serving as the 8N3F control operator was Kaz Tanaka, JG3QZN. The contact came off without a hitch despite a temporary power outage aboard the space station a day earlier. A space walk is scheduled for February 22. ARISS <a href="http://www.rac.ca/ariss">http://www.rac.ca/ariss</a> is an international educational outreach with US participation by ARRL, AMSAT and NASA.

Brazilian power company launches BPL pilot project: According to media reports, Brazilian power distributor Eletropaulo plans to begin testing broadband over power line (BPL) Internet service in São Paulo, Brazil. Eletropaulo reportedly has been conducting BPL lab tests for the past three years. The reports indicate that the utility now considers BPL to have reached the point where it's economically viable to offer it to residential users. Eletropaulo is hoping to attain throughput speeds of 200 Mbps. Eletropaulo provides electrical power to some 5 million customers in two dozen Brazilian cities. Details of BPL equipment to be deployed and any HF frequencies to be used in São Paulo are not yet known. Late last year, a public BPL pilot project went on line in the Regional Administrative Center of Restinga on the outskirt of Porto Alegre, Brazil. That system uses Mitsubishi BPL hardware. Although BPL testing has been conducted in Brazil, there have been no commercial deployments.

## CONTRACTOR CONTRACTOR

SKYWARN was activated in the northeast for a major Nor'easter blizzard. The storm dumped 1-3 feet of snow across northeast New York, New Hampshire, Vermont, northwest Massachusetts and Maine with whiteout, blizzard conditions, and strong winds. SKYWARN hams and the National Weather Service Forecast Offices in Taunton, Massachusetts (WX1BOX) and Gray, Maine (WX1GYX) received the SKY-WARN reports of snowfall, wind damage and flooding. Several repeaters and linked repeater systems across New England were used and the New England Reflector System was active. The system was used for getting SKYWARN reports from across New England and as a pathway for the NWS in Taunton to communicate with their counterpart in Gray, Maine, directly and through NWS liaison Ken Grimmard, N1DOT. "We continue to build a strong SKYWARN program for the NWS Gray Maine office. These reports that we get from spotters are extremely helpful and we had two ham operators Jerry Hume, KB1NHD, and David Lowe, KB1NJP, at the office for much of the afternoon and evening. We currently have EchoLink capability and 2 Meter/440 capability at WX1GYX," said Tom Berman, N1KTA, a forecaster at the NWS Gray Maine office. With no HF capability at NWS Gray yet, the NWS Taunton office was requested by NWS Gray to go to the Seagulls Net on 3940 kHz to get reports of snowfall and weather conditions from the net as it covers much of Maine and New Hampshire. The reports were then delivered to NWS Gray via EchoLink. "Here is an example of how HF and EchoLink/IRLP communications can complement one another," said Rob Macedo, KD1CY, ARES SKYWARN Coordinator for NWS Taunton, Massachusetts, who also filed this report.

#### **Questions for General License**

- 1. (G1C04) What is the maximum transmitting power an amateur station may use on 21.205 MHz?
- A. The minimum power necessary to carry out the desired communications, with a maximum of 200 watts PEP output
- B. The minimum power necessary to carry out the desired communications, with a maximum of 1500 watts PEP output
- C. 1000 watts PEP output
- D. 2000 watts PEP output
- 2. (G2A07) Which of the following modes of voice communication is most commonly used on the High Frequency Amateur bands?
- A. Frequency modulation (FM)
- B. Amplitude modulation (AM)
- C. Single sideband (SSB)
- D. Phase modulation (PM)
- 3. (G2E09) What do the initials "ITU" stand for?
- A. Interstate Telecommunications Union
- B. International Telephony Union
- C. International Transmission Union
- D. International Telecommunications Union
- 4. (G4A11) What type of transmitter performance does a two-tone test analyze?
- A. Linearity

- B. Carrier and undesired sideband suppression
- C. Percentage of frequency modulation
- D. Percentage of carrier phase shift
- 5. (G4E14) What safety precaution should you observe when using a gasoline-fueled generator to power your home station?
- A. Always ground the frame of the generator
- B. Use only generators that produce a clean sine wave output
- C. Make sure that the engine is well lubricated
- D. All of these choices are correct
- 6. (G8A01) What type of modulation system changes the amplitude of an RF wave for the purpose of conveying information?
- A. Frequency modulation
- B. Phase modulation
- C. Amplitude-rectification modulation
- D. Amplitude modulation
- 7. (G9D08) In what values are RF feed line losses usually expressed?
- A. Bels/1000 ft
- B. dB/1000 ft
- C. Bels/100 ft
- D. dB/100 ft

THE OHM TOWN NEWS PO BOX 111 PROVIDENCE, UT 84332



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