

THE OHM TOWN NEWS

Voice of the Bridgerland Amateur Radio Club

May 2007

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

HAM PROFILE

by Boyd Humpherys W7MOY

"Something old,

something new, (HTS) something borrowed (snitched) something blew"

Now watch this bunch, with this concentration of Hams in the castle, every piece of gear, old or new is bound to get shuttled around. Dale Smith, KE7LZZ and company, will have to schedule time on the rig and



antenna. Overheard were comments that everyone could hook up their HTs or otherwise simultaneously into a common antenna, and that's when things might blow.

It seems the license project was a family affair in the last exam session. Many of our cohorts and their families in the valley have likewise done the same thing. GOOD ON YA! Margaret, the keeper of the keys to the kitchen fridge in the Smith household, came up with a KE7LZX call, then son Matthew wound with KE7LZY call, followed by dad with the (Continued on page 3)

PRESIDENTS MESSAGE

Preparing for a Summer of Service

Spring has sprung and we are well on our way to Summer. We are no longer cooped up in our shacks by the bad weather (not that I haven't enjoyed talking around from the shack.) Our fellow non-hams think the same way and start planning public service events for us. How kind.

I always think of how those events help me meet one of the principles of the amateur radio service by taking part in the "recognition and enhancement of the value of the amateur service to the public as a voluntary noncommercial communication service, partic ularly with respect to providing emergency communic ations." (97.1a).

A great resource to us while we are "advancing skills in both the communications and technical phases of the art" in these public service events is the B.A.R.C. repeater system. Each summer a group of skilled radio experts pool their time and resources to maintain and improve this system and to help others out with their repeaters. They have put to-

gether a list of system upgrades, some to replace failing equipment and others to add features to our system that have been requested. I hope that you will join with me in supporting the fund drive that coming will be soon.



May Club Meeting

The may club meeting will be a build-it party. We will be assembling at the Cache County Sheriff's complex with soldering irons, multimeters and other (*Continued on page 2*)







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UPCOMING ACTIVITIES 2007

Club meeting - May 12 - Build it party Mt Man Rendezvous - May 23, 24, 25

C. V. Biathlon - June 9th

Wasatch Back Relay June 22

Field Day - June 23 & 24 (Club Meeting dinner on the 23rd)

Utah MS 150 - June 23 & 24

Cache Cruise In - July 7th

Cache Classic -?

LOTOJA - September 8th

Top of Utah Marathon - September 15th

BEAR 100 - September 22nd

JOTA - October 20 & 21

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

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

(Presidents Message Continued from page 1)

electronic gadgets in hand to put together various kits. Some will be building a complex CW keyer. Others a small QRP HF transceiver (there are a few extras if you forgot to order). We will also have twin-lead, coax and connectors on hand to build roll-up J-Poles. Erik (KD7YKQ) has put a lot of time and effort in organizing it.

Reflecting on the idea of preparing for a Summer of Service and any potential disasters, I plan on building a new twin-lead J-Pole. My last one was quite handy for putting a good antenna onto my hand held rig. We will also have the club's antenna analyzer charged and ready to test out your mobile antenna. If you have any other projects or fixes that are portable and could use the help of an extra hand or soldering iron, please bring it to club meeting. Let's take this opportunity to prepare.

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





(Ham Profile Continued from page 1)

KE7LZZ combination. From the looks of the enclosed snapshot, a half dozen or so harmonics might likely follow in the parade. Sounds like a bunch of family fun and that's one of the plusses in the game of electrons and yakking.

Dale was born in Seattle Washington, while pater Sid was serving a hitch in the Army. After tiring of scraping barnacles and moss off things, they returned to Logan where Dale and siblings attended ekmentary, the old Logan Jr. High School, and managed to escape from Logan High. Now how many of you can remember the old Jr. High School, which was located in the present parking lot South of the Fire Station?

Castle equipment at present for this bunch is a couple of Yaesu HTs, a discpole antenna for 2 meters with some covert goings on regarding a respectable roof mounted mast. I thought I heard someone whisper something that sounded strangely like "Bribery".(Most everyone knows that elevation is the real secret to GOOD coverage)

Dale got a taste of regimentation with 4 years in the High School ROTC. He spent a couple of years working for Wurlitzer, making keyboards and other noisy things. He then spent 9-10 years working for J P Smith Printing, and his grand dad. This experience served him well in his present position as director of PDP at USU. If you want the complete explanation of the PDP acronym, his version is probably safer than mine.

Margaret Allred was born in Benghazi, Libya, North Africa. I suspect not many may top that one. Her father worked in the oil fields there for a Dutch company and the family ultimately migrated back to the US of A. She studied Animal Science at USU for a short time, and would you guess where she and Dale met? She figured she could train this gent to do a few tricks, but the truth of the matter is she was working at one of the copy centers on campus. Dale was involved in the printing business, and one thing led to another. They decided to join hands in the paper mill called life. She likes singing, camping and home schools the family which is a challenge indeed. She is not overly excited about something on the roof, but with more and more kids with licenses plus herself, what can one say?

Dale is a scouter and tells a tale about taking about a dozen scouts on a little excursion in the Pyramid hills. The clue I received as to the location of said hills was that they are in a general NE direction from Smithfield. Anyone have a fix on that one? They were all perched on a rock outcropping, digesting their bean sandwiches, and out pops a lively Bob Cat, who exhibited his disdain for the scouting spirit, hissed a bit, and hot footed it down the hill. Thus a new merit badge in Bob Cat rocking was born.

73 gang

The ARRL Letter Vol. 26, No. 14 April 6, 2007 ==>IRAQI AMATEUR RADIO SHUTDOWN CONTINUES

Iraq Amateur Radio Society (IARS) President Diya Sayah, YI1DZ, says there's no end in sight to a ham radio blackout in his country. As part of the new security plan for Baghdad, the Iraqi Ministry of Defense requested in March that radio amateurs remain off the air until security improves. Because of a miscommunication, however, word failed to reach the Iraqi Communications and Media Commission, which was still issuing licenses. Sayah chalks up the open-ended ham radio blackout to a misunderstanding of Amateur Radio on the part of Iraq's defense minister. Working through the Ministry of Education and Scientific Research, the IARS has attempted-so far without success-to explain Amateur Radio to the Ministry of Defense. "Because it's between ministries, this will take time also," Sayah told ARRL, adding that he was not optimistic about getting an opportunity to discuss the issue anytime soon with Iraqi Prime Minister Nouri al-Maliki. "Now anyone on the air is a pirate, as everyone is obliged not to use their radios at the present time," he added. He said IARS members continue making contacts using Voice over Internet Protocol (VoIP) modes such as IRLP, EchoLink and others. The Ministry of Defense had asked the IARS to store all licensees' ham radio equipment during the shutdown, but Sayah says that's not happening because of the dangerous situation that persists within the capital. The ham radio shutdown affects members of the military and contractors holding YI9-prefix call signs. It does not apply to Military Affiliate Radio System (MARS) operations, which use military frequencies.

Florida fire department honors radio amateur:

The 2007 Firefighter of the Year in Dania Beach, Florida, is Steve Adams, N4JRW-a firefighter and emergency medical technician (EMT). A 31-year fire department veteran was cited for his "unselfish dedication to the department and his fellow firefighters." An ARRL member, Adams says he's participated in a lot of public service and emergency operations. "I am very proud of this honor," he told the League. "I was totally taken by surprise." Adams oversees the ham radio program for the Dania Beach and Hollywood emergency operations centers (EOCs). During hurricane emergencies, Adams and his son Josh, N4OSO, staff both EOCs. Over the years, Adams has spent many hours of his own time to put the best equipment and procedures in place so Amateur Radio can back up normal telecommunications in an emergency or disaster. Ham radio also permits the local EOC to link with the Broward County EOC.

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==>WORLD AMATEUR RADIO DAY 2007 SPOTLIGHTS YOUTH

Wednesday, April 18, is a special day for radio amateurs around the globe. That's when the International Amateur Radio Union (IARU) < http://www.iaru.org> and its member societies representing more than 150 countries around the world celebrate World Amateur Radio Day 2007, commemorating the founding of the IARU 82 years ago. The theme for this year's celebration is "Amateur Radio: Allowing youth to connect the world." Despite the Internet and cellular telephones, Amateur Radio continues to attract people worldwide by providing free international communication and friendship. Because it does not rely on, nor need, established telecommunication infrastructure, Amateur Radio can reach every corner of the world-and even into space! The Amateur Radio on the International Space Station (ARISS) <http://www.rac.ca/ariss> program offers an opportunity for students to experience the excitement of Amateur Radio by allowing them to converse with ISS crew members about their scientific research, the space station, the human spaceflight program and everyday life in spacea unique educational experience. With the help of Amateur Radio clubs and individual operators, orbiting astronauts and cosmonauts speak with young people around the world via ham radio, showing schools, teachers, students, parents and communities how Amateur Radio energizes youngsters about science, technology, and learning. IARU member societies, Amateur Radio satellite organizations and a sizeable contingent of Amateur Radio operators-including those from clubs at Johnson Space Center, Goddard Space Flight Center and Marshall Space Flight Center-work behind the scenes to make these educational experiences possible. Youth programs also are available through Scouting, as many thousands of Scouts in the US and elsewhere get together over the airwaves each year during the third weekend of October for Jamboree On The Air (JOTA) < http://www. arrl.org/FandES/ead/jota.html>. Participating Boy and Girl Scouts and Guides from all over the world speak to each other via Amateur Radio, offering these young people the exciting opportunity to make friends, exchange experiences and share ideas with their peers in other countries, sometimes without leaving home. Since 1958 when the first JOTA took place, millions of Scouts have met each other through this event. Many JOTA contacts foster pen-pal relationships and links between Scout troops that last for years. Numerous scouts and leaders hold Amateur Radio licenses, while others participate in JOTA at stations provided by local Amateur Radio clubs and individual radio amateurs. Young radio amateurs also form organizations of their own. One example is the World Wide Young Contesters (WWYC) <http://www.wwyc.net/>, made up of radio amateurs under age 30 who enjoy participating in international contests. Several members of the club qualified to compete in the World Radiosport Team Championship last July in Brazil. While radio amateurs have been in the news repeatedly for providing communication during disasters and

emergencies, the lion's share of their activities remains the excitement and joy of contacting distant and remote areas of the world, learning directly about each others' regions and lives and trying different ways to contact other hams in far-flung places. In addition, some leading engineers and technologists have cited lessons learned through their practical, hands-on experiences as Amateur Radio operators for inspiring their career paths. MK QTC, the Polish Radio Amateurs' Journal, sponsors the international World Amateur Radio Day Award with the support of PZK, the Polish Amateur Radio Union-that country's IARU member society. Radio amateurs qualify for this award by making at least 10 QSOs on HF or 5 QSOs on VHF between 0000 and 2400 UTC on April 18. Send a log extract, including a list of QSOs, to The Radio Amateurs' Journal MK QTC, Suchacz-Zamek - Wielmozy 5b, 82-340 Tolkmicko, POLAND, by June 30. Include \$5 (US) or 5 Euros. Shortwave listeners may obtain this full-color award by submitting the same numbers of reports. Since 1925, the IARU has been instrumental in coordinating and representing Amateur Radio activities around the world. Learn more by visiting the IARU Web site http://www.iaru.org.—The IARU E-Letter

==>CIVILIAN SPACE TRAVELER ALREADY MAKING HAM RADIO CONTACTS FROM SPACE

After less than a day in space, civilian space traveler Charles Simonyi, KE7KDP/HA5SIK, was already making contacts with the earthbound ham radio community fom NA1SS. The billionaire software pioneer and aviator arrived April 10 at the International Space Station with the Expedition 15 crew of Russian cosmonauts Fyodor Yurchikhin, RN3FI, and Dr Oleg Kotov. The trio launched two days earlier in a Soyuz spacecraft from Baikonur Cosmodrome in Kazakhstan. Ron Hashiro, AH6RH, in Honolulu was among the lucky ones. He tells ARRL that after putting out a blind call, he spoke not only with Simonyi but with Expedition 14/15 Flight Engineer Suni Williams, KD5PLB. "I mentioned to her that I had listened to her earlier contact with the school in India and it was a thrill to speak with her directly," Hashiro recounted. "She said that Hawaii was her favorite place and had some relatives in Hawaii." Then, Hashiro says, Williams told him someone else was interested in talking with him, and Simonyi came on a few minutes later. "I welcomed Charles to ham radio and asked him if he was the author of the "Hungarian notation" of Windows programming, which he acknowledged," said Hashiro. He told Simonyi that he was involved in Windows programming more than 20 years ago, and was glad to meet its creator. Hashiro deemed the occasion "a fabulous and eventful evening." Flying under contract with the Russian Federal Space Agency, Simonyi also has been running through a list of four scheduled Amateur Radio on the International Space Station (ARISS) school contacts, including one with a school in his native Hungary. On April 12, Simonyi responded via Amateur Radio to upward of 30 questions posed by students at Fairborn High School in Ohio, telling them he's enjoying

microgravity now that he's become used to it. Simonyi also talked about why he wanted to go into space. "I wanted to make a contribution to civilian space flight and assist in space station research, and also to have a fantastic experience," he said. As to why he flew with Russian cosmonauts and not with NASA, Simonyi said, "NASA doesn't fly space tourists yet, so the Russians are the only game in town." Simonyi paid a reported \$25 million for his space adventure. While in space, Simonyi will do some maintenance on the ham radio gear aboard the ISS as well as testing to isolate an antenna problem, and he'll reprogram the Phase 2 NA1SS transceiver to correct a configuration problem. He'll also conduct some research before returning home April 20 with the Expedition 14 crew of Michael Lopez-Alegria, KE5GTK, and Mikhail Tyurin, RZ3FT, who have been in space since last September. Williams is scheduled to return home this summer on the shuttle Endeavour. Frequencies in use for ARISS general QSOs: Voice and packet downlink: 145.80 MHz (worldwide); Voice uplink: 144.49 MHz for Regions 2 and 3 (the Americas, and the Pacific) and 145.20 MHz for Region 1 (Europe, Central Asia and Africa). All frequencies are subject to Doppler shift.

==>PRESIDENT RECOGNIZES RADIO AMATEUR'S DEDICATION TO VOLUNTEER SERVICE

President George W. Bush has honored ARRL member Randy Hatfield, AG6RH, of Victorville, California, with the President's Volunteer Service Award. A volunteer with the City of Victorville Community Emergency Response Team (CERT) and Emergency Communication Service, Hatfield met briefly with the president April 4 to receive the award. President Bush honors local volunteers as he travels throughout the United States. When a call came from the White House, Hatfield at first thought he was the victim of an April Fool's Day prank by ECS Coordinator Robert Barton, W7OES, who nominated Hatfield for the award a few days earlier. "Friday, March 30, I was contacted by a woman saying she was calling from the White House, and I was interviewed over the phone," Hatfield recounted. "I thought Robert was pulling a very elaborate joke!" A year earlier, Hatfield had volunteered to help Barton rebuild the ham radio communication group for ECS. "He didn't really know me that well but decided to give me a shot," Hatfield said of Barton. "I told him I would do everything I could to assist him in getting ECS going. My condition was that I not be made a leader of anything. I was to remain in the background." Barton, in turn, believed Hatfield should be recognized for his successful efforts. On April 1, Hatfield got another call from the same White House staff member telling him he'd won a Presidential Service Award. "I was nice to her and played along but knew this was a prank," he says. Nonetheless, he went to the airport meeting place at the appointed hour on April 4 and learned it was for real. Hatfield greeted the president as he disembarked from Air Force One. President Bush shook Hatfield's hand and presented him with an award pin. Then, they chatted for a few minutes while photos were taken. He'll receive the official

award document and a signed photo of their meeting in a couple of weeks. "I'm supposed to be the behindthe-scenes guy," protes ted Hatfield, who has logged more than 500 hours of volunteer service over the past 12 months. The award recognizes his volunteer work with CERT, a Citizen Corps program that trains volunteers in basic response skills such as fire safety, light search and rescue and disaster preparedness. In his volunteer work with ECS, which uses Amateur Radio volunteers to a sist city and county personnel in the event of a disas ter or emergency, Hatfield has taught ham radio classes to community members. Over the years, Hatfield estimates, he's helped some 350 individuals to get their ham radio tickets. Hatfield says he and his wife have been active with the Victorville CERT and ECS for a little more than a year. The couple had been involved in CERT previously when they lived in Marysville, Washington. In his nomination letter, Barton praised Hatfield for inspiring others by example to also volunteer their time and receive CERT and Amateur Radio training. "His classes provide hands on and practical applications to the materials taught," Barton said. "Randy has made service to his community a priority in life by volunteering his time and talents," Barton concluded. "He is always there when needed to provide support and resources to accomplish any task requested."

The ARRL Letter Vol. 26, No. 16 April 20, 2007

CubeSats launch successfully!

Four CubeSats containing payloads operating on Amateur Radio frequencies were among several spacecraft launched successfully April 17 at 0645 UTC from Baikonur Cosmodrome, Kazakhstan. A Dnepr rocket deployed seven CubeSats plus seven other satellites from Egypt, Saudi Arabia and Ukraine into Earth orbit, and signals from at least two of the four CubeSats have been copied on Earth. Among the spacecraft was Colombia's first satellite. The CubeSats are: CalPoly's PolySats CP3 and CP4, 436.845 MHz and 437.325 MHz respectively, 1200 bps FM AFSK, AX.25, 1 W, operating under an FCC Part-5 Experimental license; University of Louisiana CAPE-1 435.245 MHz, 9600 bps FM FSK AX.25 and CW telemetry during opposing 30second intervals, 1 W, call sign K5USL (e-mail telemetry reports <jd.harrist@gmail.com>); Universidad Sergio Arboleda, Colombia, Libertad-1, 437.405 MHz, 1200 bps FM AFSK AX.25, 400 mW, call sign 5K3L. CP4 will transmit a "sensor snapshot" every 2 minutes on 437.325 MHz at 1200bps FSK, AX.25. FSK will require using SSB mode for reception. A 6-second CW preamble precedes this transmission. Keplerian elements for the new ham radio birds and additional information will be posted on Cal Poly's CubeSat Web page <http://www.cubesat.org/>. CalPoly offers a CubeSat "Satellite Contact Form" to report telemetry data received from any satellite <http://cubesat.atl.calpoly.edu/ pages/missions/dnepr-launch-2/data-packet-fo rm.php>.--AMSAT

MAY 2007

Questions for Technician License

1. (T1C06) What is the "grace period" during which the FCC will renew an expired 10-year license?

- A. 2 years
- B. 5 years
- C. 10 years
- D. There is no grace period
- 2. (T3B08) How long is an average sunspot cycle?
- A. 2 years
- B. 5 years
- C. 11 years
- D. 17 years

3. (T6A03) What should you do before you transmit on any frequency?

- A. Listen to make sure others are not using the frequency
- B. Listen to make sure that someone will be able to hear you
- C. Check your antenna for resonance at the selected frequency
- D. Make sure the SWR on your antenna feed line is high enough

4. (T7C08) What does an inductor do?

A. It stores energy electrostatically and opposes a change in voltage

B. It stores energy electrochemically and opposes a change in current

C. It stores energy electromagnetically and opposes a change in current

D. It stores energy electromechanically and opposes a change in voltage

5. (T8D16) What electromagnetic wave polarization do most repeater antennas have in the VHF and UHF spectrum?

- A. Horizontal
- B. Vertical
- C. Right-hand circular
- D. Left-hand circular

6. (T9B14) Which of the following statements about Amateur Radio autopatch usage is true?

A. The person called using the autopatch must be a licensed radio amateur

B. The autopatch will allow only local calls to police, fire and ambulance services

- C. Communication through the autopatch is not private
- D. The autopatch should not be used for reporting emergencies

7. (T0E06) At what frequencies do the FCC's RF radiation exposure guidelines incorporate limits for Maximum Permissible Exposure (MPE)?

- A. All frequencies below 30 MHz
- B. All frequencies between 20,000 Hz and 10 MHz
- C. All frequencies between 300 kHz and 100 GHz
- D. All frequencies above 300 GHz

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