



THE OHM TOWN NEWS

Voice of the Bridgerland Amateur Radio Club

MAY 2001

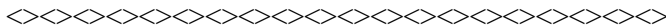
<http://www.barconline.org>

PRESIDENTS MESSAGE

Coming up in May is the last regular 2nd Thursday club meeting until September. Lem Earl is going to bring us a presentation on Radio Control of planes, cars, boats etc. This should be very interesting. Hope to see you all there. With Field Day coming up, and a bunch of races and other events that we assist in, it may be a good time to check out our batteries, and antennas so we will be ready to go for these operating events. Just a reminder on preparedness; as we get our gear into shape lets not forget the most important thing, that is to take care of the operator. Shelter, water, and food are a must at all times, but are often taken for granted.

As we prepare for operating events lets pack a bag for the operator. It is pretty hard to get anything done if one finds himself freezing, starving or otherwise tormented by the ravages of nature. Have a great Spring-time, and Summer!

73 Jim K7OA



VE Test Session

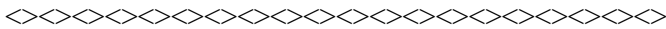
Coming up at 8:00 a.m. on June 9, 2001

All tests given, walk-ins welcome

At Campbell Scientific Inc.

815 West 1800 North

Logan, Utah



BARC Club Meeting for May

The regular BARC club meeting for May will be held at 7:30 p.m. on May 10 at the Hyde Park City Offices.

HAM PROFILE

by Boyd Humpherys W7MOY

If one walks into the local Pizza Hut and desires to talk to the manager or KC7ERC, it will soon be discovered that they are one and the same. Not many of we electronic kinds can talk knowledgeably about both topics at the same time, however Walt Appel can and will.

Walt first saw the light of day down in Milton Florida, where his father was an aviator for Uncle Sam's Navy. Incidentally his grandfather was also a Naval Aviator during WW II. It must have been an inherited trait. Walt didn't indicate why he didn't have the urge to sign on for a 20 year hitch and fly off into the wild blue yonder. The family must have tired of seeing their belongings blown away during hurricane season and moved out west, where all we have worry about is an occasional unheard of tornado.

The family ultimately migrated to Logan where Walt graduated from Logan High in 80,

(Continued on page 3)



Club Officers

President

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

Vice President

Jim Lofthouse K7OA
lofthouse@mtwest.net
(435)245-6632

Secretary

Julie Dabb KC7RPP
juliebugbug@hotmail.com
(435)797-6724

Treasurer

Kathy Brooksby KD7FXC
kathy@brooksby.com
(435)787-2984

Board Members

Mark Hebert AA1HR
aa1hr@arrl.net
(435)563-1135

Lem Earl KC7VLV
leme@sisna.com
(435)752-2255

Tyler Griffiths N7UWX
(Past president)
tyler@n7uwx.net
(435)752-7269

Newsletter Editor

Dale Cox KB7UPW
dalec@qwest.net
(435)563-3836

Repeater Chairman

Ted McArthur AC7II
tmac4@uswest.net
(435)245-4904

Web Page Editor

Kevin Reeve N7RXE
kevree@mdls.usu.edu

ARRL Bulletin 13 ARLB013
From ARRL Headquarters
Newington CT April 9, 2001
To all radio amateurs



FCC holds the line on license restructuring

The FCC has declined to make any significant changes to the way it implemented Amateur Radio “restructuring” last April. The Commission has turned down several requests for changes in the Amateur Service rules contained in five petitions for partial reconsideration of its Report and Order WT Docket 98-143, released December 30, 1999. The ARRL was among the petitioners.

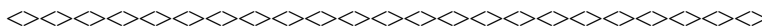
In a Memorandum Opinion and Order released April 6, the FCC by and large denied all petitions for changes to its restructuring Order. It took the opportunity to make some minor housekeeping changes to the amateur rules.

Among the issues was a request from the ARRL and other petitioners that the FCC continue to maintain records that indicate whether a Technician licensee has Morse code element credit. The FCC noted that its current Universal Licensing System software was modified to display a “P” (for Plus) in the field that indicates former license class when a Technician Plus class license is renewed. “This capability results in the amateur service database being able to provide a de facto Technician Plus licensee database,” the FCC asserted in its MO&O. The FCC did not address how its database would distinguish current Technician licensees who subsequently earn Morse code (Element 1) credit. Those licensees have only a Certificate of Completion of Examination (CSCE), which will never be reflected in the database, even upon license renewal.

The FCC also decided to not extend Element 1 credit to all past licensees who had ever earned it—something else the ARRL had asked for. Under current rules, the holder of an expired Novice or a pre-February 14, 1991, Technician license can get Element 1 credit. The FCC said the change was not needed and that “most examinees” who ever held a General, Advanced or Amateur Extra ticket also once held a Novice or a pre-February 14, 1991, Technician ticket that grants Element 1 credit.

The FCC also declined to extend permanent credit to Element 1 CSCEs held by Technicians to obtain HF privileges. These CSCEs are good for 365 days for upgrading purposes but confer only ad-

(Continued on page 5)



Editors Note: If you have any information that you would like to have printed in the Ohm Town News please send it to the Editor via e-mail or snail mail. Also, if you are aware of any errors in the newsletters, i.e. wrong addresses, incorrect information, please let me know. Thank You.

Dale Cox KB7UPW

(Ham Profile Continued from page 1)

then went on to garner a degree from USU in 90, majoring in Political Science with a minor in Business and interestingly enough, Russian. Somewhere along the line, he served a mission for his faith in California. The family spent a few short months out on Quadjalein Atoll in the remote reaches of the Pacific, where the breadwinner was involved in Naval Aviation activities. Walt's father flew surveillance missions involving the same type of aircraft that was recently involved in the standoff between China & the US.

The flying expertise of parents and grandparents in the family involved the role of being one of Wyoming's flying dentists some years back. Perhaps that's when we began to view the price of dentistry as being too high. That experience of his forebearer led to their dental appointment in the military in WW II. Those goings on in Wyoming also led to some involvement in the initial organization of Frontier Airlines.

Walt got his tech ticket back in 93, sports a Kenwood HT and wishes there were eight days in the week in order to get involved in more things, right Walt?

He is interested in camping, shooting sports, survival techniques, and other emergency preparedness activities. He reasoned that the HT would be an excellent companion for these types of activities and well it is. He and family members completed the excellent CERT training four or five years ago, and recommends it highly.

To keep food on the table, several years ago he worked for Domino's Pizza, then in 90 changed menus and started working for Pizza Hut, where he now acts as CEO of the Logan facility. He must have been an efficient manager of people as well as good pizzas, as about a dozen of his staff have gone on to manage stores of their own in different parts of the state and country over the years. With his fluency in Russian and Ham & Olive, I suggested he ought to be a natural to open up a facility in Moscow, or Siberia. A pensive glance and he replied with Nyet, that's "no" in Russian. He felt good old Cache Valley has its share of excitement at present and negotiating I-15 is about the extent of a challenge desired at the moment.

It became readily apparent in talking with Walt that he had an inquisitive mind, probably due to his field of endeavor at USU and just how many things one can stack on a 9" pizza.

Probably most of you are aware that Walt has taken an active part in the recent public discussions on Fluoridation. He readily admitted that he became in-

terested in the issues, not because he had any particular axe to grind, but had the desire to fairly assess all sides of any issue. He has accumulated a fairly good sized "pile" of reports, studies, findings, papers, and other data on the subject, covering many years. It is fairly clear that all of the facts are not yet on the table. Some of these long term phenomena take a painful period of time to evaluate. Some of us want all of the answers right now and completely. Life is not always that way unfortunately.

We think of the life long efforts of those in our avocations, such as Hertz, Marconi, Maxim, Edison, and countless others. A good portion of their efforts are still basic, however mankind has wrestled a great deal of additional information in the intervening years that has added to our understanding. None of us would go back to some of the comprehensions held 50 or 100 years ago, but are continually adding to the new being uncovered each day. ATV, PSK31, PC interface, DSP, and ESP. What's next?

We parted with his quotation of a statement from someone in a past age, we'll give proper credit when we find out who.

"We learn from history, we learn nothing from history" Strange but true.

Get on the air Walt, we need you on the nets. (Also the buy of the week in Pizzas)



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



Upcoming Activities

Mt. Man Rendezvous	May 19
Little Mt. Bike Race	June
C. V. Biathlon	June 9
Pony Express	June 23
Field Day	June 23-24
Cache Cruise In	July 7
Cache Classic	August
LOTOJA Bicycle Race	September 15
Top of Utah Marathon	September 22
Bear 100	September
JOTA	October 20-21

ARRL Bulletin 14 ARLB014
From ARRL Headquarters
Newington CT April 24, 2001

Kansas Hams Responding in Tornado's Aftermath

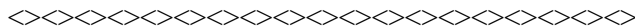
Amateur Radio operators are responding in the wake of an F4 tornado that ripped through the small Central Kansas town of Hoisington April 21. The twister left one dead and dozens injured and caused millions of dollars in damage. Kansas Section Manager Orlan Cook, W00YH, reports an HF station is on the air from near the Hoisington Fire Station. HF nets have been established on 7.253.5 MHz and 3.920 MHz. Kansas Section Traffic Manager Ron Cowan, KB0DTI, is anticipating a good deal of health-and-welfare traffic, although there is telephone service and power in the stricken community. Cook said an emergency communication van from Salina was set to arrive. Among those reported on their way to Hoisington was ARRL Midwest Division Vice Director Bruce Frahm, K0BJ. Assistant Director Ross Stevens, W0XJ, already is on the scene. It's been estimated that a quarter to a third of the town of 3000 received damage.

The American Red Cross and the Salvation Army are among the responding agencies, and hams on scene are expected to be supporting their activities. Kansas Section Emergency Coordinator Joseph Plankinton, WD0DMV, reports he still needs communication help at Hoisington.



Authorities in the town said no one saw the tornado coming. News accounts say warning sirens were not sounded.

NNNN



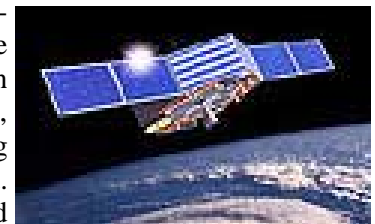
-- Miscellaneous Information --

Living in the 1500's, houses had thatched roofs--thick straw, piled high, with no wood underneath. It was the only place for animals to get warm, so all the dogs, cats and other small animals (mice rats, and bugs) lived in the roof. When it rained it became slippery and sometimes the animals would slip and fall off the roof--hence the saying "It's raining cats and dogs."

Space Bulletin 007 ARLS007
From ARRL Headquarters
Newington, CT April 27, 2001

AO-40 Transponder Operation Possible This Summer

AMSAT-NA President Robin Haighton, VE3FRH, has raised the possibility that AO-40 could inaugurate transponder operation this summer, if tests and orbital maneuvers between now and then go as planned. "We are learning how to fly this thing," Haighton said. "But I still think we're going to end up with a darned good satellite." The most likely initial transponder configurations, Haighton said, would be Mode L/S--1.2 GHz up and 2.4 GHz down, Mode U/S--435 MHz up and 2.4 GHz down, and possibly Mode V/S--145 MHz up and 2.4 GHz down. Recent data suggest that the mid-December incident that silenced AO-40 for two weeks and rendered some systems unusable also might have blown a hole on the 400-newton motor side of the spacecraft. "Speculation is there could be damage, and sunlight is getting right in," Haighton said. He noted that ground



controllers have detected a distinct rise in temperature when sunlight strikes that side of the satellite. Ground controllers plan to raise the height of the perigee in the very near future, Haighton said. That process, using the onboard arc-jet motor, could take up to several weeks. The AO-40 team hopes the maneuver will minimize or eliminate possible effects on the satellite's orbit caused by atmospheric expansion at the peak of the solar cycle.

AO-40 currently is approximately 320 km almost 200 miles above Earth at perigee its closest point and some 51,000 km some 31,600 miles at apogee. Plans call for raising the orbit at perigee to around 520 km, or some 320 miles. Once the orbit has been adjusted, ground controllers would orient the spacecraft's attitude and check out the various onboard transmitter and receiver systems to see what works and what does not. "We're still pretty confident that the 2 meter and 70 cm transmitters are not there," Haighton said, "but we're equally confident that the receivers for those bands still are."

The satellite has been transmitting telemetry on the 2.4 GHz (S-2) beacon, and signals reportedly have continued to improve although the beacon has been out from time to time as needed to conserve power during eclipse periods.

NNNN

(FCC Continued from page 2)

ditional operating privileges beyond that time.

The FCC refused to reinstate the 20 WPM Morse code exam for Extra. The FCC that since restructuring went into effect nearly a year ago, the FCC said, "there does not appear to be any decline in the proper operation of amateur stations." The FCC also declined to ban the practice of allowing applicants to retake a failed examination element at a single test session simply by paying a second fee. The Commission also turned down a proposal to set the total number of questions at 50 for the Technician and General class test and at 100 for the Amateur Extra test.

The FCC also declined to make any changes—at least for now—in the arrangement of mode-related Amateur Radio subbands, as some petitioners had requested.

Also denied were requests to: institute a new entry-level Communicator license class in the Amateur Service; elevate former "Class A" operators licensed prior to 1951 to Amateur Extra; and give Element 4 exam credit to examinees who had held a Conditional, General or Advanced ticket before November 22, 1968--when "incentive licensing" became effective.

The FCC MO&O is available at <http://www.arrl.org/announce/regulatory/wt98-143-recon.pdf> .

NNNN

Training Class

This summer we will be offering a class to help students receive their no-code Technician Amateur Radio license. The course will be co-sponsored by BARC and the Bridgerland Applied Technology Center. The club will be providing the instructors and expertise, while BATC will be providing classroom space and full access to computer end electronics labs. BATC is interested in making this an annual course, and there is also talk of making it an elective for their electronics students.

The course will be held from 7-9 pm every Wednesday starting July 11 and running for 6 weeks until August 22 (no class will be held on July 25th). We will be using the ARRLs "Now You're Talking" as our text, and it will be provided as part of the course materials. The fees for the course haven't been finalized, but they will only be enough to cover the text book, photocopies, and any other course materials. BATC is providing the classrooms free of charge.

For five of the six sessions we will be covering the material in the ten chapters of the text book. The final week will be used for Q&A, tutoring, and accessing online sample tests in BATC's computer labs. We also hope to provide some type of demonstration of different aspects of the hobby each session to show students what is available. We will be looking for volunteers from the club to help teach, provide demonstrations, and help tutor those who need extra help. Any questions or offers to help can be directed to Rik Stallings, N7XZ, at n7xz@arrl.net

Thanks and 73!

One Version of a GRAB-AND-GO Kit

Clothes, Hat, Shoes, Boots, Coat, Gloves, Raincoat
First Aid Kit / Personal Medication
Water
Water Purification Tablets and / or Filter
Flashlight, Extra Bulbs, Extra Batteries
Food, Candy Bars, etc. for 72+ hrs
Small AM-FM Radio with extra Batteries
Waterproof Matches / Lighter
Kleenex / Paper Towels
Pocket Knife, Small Can Opener
Soap, Insect Repellant, Sunscreen, Chapstick
Work Gloves

12 V 6 + Amp Hour Gel-Cell Battery *
Car Lighter Plug *, Car Battery Clips *, 2 Meter Gain
Antenna (1/2 wave is best)
Speaker - Microphone, Earphone for Transceiver
12 Volt Light * & Extra Bulbs
6 Foot Power Extension Cord *
4 Way Power Splitter *
Magnetic Mount 2 Meter Antenna
Small Notebook, Message Forms, Stick-on Notes
Pencils, Pens, Detailed Maps of Area
Electrical Tape, Duct Tape, Tie Straps
Watch, Cash

ID Card, FCC License, Frequency List,
Phone Numbers, RACES Number
2 Meter Transceiver, Operators Manual,
Weatherproof Cover
Transceiver power cord *
(*with Anderson power connectors)

Tools
13.7 Volt Battery Charger *
Mountable Antenna (YAGI, 1/4 Wave, "J" Pole, etc.)
50' Coax with BNC Connectors
2 Meter Amplifier *
Adapters (PL-259 to BNC) & (BNC-Jack to BNC-Jack)

Questions for Extra Class License

1. (E2A01) What is the direction of an ascending pass for an amateur satellite?
 - A. From west to east
 - B. From east to west
 - C. From south to north
 - D. From north to south
2. (E2A03) What is the period of an amateur satellite?
 - A. The point of maximum height of a satellite's orbit
 - B. The point of minimum height of a satellite's orbit
 - C. The amount of time it takes for a satellite to complete one orbit
 - D. The time it takes a satellite to travel from perigee to apogee
3. (E2A09) What is the name of the effect which causes the downlink frequency of a satellite to vary by several kHz during a low-earth orbit because the distance between the satellite and ground station is changing?
 - A. The Kepler effect
 - B. The Bernoulli effect
 - C. The Einstein effect
 - D. The Doppler effect
4. (E2C11) How does the spread-spectrum technique of frequency hopping (FH) work?
 - A. If interference is detected by the receiver it will signal the transmitter to change frequencies
 - B. If interference is detected by the receiver it will signal the transmitter to wait until the frequency is clear
 - C. A pseudo-random binary bit stream is used to shift the phase of an RF carrier very rapidly in a particular sequence
 - D. The frequency of an RF carrier is changed very rapidly according to a particular pseudo-random sequence
5. (E2D07) Which of the following systems is used to transmit high-quality still images by radio?
 - A. AMTOR
 - B. Baudot RTTY
 - C. AMTEX
 - D. Facsimile

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

May, 2001

Some Contents...

Ham Profile: Walt Appel	1
Presidents Message	1
Club Officers.....	2
ARRL Bulletins	2, 4
Training Class	5

