



THE OHM TOWN NEWS

Voice of the Bridgerland Amateur Radio Club

APRIL 2003

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

PRESIDENT'S MESSAGE

I am just home from our monthly Board meeting and I wanted to present a couple of ideas that were discussed which will be presented for a vote at April's club meeting.

The first proposal is that we start a "club store". This store would make small components available to local hams for cost. These items would include Anderson connectors, coax, mag-mounts, various adapters and anything else requested by you. This idea is actually borrowed from the Davis club. If you have been to the Utah ham-fest you have probably visited their booth. They have a fairly large inventory consisting of not only connectors and coax, but also antennas, kits and many different ARRL publications. We were thinking of starting much smaller and seeing what happens. Anyone who has tried to purchase these things locally will certainly see the need. Imagine being able to buy that length of coax you need without driving to Preston or putting up with the low quality stuff available at Radio Shack. Another possible advantage would be better prices due to buying in higher quantities.



A volunteer will be selected to act as store manager. They will bring the inventory to club meetings, field day, and other activities as well as making it available throughout the month. The types of items stocked will be decided by your recommendations, and pricing of items will be set as

close as possible to the cost of the item (plus any shipping or other costs involved). The idea here is to keep things self-sufficient without making any kind of profit. If the membership approves of this plan, we would make a one-time expenditure to purchase the initial inventory, after which income from sales would go back into replenishing the stock.

(Continued on page 3)

INGENUITY PROFILE

By Teakwood Q. Underclutch BS, MS, PHD

From time to time, we invite contributions from outstanding experts in their field of endeavors. New developments continue to appear which often defy total comprehension, however continued research

in today's topic undoubtedly will set the trend in the electronic and mechanical world for many years to come.

Dr. Underclutch has con-

sented to present in layman's terms, his developmental work on the recently announced Turbo Encabulator.

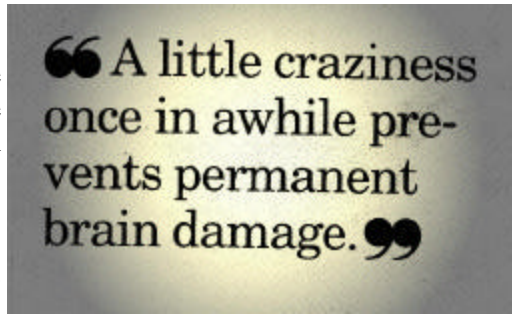
This paper was recently presented at the Andes Poly Tecnic Institute in Brazil. It must be mentioned that due to the sudden world wide interest in this subject coupled with security concerns, certain pertinent details have been omitted, however the basic concepts are vibrantly described. It is only with the binding assurance that the revolutionary concepts in this article will be kept within the realms of our organization, that he has graciously consented to present this article. It would be greatly appreciated if we would honor that commitment.

TURBO ENCABULATOR IN INDUSTRY

Work has been proceeding in order to bring perfection to the crudely conceived idea of a machine that would not only supply inverse reactive current for use in unilateral phase detractors, but would also be capable of automatically synchronizing cardinal gram-meters. Such a machine is the Turbo Encabulator.....

The original machine had a base-plate of pre-fabulated amulite, surmounted by a malleable logarith-

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Minutes from Board Meeting on March 20th 2003

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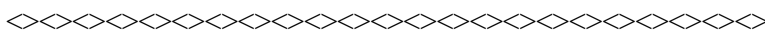
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The Board discussed club meetings and topics. They are currently working on ideas for 72 hour kits, Satellite, and HF. April Club meeting will either be 72 hour kits or Satellite. The board entertained a proposal to create a club store scaled back but similar to the Davis Country ARC. This would contain items of interest to HAMS that are not easily obtained in the valley. Good Coax RG213, Teflon PL259 connectors, adapters, Anderson Power Pole connectors, Mobile Antennas and mounts, some books etc, as determined and requested by club members. The club has money available in the bank to finance this. Items would be sold at cost plus enough to cover minimal expenses such as shipping and storage containers. Revenue generated from the sell of items would be used to restock inventory. The proposal will go to the general club for voting in April since the money needed is not part of the current budget. The board would appoint a trustee or two for the store who would be responsible for setting up and operating it at club meetings and other activities. The board thinks this will be a big benefit to the hams in the area.

The board also entertained a proposal to purchase an antenna analyzer that could be used by club members at large. The board will also ask the club to approve this in the April Club meeting.

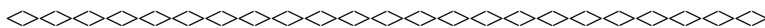
The board discussed ways to promote emergency preparedness and communications. Currently the ARRL has several courses available online. The board is exploring the practicality of offering a live class in the valley using books available from the ARRL. These are the same classes as offered online.

The board also discussed club built projects including antennas and direction finders.



March Club Meeting

For the March Club Meeting we were privileged to hear from Mel Parks (AC7CP), our local ARRL section leader. He discussed some of the benefits of the ARRL and some of the ideas and plans they are pursuing, including a local person to assist in a monitoring program for the area, and the possibility of having an activity, such as a Hamfest in the northern part of the state, maybe in Cache Valley if a good location can be found.



Answers to questions on Page 6
1-B, 2-C, 3-D, 4-B, 5-C, 6-D

(Presidents Message Continued from page 1)

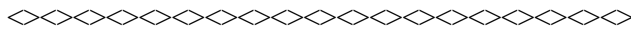
The second proposal up for a vote is for the purchase of an antenna analyzer which would be used for club activities and would also be available to be checked out by club members. Most of us have wondered at some point whether our antenna was working or not. This is especially true for those of us who attempt to build our own. This piece of equipment would be a valuable asset to the club.

Since neither of these projects is included in this year's budget, we will present a request for funding at our next club meeting. For the club store, we will be asking you to vote on spending \$1,200 for the start-up costs involved in purchasing inventory, and probably some Rubbermaid containers to store and transport it. For the antenna analyzer we will be asking you to vote on spending \$400 for the purchase of the analyzer (MFJ-269), case, and power supply. I realize \$1,600 is a lot of money to spend at one time, but I think most of you would agree that the dues we pay should be used for projects/items that will benefit the club. This will still leave a sizable balance for a contingency fund and for future projects.

Included in this issue of the *Ohm Town News* is a copy of the ballot that will be presented. Look it over and see what you think. You can bring your ballot to club meeting, or get it to one of the board members before April 10 if you can't be there.

We members of the board are quite excited about these projects. We hope you are too.

73 de N7XZ

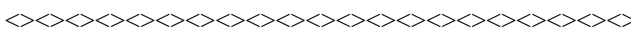


Some Activities for the Upcoming Season

(Dates are approximate at this time)

Mountain Man Rendezvous	May
Cache Classic	May
Cache Valley Biathlon	June
Field Day	June 28-29
Cache Cruise In	July
LOTOJA	September 13
Top of Utah Marathon	September 20
Bear 100	September
JOTA	October

(More info will be included in this column when it is available)



The next club meeting will be on April 10th at 7:30 at the Hyde Park City offices.

(Profile Continued from page 1)

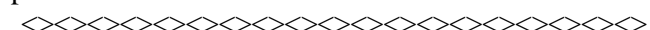
mic casing in such a way that the two spurving bearings were in a direct line with the pentametric fan... The main winding was of the normal lotus-o-delta type placed in panendermic semi-boloid slots in the stator, every seventh conductor being connected by a non-reversible tremie pipe to the differential girdlespring on the "up" end of the grammeters.

Forty one Manestically spaced grouting brushes were arranged to feed into the rotor slip stream, a mixture of high S-value phenylhydrobenzamine and 5% reminative tetryliodohexamine. Both of the liquids have specific pericosities given by the constant (2.5cnX10-6.7) where n is the diathetical evolute of retrograde temperature phase disposition, and c is Cholmondeley's annular grillage coefficient. Initially, n was measured with the aid of a metapolar refractive pilfrometer..but up to the present date nothing has been found to equal the transcendental hopper dædoscope.

Undoubtedly the Turbo Encabulator has now reached a very high level of technical development. It has been successfully used for operating nofer trunnions. In addition whenever barescent skor motion is required, it may be employed in conjunction with a drawn reciprocating dingle arm to reduce sinusoidal depletion.

TECHNICAL NOTE 1: If the bearings are lubricated with warm smorch, they will not grunch.

TECHNICAL NOTE 2; After being envised and cerebrally malleated by 1.5 nofer trunnions from a matit u-dinative 0455 GMT to an epinocturnal-proximate 1155 EST, if you feel a need of a spirianimating filleperative, you may submersinize your hypersencinate endoderm in a 5% fizzionate bicarboalkalinating cepsypola.



The ARRL Letter Vol. 22, No. 12 March 21, 2003 ==>RADIO COMMENTATOR PAUL HARVEY PLUGS HAM RADIO'S EMERGENCY COMMUNICATIONS ROLE

Veteran ABC Radio Networks commentator Paul Harvey this week offered some kind words for Amateur Radio. The mention was the second item on "page four" of his March 19 Paul Harvey Noon News and Comment program. "America's quiet warriors are the legion of ham radio operators, 700,000 of them, who are always at ready for backup duty in emergencies— amateur, unpaid, uncelebrated, civilian radio operators, during and after floods and fires and tornadoes," Harvey said. "After the 9/11 attacks, hams were

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Ballot
For April Club meeting
See Presidents Message

Proposal # 1

Authorizes the BARC Board to establish a simple club store with ham related items to be sold at cost plus expenses. Authorizes the Board to use available club funds, up to \$1200, currently not allocated in the 2003 budget, for the establishment of said store inventory and allows for continued inventory purchases as needed using funds generated from sale of inventory. Board will approve all inventory purchases and appoint trustee for store.

For

Against

Proposal # 2

Authorizes the BARC Board to purchase an antenna analyzer (MFJ 269) and accessories for use and checkout by club members at large. Authorizes the Board to appoint a trustee for the analyzer and implement check-in and check-out procedures and training for use. Authorizes the Board to use club funds not allocated in the current 2003 for said purchase. Estimated cost < \$400.

For

Against

Proxy ballots may be sent with club members or mailed to BARC PO Box 111, Providence Utah 84332. Or vote at club meeting in April. Include your name and callsign on the envelope of any ballot you mail or send with another member. Ballot must arrive by Club meeting time to be counted.

(ARRL Letters Continued from page 3)

indispensable in reuniting friends and families. Most recently it was they who expedited the search for debris after the disaster to the space shuttle Columbia, and right now, at this moment, they are involved in homeland security to a greater degree than you would want me to make public." The commentary's enigmatic and mysterious final sentence—typical of Harvey's habit of leaving his listeners hanging—apparently refers to the fact that many Amateur Radio Emergency Service (ARES) and Radio Amateur Emergency Service (RACES) teams have ramped up their alert status as hostilities get under way in the Middle East.

The entire Wednesday noon broadcast is available on Paul Harvey's Web site <<http://www.paulharvey.com/>>. Click on the Wednesday noon link under "Listen Now."

The ARRL Letter Vol. 22, No. 13 March 28, 2003
==>UTAH GOVERNOR SIGNS AMATEUR RADIO ANTENNA BILL

Utah Gov Michael Leavitt has signed that state's Amateur Radio antenna bill, HB 79. The bill unanimously passed a third reading in the Utah Senate February 14 on a 23-0 vote, less than a month after it was introduced. It had earlier passed the Utah House on a 65-8 vote. Leavitt signed the bill March 15. It becomes effective May 5. "Thanks to the hams who originated the bill and defended it in its committee hearings," said a comment on the Utah Amateur Radio Club's "News About UARC and Ham Radio in Utah" Web site <<http://www.xmission.com/~uarc/announce1.html#prb1bill>>. "Thanks also to those who contacted their state senators and representatives and helped assure passage." Sponsored by Rep Neal B. Hendrickson, HB 79, "Regulation of Amateur Radio Antennas," prohibits municipalities and counties in Utah from enacting ordinances that fail to comply with the limited federal preemption known as PRB-1. The measure requires local ordinances involving placement, screening or height of an Amateur Radio antenna that are based on health, safety or aesthetics to "reasonably accommodate amateur radio communications" and to "represent the minimal practicable regulation to accomplish the municipality's purpose."

ARRL Utah Section Manager Mel Parkes, AC7CP, has credited Mike Davis, KD7FQD, and John Hanson, KI7AR, for developing the bill and getting Hendrickson to sponsor it. A copy of the legislation is available on the Utah State Legislature Web site <<http://www.le.state.ut.us/~2003/bills/hbillint/hb0079.htm>>. Utah becomes the 17th state to enact an Amateur Radio antenna bill. PRB-1 bills are under consideration in several other states, including New York,

New Jersey and California. For more information about PRB-1, visit the ARRL Web site's Antenna Restrictions page <<http://www.arrl.org/FandES/field/regulations/antenna-restrictions.html>>.

==>GEORGIA HAMS RESPOND IN AFTERMATH OF KILLER TORNADO

Amateur Radio operators in southwestern Georgia this week helped their neighbors and relief agencies in the wake of a tornado March 20 that left six people dead and 200 or more injured—dozens seriously. Georgia Gov Sonny Perdue declared a state of emergency in Mitchell and Worth counties—located south of the City of Albany. According to the Georgia Emergency Management Agency (GEMA), the tornado rendered dozens of houses uninhabitable and damaged many others. Upward of two dozen amateurs have been assisting responding organizations including the American Red Cross, the Salvation Army and Georgia Baptist Disaster Relief. Albany Metro Area SKYWARN had activated earlier in response to severe weather warnings.

"ARES members of the Albany Amateur Radio Club—who are just about all Red Cross volunteers—have been taking emergency response vehicles (ERVs) to the affected areas to feed victims and provide vital communications," said ARRL Lee County Emergency Coordinator Bob Smith, K4PHE, who's also a Red Cross communications officer. Other hams helped with damage assessment, shelter communications and other duties. Several ARES members volunteered continuously for several days after the tornado struck. By week's end, ARES District 7 (Southwestern Georgia) Emergency Coordinator J.D. Goings, AA4P, reported that the amateurs' response to the tornado in Mitchell County—the worst hit area—was winding down. Goings was among those supporting the Georgia Baptist Disaster Relief team as a communicator for the clean-up and recovery and cooking units. "There is a lot of damage, and it is widespread," he indicated, adding that ARES members did "a fantastic job" helping out in Mitchell and Worth counties. Two fatalities occurred in Worth County, and four others died in Mitchell County, according to GEMA. Dougherty County EC Arthur Shipley, N4GPJ, the disaster chairman for the Southwest Georgia Chapter of the American Red Cross, organized Red Cross and ARES operations. The Red Cross established a shelter at Mitchell County Middle School on March 21, and N4GPJ set up a 2-meter station to coordinate communications from there. The shelter closed March 22. Goings and Red Cross EC Dale Culp, W1BPP, deployed to the Baptist church in Camilla with the Georgia Baptist feeding unit. They set up a mobile communications trailer with radios on the Albany Repeater—the primary communications frequency. They also erected an antenna and a UHF repeater for local communication. Smith said the tornado took a northeasterly path from Camilla through Worth County, destroying several other homes in its path. "The devastation in Camilla was unbelievable," he said. "This tornado hit the same homes that were destroyed and then rebuilt when a tornado hit Camilla in 2000." The Valentine's Day 2000 storm claimed 11 lives.

Questions for Extra Class License

1. (E1A08) How much below the mean power of the fundamental emission must any spurious emissions from a station transmitter or external RF power amplifier transmitting on a frequency below 30 MHz be attenuated?
 - A. At least 10 dB
 - B. At least 40 dB
 - C. At least 50 dB
 - D. At least 100 dB
2. (E1F17) Who is responsible for the proper conduct and necessary supervision during an amateur operator license examination session?
 - A. The VEC coordinating the session
 - B. The FCC
 - C. The administering Volunteer Examiners
 - D. The Volunteer Examiner in charge of the session
3. (E2C05) If a DX station asks for your grid square locator, what should be your reply?
 - A. The square of the power fed to the grid of your final amplifier and your current city, state and country
 - B. The DX station's call sign followed by your call sign and your RST signal report
 - C. The subsection of the IARU region in which you are located based upon dividing the entire region into a grid of squares 10 km wide
 - D. Your geographic "Maidenhead" grid location (e.g., FN31AA) based on your current latitude and longitude
4. (E4A05) Which test instrument is used to display intermodulation distortion products from an SSB transmitter?
 - A. A wattmeter
 - B. A spectrum analyzer
 - C. A logic analyzer
 - D. A time-domain reflectometer
5. (E5B11) How long does it take for an initial charge of 800 V DC to decrease to 294 V DC in a 450-microfarad capacitor when a 1-megohm resistor is connected across it?
 - A. 0.02 seconds
 - B. 0.08 seconds
 - C. 450 seconds
 - D. 1350 seconds
6. (E5G03) What is the effective radiated power of a station with 75 watts transmitter power output, 4-dB feed line loss and 10-dBd antenna gain?
 - A. 600 watts
 - B. 75 watts
 - C. 150 watts
 - D. 299 watts

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

April, 2003

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