



SPECTRUM



The Voice of the Humble Electron

Founded 1962

PRESIDENT'S MESSAGE: This is **The Bruce N1IX** – great news - our members are starting to upgrade with **Ken Kavaljian KB1KVL**, **Bob Barbour K1BAR**, **Mike Supple KB1OEP** and **Ron Smith N1PXX** getting General and **John Chase KB1ODS** going all the way to Extra with 5 wpm code.

As usual, several members participated in Monthly RADIOGRAM training at the Whitman and Taunton Emergency Operations Center. **Paul Burbine N1VTI** and I have been installing mobile rigs in our cars. What are you doing amateur radio wise ?? Come to the next meeting and share your radioactive projects with the members present.

CLOCKS AND RADIOS

Ross Hochstrasser KB1OEO is a graduate of **Bill's N1FRE** Technician Classes and has been interested in radios all his life. **Ross KB1OEO** owns and runs the Clock Restoration Service – a business in Whitman.

As a teenager, **Ross KB1OEO** reports that he was a short wave listener and sent for and collected post card “reception reports” or “official verification cards” from stations he heard all around the world.

Along with his clock restoration business **Ross KB1OEO** has a Mass. Radio & TV Technician License and started a radio repair business in 1993 called The Bavarian Radio Works that specialized in repair of European Radio Sets like Grundig, Saba, Telefunken, Nordmende, Philips and Semens. He was a Grundig service man for 10 years with Grundig referring customers to him.

In his vast collection he has some unique radios like a 1947 Blaupunkt German radio that won first place in a local antique radio show.

Now **Ross KB1OEO** tells us that he wants to turn his radio repair activities into a hobby and when he saw the Whitman Club Technician Classes advertised in the local paper, he decided to pursue getting an amateur radio license as the next step.

Ross KB1OEO also collects military radios both United States and foreign and showed us a working Collins R-390A receiver.



Ross KB1OEO
holding a RCA
869B Rectifier



Ross Hochstrasser KB1OEO

SECRETARY'S NOTES OF THE MEETING OF MARCH 7, 2007 de KB1CYV

OPENING: The members started gathering at the Whitman Public Library, Whitman, MA around 6:15 p.m. **President Bruce NI1X** opened the meeting with a roll call at 6:35 p.m.

ATTENDANCE: Twenty-eight members / guests were present, including the four elected Officers and three Directors. A quorum was present

WA1UMT	Dave Darois	W1MMM	Bob Sikes	KB1MTW	Paul Moss
N1WIG	Sam Webber	N1VTI	Paul Burbine	WQ1L	John Coombs
N1NTZ	Ed Meehan	KC1FZ	George Davis	KB1ETW	Jim Halpin
KA1PJX	Don Keene	K1BAR	Bob Barbour	KB1KVL	Ken Kavaljian
KB1OEP	Mike Supple	K1WGU	Bob Bass	KB1OEQ	Ron Stundze
KB1NPH	Bill Anstead	NI1X	Bruce Hayden	KB1CYV	Roy Logan
KB1ODS	John Chase	K1VU	Bob Johnson	N1ZZN	Jeff Lehmann
N1FRE	Bill Hayden	N1SOM	Jeff Tracy	N1FY	Carl Aveni
KB1NAX	Joan Smith	N1PXX	Ron Smith	SWL	Mike Anderson
KB1NMG	Barbara Anderson				

TREASURER'S REPORT: The treasurer's report for February was read by **Jeff N1SOM**. **Ed N1NTZ** made a motion seconded by **John WQ1L** that the treasurer's report be accepted as read. The motion was approved.

SECRETARY'S REPORT: A motion was made by **Paul KB1MTW** seconded by **Ed N1NTZ** that the secretary's report be accepted as published in the February Newsletter. The motion was approved.

HEALTH & WELFARE: **Bernie Snow N1OQW** is still hospitalized and recuperating from pneumonia and **Vic N1OEH** reports that he has now been transferred to the Goddard Rehab & Kindred Hospital - 909 Sumner Street in Stoughton, MA 02072 – Room 112

OLD BUSINESS: There was no outstanding old business.

NEW BUSINESS: A motion was made by **Bruce NI1X** seconded by **Paul N1VTI** to extend the offer of one-year, dues-free membership to graduates of any WARC license class study group. A motion was made by **Bill N1FRE** seconded by **Paul KB1MTW** to renew the **WA1NPO** web domain for a five-year period at a cost of \$95.00. **Bruce NI1X** made a motion seconded by **Paul KB1MTW** to allocate \$600.00 toward the purchase of additional club jackets. Over 60 members have jackets at this time. All motions were approved. **Bill N1FRE** reported that the meeting room at the Whitman Public Library has been secured for the balance of 2007 monthly meetings. **Bob K1VU** volunteered to coordinate the WARC club listing with the ARRL.

CLUB ANTENNA ANALYZER LOCATION: Pine Street Clubhouse

NEW MEMBERS: **Sam N1WIG** submitted an application for membership on behalf of **Chris Querze N1JKO**. A motion to accept was made by **Bill N1FRE** seconded by **Paul N1VTI**. The motion was approved. Welcome to the WARC!

TECHNICAL TOPICS: **Jeff N1ZZN** gave an informative talk and demonstration on HD radio and XM satellite radio, which are becoming increasingly popular. **Bill KB1NPH** demonstrated a dynamo he has mounted on his bicycle to power a light and is looking for suggestions for charging batteries using this system.

TECHNICAL TOPICS - HD and Satellite (Broadcast) Radio By: Jeff Lehmann N1ZZN

Many of the larger AM & FM broadcast stations have recently been adding a digital radio system called "HD Radio." Another name for it, used mostly among engineers and enthusiasts is IBOC, which stands for In Band, On Channel. The digital signal is located in the same band, but not exactly on the same frequency as the regular analog signal. The digital signal is broadcast on both sides of the regular analog signal. For example, WBZ's analog signal is broadcast on 1030 kHz, and the digital is found on 1020 and 1040. The big selling point on this new system is that FM stations will have CD quality sound, and AM stations will have quality as good as analog FM. FM stations are also able to run a second (or third in some cases) audio stream, allowing for a wider variety of music to be played.



Jeff Lehmann N1ZZN
March meeting presentation

The system is explained in detail at this website: <http://www.hdradio.com/> along with an explanation of the system, a listing of stations using it is available.

As I mentioned at the meeting, AM stations are only allowed to run the system during the day, due to the skywave propagation that takes place at night. The HD signals have hurt my hobby of DXing the FM broadcast band somewhat, since a station running it will now occupy 3 normal frequencies instead of one. For example, 96.9 WTKK in Boston's HD signal covers up the previously clear frequencies of 96.7 and 97.1. There have been cases where the DX conditions have been good enough that signals have broken through the digital "hash." I have also received the actual HD signal from stations far away. One station that I received twice last summer during E-Skip conditions (the same conditions which allow distant contacts to be made on 6 meters) was 104.7 WRBQ located in Tampa, FL. (picture shows my radio receiving the signal of WRBQ-FM).



The HD radio that I demonstrated was the Boston Acoustics Receptor HD, which currently costs around \$250, and is sold at Radio Shack, and several other places.

See the Radio Shack's website:

<http://www.radioshack.com/product/index.jsp?productId=2260757&cp>

TECHNICAL TOPICS - HD and Satellite (Broadcast) Radio By: Jeff Lehmann N1ZZN Cont:

XM Satellite radio is the other new broadcast radio technology that I demonstrated at the meeting. A vast variety of just about any type of music is available, along with comedy, talk shows, old time radio, and baseball games. Some simulcasts of shows on regular radio like Art Bell are featured. Other shows are only broadcast on XM such as Opie & Anthony, which is uncensored.

Many of the actual music channels from XM radio are available on DirectTV, these are different from the music channels that are available on Comcast digital cable. XM's channels are Different from those, as many have DJs, allowing interaction with the listeners. One interesting feature that the 60s channel does, is recreate the sound of an actual AM radio station from the 60s. 1510 WMEX from Boston has been featured several times.



Jeff Lehmann N1ZZN
holding Delphi XM MyFi Radio

A list of all programming available is located on XM's website at <http://www.xmradio.com>

The service costs \$12.95 per month, if you wish to pay each month. There are also other plans available if you pay for a year or more in advance. That subscription is only for one radio, so if you wish to have multiple radios on the same account, the cost per month for those is \$6.99. The radio that I have is the Delphi XM MyFi. It is a portable radio that is able to record over 5 hours of programming, to allow you to record a specific favorite show at a specific time, or just record music that you can listen to later, while you are out of range of the satellites. The MyFi comes with kits that include a stand, power adaptors, and antennas for both home and the car. It comes with headphones and a clip on antenna for portable use as well. This specific radio costs around \$100, but there are many radios available for XM, costing more and less. See the Radio Shack website that has the price and a picture of the MyFi <http://www.myradiostore.com/portable/myfi-sa10113.html>)

The best reception comes from the SW direction, but there are also repeaters, which rebroadcast the entire XM signal to areas that may not have a clear view of the satellites. Most of these are located on buildings or towers in and around cities to allow better reception in and around large buildings. Reception from an installation in the car in our area is usually fine, unless I am driving in dense wooded areas, or next to large hills.

I hope those of you that were at the meeting enjoyed the presentation, and you can email me if you have any other questions. I always have the XM radio in the car, so feel free to stop by for a listen before or after a club meeting. – **Jeff, N1ZZN**

SPECIAL EVENT STATION: April 30, 2007 - East Coast Hurricane Awareness Tour – Special Event Station - P3 Hurricane Hunter aircraft - Quonset Point Air Station in Rhode Island. **Eleanor Vallier-Talbot** of the National Weather Service Taunton office is coordinating the event. **Rob Macedo KD1CY** is coordinating the Amateur Radio Communication volunteers. The Taunton TACGroup have volunteered to set up an HF station. This will be an all day event. More details at the April meeting.

RADIOGRAM TRAINING FIRST MONDAY OF THE MONTH

Shown at the Taunton Emergency Operations Center following the RADIOGRAM training held on the first Monday in March are standing L. to R. **David Souza W1DFS**, **Neal Harrington KB1LXL**, **Bob Barbour K1BAR** and **Don Burke KB1LXH**. Seen seated L. to R. **Win Richardson KB1OHV** (Net Control for the night), **Bruce Hayden N1IX** and **Greg Glynn W1VBF**.



Carlos Wharton WP4US was under the weather so a picture was hung on the wall by magic so that he was there in spirit if not in person.

TAUNTON RACES VOLUNTEERS

Also taking part in RADIOGRAM training at the Whitman Emergency Operations Center were **Paul Moss KB1MTW** and **Bill Hayden N1FRE** – who was Net Control for the night.

Paul KB1MTW is shown sitting at the Radio communication Portable Console where a computer is being set up and connected to the Whitman Town internet. The Amateur Radio Operators will then be able to install Echolink and access the SKYWARN Net via the New England Network during storm conditions.



Paul Moss KB1MTW
at the Whitman EOC

The next RADIOGRAM training session will be on Monday April 2nd. Listen in at 7:30 p.m. on the Taunton REPEATER 147.135 MHz PL 67 or at 8:00 p.m. on the Norwell REPEATER 145.250 MHz PL 77 and copy the messages from home. Even better –

come to the Whitman or Taunton Emergency Operations Center (EOC) where all are invited to join in and copy the three or four RADIOGRAM messages in a classroom setting – no pressure.

FLEA MARKET

April 1, 2007 - Framingham Annual Spring Flea Market \$5.00 at 9 a.m. \$25.00 per table.

NOTE: NEW LOCATION - Keefe Technical School – 750 Winter Street – Framingham, MA.

April 21, 2007 – New England Antique Radio Club - Flea Market – Manchester NH Bingo Center \$15.00 at 7:30 a.m. or \$5.00 at 8:30 a.m.

May 4th & 5th - Great news - NEAR-Fest will be held at the Deerfield, New Hampshire Fairgrounds located on Highway 43 in Deerfield N.H. on May 4th and 5th replacing Hosstraders.

WHITMAN AMATEUR RADIO PUBLIC SERVICE NET (WARPSN)

The **WARPSN** NET meets every Sunday morning at 8:30 a.m. on the Whitman REPEATER 147.225 MHz PL 67. Come join in and share your amateur radio related activities with the other area HAMS and short-wave listeners as well.

As part of our training, we encourage everyone to practice sending routine RADIOGRAM messages. In February we had four (4) sessions with an average of 10 area HAMS checking in each week and 9 messages were sent.



Checking in
with WA1NPO

AMATEUR RADIO EMERGENCY SERVICE (ARES) - UPDATE:

The Amateur Radio Emergency Service (ARES) is an ARRL affiliated program that provides amateur radio communication support in times of emergency. The ARES appointees are charged with providing training to develop experienced Net Control Operators and practice message handling.



Carl Aveni N1FY
March Meeting presentation

At the March meeting - **Carl Aveni N1FY** – the ARES South Shore District Emergency Coordinator, showed a DVD on an actual SKYWARN activation at National Weather Taunton during a thunderstorm. The ARES staff support SKYWARN and take advantage of the training Received from SKYWARN reporting activations during actual storm conditions.

Carl N1FY also praised the work by **Phil McNamara N1XTB** and **Richard Cuti N1HY** in developing an ARES Data Base for the Southeastern Massachusetts local section and encouraged members to sign up with ARES at <http://ares.ema.arrrl.org> - then under – EMa Policies – click on – join us. Many Whitman and Massasoit Club members are already ARES members and have volunteered to support the Emergency Management Agencies of the City of Taunton, along with the Town of Whitman and the Town of Bridgewater - as Radio Amateur Civil Emergency Services (RACES) operators / volunteers.

TECHNICAL TOPICS: **Bill Anstead KB1NPH** is looking for some technical help in converting his generator / headlight to a generator / headlight / battery charging and battery storage system that would keep his headlight lit when he stops at stop signs at night.

With the present system, the headlight goes out when the bike wheel stops turning. There were no details on the generator / headlight voltage at this time. This discussion continued after the meeting.



Bill KB1NPH
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WHITMAN AMATEUR RADIO CLUB, INC.

A Non-Profit Corporation Serving the Public in Time of Emergency



Post Office Box 48
Pine Street
Whitman, MA 02382

Telephone: (781) 447-1655
ARRL Club #0082
Club Call Sign: WAINPO

CLUB OFFICERS

MEETING SCHEDULE

Meetings are held on the first
Wednesday of each month

The next meeting will be held at the
Whitman Public Library, which is
located at 100 Webster Street
in Whitman, Mass.

Next Meeting

Wednesday, Apr. 4th at 6:30 p.m.
Whitman Public Library

President	Bruce	N1IX
V. President	Bill	N1FRE
Secretary	Roy	KB1CYV
Treasurer	Jeff	N1SOM
Director	George	KC1FZ
Director	Paul	N1VTI
Director	Jeff	N1ZZN

Editor	Bruce	N1IX
E-mail articles to:	ni1x@arrl.net	

Web Master	Jeff	N1ZZN
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Web Site: <http://www.wa1npo.org>

Club Repeater Station:	147.225 MHz (CTSS 67 Hz)	449.875 MHz (CTSS 88.5 Hz)
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*Whitman Amateur Radio Club, Inc.
P.O. Box 48
Whitman, Ma 02382*

