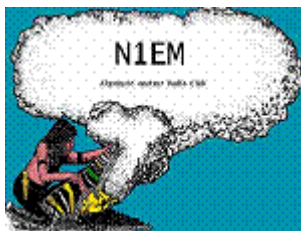


Algonquin Amateur Radio Club

Founded 1976



QRZ – The Newsletter for AARC members

www.n1em.org
December 2008

Meetings!

General club meeting: The next AARC meeting is scheduled for January 8th at 7:30 pm. The meeting will be in the library of the Marlborough Middle School on Thresher Drive.

MEMA: The next MEMA meeting is scheduled for January 20th at 7:00 pm in the Marlborough E.O.C. More MEMA information is available through the clubs web page link at www.n1em.org

Member news

Another successful event for AARC

On November 22nd, eleven local hams supported the Marlborough Emergency Management Agency by providing communications and other services for the flu clinic event. Led by Director Don Cusson, this event provided practice in preparation for a large scale emergency inoculation scenario. Our communication net was conducted on the AARC UHF repeater. We also tested sending messages from the flu clinic to the Massachusetts Emergency Management agency utilizing a 2 meter Winlink system.

Our net control was Ann KA1PON. Inside operations were Frank KIIX, and Eric KV1J. Providing communications on the buses and the handicap van were Quin K1ZFH, Bob N1QQP, and Ron W1PLW. Our heroes, providing yeoman service out on the freezing parking lot were Claire NIHW, Barrie K3BUZ, and Ed K1DIN. Dick N1ZCD managed the check-in and registration process for the flu shot recipients. Ken W1KAB was the event photographer.

Thank you to all that gave up their Saturday to support this event and especially to Claire, Barrie, and Ed for enduring the blistery conditions and directing traffic at the school entrance. It was a good event, although quieter than expected it helped us learn more on how to support a larger scale operation. We also demonstrated to the city our capabilities and that we are an integral part of the city's emergency response system.

This year's book donation has been selected

The AARC last year made a donation to the Marlborough City Library of the ARRL's Library book set. It contained about 14 ARRL books for the amateur radio operator. It is our intention to select a new book each year as a new donation to the library set. The winner this season, by popular vote at the October and November meetings was the ARRL's "Hands-on Radio Experiments". This book has been purchased and will be donated sometime in early January 2009.

Club Project set to begin

In October's meeting, Jim Hansen W1TRC gave a great demonstration of the ultrasonic power line detector he designed. Jim's design used a parabolic reflector and an ultrasonic receiver to pinpoint the ultrasonic sounds produced from arcing power line connectors. The ultrasonic signal received is mixed with an on-board oscillator to shift the signal down to frequencies we humans can hear. We have collected all electronic parts necessary for constructing this instrument and can begin assembling a detector early next year. Club members who want to help assemble this receiver should contact Tim Ikeda or Frank McInnis. Most construction work will probably happen on weekends with periodic status updates to be presented at regular club meetings.

New operator/logger intercom system unveiled

At November's meeting, Shack W1SHK and Ed K1DIN demonstrated a working model of their operator/logger intercom system. Designed for use in contests like Field Day, the intercom allows loggers to hear received audio and replies from the operator. The operator and logger can also communicate with each other through their independent headsets to verify exchange and contact information. Including separate volume and microphone gain controls allows each team member to tailor the system with their own operating preferences. Shack and Ed will provide updates on the design at future meetings.



Amateur Radio History and Fun Facts

1920-[The Ladies Of Early Radio](#)⁶ Perhaps the first woman to be both an announcer and an engineer was Eunice Randall. At the age of 19, she was broadcasting on 1XE, a Boston-area radio station owned by AMRAD. Soon after, she was deeply involved with both professional and amateur radio, building her own ham station, and ultimately became one of the first women in New England to hold the first class license (her ham calls were 1CDP, and later W1MPP).

In 1924, Amateurs received new bands at 80, 40, 20, and 5 meters. Spark transmission was prohibited on the new bands.

By 1926, Spark transmission was prohibited for use by Amateurs. The existence of the ionosphere (first proposed by [Oliver Heaviside](#)) is confirmed by the English physicist, [Edward V. Appellton](#) in 1924.

1927-The Radio Act of 1927 creates the [Federal Radio Commission](#). The 10 meter band is opened to Amateurs.

1927 - The Union (forerunner of (ITU) allocated frequency bands to the various radio services existing at the time (fixed, maritime and aeronautical mobile, broadcasting, amateur and experimental) to ensure greater efficiency of operation in view of the increase in the number of services using frequencies and the technical peculiarities of each service¹³ Amateur bands are established near 160, 80, 40, 20, 10, and 5 Meters, power limits to be set by each nation, and the [international intermediates prefixes](#) are abandoned.

1928 - The Federal Radio Commission announces that all old licenses issued by the Department Of Commerce will be terminated on August 31, 1928. Applications under the new licensing system must be submitted no later than July 31, otherwise the applicant must submit to re-examination. Beginning October 1, 1928, the new W and K prefixes were assigned to Amateurs.

1933-First Field Day Contest.

The Communications Act of 1934 created the [Federal Communications Commission](#). Amateur Licenses are reorganized into Class A, Class B, and Class C. In 1936 there about 46,000 licensed Amateurs.



Algonquin Radio Club - P.O. Box 258, Marlborough MA 01752

The Algonquin Amateur Radio Club (AARC) holds meetings on the second Thursday of each month. Meetings are open to all in the community with an interest in Amateur Radio. For directions, contact a club officer or visit our web site at www.n1em.org. Meeting times are listed in this newsletter. The AARC also operates the N1EM repeater on 446.675 MHz, -offset, PL 88.5 Hz. This machine is open to all licensed amateur operators. An informal open net on this repeater is conducted Sundays at 8:30 PM.

We publish QRZ monthly from September through June. The deadline for submissions is the 25th of the preceding month. Text files are preferred and can be mailed to newsletter@n1em.org. For further information about QRZ and the AARC please send inquiries to the address listed above.

Current club officers

President	Tim Ikeda (KA1OS)
Vice President	Ron Wood (W1PLW)
Treasurer	Frank McInnis (K1IX)
Secretary	Ann Weldon (KA1PON)
Newsletter	Brian Boda (W1KBA)