



# The ORC Newsletter

Official publication of the Ozaukee Radio Club, Inc. Mail all contributions to the editor, Tom Ruhlmann, W9IPR, 465 Beechwood Dr., Cedarburg WI 53012 (phone 262 377-6945). Permission to reprint articles published in any issue is granted provided the author and the Ozaukee Radio Club Newsletter are credited.



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Volume XXIV

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Number 3

## From the President

De Bill Howe III (KA9WRL)

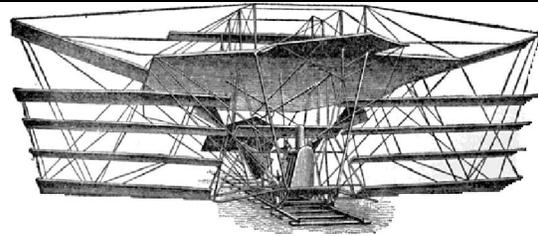
We all know about Hiram Percy Maxim and his relationship to Amateur Radio. How many of you know about his father, Sir Hiram Stevens Maxim?

I couldn't believe it, but his father was quite the interesting character! Mr. Maxim was an inventor, born in Sangerville, Maine, who immigrated to England and adopted British citizenship.



He was the inventor of the Maxim Gun, the first portable, fully automatic machine gun, and the common mousetrap.

He also laid claim to inventing the light bulb! Maxim developed and installed the first electric lights in a New York City building, the Equitable Insurance Company, in the late 1870s. However, he was involved in several lengthy patent disputes with Thomas Edison over his claims.



Sir Hiram also experimented with powered flight, but his large aircraft designs were never successful. However, his "Captive Flying Machine" amusement ride, designed as a means by which to fund his research while generating public interest in flight, was highly successful.

As a long-time sufferer from bronchitis, he also patented and manufactured a pocket menthol inhaler and a larger "Pipe of Peace", a steam inhaler using pine vapor, that he claimed could relieve asthma, tinnitus, hay fever and catarrh.



He also invented a curling iron, an apparatus for demagnetizing watches, magno-electric machines, devices to prevent the rolling of ships, eyelet and riveting machines, aircraft artillery, smokeless powder, an aerial torpedo gun, cof-

fee substitutes, and various oil, steam, and gas engines.

I didn't know much about Hiram Percy Maxim, but knew nothing about his father, Sir Hiram Stevens Maxim. Now I'll have to do some more research on MY father!

## Contesting

De Bob Truscott (W9LO)

March 14 is the date: 1:00 PM-8:00 PM local is the time: 80 Meters thru 10 Meters, plus VHF is the place: CW & phone are the modes. It's THE WISCONSIN QSO PARTY, of course, the contest which ORC won a couple of years ago, and we have the club plaque to prove it. We won it because individual contributions by many club members, some large, and some small, added up to the top score in the state. And we can do it again if we just remember how we did it the first time. With a club membership of over 100, we just might come up with enough entries to win a second plaque. We have the people; all we need is the participation. Join us for an afternoon of fun—you'll like it. Rules and forms at [www.warac.org](http://www.warac.org).

I received a note from W9KHH the other day regarding the CQ WW 160M Contest. He said he heard no ORC members during the contest. I plead guilty—I forgot about it. It could be that Ray was the only club member who participated. He had 108 Qs, 39 states, 3 provinces, and 2 DX multipliers. W9XT had 1017 Qs and 97 multipliers for a score of 295, 947 in the ARRL DX Contest. That one sounded like fun—sorry I missed it, too.

Coming up in March:

March 6 ARRL International DX, Phone Rules at [www.arrl.org/contests](http://www.arrl.org/contests)

March 14 North American RTTY Sprint Rules at [www.ncjweb.com](http://www.ncjweb.com)

March 14 WISCONSIN QSO PARTY Rules at [www.warac.org](http://www.warac.org)

March 27 CQ WPX SSB Contest Rules at [www.cqwp.com](http://www.cqwp.com)

See you March 14 at the WIQP.

Bob, W9LO

## Save the Drill

De Tom Ruhlmann (W9IPR)

I noticed at a meeting auction that Ed Rate (AA9W) bought a 12V drill with a dead battery for 50 cents. I thought, now what's he going to do with that and he said he was going to put a cord on it and run it from his car battery. Great idea so when I got home I located my 13.2 volt Sears drill in the junk box and for which I had two dead batteries and then I worked out the salvage plan.



First I removed the four screws that held the battery case together and studied the battery configuration.

Next I removed the Ni-Cd package of eleven "C" cells from the case and decided the two cells with the contacts and which poke up into the drill handle had to remain intact and that's where I had to connect the cord that would connect to the outside 12 volt battery. After cutting the 9 other cells away from those two I then proceeded to determine if any of the remaining cells could be reused. I did this by attempting to charge them with a constant 100 milliamperes of current.



After a couple of hours I noted three cells in the string measured about 1.4 volts and could be reused while the other six were shorted, measured about zero volts and were not reusable.

The drill draws approximately 5 amperes at 12 volts so use of lamp cord which is AWG# 18 is most adequate. Solder the lamp cord to the ears of the contacts where the battery connections were previously soldered as it is very difficult to solder to the battery stainless steel case material.

Note which wire is positive and which is negative as the polarity must be maintained for proper operation of the drill.



Now as the battery compartment is reassembled with the cord through the back of the case the secured case will hold the battery and contacts in place.



Now the converted battery unit is reinstalled in the drill and is ready for use as powered by an external 12 volt battery. Note the use of the Anderson Power Pole connectors

Use of the Power Pole connectors allows use of a variety of battery sources from the cigar lighter receptacle to gel/cell type of batteries with "fast on" connectors.



I also have another Power Pole cable with large alligator clips which allows use of automotive and marine batteries.



So when will I use it? I really don't know but it didn't cost much to save this drill and now, if I ever do need it, I got it.

What's your next junk box project?

## For Sale, Trade or ?

Hammarlund Model HQ-180A HF Receiver. It has been repaired re-tubed, realigned, and the clock has been fixed! This is the best model of that series and is now in top condition. The receiver is in near pristine condition and is a collector's model. We will be taking it to Dayton for sale at \$325 eBay price but is available for club members at \$300 firm. Contact Ed Rate AA9W for viewing. This receiver is Scholarship Fund property.

## Show & Tell

There was a great response to the "show & tell" program at the February meeting.



Tom Nawrot, AA9XK presented a NorCal 40A transceiver. This Transceiver had various accessories including internal batteries with a voltage regulator and solar panel charger.



Gary Sutcliffe, W9XT presented a computer controlled switch box. This switch box is connected via a USB cable and will switch both Microphone and Headsets between radios.



Jim Albrinck, K9QLP presented a self contained APRS tracker with GPS. The tracker operates on 144.39 MHz and its location is displayed at Google maps APRS.

Ed Rate, AA9W discussed the trouble shooting and repair of a HP pavilion 2000 graphics chip. The repair included removal of the mother board and soldering of the graphics chip to the mother board.



Bill Howe, KA9WRL presented a regenerative radio. The regenerative radio receives from 4 to 15 MHz and was co-designed by Andy Ellison, KA9DOL.

## Upcoming Events

The Post Everything Party is March 26th – and will be catered by Prime Minister of Mequon. Again it will be hosted at the Legion hall in Grafton and the cost is \$12 per person. Send your check to Nels Harvey to reserve your place at the table.

Cocktails at 6 pm and dinner at 7:15pm.

The dinner includes: Pepper Steak, Chicken Dijon and Tilapia; salad, mashed potatoes, rice, vegetables and appetizers and coffee.

The cost is \$12.50/person \$25.00/couple. Make payments to Nels or if you wish via my address: 4808 W. Hiawatha Drive, Mequon, WI 53092.

Please make checks payable to ORC and let us know your attendance by March 19th. RSVP to me at: [paul.xgman@gmail.com](mailto:paul.xgman@gmail.com). or my cell 414-640-1143.

It should be a good time and great food!!

73's Paul (KD9FM)

## Club Static

Cindy (KA9PZG) and Skip (KA9DDN) Douglas have recruited an offspring into the ranks of amateur radio. Their son James passed his Technician Class exam and is now licensed as AB9VH.

## Orlando “HamCation”

De Tom Ruhlmann (W9IPR)

I did make it to the big Swapfest in Orlando in February with a couple of other “HAM”s from the trailer park but it was rainy and cold.

Got there before noon on Friday and stood in the rain with others waiting for the gates to open and the flood of good deals. However the rain prevented the outside vendors from displaying their good stuff so the rest of the day

was spent inside at the amateur and commercial vendor's buildings.

Saturday was a bit more successful. It was dry but cold but not so cold as to prevent looking for those elusive good deals. While scouting the area I did visit with Leon Rediske (K9GCF) and he too is looking forward to the warmth of Florida. We have had nothing to shovel but it has been 20 degrees below normal and freezing overnight occasionally.

The net result? This year I bought more at Harbor Freight than at the HamCation but there is always the ORC May and September swapfests and the Orlando HamCation next year.

## Editor's Comments

The newsletter is one way we share what's happening and who is doing what. If you have a project or a radio related experience, however small, take a moment to jot down a few notes and a photo and e-mail them to me for the newsletter. Others are interested. If you have been reading the newsletter you must have been interested in the activities of the others and the ORC. It's time to share your experiences or the newsletter could eventually become little more than publication of the meeting minutes.

## Minutes— Feb. 10th, 2010

De Patrick Sullivan (KC9LRK)

Bill Howe, KA9WRL called the meeting to order at 7:35 PM. Introduction of all present followed.

### ANNOUNCEMENTS:

Mike Yuhas, AB9ON initiated the election for the Ham and Turkey of the year and ballots were passed out.

Ed Rate, AA9W announced the sale of two 100 W. Audio tubes on eBay in support of the scholarship fund.

### PROGRAM:

Show and Tell

Gary Sutcliffe, W9XT presented a computer controlled switch box. This switch box is connected via a USB cable and will switch both Microphone and Headsets between radios.

Jim Albrinck, K9QLP presented a self contained APRS tracker with GPS. The tracker operates on 144.39 MHz and its location is displayed at Google maps APRS.

Tom Nawrot, AA9XK presented a NorCal 40A transceiver. This Transceiver had various accessories including internal batteries with a voltage regulator and solar panel charger.

Ed Rate, AA9W discussed the trouble shooting and repair of a HP pavilion 2000 graphics chip. The repair included removal of the mother board and soldering of the graphics chip to the mother board.

Bill Howe, KA9WRL presented a regenerative radio. The regenerative radio receives from 4 to 15 MHz and was co-designed by Andy Ellison, KA9DOL.

### 50/50 RAFFLE RESULTS:

Ray Totzke, W9KHH won the 50/50 raffle this evening.

### AUCTION

Stan Kaplan, WB9RQR and Ed Rate, AA9W ran the auction. Some of the items acquired by bidders included an Hp printer, computer speakers, CAT 5 cable, zip drive, floppy drive, Linux software, calculators and a powered net work hub.

### MINUTES:

Minutes for the Jan 13, 2009 meeting were accepted. Mike Yuhas, AB9ON motioned to accept as written, and David Barrow, N9UNR

seconded the motion. 100% vote to accept then followed.

#### **TREASURER'S REPORT:**

David Barrow, N9UNR, motioned to accept the treasurer's report subject to review. The treasurer's report was presented by Nels Harvey, WA9JOB. Mike Yuhas, AB9ON seconded the motion and it was followed by a 100% vote in favor.

#### **REPEATER REPORT:**

Mark Tellier, AB9CD, indicated that the repeaters are working.

#### **COMMITTEE REPORTS:**

The Post Everything party will be held on Friday March 26<sup>th</sup>.

The May 1, 2010 Swapfest is all set to go and will be held at Circle-B Recreation Center on Hwy 60. The event is listed on the ARRL web site and many brochures have already been circulated at other Ham Fests in the region.

The Corn Roast and Light House events will be held on August 21, 2010 in Upper Lake Park in Port Washington.

The AES "Superfest" will be held on April 9<sup>th</sup> and 10<sup>th</sup>, 2010 at the AES building on 5710 West Good Hope Road in Milwaukee.

**OLD BUSINESS:** None

**NEW BUSINESS:** None

**ADJOURNMENT:** Kent Christiansen, N9WH motioned for adjournment, it was seconded by David Barrow, N9UNR and a 100% vote in favor followed.

#### **MEMBERS ATTENDING TONIGHT'S MEETING:**

Bill Howe, KA9WRL, Patrick Sullivan, KC9LRK, Ron Yokes, W9BCK, Chuck Curran, W9POU, Gary Sutcliffe, W9XT, Ken Boston, W9GA,

Nancy Stecker, KC9FZK, Ray Totzke, W9KHH, Mark Fielkow, KB9XE, Todd Fast, N9DRY, Terry Koller, KA9FM, John Thielen, WA9KNY, Mark Tellier, AB9CD, Tom Nawrot, AA9XK, Julia Nawrot, KB9WBQ, Michael Eibs, KC9QNN, Steve Cotey, KC9QNO, Nels Harvey, WA9JOB, Jim Albrinck, K9QLP, Ed Rate, AA9W, Kent Christiansen, N9WH, Dave Barrow, N9UNR, Stan Kaplan, WB9RQR, Gary Sharbuno, W19M, Mike Yuhas, AB9ON and Tom Murtaugh, W9VBQ.

## **AGENDA**

*March 10, 2010*

1. Call to order – Bill Howe (KA9WRL)
  2. Introductions.
  3. Announcements, Bragging Rights, Show & Tell, Upcoming events, Etc.,
  4. Program:
  5. Fellowship Break
  6. Auction.
  7. Acceptance of Minutes as printed.
  8. Treasurer's report – Nels (WA0JOB).
- 
9. Repeater report – Mark Tellier (AB9CD)
  10. Committee reports.  
May 1 - Swapfest -  
PEP –  
Sept Swapfest –  
Other -
  11. OLD BUSINESS
  12. NEW BUSINESS
  13. Adjournment to ?

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### **The ORC Newsletter**

465 Beechwood Drive  
Cedarburg WI\* 53012

### **First Class**

## **Next ORC Meeting**

**Grafton Senior Citizens Center**

**1665 7<sup>th</sup> Avenue, Grafton**

**Wednesday, March 10<sup>th</sup>**

**7:30 PM**