



# 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.



ORC Repeaters on 146.97, 224.18 and 443.750 MHz -

Call sign W9CQO

Web site: [www.ozaukeeradioclub.org](http://www.ozaukeeradioclub.org)

Volume XXIV

February, 2011

Number 2

## From the President

De Dave Barrow (N9UNR)

It is a high honor and awesome responsibility to serve as the president of the Ozaukee Radio Club, Inc. I have been a member since January of 1993 (six months before I took the Technician Exam). I have watched nine very capable presidents during my membership. Those are might big shoes to fill. I am very fortunate that there are quite a few ex-presidents still active in the club who I hope will keep me on the straight and narrow. I'll do my best.

I was very sad to hear of Dick Scarvaci's (K9CAN) short illness and death on January 23, 2010. He was our president in 1989, fixed a lot of members' radios (and CRTs) and helped keep our repeaters functioning. I considered Dick a good friend and spent a fair amount of time in his kitchen and basement chatting about radio and other things.

We had a good first board meeting. Due to the kitchen remodeling I was unable to have it at my home so we met at the Roadhouse. Mark Teller couldn't come as he was sick. Kristian Moberg did join us. The minutes are published elsewhere in the newsletter.

We have a number of committees: Audit, Awards, Club History, Corn Roast, Field Day, May Swapfest, Membership, Newsletter, Nominations, Post Everything, Programs, Public service, Scholarship, September Swapfest, Training, and Youth. We can also create any others that would be useful. What would YOU like to serve on? Lend a hand (and mind and body) to

make ORC more successful. Contact me to volunteer.

During my career I have belonged to a number of organizations. I can say, without qualification, that the ORC is the finest of all. I have never asked a question of another member that has been ignored. I always get one of three answers: (1) the answer, (2) I don't have that at the moment but I'll get back to you soon, or (3) I don't know anything about that but {name} is our expert – contact her/him at (contact info). The best part of the ORC is the friendships I have made here. I hope that you all appreciate what a wonderful group we have.

It was with mixed emotions that I opened a letter from Mark and Naomi Potash. I was happy that they renewed their membership but sad that their mailing address is now 102 Half Moon Circle, Hypoluxo, FL 33462. As you know Naomi graduated from law school last year and has just received her certification as a Florida Mediator. I predict that she will be very good at that. We will miss all of the contributions that Mark and Naomi gave to ORC.

## Dick Scarvaci (K9CAN) SK

I moved to Milwaukee in 1984 and joined the ORC in October of that year. I worked for Continental Can and noted a "neat" license plate one day in Cedarburg, it was K9CAN.

As time went on I got to know Dick via the programs he gave at the meetings on the topic of batteries (he worked at Johnson Controls), contesting, and repeaters, to name a few. When the Club debated building a 220 repeater, Dick was one of the loudest critics of the idea. He

was much opposed to a repeater on a band that most hams didn't have access to at the time. As Mark, WA9JMS, Joe, W9WQ, and I struggled to get the 220 on the air; help came from an unlikely source, K9CAN. Dick worked his magic, even had the system at his house and the antenna on his tower, for awhile. Later he installed a 10 meter link to "add interest" and get people to use it.



**Dick (K9CAN) has spent many hours assisting Nels and others developing and tweaking the ORC repeaters and various other equipment.**

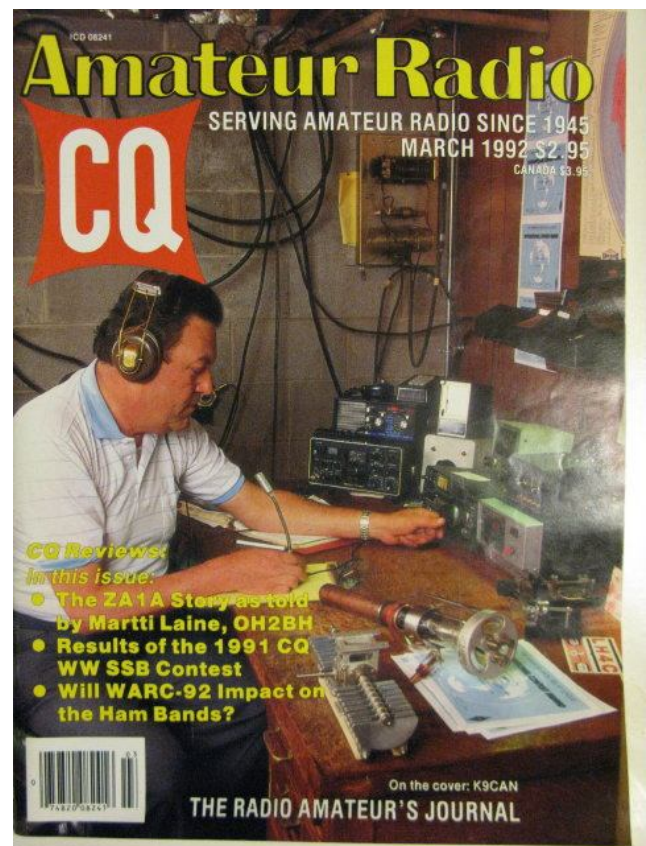
Dick call sign became for me something other than a "tin can". It became a symbol of "CAN DO". When I debated going for General, Dick said "All you have to do is pass the 13 wpm, Jim. Put down the Mike and use CW for awhile, you CAN do it". And I did. Joe, AA9HR, and I had CW QSOs on 10 meters to get our speeds up to 13 wpm. When I passed the test, Dick was the VE and congratulated me and urged me to keep going. Gary, WI9M, and Dick pushed me to take the Advanced, and I did. I told Dick that I wasn't ready, but Dick said "You CAN do it!" The same went for EXTRA. Dick was there pushing and saying "You CAN!"

When I served as Repeater VP, Dick was always ready to help. When I told Dick that I couldn't put up a decent HF antenna due to some "local zoning rules" by the "War" department, Dick again introduced me to the random wire antenna and the intricacies of tuning it.

Again, "It can be done". When my rig took a bath on Field Day weekend, Dick took the time to explain what needed to be done to salvage the rigs.

Like us all, Dick wasn't perfect. He never responded to calls for help on a contest weekend. Contests were always #1, numero uno. Dick and I had a wager on how much you could do with a converted SSB, 23 channel CB set on 10 meters. It took me 3 years, but I made CQ DX and DXCC and WAS on that little rig. Contests helped me do it, too. Thanks again, Dick. You told me to think "I CAN" and it worked.

Dick (K9CAN) was an avid CW contester and was even featured on the cover of CQ magazine in 1992.



All was not radio, however. Dick loved sports on TV. He was an avid follower of any team from Wisconsin. Being from Cincinnati, Dick and I bantered back and forth all the time about Brewers vs. Reds; Packers vs. Bengals; Wisconsin and Marquette vs. Xavier. Since I was

never an Ohio State or University of Cincinnati fan, I rooted for the Wisconsin teams. Dick and I suffered together when they lost to OSU and UC.

The thing that really hit home about Dick's passing was the other day, while driving, I put out a call on 220 and asked if anyone was around. I then realized that the friendly voice on 224.18 was not around to answer any longer. His key was now silent. He is now in that big DX station in the clouds with no QRM or QRN, no QSB, and always great sunspot cycles. May he rest in peace.

De Jim Albrinck (K9QLP)

I am saddened by the passing of my long time friend Richard "Dick" Scarvaci. I first met Dick at Globe Union in 1972 when I hired in following lay-off at Delco Electronics. We both worked in the marketing department of the "gell-cell" lead acid battery group. I just assumed Dick was an electrical engineer based on his broad knowledge of electronics, circuits and electrical equipment. I was amazed to learn electronics was actually his hobby and his degree was in marketing. Dick and I shared many hours traveling together to various trade shows and developing marketing and technical product literature. It was Dick who revitalized my interest in HAM radio and introduced me to the Ozaukee Radio Club. I have learned much from Dick and enjoyed both his professional and personal friendship. Many times he has helped me promote a cause or solve a problem. I will miss his presence and familiar voice.

De Tom Ruhlmann (W9IPR)

## New ORC Officers for 2011

de Janice Hoettels, KA9VVQ

The Ozaukee Radio Club rang in the new year with the election of new club officers. Succeeding Bill Howe, KA9WRL, as president is Dave Barrow, N9UNR. Continuing at their previous positions are Chuck Curran, W9POU, first vice president; Jim Albrinck, K9QLP, second vice president; and Mark Tellier,

AB9CD, repeater vice president. Nancy Stecker, KC9FZK, takes over as treasurer from Nels Harvey, WA9JOB, who now moves over to secretary, the position previously held by Patrick Sullivan, KC9LRK. The Ozaukee Radio Club rang in the new year with the election of new club officers. Succeeding Bill Howe, KA9WRL, as president is Dave Barrow, N9UNR. Continuing at their previous positions are Chuck Curran, W9POU, first vice president; Jim Albrinck, K9QLP, second vice president; and Mark Tellier, AB9CD, repeater vice president. Nancy Stecker, KC9FZK, takes over as treasurer from Nels Harvey, WA9JOB, who now moves over to secretary, the position previously held by Patrick Sullivan, KC9LRK.



The 2011 ORC officers: *front row (left to right)*: immediate past president, Bill Howe, KA9WRL; treasurer, Nancy Stecker, KC9FZK; president, Dave Barrow, N9UNR; secretary, Nels Harvey, WA9JOB; *back row (left to right)*: repeater vice president, Mark Tellier, AB9CD; first vice president, Chuck Curran, W9POU; and second vice president, Jim Albrinck, K9QLP.



Bill Howe (KA9WRL), President for the 2009 and 2010 years passed the gavel to Dave Barrow (N9UNR) for the 2011 year.

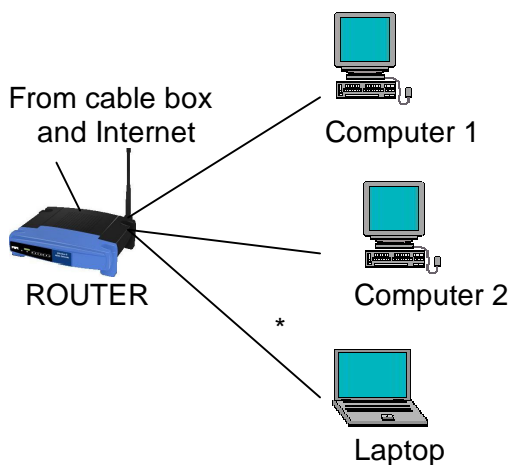
Congratulations to all the 2011 officers! And special thanks to the 2010 officers for all their

hard work in making the past year a successful one.

## Home Networking--No. 156 de Stan Kaplan, WB9RQR

If you have more than one computer at home, it is useful and worthwhile to network them. Even two: two desktops, a desktop and a laptop, or two laptops. It makes transferring files sooooo much easier, and allows you to use one machine to back up the other. Just like an ARES/RACES unit that has access to two repeaters. It cannot be beat!

What will it cost? Prudent shopping at swapfests can cut the cost considerably, down to well under \$50 including cables. You need a router – get at least a four-port model, even if you have only two computers. Make it a combination four-port and wireless access router for top flexibility. If one of your machines is a laptop with wireless capability, you can go cable-free with it. Here is a block wiring diagram, assuming three computers including a wireless laptop.



Assuming a wireless router and a laptop with wireless capability, the connection at (\*) can be wired, wireless, or even both. For example, my office laptop sits on the desk next to the keyboard and screen of my desktop machine. The laptop is cable-connected to my network, because a cable connection is faster than wireless. However, if I need to use the laptop in the living room or even out on my deck, I simply

unplug the cable connection and move the laptop to where it needs to be used. The wireless connection takes over when I unplug the cable, and I miss nary a beat.

So, what do you need? Four cables are shown above – one from the cable box to the router, and one from the router to each computer. Best to use Cat 5e cables for best performance. If you are up to it, you can custom-cut a couple of surplus hanks for your installation and then install the proper connectors on the ends. Pay attention to the proper wiring of the ends. The wires inside the cables are color-coded and insert into the connectors in a very specific order. You will also need a crimping tool (or you can borrow mine).

Now, there are other possible configurations. You can get a wireless card that pops into any desktop computer. Alternatively, you can also purchase a wireless “dongle”, which looks just like a thumb drive and it plugs into a USB port. When plugged in and properly installed, it makes a desktop (or a laptop that did not previously have wireless capabilities) into a wireless machine. A good alternative if you don’t relish having to pull cables. On the other hand, cabling your network will generally give you the fastest connections.

There are even configurations that don’t require a router, but I do not recommend it. The router, be it wireless or cabled, injects a serious level of security into your network. It represents a hardware firewall between you and the Internet. Even with a software firewall (which we all use, correct?), a hardware firewall represents a strong deterrent to bad stuff making its way into your network. We can use all the safety we can get.

So, think about it. There are lots of advantages. I will close with an example. I have six computers in my network, three in our office and three in the basement. Each has its purpose and each is used. In the office, my wife’s computer, my main computer and a laptop. In the basement, the Winlink laptop (on 24/7), the unit on my HF station desk, and a machine that always has its covers off – for preparing hard drives for the ARES/RACES machines I rebuild

for use all over the state. Each has a C:, D: and E: partition, with everything I create going on the E: partition. If I create a new document, for example this article, at some stage in the article's development I back it up. How? I use a program called GoodSync, which I have written about before. With a few keystrokes, the copy I newly created on my main machine is backed up to all five of the other machines, in a couple of seconds. In this way, all six E: partitions are exact copies of each other. Any one or more machines could crash and I will have lost nothing. That presents me with a great deal of confidence should a catastrophe occur. Oh yes, by the way, one machine is running Windows 2000 Professional, four run Windows XP Professional, and one sports Windows 7 Home Premium. The file system on one is NTFS, and all the rest use FAT32. Computers on a network don't care what file system or what operating system the others are running, when transferring files. Happy computing!

## New Members

De Janice Hoettels (KA9VVQ)



**Rick Whitehead, AB9XI**

Meet Rick Whitehead, AB9XI, a new member of the Ozaukee Radio Club.

Rick has had a very busy 8 months as a new ham radio operator. First, he obtained his technician class license last May, then his general class license in August, and finally his extra class license in September! Not only did he zip

through the licensing process, but he also successfully completed testing to become an ARRL VE. To top things off, he also completed two National Incident Management System (NIMS) courses as part of his ARES/RACES training.

Rick was first introduced to ham radio by the father of a high school friend. But it wasn't until recently that ORC member Brian Skrentny, N9LOO, with whom Rick works, rekindled his interest in obtaining a amateur radio license.

Rick's shack includes a Kenwood TS-590S feeding a 31-foot vertical antenna. Current interests on the HF bands are SSB and PSK-31. For VHF/UHF repeater work, he uses a Yaesu FTM-350R and a Yaesu VX-8DR.

Rick resides in Merton with his wife, Sue, two stepchildren, Jeff (age 22) and Alison (age 19), and son, Ryan (age 12). He works at Wonderbox Technologies in Mequon where he is Director of Information Technology. His other hobbies include geocaching and boating.

Welcome to the ORC Rick!

## 50 kc Calibrator

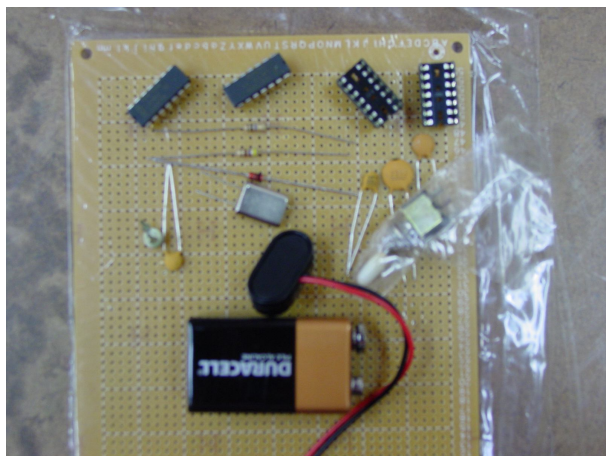
de Chuck Curran (W9POU)

For the last 4-6 years I have had many occasions when I wished I had a portable crystal calibrator for various projects. Quite often, I rebuild old tube type radio's, most without a calibrator of any sort. When I am re-assembling these radio's. I always want to get the indicated frequency on their dials set as accurately as possible. Without a calibrator this was always a weak point in my rebuilds.

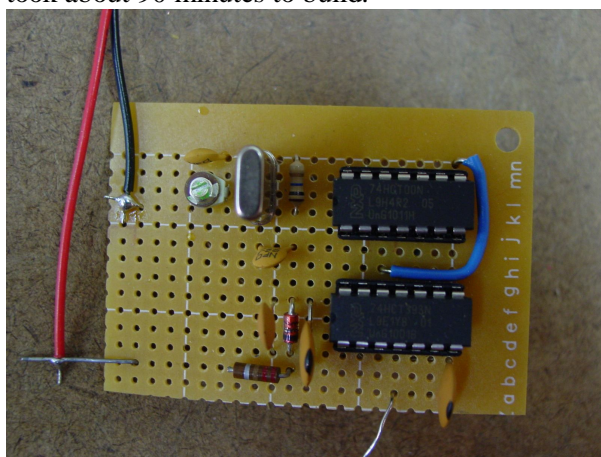
I decided to simply Google "Crystal Calibrator". I quickly found a circuit designed by N1HFX. You can find it too, by simply Googling "N1HFX Crystal Calibrator", it will pop up first on the list. After reviewing this circuit, it appeared to be exactly what I was looking for, so I decided to try building it. It uses two integrated circuits and an 8 MHz crystal, readily available at Mouser Electronics

I went on line with the parts list, after reviewing what I had on hand. I needed to buy basically everything.

The cost came up to about \$4.50, for most of the parts, without the battery clip and the plastic enclosure. OK, that looked pretty good, so I ordered the parts. The picture shown below shows the parts I needed, plus a circuit board I had picked up at a Ham Fest that had the proper hole spacing for the IC sockets

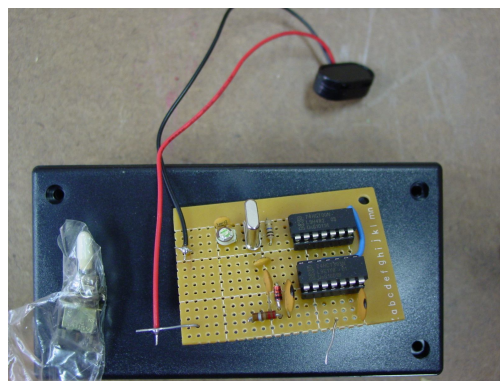


I chose to use a 50 pf variable capacitor in parallel with the cap that is used to set the oscillation frequency. This option, described by the circuit designer allows you to adjust the final frequency against a standard such as WWV and get spot on. I also chose to use an option that provided a calibration output every 50 KHz as opposed to the standard every 100 KHz – no additional parts are required, so why not? The finished circuit is shown below, and it only took about 90 minutes to build.



I hooked it up to the 9 volt battery and immediately got an output signal. It was way off frequency, so I connected the output to my Tek 2245A scope which has frequency measuring capabilities. I simply made

the proper adjustment of the variable capacitor and brought it to a point close to where I can now beat it against WWV and be within a few KHz when I start the final calibration adjustments. Next it goes into the plastic enclosure and the switch will be wired in, I guess that is for next weekend!



## Committee Appointments

The following members have been appointed by the President and approved by the Board of Directors for the 2011 ORC year.

Club Trustee	Ed Rate, AA9W
Fall Swapfest	Tom Ruhlmann W9IPR and Ed Frac AA9WW
Lighthouse Activation	Tom Nawrot AA9XK chair, Bill Howe KA9WRL, Loren Jentz N9ENR, Tom Murtaugh W9VBQ
Newsletter Editor	Tom Ruhlmann W9IPR
Public Information Officer	Janice A Hoettels KA9VVQ
Scholarship Committee	Ed Rate, AA9W Chair, Tom Ruhlmann W9IPR, Mark Tellier AB9CD
Spring Swapfest	Bill Howe KA9WRL and Tom Trethewey KC9ONY
Uniforms	Ed Frac AA9WW
Webmaster	Brian Skrentny N9LOO
Youth	Bill Howe KA9WRL chair, Loren Jentz N9ENR, Tom Murtaugh W9VBQ, Tom Ruhlmann W9IPR, Tom Trethewey KC9ONY

## February Meeting Program

At the November meeting Tom Macon K9BTQ, President of the West Allis Radio Club facilitated an interesting discussion about our hobby, actions that our clubs have taken - or should take - to introduce young folks to the hobby ... etc. There was a consensus that engaging local high school science teachers would be a good idea.

Following up on this, at our next meeting (February 9th), Gary Stresman, science teacher at Nicolet High School and Executive Director of the Wisconsin Science Education Foundation will share his experiences. Gary oversees high school science fairs all over the Wisconsin - especially the big Badger State Science & Engineering Fair. He will talk about these fairs, the students, science fair judging, and tips on working with and motivating 21st century science-minded young people.

Let's give Gary a warm ORC welcome. I think I have a brand new Technicians book to present to him!

### Minutes of the January 19 2011 Ozaukee Radio Club Board Meeting

By Nels Harvey, WA9JOB, Secretary.

**Attendance:** Dave, N9UNR, Ed, AA9W, Jim, K9QLP, Nancy, KC9FZK, Chuck, W9POU, Bill, KA9WRL, Nels, WA9JOB, and guest Kristian, KC9TFP

**Call to order:** The meeting was called to order at 6:30 P.M. at the Roadhouse, President Dave Barrow presiding.

Dave nominated Ed Rate, AA9W, to continue as Club Trustee. Seconded by Jim, K9QLP, and passed unanimously.

Dave appointed Ed Rate, AA9W, Tom Ruhlmann, W9IPR, and Mark Tellier, AB9CD, to the Scholarship Committee.

Jim, K9QLP, recommended sending the Newsletter to the membership by direct e-mail. Chuck, W9POU, will do the mailing for the Club.

Discussion was held regarding contacting members that haven't been attending meetings. Telephone calls and postcards were considered, and it was decided to bring it up at the Club meeting.

Also to be brought up at the meeting are the Field Day Chairman appointment and to consider if we will continue the August Corn Roast.

VP. Chuck, W9POU, is to appoint a Program Chairman.

The ARRL provides a course for a new position in the Club of Public Information Officer. A small budget was set aside for the course if the PIO position is filled and that person wants to take the course.

The Club website position has been handled by Mike, AB9ON. Brian, N9LOO, has expressed interest in the position.

Newsletter Editor will remain Tom, W9IPR. Ed Frac, AA9WW, will continue as Jacket and Hat contact, Youth outreach will continue with Bill, KA9WRL, Tom, W9IPR, adding Tom, KC9ONY, Loren, N9ENR, and Tom, W9VBQ.

The Lighthouse Activation Committee will be Tom, AA9XK, Tom, W9VBQ, Loren, N9ENR, and Bill, KA9WRL.

A budget of up to \$200.00 was given Bill, KA9WRL, to find suitable fans for the Grafton Senior Center Exercise Room.

Adjourned 8:16 P.M.

### Minutes of the January 12, 2011 ORC Membership Meeting

by Patrick Sullivan (KC9LRK)

Bill Howe, KA9WRL called tonight's meeting to order at 7:30 PM. Introduction of all present followed.

### ANNOUNCEMENTS AND BRAGGING RIGHTS:

Mark Tellier, AB9CD announced a new swapfest in Milwaukee which will be on Feb 19th at the channel 10 auction building location on 125th and Townsend Street Milwaukee.

Bill Howe, KA9WRL demoed a TV security camera from the last months auction. The camera has many

top end features. More of these cameras are available, if interested, contact Ed Rate AA9W.

Bill Howe, KA9WRL showed a portable ham station. Bill has generously offered to have this station available for use before the ORC meetings.

**PROGRAM:** none

**50/50 RAFFLE RESULTS:**

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

**AUCTION**

Stan Kaplan, WB9RQR and Jon Gilmore KB9RHZ ran the auction. Some of the items acquired by bidders included a 12V battery charger, a WB9RQR power supply, Apple speakers, Netgear 4 port switch, extension cord, ARRL 2000 handbook, wheels, magnets, phones, 50' of coax cable, Ethernet cables, RTTY ASCII Key board, Video switch, business band radios, lights, bulk head fittings, wire, battery charger, spot lights, wireless laptop card, wireless printer adapter, 120AC timer, antenna mount, antique camera and a bag of resistors.

**MINUTES:**

Mike Yuhas, AB9ON motioned to accept the minutes as written. Chuck Curran W9POU seconded the motion. A 100% vote to accept then followed.

**TREASURER'S REPORT:**

The treasurer's report was presented by Nels Harvey, WA9JOB. Mike Yuhas, AB9ON motioned to accept the treasurer's report subject to audit. Tom Murtaugh W9VBQ seconded the motion and it was followed by a 100% vote in favor.

**REPEATER REPORT:**

Mark Tellier, AB9CD reported that the repeaters are working fine, with no reported issues.

**COMMITTEE REPORTS:**

Fall Swapfest, Tom Ruhlmann W9IPR The application for ARRL approval of the fall Swapfest has been submitted. The fall Swapfest will be on Sept 24.

**OLD BUSINESS:** None

**NEW BUSINESS:**

Annual Elections - Mike Yuhas, AB9ON, Chair of the Nominating Committee presented the ballot for 2011 elections. The ballot for the 2011 elections is as follows: President David Barrow N9UNR, Vice President Chuck Curran W9POU, 2nd Vice President Jim Albrinck K9QLP, Repeater Vice President Mark Tellier AB9CD, Secretary Nels Harvey WA9JOB, and Treasure Nancy Stecker KC9FZK.

All the candidates were introduced, and then Bill Howe KA9WRL opened the floor to additional nominations for all offices. No nominations were presented. Stan Kaplan, WB9RQR motioned to accept all nominated candidates in a single vote. This was seconded by Jon Gilmore KB9RHZ. The floor voted 100% in favor, thus completing the elections with the people listed above becoming the club officer's.

The Nominating Committee appointed Ed Rate AA9W as club trustee.

**ADJOURNMENT:**

Stan Kaplan WB9RQR motioned for adjournment; it was seconded by James Douglas III AB9VH and a majority vote in favor followed.

**MEMBERS ATTENDING TONIGHT'S MEETING:**

Attending tonight's meeting were 4 quest David L. Kuester KC9RWJ, James Douglas III AB9VH, Ben Smith, John Strachota W9FAD and 33 members Mark Tellier AB9CD, Jim Albrinck K9QLP, Mark Fielkow KB9PXE, Patrick Sullivan KC9LRK, Todd Fast N9DRY, David Barrow N9UNR, Ray Totzke W9KHH, Nels Harvey WA9JOB, Nancy Stecker KC9FZK, Joe Sturmberg KA9DFZ, Ron Yokes W9BCK, Bill Howe KA9WRL, Tom Murtaugh W9VBQ, Mike Yuhas AB9ON, Janice Hoettels KA9VVQ, Stan Kaplan WB9RQR, Terry Koller KA9RFM, Tom Trethewey KC9ONY, Chuck Curran W9POU, Robert Frank N9NRK, Tom Ruhlmann W9IPR, Jon Gilmore KB9RHZ, Ed Rate AA9W, Ken Boston W9GA, Rick Whitehead AB9XI, Antonio Bustamante KC9TDC, Brian Skrentny N9LOO, Kent Christiansen N9WH, Jon W. Sanfilippo WW9JON, Paul Given N9PG, Robert Krubsack WQ9N, Cindy Douglas KA9PZG, PeterJ. Schmidt KB9URH



## **AGENDA**

*February 9, 2011*

1. 7:00 – 7:30 PM – Network & Rag Chew
2. Call to order – Dave Barrows (N9UNR)
3. Introductions.
4. Announcements, Bragging Rights, Show & Tell, Upcoming events, Etc.,
5. Program:
6. 50/50
7. Fellowship Break
8. Auction.
9. Acceptance of Jan Membership Minutes
10. Acceptance of the Jan Board Minutes
11. Treasurer's report – Nancy Stecker, KC9FZK
12. Repeater report – Mark Tellier, AB9CD
13. Committee reports.  
Other:
14. OLD BUSINESS
15. NEW BUSINESS  
Continue Corn Roast?  
Attendance follow-up? What interval?  
Board meetings by email?
16. 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, Feb. 9<sup>th</sup>**

**7:00 PM – doors open**

**7:30 – Membership Meeting**