



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 -

Callsign W9CQO

Web site: www.ozaukeeradioclub.org

Volume XXIV

May, 2011

Number 5

The Prez Sez ...

De Dave Barrow (N9UNR)

What is the ORC? I have always felt that it is more than just a group of radio enthusiasts. I have found great friendships and support in many areas. This is why I support name tags for everyone (I don't know about you – but I have a terrible time remembering names – must be “some-timers”.) Within our “community” there is tremendous talent and ability – not only with communication knowledge but most other things as well. I always learn when I take the time to chat informally with members.

Have you seen the NEW ORC web site??? Brian Skrentny N9LOO has done a fantastic job presenting the club to the world (and to us). He has also made it accessible by mobile devices. He's put it on facebook! What a great job! Tell him thanks when next you see him.

Congratulations to our “name tagger” Antonio Bustamante KC9TDC who upgraded to General last month.

We picked up two new members, Glenn Classey who hasn't taken his exam yet, and Ben Smith KC9TSM, who passed both the Tech and General I one sitting! We also got a renewal from Dan Brophy AA9QR who hasn't been a member for a few years. Please make all three as welcome as possible.

I couldn't contact Ben Smith KC9TSM by email or phone (I'm blind in one eye and can't see out of the other) so, since he lives in Fredonia, I emailed Antonio Bustamante KC9TDC and asked him to get the correct info from Ben. Two hours later Antonio emailed the info. We have GREAT members!

HELP WANTED! We need a 1st Vice President. This person coordinates the “internal” activities that keep the club running smoothly. (S)He oversees the 50/50, attendance, Corn Roast, programs, membership, public relations, web site, newsletter and ORC gear activities. We have people in charge of most of those programs but we also need to develop backups and successors for them. This club thrives only if these programs are successful. This person also acts in the absence of the President. Contact me if you can be persuaded to fill this opportunity.

73 de Dave

Contesting

De Bob Truscott (W9LO)

May is our unofficial “LETS GET READY FOR FIELD DAY” month. And now that the snow has melted from his driveway, Leon, K9GCF, our FD chairman, will be returning to Wisconsin to get the preparations moving. He's been loafing around in Florida for the last 6 months so he should be well rested and

ready to go. He expects to be at the May 11 club meeting, and will be looking for lots of help. What kind of help? Here are some examples: If you are an experienced antenna erector, we need you on Friday afternoon to put up antennas and help teach inexperienced people how to do it. We need people to put up tents, people to help with food preparation, people to fetch the beer and soft drinks, someone to copy the ARRL official field day message, people to play sheepshead Friday night, and the list goes on and on. Leon will fill in the blanks at the meeting, and will be looking for volunteers. So think about these things and consider how you might be able to help. And did I mention that inexperienced sheepshead players are welcome? It will only cost you about 10 bucks to learn the game, and the instructors will be happy to see your money on the table.

And finally, we will need a whole bunch of people when the contest ends at 1:00 PM on Sunday to undo all the good things we did prior to the contest. Specifically, to take down the antennas, towers, and tents and take them back to the barn for storage until next year.

The major contest for the month is the CQ WW WPX CW contest on May 28-29. Rules at www.cqwp.com. It's a good one.

Have fun contesting.

Bob, W9LO

THE COMPUTER CORNER

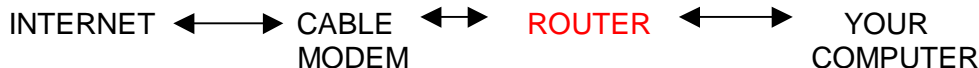
No. 159. Why You Absolutely Need a Router

Stan Kaplan, WB9RQR, 715 N. Dries Street, Saukville, WI 53080-1664
(262) 268-1949, skaplan@mcw.edu

Let's assume you have one computer, and that it is attached to the Internet directly through a cable modem supplied by your Internet Service provider (ISP). No router is involved in this scenario. Simply put, your machine is exposed to anything coming into the cable modem. Good stuff and bad, it all gets through to your computer. If you have a good firewall running, the bad stuff is stopped. If your firewall is not so good, or it didn't start properly when you last booted up, you are exposed. Hacking attacks, viruses, Trojan horses, or whatever. Of course, you can send stuff out, too. The double arrows in the following diagram indicate two-way traffic.



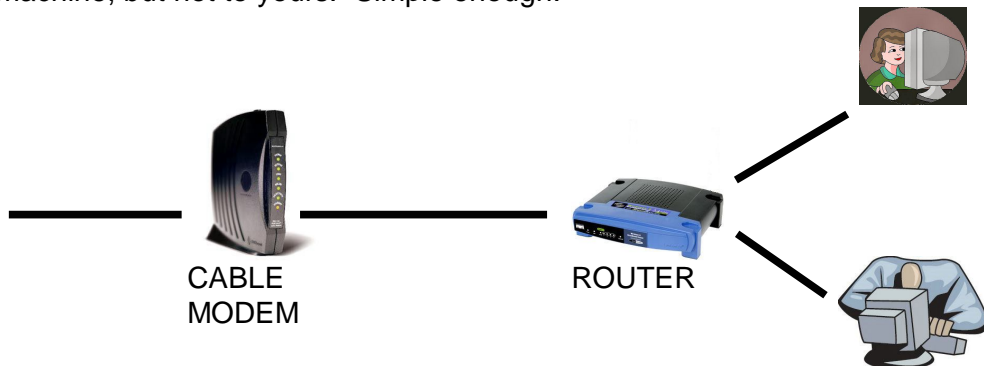
Now, let us suppose you bought a router and inserted it in the traffic pattern.



On the Internet, or for that matter, in any computer network, information is sent in packets. Similar to a short CW message, each packet has a source address, which indicates where the packet apparently originated, and a destination address that the packet is trying to reach. Clearly, the router sees anything (any packets) you send out to the Internet. It records each outgoing packet's destination address in a table in its own memory, and adds to the packet its own address for return traffic. Now, when a packet comes in from the Internet, the router looks in the table it created to see if the packet is expected. A packet is expected **ONLY** if its source address exists as an entry in that table the router previously created. What is the significance? If an arriving packet is not expected, it is discarded

(ignored). It never passes through the router and it never gets to your computer. None of the hacker-sent worms or scanning bots or viruses or other malicious Internet junk can get into your computer. Far out!

Of course, that is not the only thing a router can do. It also does what its name implies. It can route packets when you have more than one computer on your network. For example, if an email message comes in for you, it routes it exclusively to your machine. If one comes in for your wife, it routes it to her machine, but not to yours. Simple enough.



The black lines in the diagram above represent cable connections, with cable coming into the cable modem from your Internet Service Provider, then going to the router, then to your wife's computer and to yours. The cables are connected to both computers. On the other hand, your computer never sees a packet of information addressed to your wife's computer. The router routes it to hers, but not to yours.

In summary, besides routing packets of information within your network, a router will **BLOCK** all unsolicited packets of information that come in from the Internet, unless they are expected. On the other hand, routers do not impede outbound packets coming from your computer or any other computer on your network.

A router is considered to be a *hardware* firewall between you and the Internet, a step beyond and better than just a software firewall. Putting it in the circuit as shown above adds a layer of good protection to your system, and that is why you absolutely need one, even if you have only one computer on your network. Get one at a swapfest, or purchase one new for around \$40. Happy computing!



Another Great Buy

De Tom Ruhlmann
(W9IPR)

While perusing good stuff at the Orlando "Hamcation" I spied a PS-6A military Volt-Ohm Meter



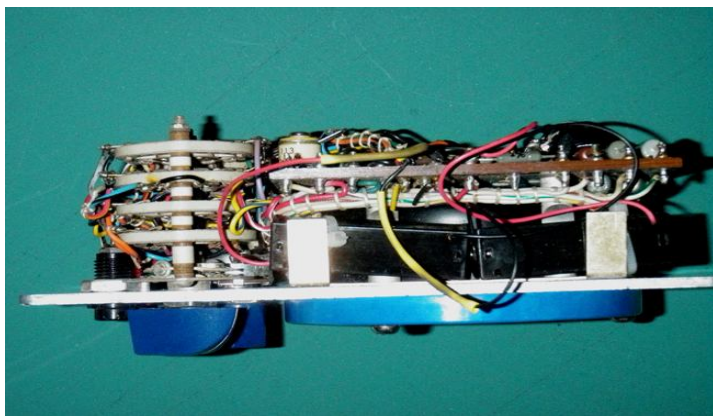
(VOM). These are the most rugged and most accurate (3-5%) VOM's ever made. Checking on the internet you will find they sell reconditioned for from \$99 to \$149.

Considering that he was asking \$15 and it had a unique military bad unavailable mercury battery we were able to come to an agreement at \$5. How could I not buy it? Ed Rate asked me later "how many VTVM's, VOM's and DVM's do you have?" I still fail to see what that has to do with anything. In any event, the unit seemed to be in good mechanical condition and the battery is only required to read resistance. But the question was, could I modify the unit to accept common



available batteries.

Upon opening the unit I noted there was a very legible schematic on the inside back of the housing. The original battery is a mercury type with a 13 volt and 1.3 volt output. It was wired in and looked to be about the size of two "AA" cells. And it was – what good luck. Then I found that there is a 6 volt alkaline cell about the same diameter and half the length of an "AA" cell. That meant two of them would fit in a "AA" battery holder and supply the +12 volts required. They are the 6VPX28A and cost \$3.99 each. For the 1.3 volts supply I would use a "AA" cell. Total cost for the replacement power was \$0.99 for each of the two holders and \$7.98 for the two 6 volt batteries. Now, will the two battery holders fit within the PS-6A container? Yes, just barely.



Did it work? The 12 Volt supply worked fine and the zero adjust on the panel had plenty of spread for the X 10,000 scale. However, the use of a new "AA" cell at 1.6 volts proved to be too high a voltage for the lower ohms scales and I had to find a partially discharged one (1.36 Volts) to allow for proper setting of the "zero ohms" calibration.

I have checked several precision resistors and the PS-6A is "right on". It also has a shunt to allow measurement of 2.5 and 10 amperes DC and a high voltage probe allowing measurement of voltage up to 5000 VDC. Do I like it – yes, it is the most rugged, accurate VOM available. Would I buy another one? No, Ed seems to think I have enough already.



ORC Corn Roast

De Tom Nawrot (AA9XK)

ORC August Corn Roast - August 20th. Attendance has been declining for this event, so we are making a couple changes to make it easier this year. We will be at another new location. The new location is the picnic shelter at Centennial Park in Grafton. The address is 1370 17th Avenue. We'll be on the west side of the shelter. We'll use a propane-fired turkey cooker to boil 15 ears at a time etc. Other details will follow. In the meantime note that date in your calendars. For the new members - this is basically a picnic where all ORC families bring a picnic-like dish to put on the table. This shelter has a playground too, and a lot of open space, electric, water, and a kitchen with refrigerator and a stainless steel serving counter for putting the food on. The club pays for corn, burgers and brats, buns and condiments, beer and soft drinks. Here is the website for the park >>>> <http://www.village.grafton.wi.us/index.aspx?NID=262>.

Lighthouse Special Event Station

De Tom Nawrot (AA9XK)

The ORC is going to operate the Lighthouse Special Event Station on the grounds of the 1860 Light Station in Port Washington on August 21st. We will be a participant in the International Lighthouse Lightship Weekend. At the moment there are 180 amateur radio stations registered, and 30 within the United States including the Mission Point, MI, Michigan City, MI, and White River, MI. Michigan lighthouses. Our designation number for the exchange US0114 was issued by the Ayr Amateur Radio group in Scotland. The basic objective of the event is "... to promote public awareness of lighthouses and their need for preservation and restoration to promote amateur radio and to foster international goodwill." Maybe we can finally snag some DX this year! Here is the website for this event >>>> <http://illw.net/>

ORC Donation to Senior Center

De Bill Howe (KA9WRL)



In a January ORC Board Meeting it was decided to "give back" a little to the Multi-Purpose Senior Center in Grafton for the many years of cooperation with our club. The rental fees have not increased, they have set up audio and video projectors and screens for us and in some cases, have met us at the building , after closing , because someone had forgotten to pick up a key for the meeting (not mentioning any names)! After talking with Karin Sevener, the Center's Senior Coordinator, it was decided that a good donation would be

one or two wall-mounted fans for their new exercise room in the basement of the facility. Since our budget was increased from \$100 to \$200 in the Board Meeting I had decided to shop for 16 inch fans instead of the less expensive 12 inch versions. After searching on line for awhile I ran across "CSN Stores" which featured the exact fans we were looking for, at quite a nice discount. Which brought it right into our price range?

I immediately ordered two plaques from Recognition Specialists to mount on the fans with the inscription "Donated by Ozaukee Radio Club" and was finally able to deliver them to Karin on Wednesday, March 30th.

You can see their new Fitness Center in the background of the picture. The fans will be mounted on the walls, one near the tread mill and the other near the exercise bike, by the time this newsletter is published.

River Fest 2011 River Cleanup

De Cindy (KA9PZG)

Just a quick reminder to all of you who might be interested in helping provide communications for the 11th Annual river Fest River/Park cleanup in Saukville on Saturday, May 21, 2011.

Operators are needed to provide communications between working parties and the home base. There may be some walking by volunteer radio operators with working groups to provide for any communications needs by volunteers in the field.

Prior to the event a continental breakfast will be provided for the operators at Grady Park, downtown Saukville.

After the cleanup, all participants will receive a local food gift certificate and lunch in the park to thank volunteers for their help

Please contact me via radio, or by phone (.262) 375-4757 if you would like to sign up for this year's event. As always, your help will be greatly appreciated at the Saukville River Fest.

Upcoming Events

May

Don't Forget – ORC Spring Swapfest is Saturday, May 7, at the Circle B Recreation Center on Hy 60. Flyer at ozaukeeradioclub.org –see you there.

05/01/2011 | [The Dekalb Hamfest](#) Location: Sandwich, IL

Type: ARRL Hamfest

Sponsor: Kishwaukee Amateur Radio Club

Website: <http://www.kish-club.org>

05/06/11 Cedarburg Parkview School Opportunities Day

05/07/2011 | [ARAC Hamfest](#) Location: Superior, WI

Type: ARRL Hamfest

Sponsor: Arrowhead Radio Amateurs Club

Website: <http://www.thearac.org>

05/07/2011 | [Ozaukee Radio Club May Hamfest](#) Location: Cedarburg, WI

Type: ARRL Hamfest

Sponsor: Ozaukee Radio Club

Website: <http://www.ozaukeeradioclub.org>

05/11/2011 ORC Membership Meeting at Grafton Senior Center

05/20/2011 | [Dayton Hamvention](#) Location: Dayton, OH

Sponsor: Dayton Amateur Radio Association

Website: <http://www.hamvention.org/>

05/28/2011 CQWW WPX CW Contest

June

06/04/2011 | ["Good Old Days" W8IRA/R Hamfest](#) Location: Hudsonville, MI

Type: ARRL Hamfest

Sponsor: Independent Repeater Association

Website: <http://w8ira.org>

06/05/2011 | [Starved Rock Radio Club's 2011 Hamfest \(W9MKS\)](#) Location: Princeton, IL

Type: ARRL Hamfest

Sponsor: Starved Rock Radio Club (W9MKS)

Website: <http://www.qsl.net/w9mks/hamfest.htm>

06/08/2011 ORC Membership Meeting at Grafton Senior Center

06/11/2011 ARRL June VHF QSO Party (3days)

06/18/2011 Kids Day

06/11/2011 | [South Bend Hamfest](#) Location: South Bend, IN

Type: ARRL Hamfest

Sponsor: Michiana Amateur Radio Club

Website: <http://w9ab.org>

06/20/2011 Amateur Radio Week Begins

06/25-26/2011 ARRL Field Day

July

07/09/2011 | [SMARC Swapfest '11](#) Location: Oak Creek, WI

Type: ARRL Hamfest

Sponsor: South Milwaukee ARC

Website: <http://www.qsl.net/WA9TXE>

07/09/2011 | [Indianapolis Hamfest](#) Location: Indianapolis, IN

Type: ARRL Hamfest

Sponsor: Indianapolis Hamfest Association
Website: <http://www.indyhamfest.com>

07/09-10/2011 IARU HF World Championship

07/16-17/2011 NA QSO RTTY Party & CQWW VHF Contest

07/10/2011 | [Fox River Radio League Hamfest](#) Location: Aurora, IL
Type: ARRL Hamfest
Sponsor: Fox River Radio League
Website: <http://frl.org>

06/13/2011 ORC Membership Meeting at Grafton Senior Center

07/17/2011 | [KARSFEST 2011](#) Location: Peotone, IL
Type: ARRL Hamfest
Sponsor: Kankakee Area Radio Society
Website: <http://www.w9az.com>

For Sale

The following items are offered for sale by Barbara Scarvaci, widow of ORC member Dick Scarvaci (K9CAN). If you are interested in buying any of these, please contact Barbara directly at her Email address bdsca@sbcglobal.net or Ed Rate for more information.

CURRENT PRICES (May 1, 2011 Ebay completed sales, not including shipping charges)

Yaesu FT1000 MP Transceiver	\$1350
Kenwood TS-120S (for parts only)	\$170
Bencher Morse Code Paddle	\$55
MFJ-901B Antenna Tuner	\$63
Yaesu FT-840 transceiver	\$435
Heathkit HM-102 Field	\$45
HyGain Rotor Controller 300	\$80
National HRO-50T Receiver	\$375
Kenwood TS-940S (for parts only)	\$275
Logan SPEEDX 515 Morse key	\$45
McElroy Morse Key bug	\$50
220mHz Transmit/Receive Duplexer	\$175
HP 616B UHF Signal Generator	\$250
B&K E-200D RF Signal Generator	\$100

Gold Star OS-9020A Oscilloscope (20mHz)	\$45
Jerrold A.I.M. 718 Field Strength Meter	\$12
Pyramid PS-35 Regulated 35 Amp Power Supply	\$85
Waters Dummy Load/Watt meter Model 334	\$20
HP Model 200AB Audio Oscillator	\$50
Kenwood 331A	\$180
Yaesu FT-60R Handi	\$175
Yaesu FT-2400 Mobile 2meter transceiver	\$85
Realistic HTX-404 UHF Handi	\$49
Vintage Car Bag Telephone	\$7

Minutes– April 13th, 2011

De Nels Harvey (WA9JOB)

Call to order: The meeting was called to order promptly at 7:30 P.M. President Dave Barrow N9UNR, presiding. Dave asked for a minute of reflection in memory of Roger Zaun W9UVV (SK). He then stated that Antonio Bustamante, KC9TDC, was making paper nametags for those attending who didn't have their own nametag. After the customary introductions, Dave welcomed Glenn Classey, and Ben Smith, KC9TZM as new members.

Art Davidson KC9PXR, Contacted Congressman Jim Sensenbrenner regarding H.R. 607, the "Broadband for First Responders Act of 2011". He received an obvious form letter with no real indication of where the congressman stood on the matter.

Bill Howe KA9WRL, showed a fishing tackle type of box, with multiple cable and audio connectors and adaptors, and a small clamshell plastic box with handy meters and electrical testers, and touted their portability.

Jim Albrinck K9QLP, met Tom Ruhlmann, W9IPR, and his wife, Pat, at a restaurant in Chattanooga, TN while both families were returning from Florida. The meeting was just by chance, since they had no radio, or other, contact with each other on their trips.

Nels Harvey WA9JOB, told about the availability of a Galaxy 350 transceiver and power supply, asking \$295.00 at a resale shop in Janesville, WI. Contact Nels for more information.

Vic Shier KB9UKE, told us about the Washington County repeater on 147.21 MHz. that is available for use. Sponsored by the Washington County ARES group, Vic said it is working good, and invited us to check it out.

Ed Rate AA9W showed an MFJ 989C Roller Inductor Tuner. He said it was available to Club members for \$150.00. The unit looked pristine!

Tom Ruhlmann W9IPR, had purchased a Heathkit HP-23A power supply from a swapfest, and it didn't work. His quest for a schematic on the re-mailer received a response from Todd Fast N9DRY, who

brought a disk with the needed document on it to the meeting. Tom also lamented the fact that nobody came back to him Tuesday evening on the ORC repeater net.

Stan Kaplan WB9RQR, requested the laptop computers that belong to the Field Day equipment be returned from loan, so he can set them up for the operations there.

Nate Seidler KC9TSO, upgraded to General at the AES Superfest test session.

Dave Barrow then introduced John Schrader W9NRG, who discussed the Washington County VHF radio trunking system that is nearing completion. He showed pictures of some of the operating positions, and some of the radio equipment. He explained the system uses several linked sites, with a redundant loop for backup connectivity, and is digitally modulated with the P-25 digital protocol.

After the program there was a short break, and then Stan Kaplan auctioned off several interesting items, and gave away some good computer keyboards.

The Business meeting continued with the Minutes of the previous meeting being moved acceptance by Jon Gilmore KB9RHZ and seconded by Gary Sharbuno, WI9M. The vote passed. The Treasurer's Report was moved acceptance by Jim Albrinck, and seconded by Terry Koller, KA9RFM. The vote passed.

Swapfest Report was given by Tom Nawrot AA9XK. He has sold a few advance sale tickets, and is reserving tables now. He asked for setup help Friday night May 6, at 6:00 P.M. and help Saturday morning at 6:00 A.M. through the morning for ticket takers and security help.

Tom Ruhlmann W9IPR, told us he was putting on a radio demonstration again at Parkview School. He has a couple of people helping, and he wants us to listen for him and help by making contacts with the students attending the demonstrations.

There was no Old Business and no New Business.

Dave made mention that his requests for help were bringing no responses. He would like more participation in Club activities by the members.

Dave requested a motion to adjourn at 9:11 P.M. motion made by Stan Kaplan WB9RQR, seconded by Jon Gilmore KB9RHZ, and passed.

Attendance:

Members, Dave Barrow N9UNR, Bill Howe KA9WRL, Keith Shilhavy KY9P, Ed Rate AA9W, Mike Yuhas AB9ON, Glenn Classey, Stan Kaplan WB9RQR, Kristian Moberg KC9TFP, Ben Smith KC9TZM, Nathan Scheunemann KC9SMP, Tom Murtaugh W9VBQ, Ron Yokes W9BCK, Bob Frank N9NRK, Terry Koller KA9RFM, Sandy Wirth W9BTN, Mark Fielkow KB9PXE, Todd Fast N9DRY, Kate Holt KB0SIO, Dick Holt AB0VF, Nancy Stecker KC9FZK, Brian Skrentny N9LOO, Dave Pueringer K9KBE, Jim Albrinck K9QLP, Dave Mielke WB9EGZ, Tom Trethewey KC9ONY, Jon Gilmore KB9RHZ, Don Hoffmann N9KRC, Antonio Bustamante KC9TDC, Art Davidson KC9PXR, Mark Tellier AB9CD, Nate Seidler KC9TSO, John Thielen WA9KNY, Nels Harvey WA9JOB, John Strachota W9FAD, Paul given N9PG, Gary Sharbuno WI9M, Dan Brophy AA9QR, and guests Steve Strege N9YJ, and Eric Sanders.

AGENDA

May 11, 2011

1. 7:00 – 7:30 PM – Network & Rag Chew
2. Call to order Dave Barrow (N9UNR)
3. Introductions.
4. Announcements, Bragging Rights, Show & Tell, Upcoming events, Etc.,
5. Program: Brian Skrentny (N9LOO) will introduce the new ORC web site.
6. Fellowship Break
7. Auction – Stan Kaplan (WB9RQR)
8. Acceptance of Minutes as printed – Nels Harvey (WA9JOB)
9. Treasurer's report – Nancy Stecker (KC9FZK).
10. Repeater report – Mark Tellier (AB9CD)
11. Committee reports.
 - 2010 audit report
 - Web Site report
 - Spring Swapfest report
 - Field Day report
 - Other:
12. OLD BUSINESS
13. NEW BUSINESS
 - Appointment of Stan Kaplan (WB9RQR) as program chair
14. Adjournment to June 8, 2011

Return undeliverable copies to

The ORC Newsletter

465 Beechwood Drive
Cedarburg WI* 53012

First Class

Next ORC Meeting

Grafton Senior Citizens Center

1665 7th Avenue, Grafton

Wednesday, June 8th

7:00 PM – doors open

7:30 – Membership Meeting