



# 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](http://www.ozaukeeradioclub.org)

Volume XXIV

April 2005

Number 4

## The Prez Sez

de Tom Ruhlmann (W9IPR))

Wow, what a month. The month of March really started on a great note. Ron Yokes (W9BCK), Ed Rate (AA9W) and I went to Stewartville MN to visit one of our charter members, Hal Giese (W9RXJ). Hal and his wife Irene are currently living at the Stewartville assisted living center but his hart is still with the ORC in Ozaukee. It was my first time meeting Hal but he was quick to recognize his old friends Ron and Ed and talk about field days past. It was great meeting Hal and hearing a few of his field day stories.



**Ed and Ron had a great time discussing past field days with Hal Giese (W9RXF) who is one of our charter members now living in Stewartville MN**

Hal can receive mail at:  
Hal Giese  
Stewartville Care Center  
120 4<sup>th</sup> St. NE  
Stewartville MN 55976

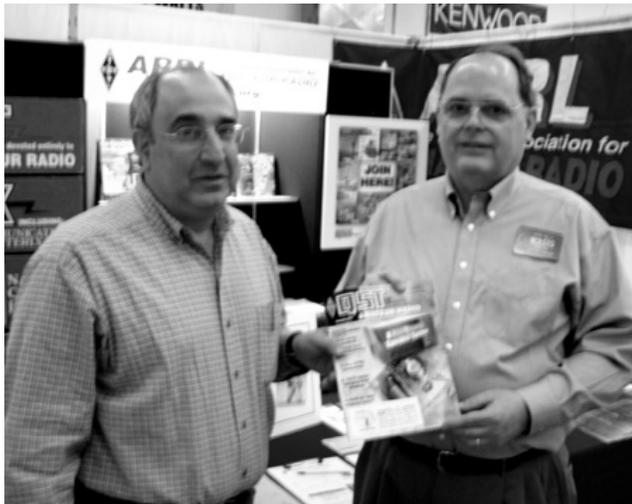
Then, out of the clear I get a call from Laurie Arndt who is a reporter for the News Graphic. She requested an interview so she could do a feature article in the March 24<sup>th</sup> edition. Perhaps you read the story. It really turned out great. She gave us almost a full page and discussed the ORC, OZARES and the various activities that draw people into ham radio. She really did a nice job.

Then Ed (AA9W), Steve (K9DXT) and I went to the Jefferson WI swapmeet on 3/20. On behalf of the Scholarship Fund we were able to sell over \$600 of parts and components donated by Hal Giese and we have many boxes remaining for the Grayslake swapfest April 16<sup>th</sup> – want to go?

Next I learned that Mike Matthies (WJ9O) gave a talk on Ham Radio at St. Paul's Lutheran School in Grafton and that was followed by a similar talk and demonstration at one of the Grafton public elementary schools. Nice job Mike.

Then we received a call from one of the St. Paul's students mother and she was requesting some help for her son who wanted to do his science fair project on the ISS and Ham Radio. So I called our space guru, Gary Bargholz (W9UUR) and got briefed on what's happening in space before I went to visit the Scheel's. It was really great, I was able to give Brendan some pictures of the shuttle and the ISS I got at the space center in Houston and also gave him a copy of "instant track" so he could monitor the position of the ISS in space. Now to get him some receiving equipment. Hopefully this will be an opportunity to introduce some more youngsters to Ham Radio.

Then it was off to the AES Superfest. What a great time this was. A chance to visit with several vendors and club members and area hams that I had not seen for some time. Really had an enjoyable time even though none of the ORC members won anything. However, a few years ago I did win an ICOM 207H and the following year Ed Rate won an FT817.



**At Superfest Mark Potash was showing Dick Isley (W9GIG), the ARRL district Governor, his new ORC magazine label for use on your old QST etc. that you leave behind at the barber shop and doctors office. Ask him for a supply at the meeting.**

We plan to offer a Technician training class at the Justice Center starting April 23<sup>rd</sup>. You will find an outline of the program on our website along with the announcement. While we have submitted announcements to the News Graphic, Journal-Sentinel & Channel 14 it seems the effective invitations come from our members to – others of their friends, family, work associates and neighbors. It is the personal contact and invitation that results in new hams – try it, it works. Have them call me at 377-6945 to enroll.

Yes, like I said, it has really been a busy month and now April is looking to be a great time as well. Our meeting on April 13<sup>th</sup> with back to back swapfests on April 16<sup>th</sup> and 17 and the start of the Technician Class training at the Justice Center on April 23<sup>rd</sup>.

Like Vic says, “remember it’s a hobby” so get involved and invite someone to share in the fun.

## Wisconsin QSO Party

De Bob Truscott (W9LO)

WOW! I haven’t had so much fun since Field Day. This is the first time I have ever made a serious effort in this contest, and I realize for the first time what a great party I’ve been missing. It’s also the first time I have entered a log, and some of you may remember that W9XT gave me the needle about that at the last meeting. He sort of shamed me into it. Anyway, my computer said I worked 6 hours and 59 minutes, not bad out of a possible 7 hours. Somehow the computer missed the 20 minutes I took off for a snack about 4:00 PM.

The preliminary results are in, and based on the reported scores we stand a good chance of winning the club competition because we have exceeded the number of points entered by last year’s winning club. If you missed the party, shame on you. You can have a ton of fun in this one even if you’re not a devoted contester. Even our club president got into it—he gave N9FH a contact. That’s why Fred will probably win the single operator competition. (He outscored last year’s winner.)

### Reported Scores:

N9FH  
CW--332  
SSB- 285 99 Mults Score 140,926.5

W9XT  
CW-273  
SSB-202 92 Mults Score 103,222

W9LO  
CW-371  
SSB-None 85 Mults Score 94,605

K9GCF  
CW-70

SSB-17 7 81 Mults Score 38,515.5

WI9M

CW-64

SSB-178 81 Mults Score 37,179

KC9DKQ

CW--None

SSB-208 64 Mults Score 19,968

K9LO

CW-5

SSB-34 30 Mults Score 1,980

AA9WP

CW-10

SSB-None 8 Mults Score 240

W9IPR

CW--None

SSB-1 1 Mult Score 1.5

Coming up in April:

Not much----Try the Michigan QSO Party. CW-SSB, 80-10 Meters. April 16, 11:00AM local time, to 11:00 PM. A contest very similar to the WIQP. Rules in April QST, page 100. Here's an opportunity for those of you who missed our own party a few weeks ago to jump in and have some fun. Consider it a Field Day warm-up.

Have fun contesting.

## For Sale, Trade or ?

I have two Radios in as New Condition. Boxes, manuals, mics and power cords One is the Kenwood TS-2000 DSP rig that does it all. HF, 6m, 2m and 440. \$1400.00

The other is also a HF mobile, Kenwood TS-50, less than 3 hours of use only in the house. \$500.00 Both purchased new around last Christmas, I'm selling these for a friend, both prices are firm. Thank you, **Chris, 954 298 2666**

Rockwell/Delta 4" joiner - \$95 or trade  
Delta 12" portable plainer - \$110 or trade  
Craftsman 10" belt drive, cast iron top table saw on stand - \$125 or trade

Contact **Tom (W9IPR) at 262-377-6945**

## Upcoming Events

**April**

**1-2<sup>nd</sup> AES Superfest**

**13<sup>th</sup> Membership Meeting**

**16<sup>th</sup> Grayslake Swapfest**

**17<sup>th</sup> Madison Swapfest @ Stoughton**

**23<sup>rd</sup> Technician Class training class begins**

**May**

**3<sup>rd</sup> Board Meeting**

**7<sup>th</sup> ORC Swapfest at Circle B**

**11<sup>th</sup> Membership Meeting**

**20-22<sup>nd</sup> Dayton Hamvention**

## Just Another Shack

De Steve Stevens (K9DXT)

The subject of the article this month is Roger Zaun (W9UVV). Roger is one of the newer members of the club only being around for, he thought, six or eight years. Roger is a young 87 years old and has had his ticket since about 1934 when he was 16 or 17 years old. In case you have forgotten Roger got his ticket in an era of ham radio when there was little commercial equipment available so he had to become a home brewer in order to get on the air.

Rogers experiences as one of the early ham operators led him to study for a career as a broadcast engineer. When he graduated from tech school there were few engineering jobs to be had. Because of this Roger traveled to Chicago where he interviewed and was hired by Thor-dason Electric Mfg. Co.

After a number of years there he came back to Milwaukee and took a job with the AC division of General Motors Corp. One of the benefits of working for AC was being able to attend the General Motors Institute where he received training in management. Roger put this training to good use when he became a partner in Milwaukee Electronics which they turned into an extremely successful business which was sold in 1986. Milwaukee Electronics, among other

products, developed power supplies for early computers.

Over the years Roger has collected a number of National radios. He has rebuilt a number of these. Roger is not a purist when he rebuilds the equipment leaving as much as possible of the faceplates of the units original but in some cases he modifies the interior parts to obtain better performance from the units. Roger has also built radio equipment from scratch basing his design on the old tube style radio.



**Roger Zaun, W9UVV, often spends a relaxing day operating CW with his Vibroplex “bug”, HRO-5 receiver (1945) and Viking Ranger (1958) transmitter vintage station.**

When you enter Rogers shack you enter two worlds. On one side of the room you see a working station from out of the past and on the other side you see current equipment.

Rogers’s vintage equipment includes 6 National receivers ranging in age from his 1945 HRO-5 to his HRO-500 introduced in 1965 as the first fully solid state amateur band receiver.

His “current” station is a TenTec Omni 6 complete with computer etc. Roger especially enjoys operating SSB, CW and AM on 160 and 40 and tinkering with his vintage equipment. Did I mention antenna? Yes he has a few; a 14 element Yagi on 2 meters, 4 dipoles and a vertical with 50 radials. He does “get out”.

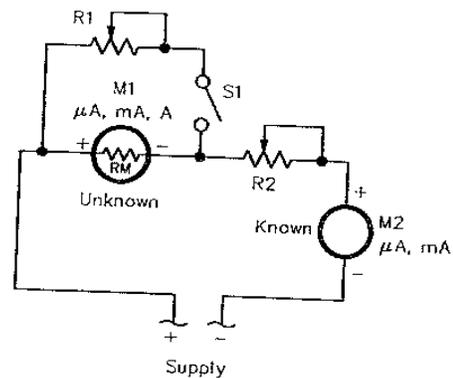
When you see Roger say hello and like many members of the club he has a wealth of knowl-

edge which he would be more than happy to share with you.

## Can I use it or not?

De Tom Ruhlmann, W9IPR

If you are like most “hams” you have several panel meters on a shelf but you are not quite sure of the meter movement value. Or secondly, perhaps you would like to change the full-scale value of the movement so you can use it in a new project. The Figure 26.2 in the 2004 ARRL Handbook can provide just the tool to allow you to measure the voltage and current required to get a full scale deflection of the meter and measurement of the meter resistance to allow the calculation of shunts to multiply it’s scale.



**Figure 26.2 from 2004 Handbook  
A simple circuit allowing calibration of an unknown meter and measurement of its internal resistance.**

I used a 100-microampere meter as the “known” standard meter ( $M_2$ ). The supply voltage is simply a 1.5-volt “D” cell and since it is contained in the box, it is on a switch. Use of a 10 turn 100K ohm pot for  $R_2$  allows reducing the current down to about 15 micro-amperes so this would allow calibration of an unknown meter ( $M_1$ ) with a full scale deflection of 15 micro-amperes or greater.

To determine the internal resistance of the unknown meter it is only required to adjust  $R_2$  (1K ohm 10-turn potentiometer) for a full-scale deflection using the known meter as a reference. Then close switch  $S_1$  and adjust  $R_1$  to reduce the meter reading to half scale. Now disconnect

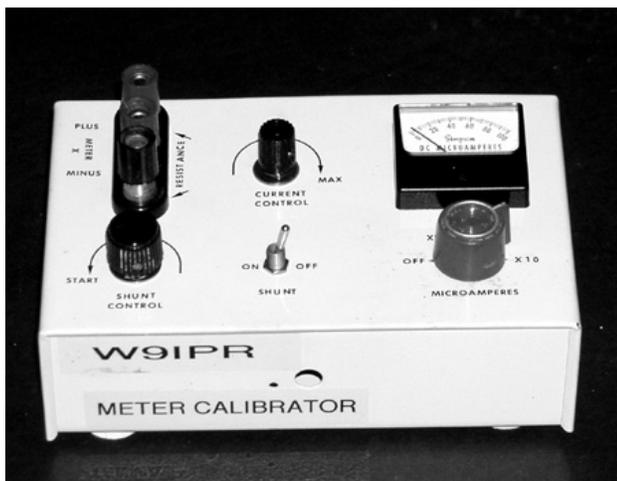
the unknown meter and measure the resistance of  $R_1$ . This is the value of the meter resistance ( $R_m$ ) and can be used to calculate resistance of a shunt ( $R_s$ ) required to increase the value indicated at full-scale deflection. The value of resistance for a shunt  $R_s$  would be calculated as:

$$R_s = R_m / (n-1)$$

$R_s$  = Shunt Resistance

$R_m$  = Meter Resistance

$n$  = factor by which the meter scale is to be multiplied.



**The "Meter Calibrator" using a 100 microampere standard meter with scale multipliers of X2, X5 and X10**

Naturally, the meter resistance can also be determined by measuring the voltage across the unknown meter using a DVM at a given current and using Ohm's law ( $R=E/I$ ).

The "calibrator" was housed in an A/B serial switch box and was entirely built from the "junk box". This is a simple project but really quite useful. Since it is now so convenient I may start buying more meters at swapfests just so I can calibrate them – but then that would then lead to another project so I could use the meter.

## HOW TO SOUND LIKE A LID

by Rusty Bumpers, N4LID -Reprinted from the May 1993 issue of "Solid Copy", the Richmond (VA) Amateur Telecommunications Society's monthly newsletter & submitted by Nels and Ernie.

On the radio lately, I have noticed a tendency of people making a concerted effort to sound like a Lid (i.e. poor operator). Since this appears to be the new style in amateur radio, I thought I would present this handy guide to radio nerd-dom. The following is what I call: "How to sound like a Lid in one easy lesson."

- 1) Use as many Q signals as possible. Yes, I know they were invented solely for CW and are totally inappropriate for two-meter FM, but they're fun and entertaining. They keep people guessing as to what you really meant. i.e. "I'm going to QSY to the kitchen." Can you really change frequency to the kitchen? QSL used to mean "I am acknowledging receipt," but now it appears to mean "yes" or "OK." I guess I missed it when the ARRL changed the meaning.
- 2) Never laugh, when you can say "hi hi." No one will ever know you aren't a long time CW ragchewer if you don't tell them. They'll think you've been on since the days of Marconi.
- 3) Utilize an alternative vocabulary. Use words like "destinated" and "negatory." It's OK to make up your own words here. "Yeah Bill, I pheelbart zaphonix occasionally myself."
- 4) Always say "XX4XXX (insert your own call) for I.D." Anything that creates redundancy is always strongly encouraged. That's why we have the Department of Redundancy Department. (Please note that you can follow your call with "for identification purposes" instead of "for I.D." While taking longer to say, it is worth more lid-points.)
- 5) The better the copy on two-meter FM, the more you would phonetically spell your name, especially if it is a short and/or common one. i.e. "My name is Al...Alpha Lima" or "Jack...Juliatt Alpha Charlie Kilo." If at all possible, make up unintelligible phonetics. "My name is Bob...Billibong Oregono Bumperpool."

- 6) Always give the calls of yourself and everyone who is (or has been) in the group, whether they are still there or not. While this has been unnecessary for years, it is still a wonderful memory test.
- 7) Whenever possible, use the wrong terminology. It keeps people guessing. Use "modulation" when you mean "deviation" and vice-versa. And even if the two-meter FM amplifier you're using is a Class C type amp, and thus not biased for linear amplification, be sure to call it your "linear." Heck, refer to all FM-style amplifiers as "linears." You'll be king of the "wrong terminology" hill.
- 8) If someone asks for a break, always finish your turn, talking as long as possible before turning it over. Whenever possible, pass it around a few times first. This will discourage the breaker and, if it is an emergency, will encourage him to switch to another repeater and not bother you.
- 9) Always ask involved questions of the person who is trying to sign out. Never let him get by with a yes or no answer. Make it a question that will take a long time to answer.
- 10) The less you know about a subject, the more you should speculate about it on the air. The amount of time spent on your speculations should be inversely proportional to your knowledge of the subject.
- 11) If someone on the repeater is causing interference, you should talk about that person at great length, making sure to comment on at least four out of six of the following:
  - (a) His mental state; (b) His family; (c) His intelligence, or lack of same; (d) His sexual preference; (e) His relationship to small animals; (f) His other methods of self entertainment.
- 12) If you hear two amateurs start a conversation on the repeater, wait until they are 20 seconds into their contact, and then break-in to use the patch. Make sure that it's only a simple routine phone call. It's also very important that you run the autopatch for the full three minutes. This way, once the two re-establish contact, they won't even remember what they were talking about.
- 13) You hear someone on the repeater giving directions to a visiting amateur. Even if the directions are good, make sure you break-in with your own "alternate route but better way to get there" version. This is most effective if several other Lid trainees join in, each with a different route. By the time the amateur wanting directions unscrambles all the street names whizzing around in his head, he should have mobile'd out of range of the repeater. This keeps you from having to stick around and help the guy get back out of town later.
- 14) Use the repeater for an hour or two at a time, preventing others from using it. Better yet, do it on a daily basis. Your quest is to make people so sick of hearing your voice every time they turn on their radio, they'll move to another frequency. This way you'll lighten the load on the repeater, leaving even more time for you to talk on it.
- 15) See just how much mobile flutter you can generate by operating at handheld power levels too far from the repeater. Engage people in conversations when you know they won't be able to copy half of what you're saying. Even when they say you are uncopiable, continue to string them along by making further transmissions. See just how frustrated you can make the other amateur before he finally signs off in disgust.
- 16) Give out wacky radio advice. When a newcomer's signal is weak into the repeater, tell him he can correct the problem by adjusting the volume and squelch knobs on his radio. Or tell people they're full quieting except for the white noise on their signal. Or....well, you get the idea.
- 17) Use lots of radio jargon. After all, it makes you feel important using words average people don't say. Who cares if it makes you sound like you just fell off of Channel 19 on the Citizen's Band? Use phrases such as "Roger on that," "10-4," "I'm on the side," "You're making the trip," and "Negatory on that."
- 18) Use excessive microphone gain. See just how loud you can make your audio. Make sure the audio gain is so high that other amateurs can hear any bugs crawling on your floor. If mobile, make sure the wind noise is loud enough that others have to strain to pick your words out from all the racket.
- 19) Be as verbose as possible. Never say "yes" when you can say "He acquiesced in the af-

firmative by saying 'yes'." (No kidding, I actually heard that one.)

73, Rusty Bumpers, N4LID P.S. "Rusty Bumpers" is a pen name. He maintains anonymity so he can sit peacefully at club meetings and avoid the wrath (and breath) of the uninformed.

## Minutes – March. 9th, 2005

De Nancy Stecker, KC9FZK

Meeting called to order at 7:40pm by President Tom Ruhlmann W9IPR

### **Bragging Rights:**

Paul KD9FM has a friend who is on a DXing expedition in the Channel Islands.

Tom W9IPR related his recent visit to Texas and contacts made there on his 2-meter radio.

Ted N9LLT announced that the Milwaukee/Waukesha ARES website is featuring LEFROG Jan 2005.

### **Announcements:**

Leon K9GCF reported there might be possible changes in the Morse code requirements. He also told of some changes in the Field Day rules. The complete 2005 Field Day packet is available on the ARRL Web site.

The AES Superfest sign-up sheet was passed around and members were asked to commit to a time to volunteer.

Volunteers are needed to handle refreshments at the ORC meetings. Stan WB9RQR will take the April meeting, Paul KD9FM in May, Vic KB9UKE in June, and Kent N9WH in November. Please keep it simple. Others will be asked to sign up for duty.

Hal W9RXJ, a Founding Father of the club, past president, auctioneer, Swapfest and field day participant, now living in Minnesota, has donated his equipment to the ORC. Plans are to auction many of his things at swapfests around the state and the remainder at our ORC Swapfest

### **Program:**

Jim KA4UPW, an employee of GE Medical Systems, presented a program on surface mount technology and how it applies to a specific circuit board. The slide show presentation

depicted a VCT (Volume Computed Tomography) scanner circuit board being made beginning with paste printing the solder onto a board to the full functional test of the completed circuit board. This up to the minute technology is used in diagnostic imaging in hospitals around the world.

**Fellowship Break** followed the program.

Gary W9XT announced that the Wisconsin QSO Party would be Sunday March 13, 2005.

### **Auction:**

Stan WB9RQR auctioned some of the Hal Giese donation along with other items.

### **Business Meeting**

### **Minutes:**

Minutes stand as printed in the newsletter.

### **Treasurers Report:**

As per the January 18, 2005 board meeting, Tom AA9XK plans to create a reserve fund for non-radio equipment. Property and liability insurance has been paid for the year, please note the cost has gone up. Copies of a new roster were on the tables for members to check their information. The PEP has cleared 30 cents. He and Julia KB9WBQ are looking for a co-chair for next year and are hoping for some new ideas for the annual party.

### **Repeater Report:**

Nels, WA9JOB, states the .97 repeater, the 220 repeater and the 440 repeater are all working well. Mark, KC9GSS, has a 2 inch 20 foot pipe for the 2 meter antenna to be placed at the Grafton firehouse. The Wisconsin Association of Repeaters is coordinating a new link frequency for use from the firehouse to the present site, and later for use when we have to move the repeater. Nels plans to link the new fire station site in Grafton to the main site when the antenna is installed, and new radios are acquired. When we need to move the 146.97 MHz. repeater, the firehouse will be the control point, and the KK & LL site will become the transmit location instead of a receive link site.

Peter KB9UHR thanked those who helped at the Grafton Fire Station with installation.

**OZARES:**

Stan WB9RQR reminded the club that the 33 repeater is available if needed by the ORC.

**Committee Reports****Membership:**

There was nothing to report.

**Swapfest:**

Gene KB9VJP was not at meeting, but it was reported that flyers have been printed, and that Mark AB9CD and the Milwaukee Radio Amateur Club will do testing at the Swapfest.

**PEP:** Tom AA9XK reported on the Post Everything Party.

**Youth Programs:**

Mike KC9GDV mentioned working towards a Scouting Radio Merit Badge with club members as mentors for the boys. Other suggestions included a Badge Day and a Camporee with members as counselors. He would like to approach the schools too. A future project called "Venturing" would include boys and girls ages 14 to 20. Jim KA4UPW is presently a leader of a scout troop in the Sussex area who are working towards earning a Radio Merit Badge.

**Public Relations:**

Tom W9IPR saw there were still some openings in the AES Superfest sign-up sheet. There will be a Severe Weather Training session given by Rusty Kapela from the National Weather Service on Monday, March 14, 2005 at the Justice Center, 6:30 to 8:30. Beginning April 23, Technician Class License classes will be offered on Saturday mornings.

**Old Business:**

Greg W9DHI, Mike KC9GDV, Jeff KB9QQE and Nels WA9JOB have been working on the ORC re-mailer. Dave N9UNR made the motion to accept the recommendation that we change to the new Yahoo web site, Leon K9GCF seconded it, the motion passed.

**New Business:**

Nels WA9JOB requested to take money from the 97 Repeater Improvement Fund to

purchase 3 radios on e-bay. Greg W9DHI made the motion to use \$600 from the fund, Bernie AA9CI seconded the motion, the motion passed. The chair entertained a motion to approve the budget as prepared at the January meeting of the board. Greg W9DHI made the motion to approve the budget, Ted N9LLT seconded the motion, the motion passed.

**Attendance:**

Stan WB9RQR, Enid KB9TDC, Ed AA9W, Jeff KB9QQE, Kent N9WH, Greg W9DHI, Nels WA9JOB, Jim K9QLP, Bernie AA9CI, Mike KC9GDV, Jim N9WIU, Ben K9UZ, Peter KB9URH, Herb WA9UVK, Leon K9GCF, Kames KA4UPW, Paul KD9FM, Nancy KC9FZK, Marak AB9CD, Roger W9HVV, Tom AA9XK, Ed AA9WW, Terry KA9RFM, Vic KB9UKE, Ted N9LLT, Gary W9XT, Bob W9LO, Ray W9KHH, Don AA9WP, Paul KB9WCC, Steve K9DXT

Dave N9UNR made the motion to adjourn the meeting, Nels WA9JOB seconded it, and the meeting was adjourned at 9:40pm.

## **AGENDA**

*October 13th, 2004*

1. Call to order – Tom (W9IPR)
  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 – Tom (AA9XK).
- 
9. Repeater report – Nels (WA9JOB)
  10. OZARES report – Jon (KB9RHZ).
  11. Committee reports.  
Membership –  
Public Relations –  
Youth Program -
  12. OLD BUSINESS
  13. NEW BUSINESS.
  14. 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, April 13<sup>th</sup>**

**7:30 PM**