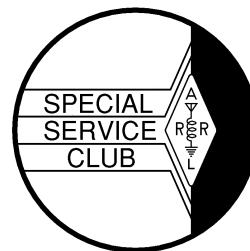




The ORC News -

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 XXV

February 2006

Number 2

The Prez Sez

By Tom Ruhlmann (W9IPR)

Certainly, the highlight of my month was a trip to Hawaii with the XYL and our visit to Pearl Harbor. The visit to the Arizona memorial is a moving experience. This was followed by a tour through the USS Missouri battleship, which is anchored on battle ship row. The USS Missouri is the ship upon which the Allied forces accepted the surrender of Japan. It is quite an experience to stand at the spot where it all happened in 1945. Additionally, it was great to visit the radio room on the Missouri which has been restored to it's 1985 configuration and is operated as club station KH6BB by a group of retired Navy hams. Oh yea, the weather was great also.

With the elections over, we now start a new ORC year. What's it going to be for the club and each of us individually? Just more of the same or are we going to try some new ideas and projects? Embracing change, not just change for the sake of change but change for the enhancement of the club and it's members, assures the longevity of group and it's continued contribution to individual growth and community service.

Some of the changes this past year were rather subtle but are now bearing fruit. For example, a new Public Relations Committee that has put the ORC in the public eye via local and regional press and TV and a new Youth Committee that has generated the interest of local BSA troops in the Radio Merit Badge. Other changes included an expanded committee of 6 for the PEP, which resulted in program and facility changes thus reducing the ticket price and hopefully increasing attendance. The swapfest committee was

also expanded to ten members and new ideas were expressed resulting in continuance of the traditional May indoor swapfest plus sponsoring an additional outdoor swapfest at the Circle B lot in September.

Another change that has occurred is in the area of recognition. For the most part our members are a relatively quite bunch who just enjoy tinkering, operating, public service and contributing to the club technically, organizationally and monetarily. Within this group there are many unsung heroes that exemplify the purposes of amateur radio and assure the success of the ORC. With that in mind the Board has approved the following potential awards so that these individuals can be properly recognized and thanked by the Board.

1. Public Service
2. Radio Art Advancement
3. Communications and Technical Skills Advancement
4. International Goodwill
5. Committee of the Year
6. Club Project of the Year
7. Operator of the Year
8. Trainer of the Year
9. Technical Project of the Year
10. Contester of the Year
11. Club Service Award
12. Meeting Program of the Year
13. Presidential Award

Certainly not all these awards will be made every year however they do now exist so individuals within the ORC can be properly acknowledged as the occasion arises. The criteria for each of these awards can be found at our website. Members can make nominations for each of the awards to the members of the Board.

Another new idea from one of our newer members is that of an Elmering session just prior to the meeting. Great idea! A place where anyone can ask a technical or operating question and expect to get a proper answer from one of the other members in the know. It will be from 18:45 to 19:30 in the Senior Center basement just prior to the meeting. All are welcome to these informal question and answer sessions.

As of February 2nd there were 26 or our 100 Regular members who had not yet renewed their membership. Hopefully this is just an oversight and our rolls will be up to par by the end of February. Each member is important to the success of our club. Each member brings a unique set of skills and a unique perspective to the group that makes our social and technical interactions most enjoyable and productive.

Don't forget the Post Everything Party is March 11th at the Legion Hall in Grafton. Tickets are only \$16 and are available from Tom Nawrot, AA9XK. I hope to see you there. It promises to be a great time with a great group of hams at a very reasonable price.

See you at the meeting. This is your chance, get involved and have some fun.

Read the Instructions

De Don Zank (AA9WP)

There is an old saying, "The smart man learns from his mistakes, the wise man learns from the mistakes of others." Well here is your chance to become a wise man or woman as the case may be.

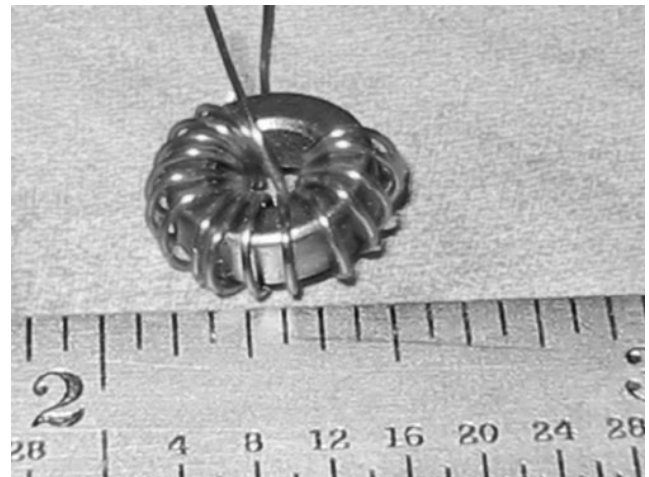
The two band Filter board is the first board to be assembled in the Elecraft K-1 Transceiver kit. On this board are four toroidal inductors. They are iron-powder cores, type T37-6 Two inductors, L9 and L10, are used for 80 meters, and L11 and L12, are used for 40 meters. As part of building the kit, it is required that all four inductors be wound with #26 red-enamel wire. Checking the chart in the back of the manual explains

that L9 and L10 will have 28 turns and L11 and L12 will have 21 turns.



A size comparison of yesterdays (Heathkit CW Transmitter) and today's (Elecraft K1 Transceiver) kits

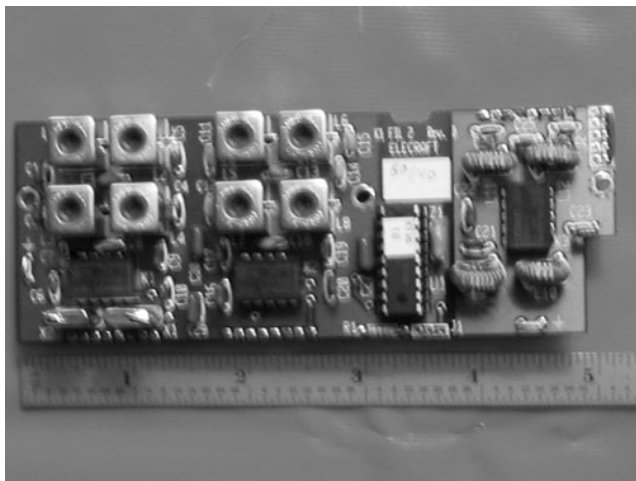
Well this is no big deal. My other radio projects required winding toroidal inductors so this should be simple enough. The basic point to keep in mind is that each time the wire passes through the core, or center, of the inductor it counts for one turn. Let 's git her done!



Toroidal inductors, just wire wound around a ferrite core but the turns direction and count can be confusing.

After measuring off the recommended length of wire, (Another great feature of the Elecraft kits is they provide you with exact wire lengths in the manual) I started to wind and count the turns in

the L9 inductor. In the background, the Packers are playing on Monday night football. A bad distraction to have in the room. After the winding is completed, I want to see how it looks on the printed circuit board. What the heck (or something like that)! The leads coming off the core do not line up with the holes in the board. I forgot to notice that the winding should have been done, if you start at the bottom, in a clockwise manner, so when looking from the top down, the top lead will point to the left and the bottom lead to the right. Unwrap the wire and this time pay attention to what the manual is showing you! (Another old saying: "If it doesn't work then try reading the manual"). I blame the whole problem on the Packers! Wind the next three inductors in the correct manner and everything goes together like a charm.



The completed K-1 two band filter board showing the location of the four-torodial inductors.

Please see the pictures of the toroidal inductor to give you an idea of the size of cores. In addition, a picture of the completed Filter board and a comparison of the Elecraft versus the Heathkit to give some perspective of the size difference.

As of now the Filter and Front panel boards have been completed. The RF board, which includes the Audio Amp, VFO, Receiver and T-R Switch and Transmitter, and is the main board of the kit, has been started. The first power test has been made without any overheating, smoke or flames. That was a good sign. The holidays

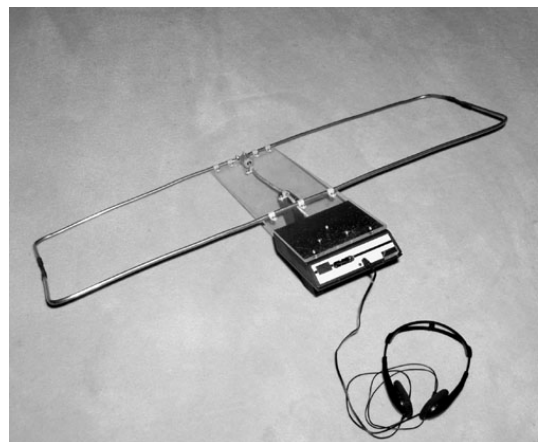
and then a week out of town for a training program slowed my progress. The out of town trip required a bit of preparation before the trip and then some catching up on paperwork after the return. It has been close to a month since I have last worked on the kit. Back to it tomorrow night. A few more pages of assembly then onto the Alignment and Test, Part I section. If that all goes well, then assembly of the Transmitter section will be the next and final chapter.

The next NAQCC contest is February 15th and I am hoping to have the radio completed by then. I will keep you posted.

Where's the EMI?

De Tom Ruhlmann (W9IPR)

It all started at the Club auction. Stan enticed me to purchase a circuit board and an article stuffed into a Tupperware bowl for \$.50. As it turns out the article was from QST, March of 2001, and was about a "A Simple TRF Receiver for Tracking RFI". The circuit board was a completed receiver that Stan had built from a kit supplied from K1BQT for \$34. Wow! What a deal. Since EMI is broadband and amplitude modulated a rather simple AM receiver tuned to most any frequency can be used to detect it. Use of VHF is a good choice since the directional antenna can be of a reasonable size.



The K1BQT EMI Locator assembled with a Moxon antenna, support and earphones

I assumed it didn't work but decided one boring afternoon to check it out. I installed a 9-volt bat-

tery and the LED light came on. At that point I clipped a short antenna on it and radiated a 136 MHz AM signal from my signal generator. Using the earphones, I could hear it. Now that I had found it works, I was determined to complete Stan's project with packaging and an appropriate antenna.

For the case I used that from an old modem. I had a small meter so decided to include it in the case. I have since found there is not enough drive to operate the meter so will continue to rely on earphones until I add a meter signal amplifier.

The antenna is a rectangular Moxon, which develops a well-defined cardioid pattern. As a result, the strongest signal is noted at the front of the antenna and a distinct null can be noted when close- in to the radiated signal and using the back of the antenna. I verified its directivity using the 136 MHz AM signal radiated from my signal generator and it worked quite well. Total cost of the project - \$6.50. I had to buy the copper tubing for the antenna.



On the hunt for broadband EMI using the K1BQT EMI locator which detects broadband AM signals at about 136 MHz

While I don't have any EMI in the shack at the moment but when it comes I will be ready to track it down and eliminate the source – unless the source is the neighbor of course.

Radio Merit Badge Workshop Set for March 18

De Mike Yuhas, KC9GDV

Volunteer Instructors Needed

Club members Tim Boppre, KA9EAK and Mike Yuhas, KC9GDV are organizing a Boy Scout Radio merit badge workshop. The all-day session will take place at the Jackson Town Hall, in Jackson, on March 18. The Radio merit badge consists of three alternate tracks (amateur, short wave listening, and broadcast); our workshop will focus on amateur radio.

For many Scouts, this will serve as a great hands-on introduction to the world of amateur radio.

In order to bring a quality program to the participating Scouts from Dodge, Washington, and Ozaukee counties, we will need approximately six volunteer instructors to present the material. We'll hold a prep session a week or two before the workshop to review notes and assign specific program topics.

Think about your first exposure to amateur radio. Was it in an environment where an established ham shared freely of their advice and experiences? If so, why not repay the favor to our community's next leaders.

Sign up today! Please contact Tim or Mike via the ORC website.

Just Another Shack

De Tom Ruhlmann, W9IPR

While in HW we had the good fortune to visit the shack of KH6BB. And what a shack it was. Commissioned in 1944 it served not only in combat during WW II. but was also the site of the formal surrender of Japan to the allied forces in 1945.

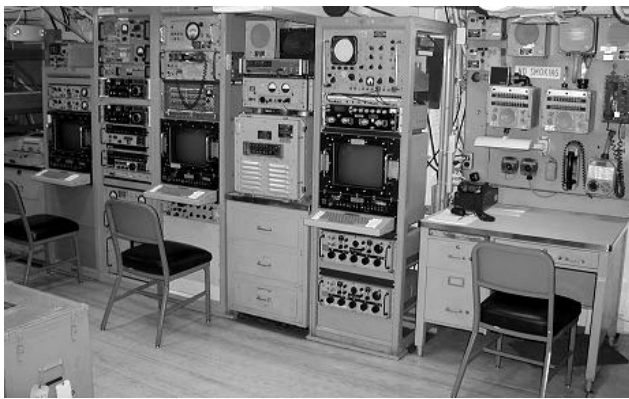
The Battleship USS Missouri was the largest, fastest, most powerful and most famous battleship of the US fleet. It was decommissioned for the second time in 1992 at Pearl Harbor and a group of retired radio operators later petitioned

to restore the radio room and use it as a club station.



The USS Missouri under way – what a shack!

The station call is KH6BB and they have about 50 members, most of whom are retired Navy radio operators.



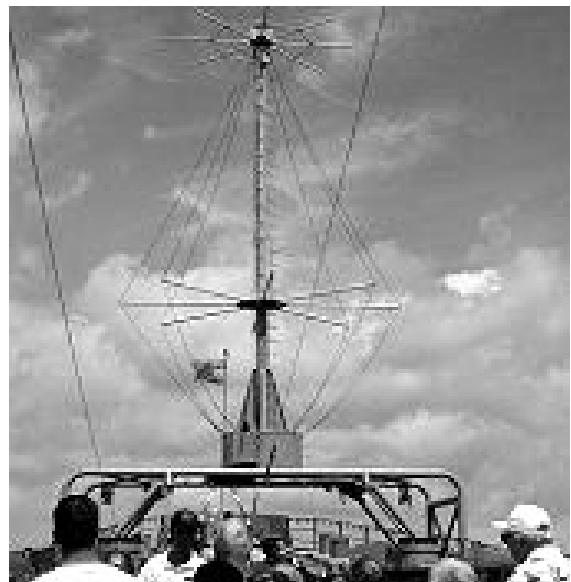
The port side of the radio room is impressive.

While there I talked with Bill Kendall, N0CO/KH, and he showed me the bowels of the ship. While much prized equipment is on display, including an R-390, the club is operating pretty conventional equipment on the ham bands.

The setup consists of a Kenwood TS450 transceiver driving an AEA amplifier of 600 watts. The tuner is also an AEA unit however it is interesting that the antenna on 10 through 80 is a discone 300 feet forward on the bow of the ship.



Tom Ruhlmann (W9IPR) with Bill Kendall (N0CO/KH) at the operating position of club station KH6BB on the USS Missouri



This 10 – 80 meter discone antenna is mounted at the bow of the USS Missouri.

The only other time I had seen a discone so large was during the 1960's at the Titan II missile sites.

If you would like to learn more about this shack, USS Missouri, to let them know you crewed on the Missouri or to schedule an operating time during your visit there, you can go to www.KH6BB.org

Upcoming Events

Feb. 1st – Board Meeting
Feb. 2nd – ARES Meeting
Feb. 8th – Membership meeting Gary Sutcliffe
(W0XT) speaks on UHF-VHF contesting
software
Feb. 12th – MRAC FM Simplex Contest
Feb. 15th – NAQCC Contest
Feb. 23rd – ARES Meeting – Spotter training
March 8th - Membership meeting – Jim
(KB9MMC) speaks on WinLink 2000
March 11th – Post Everything Party
March 31st - AES Superfest Saturday
April 1st – AES Superfest Saturday.

Don't forget the regular Tuesday ORC net and the Sunday night railroad net on "97".

Club Static

Some interesting web sites from Bob;
HAM RADIO MUSEUM
radioblvd.com/Welcome.html
HOWARD RADIO
members.cox.net/n7rk/howard.htm
NATIONAL RADIO www.io.com/nielw/mdex.htm

Congratulations to Nancy Stecker, KC9FZK, who passed her General Class exams in January. Looking forward to hearing you on HF Nancy. Perhaps I can enlist you to operate some 40-meter phone on Field Day.



Your Board at work at the Board meeting of February 1, 2006

Post Everything Party 2006

The date (March 11th) for the 2006 Post Everything Party is right around the corner. The committee has reserved the Rose Harms American Legion Hall at 1540 13th Avenue in Grafton. Go to the club website at ozaukeeclub.org to print a copy of the reservation form - but all we need are your names for the nametag and a check for \$16.00 for each attendee. Any club officer will also take your reservation money at Saturday breakfast, or at either of the two regular meetings between now and March 11th. The hall is larger and the program is coming together so we're expecting a big turnout this year. There will be plenty of time to socialize and learn a little something about other members and their spouses. Family and friends are welcome too. The more the merrier!! If you have any questions, especially new members, just give us a call Tom and Julia 262 242 1029 10335 N Grasslyn Road Mequon, WI 53092

Elmering Sessions

This meeting will mark our first session of "open elmering". This is planned as an open session where anyone can ask any technical or operating question of the group and expect an answer. Naturally, the quality of the answer will vary as a function of who is there that night.

Everyone who has a question, feels they may have some answers or who would just like to watch the "stump the old guys" activity is welcome.

We will meet at 18:45 (6:45 PM) in the basement at the Senior Center prior to the membership meeting. As an opener, we will have an MFJ antenna analyzer and portable dipole there to get the session started in the event there are no initial questions.

These should be fun sessions – open questions on test equipment, antenna, feed lines, operating modes, PSK, components, contests, etc. etc. What ever comes to your mind. Everything

you ever wanted to know about amateur radio but were afraid to ask.

Training

CERT (Civilian Emergency Response Team) training will again be conducted at the Justice Center. It is a 16-hour program, which provides the basics of first aid, search and rescue, fire control and situation management. You receive a backpack, eye protection and hard-hats as part of the training. The next sessions are:

February 18 & 19

March 18 & 19

May 12, 13 and 14

Red Cross Shelter Operational Training

This program will familiarize you with the essential operations of Red Cross emergency shelters. It will be on March 23 from 09:00 to 12:00 at the old courthouse in Port Washington.

Contact Jack Morrison at 262-238-8396 for more information or to enroll in either of the mentioned programs

ORC Board Minutes February 1, 2006

De Nancy KC9FZK

The meeting was called to order at 7:15 P.M. at the residence of Tom Ruhlmann W9IPR. A picture of the current board members in attendance was taken. Present were Tom Ruhlmann W9IPR, President; Ed Frac AA9WW, 1st VP; Leon Rediske K9GCF, 2nd VP; Ed Rate AA9W, Trustee; Vic Shier KB9UKE, Past President; Nels Harvey WA9JOB, Repeater VP; Nancy Stecker KC9FZK, Secretary.

Agenda: A motion was made by Ed and seconded by Leon to approve the agenda. Motion carried.

Announcements: Tom reported that letters had been sent to 39 members who had not yet paid dues for the current year. Discussion followed concerning the ORC newsletter as the best way to reach everyone. The matter will be turned over to the membership committee for follow-up action. There was discussion about the possibility of a fund-raiser involving an ICOM 706.

Approval of Minutes: A motion was made by Ed and seconded by Leon to approve the board minutes of the August 2, 2005 as published. Motion carried.

Project Reports: The Post Everything Party reported the Grafton Legion Hall would be the site this year with the Parkview Grill will be doing the catering. The cost is \$16 per person.

Old Business: No old business.

New Business: For the position of Trustee, Ed Rate's name was put before the board. Leon made a motion while Nels seconded the motion to name Ed as Trustee. Motion carried unanimously. A request was made by Ed to send a \$10 Incorporation Fee to the State of Wisconsin. The motion was so made and seconded. Motion carried. Ed also stated that there had been wonderful donations to the club scholarship fund last year.

After discussion of the budget, a motion was made by Nels and seconded by Vic to adopt the budget with the following changes: increase the Advertising and Printing budget from \$150 to \$300, include Telephone and Electricity at the barn in the amount of \$530 and add Equipment and Liability Insurance at the cost of \$462. It was also decided to separate the scholarship budget from the general budget. Motion carried.

The board reviewed the Calendar of Events for the year.

The Organizational Chart for Committees of the Ozaukee Radio Club was reviewed and modified. A motion was made the Nels and seconded the Leon to approve the chart. Motion carried.

The Chair entertained a motion to accept Policy and Procedure Number 8: Club Awards as presented and modified to include a Meeting Program of the Year Award. A motion was made by Nels and seconded by Leon to accept the new policy. Discussion followed and the motion carried.

The meeting was suspended for the purpose of discussing club award nominations. The meeting was reopened and a motion was made by Ed and seconded by Vic to adjourn. Motion carried.

The meeting was adjourned at 10:20 P.M.

Minutes—January 11th, 2006

De Nancy Stecker, KC9FZK

Vice-President Leon Rediske K9GCF called the meeting to order at 7:30 p.m., in the absence of the President.

Introductions: The members and guests introduced themselves.

Announcements: To be eligible to vote in today's election, the dues for 2006 must be paid.

Bragging Rights and Upcoming Events: Nancy KC9FZK passed the General Exam. Cindy KA9PZG

announced this is Crossing Guard Week. Ron W9BCK is going to run for Ozaukee County Supervisor. Leon K9GCF made an 80 meter CW contact in France. He also mentioned if visiting Florida in early February, look for the Tropical Hamboree and the Miami HamFest weekends. According to an ORC member, Tom W9IPR made contacts using a straight key for the first time in 40 years as a ham. GaryWI9M also made several contacts on Straight Key Night. Cindy KA9PZG talked about a "Fire Ball Alert" to be seen on the West Coast that will produce a large meteor scatter. There will be a Simplex contest on February 12. Nels WA9JOB attended the Waukesha Swapfest and said it was busy but there were empty tables. If you want to be added to the ORC remailer, please give Nels your name and e-mail address and he will add you to the list.

Program - Pandemics and Hams: Jack Morrison, speaking for Emergency Management, asked Ozaukee Radio Club members who are not OZARES members to volunteer in the event of the need for a mass inoculation, This could be the result of disease such as Avian flu or a terrorist act. Many hams would be needed to provide communication for the Ozaukee County Public Health Department. A sign-up sheet was passed around and in the near future, on-line registration will be available at <http://www.co.ozaukee.wi.us>.

Election Committee: The election committee consisted of Vic KB9UKE, Stan WB9RQR and Kent N9WH. Vic announced the nominees: Tom W9IPR as President, Ed AA9WW as First Vice President, Leon K9GCF as Second Vice President, Nels WA9JOB as Repeater Vice President, Tom AA9XK as Treasurer and Nancy KC9FZK as Secretary. There were no nominations from the floor. Gary WI9M made a motion to accept the slate of officers as presented, Cindy KA9PZG seconded the motion, and the motion passed unanimously, thus electing the entire slate as presented above,

Fellowship Break: Thanks Paul KD9FM for providing refreshments.

Auction: Stan WB9RQR held an auction.

Business Meeting: A motion was made and seconded to accept the minutes as printed in the ORC Newsletter, motion passed.

A motion was made and seconded to accept the treasurer's report as presented to the membership at the meeting, motion passed.

In the Repeater Report, Nels WA9JOB said there was not much activity on the repeaters. Everything seems to be working normally.

Committee Reports:

Audit Committee: Vic KB9UKE reported the audit committee will be meeting soon and a report will be ready for the February meeting.

PEP Committee: Tom AA9XK and Paul KD9FM talked about the plans for this year's Post Everything Party. The committee is excited about the new site, the Rose Harms American Legion Hall in Grafton. The cost of the dinner will be about \$16 with an additional charge for drinks. Make your reservations early for the March 11, 2006 date. It's always a good time for those attending.

Old Business: There was no old business.

New Business: Ron W9BCK would like the Board to consider instituting life membership for those hams who are in assisted living, nursing homes or other special circumstances. This would give someone like Hal W9RXJ, a founding member, now in assisted living out of state, a sense of continued belonging to the organization.

Attendance: **Leon K9GCF, Ed AA9W, Ted KB9RLI, Kent N9WH, Dave N9UNR, Ted KB9PQZ, Wil KB9HHR, Nels WA9JOB, Bernie AA9CI, Joe AA9HR, Gene KB9VJP,**

Jim K9QLP, Herb, WA9UVK, Jim N9WIU, Paul KD9FM, Mark KC9GST, Terry KA9RFM, Peter KB9URH, Ron W9BCK, Bob WQ9N, Tom AA9XK, Ray W9KHH, Ted N9LLT, Keith KY9P, Ron KC9DKQ, Mark AB9CD, Roger W9UVV, Carol KC9CBC, Julia KB9WBQ, Cindy KA9PZG, Nancy KC9FZK, Ron KC9DKQ, Michael WJ9O, Stan WB9RQR, Gary WI9M, Don W9VSC, Naomi KC9GSS and guests John Strachota W9FAD, Jack Morrison N9SFG, Bill Stolte N9VBJ, Patty Ruth of the Ozaukee County Health Department and Marvin Wagner from the Hotwireless Verizon store in Grafton, with his son Hayden.

Meeting Adjourned at 9:30p.m.

Nancy KC9FZK, Secretary

Post Everything- thingParty

Ozaukee Radio Club

March 11, 2006

new location new location new location

Rose Harms American Legion Hall

1540 13th Avenue

Grafton, WI

Cocktails 6:00

Dinner 7:00

hors d'oeuvres

Buffet dinner

awards and socializing

\$16.00 per person (gratuity included)

2006 ORC Post Everything Party Reservation Form

Callsign _____ Number attending ____ X \$16.00 = _____

Names of those attending _____

Make your check out to **Ozaukee Radio Club**

Tom and Julia Nawrot 10335 N. Grasslyn Road Mequon, WI 53092

AGENDA

February 8th, 2006

1. Call to order – Tom (W9IPR)
2. Introductions.
3. Announcements, Bragging Rights, Show & Tell, Upcoming events, Etc.,
4. Program: Contesting Software, Gary , W9XT
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.
PEP -
Membership –
Public Relations –
Youth Program –
Nominating –
Swapfest -
Field Day -
12. OLD BUSINESS
13. NEW BUSINESS
14. Adjournment to ?

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, February 8th

6:15 PM (Elmering)

7:30 PM (Meeting)