



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.



AMATEUR RADIO

ORC Repeaters on 146.97, 224.18 and 443.750 MHz -
Callsign W9CQO Web site: www.ozaukeeradioclub.org

Volume XXVII

January 2008

Number 1

The Prez Sez *(for the last time)*

By Tom Ruhlmann (W9IPR)

Well this is the last of my messages for "07 and the last of three years as President. It has indeed been an interesting and I think, productive, three years.

Our membership numbers have continued strong with new members and a roster in the area of 130; the financial condition has continued strong with increased money in the bank and a scholarship fund of now over \$20,000; growth of existing projects; introduction of new projects; and competitive successes.

The continued success of our largest project, Field Day, has been especially pleasing. We have placed either 3rd or 2nd in the nation these past several years. It is not only good practice for a total emergency it is fun and a good time socially. Special thanks to the event chairmen, Leon Rediske and Ken Boston, and the band captains as well as to Mark Potash who fabricated the various antenna towers and led the mobil tower refurbishment efforts. This project makes one proud of the ORC organizational, operational, fabrication and communications capabilities.

It is the traditional service projects that bind the core of the organization and these continue to thrive. These include the projects such as "Fish Day" parade in Port Washington, Grafton Christmas Parade and the Saukville River Clean up. New to the service activities this year is the MS Walk. I have enjoyed working on these projects. I guess it's nice to be needed.

The Circle B swapfest in May is another of our traditional projects. While the attendance and income have declined somewhat we have intro-

duced some new ideas that will hopefully continue it as our major moneymaker and an area social event.

Also, with respect to competition it was great to see Bob Truscott organize and motivate the ORC to capture first place in the 2007 Wisconsin QSO Party sponsored by the West Allis Radio Amateur Club.

Two of the great new projects are the September outdoor "Hobby & Amateur Radio Swapfest" and the "Lighthouse Activation" project. Who DA think it?

Well Ray Brunette (W9BUJ) thought up the outdoor swapfest for 2006 and chaired our first effort in the Circle B parking lot. The second year it produced a profit at Fireman's Park and it appears to have a productive and profitable future at that venue.

The "Lighthouse Activation" project was originated and chaired by Paul Schumacher (KD9FM) and Tom Nawrot (AA9XK) and provided a great time operating on the banks of the Port Washington harbor and good PR for the ORC. Plus, ORC took 3rd place ranking in the national ratings – not bad for the first effort.

In terms of training it was pleasing to see Mark Tellier originate the "Elmering program" preceding the regular meetings and taking on the license upgrade training for this upcoming year.

The ORC has also started to become more involved with our community youth through our BSA activities led by Mike Yugas and Bill Howe. In addition, we are now presenting "amateur radio as a hobby" at the Cedarburg Parkview Elementary School Opportunity Day event. Our future is with our youth so I was especially pleased to see increased activity in these areas.

An important aspect of any group is its social side. It has been especially enjoyable to participate in the on-going Post Everything Parties, Corn Roast's, membership meeting breaks, Saturday morning breakfast's, swapmeets and mutual aid parties when someone needs an antenna erected or rig repaired. Most of the individual learning occurs at the membership meeting and these informal gatherings. The ORC camaraderie is a most important aspect of membership.

I was also pleasantly surprised at the success of the uniform project. The ORC jackets and caps look great and provide personal and organizational identity - and the orders continue to come.

It has been especially significant to me that the Board of Directors had the insight to review the ORC Constitution and By-laws and has created changes and procedures that should assure the long term organizational and fiscal viability of the group.

I appreciate the opportunity to represent the membership these past three years and am grateful to the board members and project chairmen with whom I served for having made it an enjoyable experience.

Contesting

De Bob Truscott (W9LO)

Life is full of tough decisions, and choices must be made when you find that two of your most overwhelming passions are going to compete for your time on a particular day. When that happens one or the other is surely going to suffer and come up short of your expectations. That's my situation on Jan. 12. I've been looking forward to The North American QSO Party (CW), scheduled for that date, ever since I bombed out in that same contest last August. It's a great contest in which you can work any station once on every band from 160 to 10 meters. It's only fault is that it lasts for just 12 hours and you may operate for only 10 of those hours. Normally this is not a problem, but on Jan. 12 of this year it is, and you can blame the Green Bay Packers for that. It seems that the

NFL has scheduled the Packers first playoff game right smack in the middle of the QSO Party. They didn't have to do that—they could have scheduled the game for Sunday just as easily, but instead they chose to alienate all the CW contesters in Wisconsin. I don't know how they can afford to treat fans so shabbily—there must be at least 10 or 12 of us who are very upset about this thoughtless scheduling. So what's the solution? I'm going to penalize the NFL by not watching their half-time show. I'll spend those entire 12 minutes trying to make up for lost time in the contest. GO PACKERS!

Coming up in January:

Jan. 12 The North American CW QSO Party—1800Z—Rules in Jan. QST, page 98.

Jan. 19 The North American Phone QSO Party—Same as above.

Jan. 19 ARRL January VHF Sweepstakes—1900Z—Rules in Jan. QST, page 98.

Jan. 26, CW WW 160-Meter Contest-CW— 0000Z—Rules in Jan.QST, page 98.

Those of you who are not Packers fans, feel free to work the entire NA QSO Party on Jan. 12.

Have fun contesting.

Upcoming Events

January

- 1st Straight Key Night
- 5th WARAC Swapfest at Waukesha
- 5th-6th ARRL RTTY Roundup
- 6th Kids Day
- 9th **Membership Meeting**
- 12th **ORC General Class Training Class**
- 19th–20th ARRL January VHF Contest
- 19th **ORC General Class Training Class**
- 26th **ORC General Class Training Class**

February

- 2nd **ORC General Class Training Class**

8th – 10th Orlando FL Swapfest

9th ORC General Class Training Class

16th ARRL Intl. DX CW Contest

16th ORC General Class Training Class

The Sudden Storm QRP kit

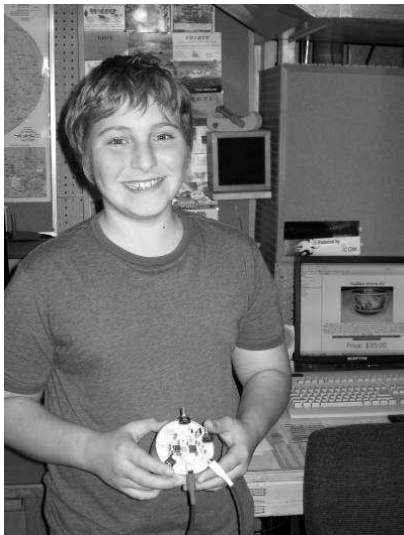
De: Dominic Brope, W9KKX

Over the Christmas holiday I built a Sudden Storm QRP kit. It is a crystal controlled receiver.



40-meters in a can. Yes, it really is built on a tuna can. Really basic QRP.

The version that I have is for 40 meters. Mine came with a crystal for 7.040 MHz. The kit included a printed circuit board that mounts on a tuna tin and all the necessary parts.



Dominic (W9KKX) and his completed "Sudden Storm" 40-meter QRP receiver kit on a tuna can.

I assembled the kit in an afternoon and when I completed it did not work. My dad and I worked to troubleshoot the problem and found three errors. One jumper was incorrectly placed in the instructions and the circuit board did not have traces to the ground pins of the two ICs. With these problems corrected the receiver worked fine.

The kit was a lot of fun to build. I have the matching 40m CW transmitter and am building it as well. The kits are pretty nice and there are a number of models to choose from. If you are interested in these kits go to www.qrpme.com for more information.

Dues are Due

Per the Constitution the ORC has only two classes of membership. They are "Regular Member" and "Family Member". Regular Member dues are \$15 while there are no dues for a Family Member.

ARTICLE 1: MEMBERSHIP

- 1.1 *An interest in Amateur Radio and payment of dues shall be the only requirements for membership. By paying dues each member consents to be governed by the bylaws of the corporation as they presently exist or as they may be amended or changed in the future.*
- 1.2 *Failure to pay dues prior to or at the annual meeting of any calendar year shall immediately suspend the right to vote on Club matters until the delinquency is rectified. Individuals who are still delinquent as of March 1 shall have their membership terminated.*
- 1.3 *Membership may be terminated for cause at any time by the majority vote of the Board of Directors. An individual whose membership has been terminated for cause by the Board of Directors shall, upon request, be entitled to a hearing and review of the Board of Directors decision at a regular meeting of the corpo-*

ration.

1.4 *The corporation is to have two classes of members, as follows:*

1.4.1 *REGULAR: REGULAR members shall receive all benefits of membership including voting at membership meetings on Club issues.*

1.4.2 *FAMILY: FAMILY members have all the privileges of their sponsoring member except the right to vote at membership meetings on Club issues. The FAMILY member may however, serve on the Board of Directors and vote as a member of the Board.*

1.4.3 *FAMILY membership shall be afforded to those persons who apply for FAMILY membership and who are children or spouses of REGULAR members and who are living in the same household. Children and spouses of REGULAR members are eligible for FAMILY membership on a continuing basis.*

Nominations for ORC 2008 Board of Directors

The Nominating Committee nominates the following ORC members to serve on the ORC Board of Directors for the 2008 fiscal year:

President:	Mike Yuhas, AB9ON
Internal Vice Pres.	Bill Howe III, KA9WRL
External vice Pres.	Tom Nawrot, AA9XK
Repeater Vice Pres.	John Schrader, W9NRG
Secretary	Tim Boppre, KA9EAK
Treasurer	Nels Harvey, WA9JOB

The current President, Tom Ruhlmann, W9IPR, will continue to serve on the Board as Past President.

The Club Trustee is Ed Rate, AA9W. This is a position appointed by the Board of Directors.

The Nominating Committee consists of:

Vic Shier, KB9UKE, Past President
Tom Ruhlmann, W9IPR, Retiring President
Ed Rate, AA9W, Trustee
Stan Kaplan, WB9RQR, Member

The elections will be conducted by the Nominating Committee at the Annual Meeting on January 9th 2008. Should any other ORC member wish to be considered for the above elective offices they may be nominated from the floor.

Voting for "Ham of the Year" and "Turkey of the Year" will be conducted at the February, 2008 membership meeting.

Club Static



Dominic (W9KKX) and his dad Tim Broppe (KA9EAK) both received great gifts from Santa – new ORC jackets and classic antique Vibroplex keys

HDTV 101 - a primer

De Nels Harvey, WA9JOB

All analog stations will go off the air on February 17, 2009. Digital television has the capabilities to bring much more detail. A digital channel can be split into several different programs. Just because it is digital doesn't mean it's High Definition.

Multi-programs means lower quality definition. Digital channels identify with their source channel. Digital channels aren't the same as the original channel.

A digital Ch. 6 says 6-1, but actually is on Ch. 33. Digital Ch. 10 shows 10-1,10-2,10-3,10-4,10-5,10-6, 10-7,10-8.

All those are actually transmitting on Ch. 8. In 2-09, some stations will revert back to their root channel. Ch. 18 digital is on Ch. 61. Ch.4 digital is on Ch.28.

Ch. 2 through 6 & above Ch. 60 go away 2-09, above Ch. 52 later. Ch. 18 will revert back to Ch. 18 then.

Some channels won't revert.

Ch. 4 & 6 go away forever on those channels. They'll stay on Ch. 28 & 33.

Satellite and cable will maintain analog channels for a time. Eventually, they will need the bandwidth for High definition signals.

Picture stuff:

Progressive means the lines start at the top, and move to the bottom.

Interlaced means every other line starts from the top to the bottom

The second scan brings the in-between lines from top to bottom.

The number of lines, 480-I, is what we have now. I = Interlaced.

720-P is a not so high definition program feed. P = Progressive.

1080-I is probably the best that will be seen from the networks.

Some networks are only using 720-P.

Some think sports and fast motion is better with 720-P.

1080-P is considered by some to be true high definition.

1080-P is only available now on HD-DVD's and Blu-Ray DVD's.

High definition needs a screen larger than 27 inches, or so to benefit.

720-P looks just great on screens from about 36 inches to the forties.

1080-I looks great for larger screen sizes but 720-P still is very good.

Pillar-boxes are those black bars on each side of the picture.

Letterboxes are those bands at the top and bottom of a picture.

Standard definition pictures will have pillar-boxes on wide screens.

Some wide screens can process the picture to expand, and fill the screen.

Some just stretch the picture, others process it to look more natural.

sometimes both pillar-boxes and letterboxes occur at the same time.

You didn't do anything wrong. Just get used to it!

Tuners:

Beware, some wide screen TV's do not have digital tuners!

You need both the analog and digital (NTSC & ATSC) tuners.

It's better to have more than one HDMI port on the TV. HDMI ports are high definition video inputs. Think HDTV DVR's.

TV Sources:

Cable, Over the Air, DVR's, and Satellite little dishes.

Cable and satellite have DVR's (Digital Video Recorders) for rent or sale.

Some DVR's aren't high definition capable.

Satellite and Cable charge extra for high definition programs.

Channel Master #4228 is an excellent over the air antenna.

TV Types:

Plasma, LCD, DLP, and vacuum tube.

Plasma is the skinny one you can hang on the wall. It costs a bit more.

LCD is also pretty thin, and can hang up too. It uses a mercury vapor lamp.

DLP directs the video to the screen through a rapid spinning mirror ball.
LCD's and DLP's have a soft motor noise that can be heard.
Large vacuum tube sets are too heavy.
Best of all, "Shop around".

73, Nels, WA9JOB

UPGRADE TO General

The ORC and Milwaukee Radio Amateurs Club (MRAC) are jointly sponsoring a six- week training class for Novice and Technician class operators to upgrade to General. The primary instructor will be Mark Tellier (AB9CD) and he will have a supporting cast of other instructors from the ORC.

The classes will be held at:
Cedarburg Police Department
W75 N444 Wauwatosa Road
Cedarburg WI 53012

The text is "The ARRL General Class License Manual" which is available at Amateur Electronics Supply (AES).

The first session is Sept 12th and the training will continue on successive Saturday mornings from 08:30 to Noon. There is no fee for the course.

This is a great program for learning the material for upgrading and also for just learning about amateur radio operating practices & procedures, FCC Regulations, ARRL Programs, radio propagation, commercial and "home brew" equipment and electrical safety.

To enroll, email ab9cd@arrl.net with name, call sign, address and phone number. Put GENERAL CLASS in the subject line. As an option, contact Tom Ruhlmann, W9IPR at 262-377-6945 or email teruhlmann@sbcglobal.net.

By Stan Kaplan (WB9RQR), Column Editor

There was no OZARES meeting in December, as is customary.

Your editor is happy to report that his **WinLink 2000** station is up and operating. Getting it set up has been a work in progress for over a year, and it is great to see it done. The main problem was my inability to hit a PMBO (Participating Mail Box, a radio message server) in Milwaukee, which I solved by building a 3-element Yagi and pointing it south. Then, Jim Darrow (KB9MMC, ASEC for Digital Communications, WI ARES/RACES) graciously helped me to set it up properly on the computer. Setting up the software is not an easy task since it requires the interaction of four separate programs to work.

So, **what is Winlink 2000?** It is simply a way to move messages worldwide among hams. It will use the Internet when it can, but it is not dependent upon the Internet. Even if the Internet was down world wide, the messages could get through! It does depend on a main server, but there are three of these, called Redundant Common Message Servers. One is located in San Diego, one is in Detroit, and one is in Perth, Australia. If any one of these is up and running, the messages will flow, worldwide. Currently there are about 10,000 users and 100,000 Internet recipients, with about 150,000 messages moving each month. The system has served the maritime community (currently daily, to locate lost vessels), NOAA, the United Nations, the US Coast Guard and many others. It is a fantastic communications tool for emergencies.

Want to try it? You can send me an ordinary email message addressed to **wb9rqr@winlink.org**. Your message (and my reply) may travel via UHF, VHF, HF or the Internet, or any combination and permutation of these modes.

NET CONTROL SCHEDULE: OZARES nets are held each Thursday at 8:00 p.m., except on meeting nights (4th Thursdays). Both a net

script and check-in list can be obtained on the OZARES web site, www.ozares.org. If you are scheduled for NCO duty and cannot make it, it is your responsibility to find a substitute. Check the complete schedule on the web site for possible hams to trade dates with, and keep the net manager (WB9RQR) informed of confirmed trades. Guests are welcome after the OZARES check-ins are complete, *most especially ORC members!* By the way, if you see a difference between the schedule on the website and this column, this column will always be correct, since it reflects last minute changes and substitutions. Such changes and substitutions to the website version will be in **bold print** here.

03 Jan	WB9RQR
10 Jan	AB9ON
17 Jan	K9GST
24 Jan	Meeting
31 Jan	KC9FZK
07 Feb	WB9RQR
14 Feb	WD9HOD
21 Feb	W9IPR
28 Feb	Meeting
06 Mar	W9KHH
13 Mar	WI9M
20 Mar	WJ9O
27 Mar	Meeting

Minutes— July 12th, 2006

De Nancy Stecker, KC9FZK

Ozaukee Radio Club Regular Meeting

December 12, 2007

De Nancy Stecker KC9FZK

Mark AB9CD held a 6:30 p.m. Elmering session on the Smith Chart.

The regular meeting was called to order at 7:30p.m. by President Tom Ruhlmann (W9IPR) at the Grafton Senior Center. Members and a guest introduced themselves.

Announcements, Upcoming Events, Etc.:

Congratulations to Mark (KC9GST) who upgraded to Extra Class. Tom (W9IPR) made a contact in Mozambique. Marc (N9ZF) contacted 2 more states on 160 meters. Dave (N9UNR) talked about the process to set up his HF radio in his car, with thanks to many helping hands.

Upcoming events in January are: Jan. 1- Straight Key Night, Jan. 5-WARAC Swapfest in Waukesha, Jan. 6-Kid's Day, Jan. 12-Class begins for General class at Cedarburg Police Department. Ed (AA9W) said over 65 scholarships are available from FAR. Go to www.amateurradio-far.org/scholars.htm for further information about scholarships. Nels (WA9JOB) invited members to enjoy the cookies and donuts. Dave (N9UNR) had a few call sign tags for members to pick up.

Program: Television Productions by Bill Howe KA9WRL:

Bill (KA9WRL) talked about his long history in television. He showed clips of the award winning commercials he produced and directed along with humorous antidotes about TV personalities.

Fellowship Break: Members enjoyed a short break.

Auction: Stan (WB9RQR) held an auction of donated material. Afterward, Kent (N9WH) won this evening's 50/50 drawing.

Business Meeting: The chair entertained a motion to accept the minutes of the board meeting and the regular meeting as printed in the December ORC Newsletter. Mike (AB9ON) made such a motion; Stan (WB9RQR) seconded the motion. The motion passed.

Treasurer's Report: Nels (WA9JOB) placed copies of the treasurer's report on tables and noted the expenditures of \$1500 for scholarship fund, rents and other items. The chair entertained a motion to accept the treasurer's report. Dave (N9UNR) made the motion and the motion passed.

Repeater Report: In the absence of the Repeater Vice President, Nels (WA9JOB) said the committee was working on a request for a radio for the Grafton Police Department. A link from the Grafton Fire Department is not working and is being repaired. The .97 machine is working and work on the 220 repeater is continuing.

Committee Reports:

Membership Committee: John (W9NRG) and Nancy (KC9FZK) will work on the Membership Committee; John on recruitment of members and Nancy will develop a welcome packet for new members.

Training Committee: Mark (AB9CD) announced there would be a General class beginning January 12, 2008 on seven Saturday mornings at the Cedarburg Police Department. Testing will be available after the class is completed. Dave (N9UNR) will try to get the new edition of the manual to the Cedarburg Public Library for circulation. A sign up sheet was on hand for those interested in taking the class and for those willing to assist in teaching.

PEP Committee: The president reminded members of the March 8, 2008 date for the Post Everything Party.

Awards Committee: At the February 2008 meeting, the Ham and Turkey of the Year Awards will be voted on. Look at Policy and Procedure #8 on the Ozaukee Radio Club Website for information on all the awards given and take time to make recommendations to the board for those deserving members. Board members are looking for your suggestions

Nominating Committee: Nominating Committee members are Tom (W9IPR), Vic (KB9UKE), Ed (AA9W) and Stan (WB9RQR). They are nominating the following people for the 2008 Board of Directors: President Mike Yuhas (AB9ON), First vice-president Bill Howe (KA9WRL), Second vice-president Tom Nawrot (AA9XK), Treasurer Nels Harvey (WA9JOB), Repeater vice-president John Schrader (W9NRG) and for Secretary Tim Boppre (KA9EAK). Tom Ruhlmann (W9IPR) will automatically assume the Past President position. The board appoints Ed Rate (AA9W) as Trustee.

Jacket Committee: As treasurer, Nels (WA9JOB) requested a clarification about the cost of hats and jackets. The cost for a hat is \$15 to be paid to the club and then the hat is

taken to Uselding's in Port Washington for the name and call sign to be stitched, there is no further cost involved to the member. If a single jacket is ordered, the cost of a standard size is \$60, \$65 for the extra, extra large size. If there were a group of six ordered, there would be a \$5 discount per jacket.

Old Business: None

New Business: None

Good of the Order: Mark (AB9CD) said testing would be held at the bowling alley across the street from the WARAC Swapfest in Waukesha on January 5, 2008.

In response to a question from the floor, the contract with the Grafton Senior Center for the room rental will remain the same as in the past according to the President.

Attendance: Twenty-nine members and one guest attended the meeting: Members Dave N9UNR, Kent N9WH, Stan WB9RQR, Ed AA9WW, Ed AA9W, Jim K9QLP, Nels WA9JOB, Ron W9BCK, Terry KA9RFM, Chuck WA9POU, Nancy KC9FZK, Miko W9FIN, Doug N9KG, Roger W9UVV, Mark AB9CD, Mike AB9ON, Bob W9LO, Marc N9ZF, Tom AA9XK, Mark KC9GST, Mike N9JIY, Don AA9WP, Tim KA9EAK, Dominic W9KKX, Bill KA9WRL, Tom W9VBQ, Ken W9GA, Vince KB9ZOT, Tom W9IPR and guest John Strachota W9FAD.

Adjournment: Dave (N9UNR) made a motion to adjourn the meeting at 9:25p.m. The meeting was adjourned

Ozaukee Radio Club, Inc

2008 Membership Application/Renewal Form

Call Sign _____ Year first licensed _____ Age _____

Novice Tech General Advanced Extra

Name: _____ ARRL Member? Yes No

Address: _____

City: _____ State: _____ Zip: _____

Phone No. (day) _____ (evening) _____

E-Mail _____ (if you want to be listed on ORC Web page)

Do you want to be placed on the ORC "remailer" to get group email's Yes No

Areas of interest:

HF UHF-VHF Construction Projects Antenna Computers Satellites APRS CW
 SSB AM FM Digital Modes Portable Mobil Fixed Fox Hunt Ground
Systems Software QRP Contesting ARES Community Service Collections
 WAS & DXCC Boat Anchors Linears Newsletter "Elmer'ing" Presenting Programs
 Photography Club Management Community Service Test Equipment Equipment
Repair & Restoration Surfing the net

Regular Membership - \$15.00 **Family Membership - No Dues**

Make check payable to: Ozaukee Radio Club

c/o Nels Harvey (WA9JOB) 2104 W. County Line Road, Mequon, WI 53092

The newsletter is available at www.ozaukeeradioclub.org (web site version encouraged). Do you require a hard copy through the snail mail? Yes No

Check which of the committees on which you would like to serve:

Post Everything Party Cornroast Field Day Membership
 Newsletter Swapfests Youth Meeting Programs Training
 Public Service Events Scholarship Public Relations Repeater
 Website "Net Control" Roster Audit Nominations Other

Spouse's Name: _____ & call sign: _____

Comments: _____

AGENDA

January 9th, 2008

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 – Nels (WA0JOB).
9. Repeater report – John (W9NRG)
10. Committee reports.
Membership –
Youth Program – Opportunity Days @ Parkview
Training -
11. OLD BUSINESS
12. NEW BUSINESS
A. Elections
13. Good of the Order
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 7th Avenue, Grafton

Wednesday, January 9th

7:30 PM