



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

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Number 4

The Prez Sez

By Tom Ruhlmann (W9IPR))

Again, it's been a fun month in terms of HAM radio activities. First, there was the WI-QSO Party. Then I finished an "L" type antenna tuner and that was followed by the Swapfest at Jefferson and the AES Superfest.

The WI-QSO Party was really a blast. My wife was on a quilting weekend so it was just me and the dog. After checking the bands several times I just stayed on 75 meters SSB and operated most of the period between walking the dog and opening a can of spaghetti for supper. It was fun. I made about 135 contacts and worked about 39 of Wisconsin's 73 counties. Thanks to the mobilers during the contest I was able to get a few of the more difficult WI counties and am now enthused about trying for the rest of them next year. Bob Truscott (W9LO) tells me that our club score looks pretty good – about what the winner (Fond du Lac) had last year. The Fond du Lac club had all of their first place plaques on display at Superfest. Perhaps we will be "first in show" next year.

The antenna tuner had been in process for several months and I finally obtained the last of the junk box parts and finished it. Actually this project is what prompted me to buy the new ARRL Antenna Handbook so I could use the accompanying software related to antenna and antenna tuners. It's really neat software. I am still learning how to use the analysis software but I highly recommend it. It even calculates the values of components required for different types of antenna tuner and antenna combinations. Really informative.

The Jefferson swapfest is one of the smaller ones but fun none the less. Ed Rate (AA9W)

and I went and we distributed another 250 flyers for the ORC May 5th Swapfest at Circle B.



Ed Rate (AA9W) was busy distributing ORC Swapfest flyers at the swapfest at Jefferson WI. Flyers are most productive in getting the regulars to the Cedarburg ORC event.

Only one item caught my eye and that was an UHF Power/SWR Meter with "N" connectors for \$5. It sort of works and it does look nice on the shelf.

The AES Superfest was great. Many vendors, Club tables and attendees. The ARRL was strongly represented by Section Manager Don Michalski (W9IXG), Area Director George Isley (W9GIG) and ARRL President Joel Harrison (W5ZN). Friday evening was especially memorable in that Nels Harvey (WA9JOB) and I had dinner with Joel Harrison and George Isley at Ferrante's in Thiensville.

It was an interesting evening and I found that Joel feels strongly about protecting amateur ra-

dio's frequencies and privileges, support and recognition of HAM volunteers and capabilities and the HAM community experiencing and supporting new technologies.



George Isley (W9GIG), Nels (WA9JOB), Tom (W9IPR) and Joel Harrison (W5ZN) enjoyed a fish fry and discussions about the future of amateur radio and future ARRL lobbying efforts to protect the hobbies privileges.

The ORC was well represented at Superfest a host of ORC members manning the ORC, LAFROG, OZARES and BSA-JOTA tables. It was a generally good time with some learning at the seminars and with the vendors and there was much socializing.

What's coming up? April 11th is our membership meeting and April 21st there is the Madison ARRC swapfest in Stoughton. That is always well attended and it will be our last chance to promote our ORC May 5th Swapfest at Circle B.

We had a Swapfest committee meeting April 4th and worked out the final details. It promises to be a great event with two forums, many door prizes and a club management circle. This is our main moneymaker for the year and through it we are able to operate our repeaters and support field day, etc. We will be looking for volunteers to work the event at our April 11th meeting. Be sure to volunteer – it's productive, informative and fun. Looks like we will have more door prizes than ever.

Actually, April will be our final preparation for not only the ORC swapfest and also our final preparation for the presentation of HAM Radio at the Parkview School Opportunity Days on May 4th. We had a half-day activity for the kids last year and this year they asked us to provide a full day of HAM radio for the kids. Two sessions in the morning and another two in the afternoon. They are already booked full with 15 kids each. We plan to have CW, FM, HF and the OZARES emergency vehicle all operational for the day. If you are not part of the "school" contingent, be sure to be on the air so we have someone to talk too. Should be a lot of fun. It was last year.

So April and May are shaping up as a pretty active period --get involved and have some fun.

WI 2007 QSO PARTY

De Bob Truscott (W9LO)

The party's over, and it was a mixture of good and bad. Forty meters, our usual "bread & butter" band for Wisconsin counties was a total crop failure. Skip was long by the time the party started, and remained that way for the rest of the day. The bright side of that is that it affected all the other clubs the same way, so a lot of us had lower scores than last year. Eighty meters, on the other hand was very good, and partially made up for the poor conditions on 40.

Perhaps the best news is that at least 19 club members participated this year, up from 11 last year. (There may have been others that I don't know about, or missed because of my shoddy record keeping.) This resulted in a substantial increase in our overall club score. The total reported was 466,021.5 points, about 700 below the 2006 winner. That makes ORC a solid contender for first place honors. Congratulations to all who participated—a job well done.

	CW	Phone	Mult.	Score
N9FH	345	136	101	125,139
W9XT	268	122	98	96,726
W9LO	295		85	75,225

W9VBQ	148	34	68	33,660
K3GGN	220			27,300
K9GCF	68	112	61	22,692
WI9M/M	98		46 +3000	16,524
KD9F	2	161	66	16,335
KC9DQK	138		61	12,627
W9GA	45	64	48	11,088
W9IPR		135	52	10,530
KA9WRL				5,160
AA9WW/M		55	20 +2000	3,650
WQ9N		63	34	3,213
W9KHH	50		20 (?)	3,000
WB9RQR		41	25	1,537.5
W9NRG				734
AA9W				641
AA9WP				<u>240</u>
				466,026.5

These numbers are tentative, and will have to pass the test of cross checking by the WARAC, but they certainly are impressive considering the band conditions during the party. My apologies to anyone I may have missed. There is strength in numbers—let's try for 30 logs next year.

Have fun contesting, Bob, W9LO

Just Another Shack

Ed Rate (AA9W) grew up in an Ocean front town that was about 60 miles from NY City. In High School his sophomore class took a field trip to a Technical school near by and there Ed witnessed kids talking to Cuba on HAM radio. That was it, Ed found an exciting hobby that allowed him to span the globe and which eventually led to his career as an electrical engineer.

Upon returning home Ed took an evening course in HAM radio and electronics conducted by W2PDU (pretty dam ugly) and followed up by earning his "Class B" FCC license in 1949. The "Class B" was about like a General Class created some years later in that it required 13 wpm of code and a theory exam. His first station consisted of a "home brew" single tube (6V6) oscillator for a transmitter and an Echo Phone receiver made by Hallicrafters during WWII. His first antenna was a dipole fed with 300-ohm twin lead and which was secured to the side of his neighbor's house. While the antenna worked

well the local Power Company subsequently removed it since it was strung above the residential power lines.



Ed at his operating position with his ICOM 765 and digital equipment. Notice he uses his left hand on the key and claims to be ambidextrous using his right hand on the mike.

Ed continued his evening technical studies and within a year, he earned his Second Class Telegraph commercial FCC license. This would have entitled him to operate as a shipboard radio officer however; he wasn't that interested in leaving home while still in high school.

Upon graduating from High School Ed went to a local Technical Collage where he learned the "hands on" skills which led to his employment at General Electric and which he still enjoys today. Then it was "draft" time and Ed spent the following couple of years in NC in the Special Warfare Group at Ft. Briggs.

Following his discharge he returned to Syracuse to earn his BS in Electrical Engineering and continue working for GE. Once earning his BSEE he continued on to earn his MBA at NYS Union Collage. During his 40 years with GE he has lived in several states and spent considerable time in Paris at a GE electron tube facility. Electron tube design and Electron Tube Optics became Ed's specialty.

Some of his military projects included the Mark 35 & 43 torpedo's, Navy radar systems, MP-4 mortar round tracking system, Dew Line radar range systems and the F-16 Tomcat electronic warfare displays for the weapons officer in the back seat.



Ed spends much time at this workbench in the basement when not using the metal lathe or operating his ICOM 765.

Among his more interesting civilian projects are a variety of medical & dental x-ray type tubes, monitor tubes used in GE and RCA television camera's and image converting tubes used in GE equipment with the Apollo program and which remain on the moon today. His fondest memory is that of having been an integral part of the small team that invented and developed the original GE mammogram equipment that forms the basis for today's CAT scan technology. As a result of his GE work he now holds five patents in the field.

As for his HAM radio activities, Ed has written numerous articles for the Ham Radio and CQ magazines and designed a number of unique antenna including his "Electricians Delight" for 2 meters and 6 meters and the "Phantom Slot" antenna's he designed from copper tubing for the 144, 220 and 440 MHz bands.

His main rig at the "Shack" is an ICOM 765 followed by a Drake 2000 antenna tuner. While Ed tends to favor CW (to relieve the stress) he also operates HF SSB, Packet and PSK-31.



Ed points to his 6 meter "Electricians Delight" which is patterned after the 2-meter version he designed and wrote up in CQ magazine. In the background is his new DX-88 HF vertical – almost invisible.

Ed has been a member of ORC for many years and has served as the Treasurer, Secretary and for the last 17 years as Trustee. Currently he is deeply involved in marketing equipment donated to the Scholarship Fund through e-Bay etc. Over the years he has been named "Ham of the Year", "Turkey" and in 2006 received the "Club Service Award".

Ed has been an integral part of the ORC over the years and has a unique "Shack" with an up-stairs operating room and a basement shop. If it's broke, he can probably help you to fix it.

Welcome to Ten Meters

By Gary Sutcliffe, W9XT

As every ham not living in a cave knows, the FCC dropped the Morse code requirement for all Amateur Radio license classes effective February 23, 2007. As part of this move holders of the no-code Technician class get some HF privileges. These include CW on 80, 40, 15 and 10 meters, but also data and phone privileges on 10.

Because of that, I expect 10 meters will be the most interesting to those getting access to HF for the first time. Ten meters has long been my favorite band, and the purpose of this article is to introduce you to it.

For equipment you will of course need a radio that has 10 meters. That is about all I will say about the radio. That will be your choice.

Antennas are very practical for 10 meters. A half wavelength is only about 15' for this band. A dipole is very manageable, as is a vertical. Some hams cut down CB verticals for this band. Even a 2 or 3 element Yagi can be supported by a tripod on the roof and a heavy duty TV rotor or light weight ham rotor.

For working long distances, you want to get you antenna up high. One wavelength is a good minimum height. Because of the short wavelength on 10, getting your antenna up even 30' can be very effective.

Propagation and noise levels are what makes this band special. First of all it is a very quiet band. Static, or QRN, is very low. Signals that do not move the S-meter are often perfectly copyable. That makes even low power stations effective. All your power is not used just overcoming the static as is often the case in the lower HF bands. Just because you can hear weak stations on the band, not all signals are

weak. You will also hear some very loud signals, many from small stations.

Ten meters is a great band for working DX. It is also a very large band giving everyone room to spread out to avoid QRming each other. It just so happens that the phone band frequencies usable by the lower class licenses are also the prime DX frequencies.

DX follows the sun on this band. In the morning you will work stations to the east. Europe will open up around our sunrise. Later propagation will open to Africa and then swing further south to the Caribbean and South America. Propagation to Eastern Europe will fade as the morning progresses and eventually Western Europe will disappear after darkness falls over there.

About that time the band will open to the Pacific, starting with Hawaii. A little later as the sun rises in the area, other Pacific islands will open up. Eventually the band will open to Japan, Korea, and maybe China and Southeast Asia. As our sun sets, these stations will fade, although under ideal conditions the band may stay open to the south and southwest for a few hours after sunset.

Southern paths are always favored, and the very first and very last stations you hear may be to the Caribbean or South America. There are some other interesting paths that appear at time. Normally you would hear Southeast Asia by beaming northwest in the late afternoon or early evening. Sometimes you can also contact them by beaming southeast in the morning. This is called "long path."

Another interesting path is over the pole to the northern parts of Sweden, Finland and Norway in the early to mid afternoon local time in the winter. This is several hours after normal propagation to Europe is over, and is late evening there.

Sometimes the skip length will be too long to hear many US stations, except maybe to the west coast. There is another propagation mode that appears on the band called sporadic E, or Es. There are several layers of the ionosphere that affect radio propagation, primarily the D, E,

and F layers. The D layer does not have much affect on 10. The F layer is what supports the world wide propagation mentioned above.

The E layer is up about 60 miles and supports propagation out to about 1400 miles. Occasionally you will get multi-hop Es that can double that distance. Es can occur at any time, but there are times when is more common. The best time of the year for Es is from about May though July. There is also a second smaller peak in December and January.

Ten meter Es can open up to wide areas or to very specific areas. There are times I have heard the whole east coast at one time. Other times it only seems to be open to a single city in Florida or Colorado. Sporadic E is a lot of fun and a great way to start on your Worked All States (WAS) award. Signal levels in this mode are frequently very strong.

All this pretty much makes 10 meters the perfect band, right? Well, there is one big down side. As you go up higher in frequency you require more ionization to support radio propagation. For F layer propagation this ionization comes from the sun and is highest around the peak of the sunspot cycle. Unfortunately we are at the very bottom right now and we won't reach the peak for another 4 or 5 years.

Fortunately Es does not depend on the sunspot cycle. It is just as common now as it will be in a few years. Even though we are at the bottom of the sunspot cycle, there will still be some DX. The band will often open to South America even these days. The best time to listen is early afternoon. It won't be open every day, and the signals may be weak, but you will catch some from time to time.

Because the band is closed much of the time during the sun spot minimum, many hams do a quick tune across the band. If they don't hear anything they assume the band is dead and move on. Often there will be dozens of other stations doing the same thing even when the band is open. Everyone is listening and no one is talking! Don't be afraid to make a few CQs even when the band appears to be closed.

There are also some tools for getting an idea of when the band is open. There are a number of beacon stations between 28,200 and 28,300. These are all on CW, so if you can't copy the code you won't know where they are. Still, if you hear several of them you can assume the band is open somewhere and it is surely worth putting out a few CQs.

You can also check the solar flux level to predict openings. This is available from a number of sources including <http://dx.gsl.net/propagation/>. You want a high solar flux (SF) and low K and A indices. Right now the SF averages about 75, which is pretty much the pits. My rule of thumb is that it takes a minimum SF of around 100 with very low A &K for the band to open to Europe. We will start seeing that in a year or 18 months. Occasionally we get an unexpected sunspot group and the SF could jump suddenly to the 90's, and things can get interesting for a week or so.

I hope this short introduction to 10 meters encourages you to get on the band if you recently gained access to it. See you on ten!

Estate Sale George Brock K9GMM

In accordance with George's wishes, the following items are being offered for sale to ORC members before being placed on the general market:

Midland 13-510A two meter 25watt \$40
Kenwood TR-2500 two meter Handi-talkie \$36
Bearcat 210 Scanner \$30
Kenwood TS850S HF Transceiver \$800
Astron 60 Power Supply \$140 (This was probably used to power the TS850S)
Knight P-2 SWR/Watt meter \$20
CW key \$30
DSI 3500 Frequency Counter \$unknown

Selling prices are negotiable. If interested, contact AA9W or Ellen Brock 262-338-6972 for details.

Superfest at AES

Superfest at AES was Friday and Saturday, March 30 and 31. It was a very good crowd and as a result there was much socializing. Naturally everyone wanted to operate the new Yaesu and ICOM transceivers – wow, a 10 grand radio. Well, maybe next year.



The crowd kept milling around and finding new displays and old friends with each circle of the area.



A few of the ORC members stopped long enough for this picture. There were at least this many again at the Superfest.

The ORC had quite a group throughout the Superfest. ORC members were manning the BSA JOTA table, OZARES table and QCWA table as well as the ORC table. We made swapfest flyers available and they were almost all taken. That speaks well for the May 5th swapfest.



The various clubs had tables at Superfest and ORC member Ron Yokes (W9BCK), who is also President of the Quarter Century Wireless Association (QCWA), was manning the QCWA exhibit.



Dominic and Tim Boppre (KA9EAK) and Bill Howe II (KA9WRL) were manning the BSA JOTA table with an extensive exhibit of telegraph keys, practice oscillators and code machines from Bill's collection.

Upcoming Events

April

- 11th **Membership Meeting**
- 21nd Madison Swapfest @ Stoughton
- 28th Central WI Swapfest @ Colby WI

May

- 2nd **Board Meeting**
- 4th **Opportunity Day @ Parkview School**
- 5th **ORC Swapfest at Circle B**
- 9th **Membership Meeting**
- 18th – 20th Dayton Hamvention
- 26th – 27th CQ WW CW DX Contest

June

- 2nd Tour de Cure
- 2nd QCWA Meeting – Ron Yokes
- 2nd **River Cleanup**
- 6th **Board Meeting**
- 9th-11th ARRL VHF QSO Party
- 10th 6 Meter Club of Chi Swapfest @ DuPage Fairgrounds in Wheaton IL
- 13th **Membership Meeting**
- 23rd -24th **Field Day**
Miller Lite Ride for Life

Weather on 22 March. Eighteen OZARES members attended and those folks are now official storm WX Spotters. ORC hams can become WX Spotters by attending these seminars, so plan on being present at the next one. You can still report damage without being an official spotter, but sighting reports may not necessarily be accepted by the NWS. Check out the storm spotters section of the NWS website for details.

The **April meeting** will be on **Anderson Powerpoles**, both a PowerPoint presentation and a hands-on assembly session. This is a great time to see what they are all about and, at the same time, to make up a set or two for use in your shack or vehicle. These connectors are the standard for ARES/RACES use in the State of Wisconsin. They are accepted as a key interoperability factor for ham radio gear. Everyone (not just ARES/RACES folks) should be using them. ORC members are welcome to attend!

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. Guests are welcome after the OZARES check-ins are complete, especially ORC members!

The



Column

By Stan Kaplan (WB9RQR), Column Editor

THE MCT'S 6.5 KILOWATT GENERATOR has been professionally overhauled and re-mounted in the vehicle by the company that serviced it. It runs like a top and is ready to go. The only MCT physical repair left is to weld a new floorboard in the driver's area. This will be done as soon as it is practical to schedule the work with the highway shop. In the recent past, snowplow repair (top priority) has been keeping them busy. The first half of the MCT Manual, a description of systems and controls, is done. The second half is being drafted now by WB9RQR and N9PBY.

Rusty Kapela of the **National Weather Service** (NWS) presented the annual seminar on Severe

- 05 Apr KC9JJU
- 12 Apr W9KHH
- 19 Apr WI9M
- 26 Apr Meeting
- 03 May WJ9O
- 10 May N9PBY
- 17 May KA9PZG
- 24 May Meeting
- 31 May KB9RHZ- W9IPR
- 07Jun KB9RLI
- 14Jun WB9RQR
- 21Jun WI9GC
- 28Jun FIELD DAY (Yeaaaah!)

Minutes—March 14th, 2007

De Nancy Stecker, KC9FZK

President Tom Ruhlmann (W9IPR) called the meeting to order at 7:30 p.m. Members and guests introduced themselves.

Program: Activating Light Houses. John Draves (AB9HH) and Linda Draves (KC9DLO) are enthusiastic members of the Amateur Radio Light House Society. They explained that activating a light house means making a radio contact within sight of a light house. Their presentation included photos illustrating many sizes, shapes and sites of light houses around the Great Lakes and the equipment used for making QSO's from these sites. Go to <http://arlhs.com> for more information about this organization.

Announcements etc: David (N9UNR) got his General ticket. Marc (N9ZF) told a joke about a call sign. Mike (WJ9O) has a friend in Texas who is looking to make contacts. Bill (KA9WRL) brought an unusual practice oscillator. Tom (W9IPR) brought a Battery Supply he made and described in the ORC News Letter. Recognition was given to Ed (AA9W), Tom (AA9XK) and Bill (AA9OS) for service to the club. They were not at the PEP where their plaques were shown. Activities coming this month were mentioned.

Auction: Stan (WB9RQR) held an auction of interesting items.

Business Meeting: The chair entertained a motion to accept the minutes of the previous meeting as printed in the ORC Newsletter. Mike (KC9GDV) made the motion; Marc (N9ZF) seconded it, the motion passed.

Treasurers Report: Nels (WA9JOB) explained the budget as printed and distributed this evening. He also talked about expenses involving the PEP. Dave (N9UNR) made a motion to accept the Treasurer's report as presented subject to audit; Kent (N9WH) seconded the motion, the motion passed.

Committee Reports:

Membership: The president is looking for someone to take on a project creating informational packets for new members.

Public Relations Committee: A sign-up sheet for the AES Superfest was passed around.

Youth Committee: Bill (KA9WRL) said JOTA (Jamboree On The Air) would be held at Pioneer Village this year. Also, JOTA will have a booth at the AES Superfest. A Parkview school visit is planned for May 4.

PEP Committee: The President noted all had a good time. The treasurer had given a brief report on

expenses involved with the Post Everything Party earlier in the meeting.

May Swapfest Committee: Flyers are available for the May 5, 2007 Swapfest. A few committee heads are still needed. The September 15, 2007 Swapfest will be held at Fireman's Park in Cedarburg.

Light House Activation Committee: Tom (AA9XK) said August 4th and 5th would be the Light House Activation dates. Mike ((WJ9O) volunteered to make up QSL cards for the occasion. These dates will also coincide with the Maritime Heritage Festival.

Old Business: Ed (AA9WW) showed a photo of the medium-weight jacket for \$45 that was chosen by the membership at a previous meeting. Following discussion, Ron (W9BCK) made a motion to select the navy jacket with a yellow emblem; Dave (N9UNR) seconded the motion, the motion passed. The chair entertained a motion to have the club pay for a name and call sign to be put on each club jacket at a cost of not more than \$5 each. The cost of the club emblem is included in the cost of the jacket. Bill (KA9WRL) made that motion; Mike (KC9GDV) seconded the motion, after discussion the motion passed.

New Business: Tom (W9IPR) presented the 2007/2008 budget. Stan (WB9RQR) made a motion to accept the budget as presented; Tom (AA9XK) seconded the motion. Discussion followed. A motion was made by Dave (N9UNR), seconded by Kent (N9WH) to adjust the Repeater Upgrade Fund budget line to \$500. That motion passed. Motion was made by Kent (N9WH) to table the motion. The motion passed.

Drawing: Kent (N9WH) won the 50/50 drawing. Additional drawings were held and guest John (AB9HH) and Stan (WB9RQR) were winners.

Attendance: twenty-four members included: Nels WA9JOB, Ed AA9WW, Mike KC9GDV, Chuck WA9POU, Stan WB9RQR, Mike WJ9O, Ron W9BCK, Bill AA9OS, Bob W9LO, Jim K9QLP, John W9NRG, Ron KC9DKQ, Jerry W9GGR, Marc N9ZF, Kent N9WH, Dave N9UNR, Ed AA9W, Bill KA9WRL, Herb WA9UVK, Tom W9VBQ, Tom W9IPR, Julia KB9WBQ, Tom AA9XK, Nancy KC9FZK and two guests John AB9HH and Linda KC9DLO.

Adjournment: Chair entertained a motion to adjourn. Dave (N9UNR) made the motion; it was seconded, and passed. The meeting adjourned at 9:46 p.m.

AGENDA

April 11th, 2007

Elmer Session at 6:45 – Application and use of a volt-ohm meter

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 (WA9JOB)

9. Repeater report – John (W9NRG)
10. Committee reports.
Membership –
Superfest –
Parkview Oppertunity Day – Bill Howe II (KA9WRL)/Tom (W9IPR)
Swapfest , May 5th – Tom (W9IPR)
Field Day – Leon (K9GCF)
11. OLD BUSINESS
A. Tabled 2007/2008 Budget Motion
12. NEW BUSINESS
13. 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, April 11th

7:30 PM