



The *ORC* Newsletter

Official publication of the Ozaukee Radio Club, Inc. Mail all contributions to the editor, Tom Ruhlmann, W9IPR, 465 Beechwood Dr., Cedarburg WI 53012 (phone 262 377-6945). Permission to reprint articles published in any issue is granted provided the author and the Ozaukee Radio Club Newsletter are credited.



ORC Repeaters on 146.97, 224.18 and 443.750 MHz -

Callsign W9CQO

Web site:

www.ozaukeeradioclub.org

Volume XXIV

May 2005

Number 5

The Prez Sez

De Tom Ruhlmann (W9IPR))

Another busy month and much was accomplished. Ed Rate and I went to the Grayslake swapfest on the 16th and Nels Harvey joined us at the Madison Repeater Club swapfest in Stoughton on the 17th. We are entering the area of diminishing returns but between the two, we did yield about \$400 for the Scholarship fund – plus we had a great time.



There was a nice crowd at the Grayslake “North Shore Radio Club” swapmeet on April 16th. Naturally this resulted in some “good buys” but mostly at the ORC tables.

Although we advertised on channel 14 and had an article in the News Graphic we didn’t get any response to our offer of a Technician training session. Therefor we canceled it however, perhaps we should start considering a General upgrade class.

However, on a brighter note, Brennan Scheel, whom we assisted with his “ISS and Amateur Radio” exhibit at St. Paul’s Science Fair received an Exceptional Achievement Award for his efforts. Congratulations Brennan! Now they are considering applying for a contact with the ISS astronauts via amateur radio – interested in helping?



Ed Rate (AA9W) and Nels Harvey (WA9JOB) got a real workout manning the ORC tables at the Madison swapfest in Stoughton on April 17th.

I would encourage our members who have kids or grandchildren in middle and high school to contact the science teachers or principals in an effort to get them interested in amateur radio as a hobby club and perhaps electronics as a course. We have ARRL pamphlets that can be used and other members who are willing to help.

What would you think about contacting the various high school science teachers and escorting them to Field Day where they could operate the GOTA station? Once we had their interest I think "radio clubs" would follow. Also, ARRL has curriculum available for use by teachers. What do you think? Interested in leading this type of activity?

Then we had a Board meeting where we gave a final review of the proposed By-law changes. It was great discussion in the interest of providing continued Club guidance and leadership. You will note the proposed by-law changes are summarized later in this newsletter and we plan to vote on them at the May meeting.

My thanks to Stan Kaplan (WB9RQR) who volunteered to act as the Club Historian.

So what are the big events for May? Our annual swapfest at Circle B on May 7th and "Dayton" of course. I hope to see a great turnout of buyers and sellers at the swapfest as it is our only moneymaker of the year and our operating budget depends on it. Gene and his gang have been doing a great job these past years so let's give them our support at setup and the swapfest.

And Dayton? Looking forward to another great weekend with great "ham" friends.

It is a lot of fun. Get involved and share the hobby.

HOW TO OPEN A DEAD BAND

De Bob Truscott (W9LO)

My first mistake in the recent Wisconsin QSO Party was to stay on 20 meters too long. I should have known that when European stations answered my CQ's, but U.S. stations didn't, that it was time to change bands. It took me at least a half-hour to figure that out. That's how contests are lost, not to imply that I ever win them, because I don't. My second mistake was to go to 80 meters in the late afternoon and be greeted by a dead band. Now, 80 meters is almost always open at that time of day (the phone

end of it was loaded) but nobody ever uses the CW end of it until after dark. And that's the way I found it, completely silent. Rather than return to 40, which I felt I had pretty well worked out, I decided to open 80. I called CQ for about 5 minutes and finally got an answer. After 3 or 4 more non-productive minutes I got a second answer. Then gradually more people showed up and within a half-hour the band was loaded. So don't judge a band by what you don't hear--- make a little noise and see who shows up.

Coming up in May:

May 7 - Indiana QSO Party-CW, SSB Rules in May QST, page 98. Give it a shot after you get home from the swapfest.

May 28-29 -CQ WW WPX Contest-CW. Rules in March QST, page 92.

Have fun contesting.

St. Paul's Science Fair

Brennan Scheel is a 13-year-old 8th grader at St. Paul's Lutheran School in Grafton. He first became interested in the International Space Station (ISS) when he and his family visited Kennedy Space Center in Florida this past Christmas vacation. Specifically he became interested in how the ISS astronauts communicate back to earth and then discovered they use "ham" radio. This then became the focus of his "project" for the St. Paul's Science Fair of 4/30 - 5/1. For his display he downloaded information related to the ISS and the astronauts and their "ham" operating activities and frequencies. Perhaps one of the best parts was the ISS tracking software operating on the laptop in the exhibit. He then went on to show the nature of radio waves and the difference in the propagation characteristics between HF and VHF/UHF radio waves.



Brennan Scheel is here showing his mother (Carrie) and dad (Koby) how to use the FT-50 and Arrow antenna to monitor the ISS “ham” frequencies. His younger brothers Cameron and Kenton were busy playing basketball in the background.

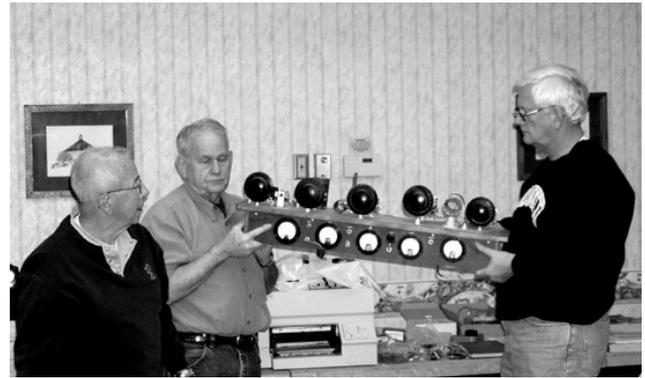
To show how basic the required ISS communications equipment could be he included a borrowed FT-50 handheld and an Arrow antenna in his exhibit.



Brennan Scheel’s “ISS and Ham Radio” exhibit at St. Paul’s science fair was complete with ISS, space and astronaut photographs, descriptive information, ISS tracking software and the minimum communications equipment – an FT-50 and Arrow antenna.

There were approximately 75 exhibits at the fair. How did Brennan do? He received one of only 5 “Outstanding Achievement” awards given at the fair. Congratulations Brennan. Welcome to the excitement of “ham” radio.

Programs



Talk about “show and tell” – Ed Rate brought a 3 tube, crystal controlled home brew transmitter from the 1930’s era. Really fascinating – probably a good thing no one had TV yet.



Leon (K9GCF) demonstrates some of the nuances of “fox hunting” using some of his unique home brew equipment and an HT.

Club Static

Now we have another Extra class amateur in the Club. Naomi Potash, KC9GSS, passed her Extra Class element at the Grayslake swapfest. Congratulations Naomi!



Here Mark Potash (KC9GST) attaches one of the antennas mounting brackets he fabricated to the firehouse wall while Gabe Chido (WI9GC) and Tom Oehler (W9LNL) supervise.

Volunteers NEEDED!

De Jeananne Bargholz: (N9VSV)
Mark Tellier, (AB9CD)

The weekend of June 4th and 5th will be a busy one. The TREK 100 ride takes place on Saturday the 4th and the Miller Ride takes place on Sunday the 5th. Needless to say, the demand for amateur communicators is great.

The TREK 100 starts and finishes from the WCTC campus in Waukesha County. If you can help on Saturday, June 4th, please sign up at <http://www.n9rtm.com>.

This year, the Miller Ride for the Arts is celebrating its 25th! The ride has 5 routes all starting at the Marcus Center with a 5 mi. route around Veterans Park, a 25 mi. route south to Grant Park, a 15 mi. route south to St. Francis High School, a 50 mi. route north through Mequon and a 75 mi. route north to the Allen Edmonds Factory in Port Washington.

There will be after event treats of grilled brats and other yummys near the net control location. As in the past, assignment requests will be accommodated as best as possible.

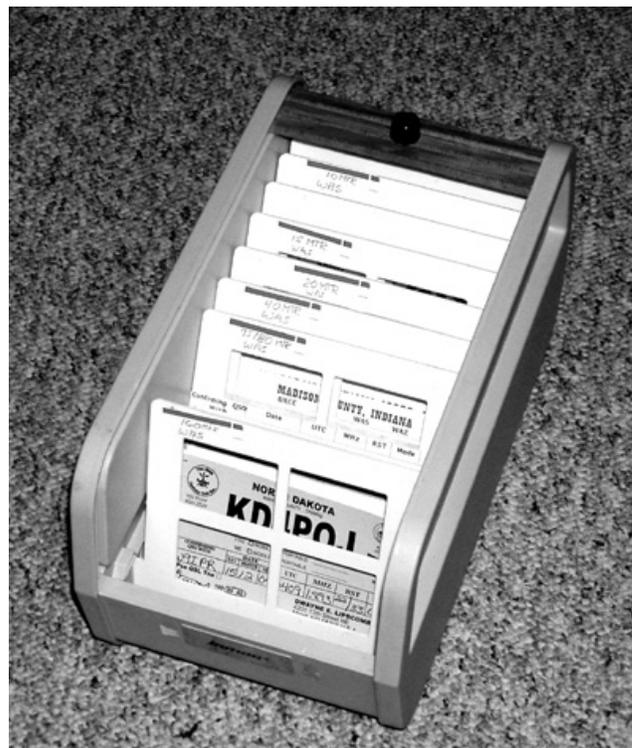
To sign up, please contact:

Jeananne Bargholz: n9vsv@wi.rr.com

Mark Tellier, ab9cd@arrl.net

Both events are great fun and your help will be greatly appreciated!

Tips, Tails & Tools



unteer radio operators with working groups to provide for any communication needs to the volunteers in the field. Prior to the event a continental breakfast will be provided for those helpers at Grade Park, downtown Saukville.

After the cleanup, all participants are treated to lunch in the park and a T-shirt to thank volunteers for their help.

Please contact me via email/phone/radio if you have any questions or want to sign up. Your help will be greatly appreciated at the Saukville River Fest!

Upcoming Events

May

3rd Board Meeting

7th ORC Swapfest at Circle B

11th Membership Meeting

20-22nd Dayton Hamvention

June

4th River Clean-up

4th QCWA Meeting – Ron Yokes

8th Membership Meeting

24th Field Day set up

25th Field Day

26th Field Day

July

9th South Milwaukee Swapfest

13th Membership Meeting

25th Airventure @ Oshkosh

Thanks for the Door Prizes

The Post Everything was a great success thanks to the gift contributions by the local merchants. Everyone at the dinner received a lovely prize from the raffle. Julia Nawrot and Nancy Stecker asked local businesses to donate these gifts, and we would like to acknowledge their generosity and support. The following merchants graciously donated gifts: Anchor Men's Wear – Cedar Creek Winery – Frenz Market – Gallery 1881- Goosey's Gallery – Heart N Home Treasures – Kasha's Old World Café – Kate's Hair Designers – Lake Breeze Pottery – Michael's

Antiquities – North Port – Peddler's Corner – Prime Minister – Sharbuno Jewelers – Seascapes – Studio 2-3-1 Complete Hair Care – Tires Unlimited Automotive Services – Totally Unexpected – Uselding's. If you happen to be in one of these establishments, please say "hello" and support the people who support us.

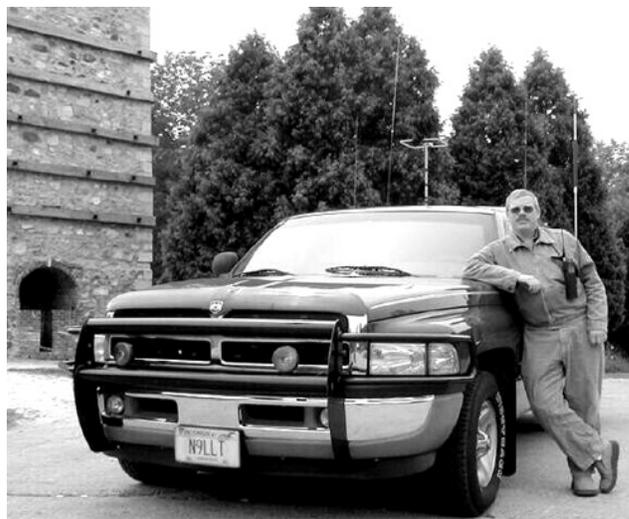
Julia Nawrot & Nancy Stecker

Just Another Shack

De Steve Stevens (K9DXT)

The subject of the article this month is Ted Heilmann (N9LLT). Ted, a native Wisconsinite was born in Milwaukee and has been a resident of Grafton for the past thirty-five years and graduated from Grafton High School. Ted is employed by a company that sells products and services to companies in the brazing industry.

Ted's interest in ham radio was cultivated by his grandfather (9BEG) who was a ham in the early twenties. One of Ted's memories of his grandfather was sitting at the kitchen table and tapping out a conversation in CW with his grandfather when he was ninety-one years old.



Ted was licensed in May of 1991 as a technician, then added a code endorsement and now holds a general class ticket. Ted can be heard operating from either of two stations. He has a station at home and also an extensive setup in his truck. With the radios in the truck he has coverage on UHF, VHF and HF bands. Not only

does he have the three radios but he has five antennas mounted on the truck with the capability of twelve antenna set-ups.



Ted is a very active on the radio needs only five more contacts to receive his worked all states (WAS) award. He has 31 states on 6 meters, 2 on 2 meters and 12 on 12 meters. His most unusual contact was a pilot of a Boeing 757 at 33,000 feet over France on 17 meters.

Ted is another of the members who has a wealth of information and is happy to share it with you. Say hi when you see him at a meeting.

Proposed By-law Changes

The By-laws committee consisted of President Vic Shier, Trustee and past VP & past Secretary Ed Rate, Past President & past Repeater VP Jim Albrinck and newsletter editor Tom Ruhlmann. Dave Barrow, Nels Harvey, Stan Kaplan, Kent Christiansen and Leon Rediske have also been directly involved through review of the committee's original proposal and their suggested changes have been considered. That revised proposal was then reviewed by the current Board of Directors and is being submitted to the membership for approval. The proposed changes to the by-laws consider the input of all parties and the more significant inputs would effect the following changes:

ARTICLE I – Membership

1.2 Dues clarified to be due by the annual meeting.

1.4.1 Regular membership defined. 1.4.2 Club membership deleted as a class of membership.

1.4.3 "Special Family" membership clarified to be "Family" membership. Family members allowed to serve on Board of Directors.

ARTICLE II

Officers and Directors

2.1 The number of officers was increased from 5 to 6 with the creation of a Second Vice President. The purpose of creating a Second VP is to:

1. Distribute the responsibilities and reduce the workload on the President and First Vice President.
2. Create more opportunities for leadership within the ORC
3. Create additional leadership reserve in the absence of the President or First VP
4. increase the creative resources within the Board of Directors

2.5 Clarify the appointment and term of the "Trustee"

2.8 Clarify that a Board member may only hold one voting position at a time.

ARTICLE III –

Duties of Officers and Members of the Board of Directors

3.1 Defined the responsibility of the Board of Directors and requires they annually develop a 2 year budget and submit to the membership for approval.

3.4 Defines the duties of the Second Vice President

3.7 Establishes requirement for an annual audit

3.9 Defines the position and duties of Past President

ARTICLE V - Dues and Assessments

5.2 Clarifies that dues are due at or before the Annual Meeting.

5.4 Defines penalty for not paying dues.

A copy of the proposed by-laws is on the web site. It is planned to vote on these proposed by-law changes at the May regular meeting. There were other proposed changes but they have been removed and will be considered for inclusion in the Policy & Procedures section. These included such items as term limits of 3 years and

the appointment of nominating and auditing committees.

HOW LUCKY CAN YOU GET?

De Bob Truscott (W9LO)

Hearing aids are frustrating, and maddening devices. I curse them when they feed back and whistle in my ears, I curse them when they amplify the room noise more than the speakers voices, I curse them when a battery goes dead in the middle of a telephone call, and I curse them when I can't hold a decent conversation in a restaurant or at a club meeting because of room noise. I'm OK with CW, and I'm OK with SSB as long as the guy I'm listening to hasn't "optimized" his audio with a ton of speech processing, and destroyed its intelligibility.

I got new lenses for my glasses this afternoon. While I was waiting for my turn, I watched a man being fitted for his new glasses. I noticed that he and the technician were exchanging written notes and hand signals. It didn't take long to figure out that the man was totally deaf.

After that experience I decided that I love my hearing aids because I can enjoy ham radio, and he and others like him can't. How lucky can I get?

Meeting May 11th

The program will be presented by Ed Rate (AA9W) and is titled "The Operation and History of Detectors"

Minutes – April 13th, 2005

De Carol Szudrowitz (KC9CBC)

Announcements:

AES Superfest went well on the previous Saturday.

Ed AA9W and Tom W9IRP went to the Grayslake swapfest on Saturday and with Nels (WB9JOB) to the Stoughton Hamfest on Sunday. They were selling components from Hal etc. on behalf of the Club.

River Clean Up- Wabedonia Park - **June 4** – help is needed with communications.

April 16th is Quarter Century Ham Radio Celebration

April 30 – help needed to put up antenna at Grafton Fire House

Swap Fest - Saturday, May 7, 2005 - Circle B
– Help needed -

Bragging Rights – Show and Tell:

FCC is close to announcing code restructuring. The ARRL proposal calls for no code needed for General License, Extra will keep it.

Ed AA9W brought in a ham radio from the 1930's. It was probably made with instructions from Hugo Gernsback's Ham Radio Magazine. The parts (transmitter, crystal, etc.) were mounted on a board and probably all radiated. Each part had to have its own power supply. Bell wiring was commonly used. It probably went into the garage when televisions came along because of the interference.

Program: Fox Hunts - The Ins and Outs presented by Leon K9GCF. A transmitter is hidden in an unusual spot like a turkey roaster or in a shopping cart in a grocery store amid groceries and the goal is to find it. Many times it is under a bridge or you could even find a 10 meter antenna taped to a "woman's" full skirt! If you are interested in the fun you can set one up or join the Milwaukee Fox Hunt Club. Leon demonstrated several antennas that he has made to find the "fox". Flexible metal from old metal tape measurers worked well on his antennas. They fold up without breaking when walking through brush. This skill is also useful. Transmitters can be put on Alzheimer patients and they can be found quickly when lost. In one case it only took 22 minutes. For more information see the following resources. "[Transmitter Hunting Book](#)" by Joseph Moell K0OSE and Thomas Curlee WB6UZZ, or building website: http://home.att.net/~jleggio/projects/rdf/sniff_bm.htm. Arrow also makes antennas for purchase but homemade can be better according to Leon's experience.

Auction by Stan WB9RQR

Business Meeting: Minutes were accepted as printed in the ORC Newsletter.
Treasurer's Report was accepted as printed on handout sheets.

Repeater Report: Nels WA9JOB reported that he had not been at the site all winter. The Micor transmitter was sick. A power supply was purchased and the Club's solid state amplifier was put in service. Power output is about half of the Micor output. There will be no duplexer on the 100-watt amplifier when it gets moved. The cost to replace the tubes in the Micor Amplifier needs to be discussed at a Board meeting.
Three radios were bought from eBay at the cost of \$490 with shipping. They are programmed and interfaced and ready for the work party on April 30 at the Grafton Fire House. The link will be used from the Grafton Firehouse to the main site for now. The link frequency will then be used at Mequon to go to KK&LL site after the move. The 220 repeater is operational, and the 440 is OK, but quiet.

OZARES: Jon KB9RHZ - April and May meetings are on the 4th Thursday of the month. Management system training will be continued. ECC mandated training. CERT training is canceled.

Community Report: Paul KD9FM reported that he went through the ARRL membership list. He found that 82% do not belong to club. He suggested putting together a mailing list for sending a letter and brochure about the Club to these people. There are over 200 names. Ted N9LLT and Nels WA9JOB said they would help enter and review list.

Public Relations: Naomi KC9GSS reported that labels for magazine donations to various offices are ready and handed them out. Labels tell info about club and who to contact for more information. We had a wonderful feature article about the club in the News Graphic. Suggestion was made to post notices for club meetings in the Community Calendar section.

Swap Fest: Gene KB9VJP(call 377-6792 for more inf.) reported that it just three weeks away!
Saturday, May 7 at Circle B.

Help is needed Friday **Night – 6:00 PM - Vendor Setup on Saturday - 6:00 AM - Vendor Setup**

**Swapfest - 8:00 AM to 1:00 PM
Cleanup – 1:00 PM till finished**

Help is needed at doors to take tickets, call door prizes, help "talk" customers to location, watch side doors and help with testing area. Naomi KC9GSS volunteered to get information to local paper and others volunteered to get "radio" related door prizes.

Scholarship Fund: Ed AA9W reminded all that equipment is for sale, Check Web link for information.

Old Business

Note: Club Historian is needed if interested call Tom W9IPR or Nancy Stecker, KC9FZK.

Reminder: There are 2 antennas and towers to be taken down. They need to be scheduled. One is in Fox Point the other near Northridge area. Paul KD9FM is a point person for the last one.

Field Day: Get-together next week Wednesday - Call Leon K9GCF for information.

All stations will be using NA software

Attendance: Ed AA9W, Roger W9UVV, Carol KC9CBC, Stan WB9RQR, Kent N9WH, Joe AA9HR, Jim K9QLP, Nels WA9JOB, Gene KB9VJP, Bernie AA9CI, Tom W9LNL, Bob W9LO, Steve K9DXT, Ray W9KHH, Bob WQ9N, Terry KA9RFM, Naomi KC9GSS, Mark KC9GST, Paul KD9FM, Julia KB9WBQ, Mark AB9CD, Keith KY9P, Don AA9WP, Ted N9LLT, Tom W9IPR, Enid KB9TDC, Herb WA9UVK, Mike WJ9O, Ron W9BCK, Leon K9GCF.

AGENDA

May 11th, 2005

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 –
 - Swapfest –
 - Field Day -
12. OLD BUSINESS
13. NEW BUSINESS.
 - Approval of By-law changes
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, May 11th, 2005

7:30 PM



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Volume XXIV

June 2005

Number 6

The Prez Sez

By Tom Ruhlmann (W9IPR))

Another full month and we have made progress toward some of our goals.

We had another successful ORC Swapfest thanks to the leadership of Gene Szudrowitz (KB9VJP) and the efforts of all who helped organize the tables, sell tickets, provide "talk in services", obtain the raffle prizes and otherwise promote this annual event. This is the event that provides the essential operating income for the club each year. Without a successful ORC swapfest we would have to both raise dues and cut expenditures.

The highlights of the membership meeting were the passing of the by-laws revisions and Herb Roehner's 90th birthday – congratulations Herb. Herb never misses a meeting and he is the guy that gets the key to let us in each meeting night. When Herb left Germany at the age of 8 he was told that in America the "streets were paved with gold". I don't know if Herb has found any of the gold bricks but he has made many golden friendships in the ORC.

With the passing of the changes to the by-laws we will be distributing the management of "internal" and "external" projects over two Vice Presidents rather than only one. This will increase the size of the Board by one and should thus lighten the load of each individual Board member while bringing additional input to the Board decisions.

Without a doubt a highlight of the month was our annual trip to the Mecca of Amateur radio, Dayton Ohio, for the annual Hamvention. There were four vehicles and 14 members of ORC at

the event. Great outdoor flea market – a real history of amateur radio, 4 halls of inside vendors, great seminars, great buys, great friends and all you can eat. What more is there.

Ray (W9BUJ), Ed (AA9WW), Roger (N6DVZ) (Rays nephew from Salt Lake City) and Jim (KA4UPW) went with me in my Suburban and while we had plenty of room on the way down, the return trip was a bit crowded with all the additional amplifiers, tube caddie's, test equipment etc. But it was a great time.



Ed (AA9WW), Ray (W9BUJ), Roger (N6DVZ) and Jim (KA4UPW) prepare to start unloading following our return from Dayton.

I attended an AMSAT seminar followed by a demonstration contact via the new Indian satellite VO52. I got so enthused I joined AMSAT and then bought a copy of the NOVA tracking software to learn when a satellite is visible and a contact is possible.

Ed Frac (AA9WW) went to a forum on digital radio communications and in summary he indicated that he would not be buying any new ana-

log radios for awhile. He thinks digital will be the dominant mode.

The “best buy” at Dayton was some “temporary” eight-foot ground rods I bought for the ORC field day. They have integral “slam” weights to hammer the rod down into the ground and then hammer them up and out when leaving. At \$5 each I couldn’t pass them up.

Upon returning from Dayton I drafted and sent a letter to the science teachers at the Cedarburg and Grafton High and Middle Schools. Naomi Potash also sent a letter and flyers to the principal at Homestead. We have invited the science teachers to field day in hopes that they will become interested enough to earn a license and then foster a “club” at the school. Naturally, the ORC will do all possible to support these clubs should they materialize. If you would like to get involved in these youth recruitment efforts just contact Mike Yuhás or myself.

And what are we looking forward to in June? The main events are the River Cleanup in Saukville on June 4th and naturally, Field Day. Hope to see you there.

Get involved and have some fun.

WHAT DOES IT TAKE TO BE A WINNER?

(A FIELD DAY WINNER, THAT IS.)

De Bob, W9LO

That’s a pretty good question, isn’t it? Most of you could answer it very easily, and those of you who did would probably say something like “a maximum effort from each participant”. That’s close, but what good is a maximum effort if the people making that effort are not adequately prepared for the job at hand? That’s been the problem since the club was born—CW operators would show up and say “I want to operate a little CW, but no, I’m not familiar with the contest procedures, but I DID work a contest for a few minutes about 6 months ago”. Or a phone guy would say “what do you mean, you want me to be a logger, I don’t know anything about computers—just give me the mic”. And while some-

one is giving these people on-the-job training, the QSO rate goes down, down, down. A maximum effort from these people is not worth very much to a club, which prides itself in being # 2 in the country in its transmitter class.

But it doesn’t have to be that way. This year we are taking the first step toward training operators in the use of what is now the club’s standardized contest software (except for VHF) before they begin their first operating shift. As most of you know, Stan, WB9RQR has donated 8 Compaq computers to the club for Field Day use. NA contest software has been installed in each of them, and the bugs have all been worked out. These computers will be assigned to the 5 HF stations, plus the GOTA station. One will be kept aside as a spare, and one will be set up in the 40 meter CW tent for individual operator training prior to, and during the contest. We’d like to begin the training on Friday evening if the “electric company” guys can get us a small generator for temporary use before turning the big rig on.

NA is probably the simplest program around which satisfies the needs of both phone & CW. For the phone guys, it’s just a matter of learning the basic keystrokes for entering the exchange information, correcting typos, and logging the contact. A 15-minute practice session should do it. The band captains will also need to learn how to change bands, although there won’t be much of that. It’s a bit more complicated for the CW guys because in addition to doing the logging the program also sends the exchange information.

CW ops, note that NA has a practice mode. You can activate it by typing “practice” in the QDF selection box when opening the program. It simulates actual contest conditions, except for QRM—you call CQ, and other stations answer you, etc. Those of you who regularly operate CW on FD already have NA on your home computers, so try it out at home. Set the speed control at 5-10 wpm faster than what you consider to be a comfortable speed, and let er rip. You’d be surprised how quickly your comfort zone increases.

The objective here is to make every operator's "maximum effort" more productive than it was last year, and perhaps move a little closer to the # 1 spot. Phase 2 of this upgrade program will be called "Kicking And Screaming", and we'll be looking for volunteers about this time next year. See you on Field Day. Sheepshead players bring money.

THE PRICE OF ADMISSION (TO THE 40 METER CW OPERATING POSITION, THAT IS.)

De Bob, W9LO

Back in the days when I played softball on a regular basis I always got a belly full of butterflies before the first ball was hit to me. I've been told that major league baseball players have the same problem, so I don't feel too badly about it. I figured I was all through with those pesky little insects when I quit playing ball, but I guessed wrong. They visit me every time I sit down to work a ham radio contest, and I would not be surprised if they visit other club members as well. How about it, Gary, Gary, Paul and Terry and all the rest of you guys—are you ready to admit to it? Butterflies are pretty little things, but they cause problems. They cause you to copy calls wrong, they cause you to type in MI when it should be WI, they cause you to lose contacts because you can't make typo corrections fast enough, etc., etc. These things usually happen for the first 10-20 minutes, or until you are comfortable in the chair, causing your QSO rate to be lower than it should be, and affecting the overall performance of the team.

So what can we do about this problem? If I may quote from a speech that W9BUJ made at a Toastmasters meeting about 40 years ago, "you can't eliminate butterflies, but you can make them fly in formation". Yeah, he really said it. Thanks, Ray. So how do we apply that theory to Field Day? We use Stan's little butterfly minimizer, the Compaq computer with NA in it. We each sit down and operate it in the practice mode for 15 minutes before our first real shift. And before you ask, yes, it applies to me too—I'm not nearly as good as I want to be. I've reserved the 12:30-12:45 PM time segment on Saturday afternoon. Get in line, guys.

15 minutes of your time—that's the price of admission.

Silent Key, K9ZPZ

You may have noticed the last call sign in our roster is that of Tom Davis, K9ZPZ, of Grafton. Tom has not been very active in the club these past few years due to complications of diabetes and it was this diabetes that took his life May 29th at the age of 59 years.

Tom was a registered professional engineer, president of Prophet Technologies, past Senior Vice President of Super Steel Products Corp., and former Dean of Faculty of the Milwaukee School of Engineering. He was a reserve sergeant on the Grafton police force, author, consultant and private pilot as well as an amateur radio operator.

Tom will be missed in his profession and within the Ozaukee Radio Club.

ORC Swapfest

The ORC Swapfest actually starts in Ham's basements and garages and it provides annual the operating funds for the Club. This year was

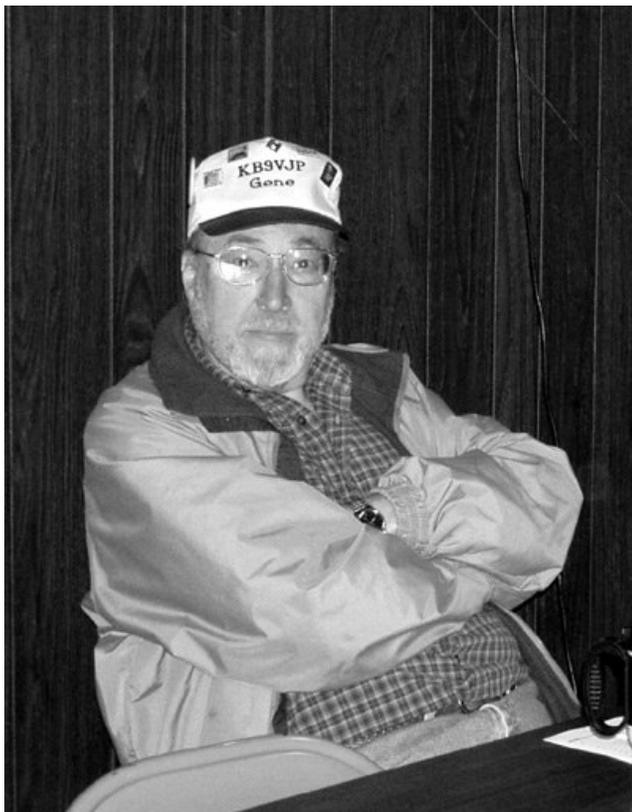


Another Ham unloads his excess wares for sale at the ORC Swapfest.

no exception in that the Swapfest had a gross revenue of \$2260 and after expenses resulted in a net income to the Club of \$1,811.39.



Bargain hunters milled about the 70+ vendor tables set up at the Circle B banquet hall for the ORC Swapfest.



Gene Szudrowitz (KB9VJP) has been our ORC swapfest chairman these past several years and has been responsible for producing our annual income to meet operating expenses. Thanks Gene!

There were more prizes than ever thanks to the solicitation efforts of Ray Brunette (W9BUJ).

There were 25 raffle prizes from AES, CQ magazine, MFJ, Newark Electronics, Digi Key Electronics, Tower Electronics, K1CRA Radio Store, Lakeview Electronics, W5YI Group and Engineering Surplus.

While the Swapfest was a financial success attendance was down slightly and the number of vendor tables were down about twenty. Naturally this is a concern as our net income was also down a few hundred dollars. We owe a big vote of thanks Gene Szudrowitz (KB9VJP), our swapfest chairman these past several years. Thanks Gene!

Upcoming Events

June

4th River Clean-up – Cindy (KA9PZG) @ 262-284-3271

4th QCWA Meeting – Ron Yokes

8th Membership Meeting

24th Field Day set up

25th Field Day

26th Field Day

July

9th South Milwaukee Swapfest

13th Membership Meeting

25th Airventure @ Oshkosh

Tips, Tails & Tools

De Roger Zaun (W9UVV)

No doubt most hams have experienced this frustrating scenario: You are working on an electronic building project, or trying to repair or service a rig, when suddenly a vital piece of hardware, or small component drops into the innards and appears irretrievable. This situation calls for use of longnose pliers or tweezers to aid removal, but due to the close quarters they just don't work. The level of aggravation and angry verbiage then begins to rapidly rise!

As an avid builder and restorer of electronic gear, I was often confronted with this problem. This led me to arrive at a rather neat, workable solution, namely:

Take a small amount of "Coax-Seal" * and form it into a ball about the size of a pea. Firmly mold

and adhere it to the end of a small diameter plastic or wood rod. Coax-Seal is a very tenacious material and virtually adheres to almost anything. By lightly touching the prepared end of your new retrieval tool to the lost part, it is readily plucked from the depths of your equipment. It is also useful to start nuts, place lock washers or put screws into hard to reach holes. It is also great in retrieving wire cuttings and solder spatters.

I keep this tool in my repair kit at all times. Give this handy helper a try. It really works and sure helps prevent "frazzled nerves".

*Coax-Seal Material is normally utilized to seal coax fittings, antenna connections and parts from moisture and corrosion. It is manufactured by Universal Electronics, Inc. and is available from your local amateur radio supplier. Many Hams have used it, and you may still have a partial roll left in the junk box.

For Sale, Trade or ?

Professional drafting table with drafting machine and rulers, lamp and power outlets. With side desk flat file and chair - \$100.00.

Kitchen cabinets: bases and wall units - \$20.00 each piece.

Ping Pong table: \$30.00

Black and Decker: small twig and branch chopper. Needs work, possibly blades too - \$10:00.

Tom (AA9XK) @ 262-242-1029

2000 Honda Civic EX 87k miles top notch shape \$7,500 – Stan (WB9RQR) at 262-284-9346

Dayton !

What can really be said about Dayton? It is a 7 hour drive with great company and 3 days of nothing but amateur radio informative discussions, bull, history, forums, demonstrations, intrigue, eating, refreshments, radio equipment and parts. Pictures say it better than words.



Casual ham buyers & vendors selling from their yard tents and car trunks are responsible for the bulk of the transactions at the outside flea market which must cover at least 25 acres.



It takes a full day to visit all the vendors in the outside flea market where negotiations are expected and bargains abound. Then you need to reserve Sunday morning to get the really low prices on "whats left" and do a little "dumpster diving".



Even on a nice day the inside vendors are swamped with lookers, questioners and buyers.



Even our own Gary Sutcliffe of Unified Microsystems had a booth to market his CW/Voice Keyers at the Dayton Hamfest.



A pedestrian mobil with a backpack and 75 meter whip was patrolling the grounds and getting quite a few looks of amazement.



Was it fun? Ask any of these guys. Shown are Tom (W9IPR), Jim (KA4UPW), Gary (WI9M), Gabe (WI9GC), Kent (N9WH), Ed (AA9WW), Nels (WA9JOB), Dave (N9UNR) and Rex (W9CRQ). Other ORC members also at Dayton were Mark and Naomi Potash and Leon Rediske.

Programs

The program at the June 8th meeting will be a briefing on the 2005 field day organization, logging, and operations. Volunteering for food service, setup, operating & tear down will be expected.



At the May 11th meeting, Ed Rate (AA9W) gave a presentation on the history and evolution of "detectors" up through 1920.



The highlight of the May 11th meeting was the celebration of Herb Roehner's (WA9UVK) 90th birthday. Congratulations Herb!

ORC Board Meeting Minutes - May 3, 2005

De Nancy Stecker, Secretary

Meeting called to order at 7:05 p.m. at the home of Tom W9IPR. Present with Tom are Vic KB9UKE, Nels WA9JOB, Nancy KC9FZK, Tom AA9XK, Leon K9GCF and Ed AA9W.

Committee report:

Stan WB9RQR, Dave N9UNR, Bernie AA9CI and Ray W9BUJ have volunteered to be on committees. Still looking for co-chairman for PEP next year, the corn roast in August and programming committees. Dave N9UNR will be on the membership retention committee; Gary W9XT will be DX editor.

Leon reported the Field day pretty well organized, most everyone will be there.

Up-coming calendar of events were listed.

Tom AA9XK will be updating the budget.

At the present date, Swapfest tables were down from 80 last year to 44 at the present date.

Tom assisted a St. Paul Lutheran School student with a science fair project involving ham radio and the International Space Station. The student was among the outstanding achievement award winners.

Discussion of the bylaws and suggested changes to said bylaws followed.

Membership

1.2 Changed when dues must be paid.

1.4.1 The second sentence was moved to Policy and Procedure.

1.4.2, Ed made a motion to drop the Club Membership category. Nels seconded the motion, all voted aye.

1.4.3 Removed "Special" from Family member's category.

Officers and Directors

2.1 After discussion about the addition of a 2nd vice-president to the list of officers, Vic made a motion to create the position of 2nd VP, Leon seconded the motion, the motion passed with 5 aye votes, 1 nay vote and 1 abstain.

2.5, The second sentence was deleted.

2.8. Only one voting position at a time on the Board.

2.9, Holding the maximum number of successive terms of President, 1st VP and 2nd VP to 3 years has been moved from Bylaws to the Policy and Procedures.

Duties of Officers and Directors

3.1 Replaced the current budget procedure with a two-year budget to be updated annually.

3.4 Created the duties of the 2nd VP

3.5 Deleted the last sentence.

3.6 Discussion of the Secretary's duties in keeping the roster.

3.7 Requirement for an annual audit.

3.9 Discussion of role of Past President

Dues and Assessments

5.1 Delete categories of persons who can have dues waived.

5.2 Dues are to be paid by annual meeting.

5.4 Membership to be terminated after March 1st.

Committees

7.2 Nominating committee scheduling put into Policy and Procedures.

7.3 Audit committee appointment put into Policy and Procedures.

Meeting adjourned at 9:37 p.m.

Membership Meeting Minutes – May 11th, 2005

De Nancy Stecker, KC9FZK

Meeting called to order at 7:35pm.

Announcements: Gary N9UUR told of a new bird flying (a new amateur satellite). Check the AMSAT website for details.

The Dayton Hamvention is coming up on May 20-22, 2005. Catch a ride with someone.

Happy Birthday wishes to Herb WA9UVK who is celebrating his 90th birthday today.

Bragging Rights: Congratulations to Naomi KC9GSS for earning her extra ticket.

Show and Tell: Tom W9IPR showed his vertical antenna trap, which he repaired with PVC pipe couplings, machined by EdAA9W.

Swapfest Report: Gene KB9VJP reported revenue of \$2,260.00 and expenses of \$448.61 with a profit of \$1,811.39. No \$100 grand prize was awarded this year. Attendance is dropping at swap fests everywhere. Suggestions to boost attendance ranged from expansion into a regional swapfest to making announcement of the date on all the Wisconsin nets. More ideas are welcome.

Program: The Operation and History of Detectors presented by Ed AA9W. Ed gave a fascinating history of detectors from the 1800s to WWI. In the 1860s, scientists and amateurs the around the world began experimenting with electricity. By 1888, Hertz demonstrated transmission of radio waves and reception of them with a detector, for the first time. While Ed talked about the men who were making history, he projected schematics of early devices; each built and improved on the last one.

Fellowship: A beautiful birthday cake with ice cream was served in honor of Herb's 90th birthday.

Auction by Stan WB9RQR.

Business Meeting: Minutes were accepted as printed in the ORC Newsletter.

Treasurer's report was accepted as printed on handouts on the tables.

Repeater Report: Nels WA9JOB reported the antenna has been installed at the Grafton Fire House. The repeater is on a solid-state amplifier that will be used when we move. When the Wirth property is sold, we will have to move out of the barn. Expenditures should go down at that point. Dave N9UNR is working on the 2005 roster and because of space constraints, asked if he can delete the speed dial on auto patch information from this year's roster. It was agreed that it was no longer necessary and could be deleted.

OZARES: Jon KB9RHZ-At the May 26 meeting, a National Incident Management System course will be given. This is a required course for all first responders. There will be no June meeting. For a map of all repeaters in the state, log onto the Wisconsin ARES/RACES website.

Committee Reports:

Public Relations: Naomi KC9GSS stated she has more labels for magazine donations if needed. She will be getting information about the upcoming Field Day into newspapers. Tom W9IPR would like to get students involved in Field Day. If you have ideas, call him. Also, see Tom if you are interested in ordering an ORC hat.

Field Day: Jim KA4UPW reported that some Band Captains are still needed for the June 25 Field Day. The GOTA site needs a captain and Rosie needs help in her tent this year. A reminder came from Cindy KA9PZG that the Saukville River Clean-up on June 4 would need volunteers.

Scholarship Fund: Ed AA9W contributed \$399.50 to the scholarship fund from profits made at his table at the swapfest while Tom W9IPR contribution was \$151.50. Ed suggested a field trip to Bob Paquette's Microphone Museum in Milwaukee might be interesting. A show of hands showed a preference for a Saturday morning excursion.

Old Business: Paul KD9FM has checked on the two towers. Only one is a possibility for removal and use by the ORC.

New Business: The treasurer will pay \$300 to reserve Circle B for the 2007 Field Day.

The chair entertained the motion to accept the changes made to the by-laws as published in the May edition of the ORC Newsletter. After discussion, Dave N9UNR made the motion to accept the changes to the by-laws; Stan WB9RQR seconded the motion, the motion passed.

Ted N9LLT commented on the pleasant experience while interviewed by Steve K9DXT for an article in the Just Another Shack column in the ORC Newsletter.

Attendance: Gabe WI9CG, Jim KA4UPW, Stan WB9RQR, Jon KB9RHZ, Ed AA9W, Gary N9UUR, Dave N9UNR, Joe AA9HR, Nels WA9JOB, Don AA9WP, Ray W9BUJ, Ray W9KHH, Gene KB9VJP, Herb WA9UVK, Vic KB9UKE, Don W9VSC, Leon K9GCF, Paul KD9FM, John KC9FJX, Mark KC9GST, Naomi KC9GSS, Tom AA9XK, Roger W9UVV, Mark AB9CD, Ed AA9WW, Gary W9XT, Paul KB9WCC, Keith KY9P, Ted N9LLT, Jim K9QLP, Ron W9BCK, Bob W9LO, Bernie AA9CI, Bob N9NRK, Terry KA9RFM, Jane KB9SYI, Nancy KC9FZK, Carol KC9CBC, Julia KB9WBQ, Gary WI9M; 40 total.

Meeting adjourned at 10:10pm.
Nancy KC9FZK, secretary

AGENDA

June 8th, 2005

1. Call to order – Tom (W9IPR)
 2. Introductions.
 3. Announcements, Bragging Rights, Show & Tell, Upcoming events, Etc.,
 4. Program: Field Day Preparations
 5. Fellowship Break
 6. Auction.
 7. Acceptance of Minutes.
 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 7th Avenue, Grafton

Wednesday, June 8th

7:30 PM



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.



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Volume XXIV

July 2005

Number 7

The Prez Sez

By Tom Ruhlmann (W9IPR))

Again, another busy but productive month.

I finally succumb to the ranting of Ron Yokes (W9BCK) and joined the Quarter Century Wireless Club. It requires having a license for 25 years so I guess I have been eligible these past 28 years but no one before had asked me to join. I think that is the way with most of us – we don't volunteer but wait to be asked. In this case it cost me 28 years of lost friendships and enlightening activities. They had a meeting on the 4th and one of the members had brought some WWII field radio equipment for the group to review and then gave a talk about the different theaters in which the equipment was used. It was really pretty interesting. If you would like to participate, contact Ron Yokes rather than waiting to be asked.

Then the activity picked up with Ed Frac (AA9WW) being appointed to serve the balance of the term of the newly approved position of 2nd VP. While the Board has not yet defined all of Ed's duties, he will initially be responsible for the Corn Roast - so call Ed if you want to volunteer as chairman or for one of the many tasks associated with the "roast". Since Ed is already on the Membership Committee as the "Mentoring" director, he will also have overall responsibility for the membership committee of which Paul Schumacher (KB9FM) is chairman and Dave Barrows (N9UNR) is the retention director.

And the next thing I knew, Channel 6 and Gus Gnorski were pulling into my driveway. Naomi Potash (KC9GSS) had arranged for them to do an interview about the ORC and field day on the Thursday prior. We found out Wednesday that

they would be here and we set up a tent, thanks to Greg (W9DHI), and set up two stations operating in my back yard using portable antenna and a very long extension cord – yes, it all worked.



This FOX 6 truck really got the neighbors attention and they were soon in the back yard monitoring the FOX 6 - ORC production.

At 7:45 AM Gus interviewed me concerning amateur radio, the ORC and field day in general.

Then at 8:45 AM he interviewed Jon Gilmore (KB9RHZ) about OZARES.

Several were here from the club to help with the production and consume the donuts and coffee.

My special thanks to Naomi, Mark, Gary, Paul, Leon, Jon and Gabe.

It was live and all went well with the ORC and OZARES getting a real plug on Channel 6.



Gus Gnorski (past W9FAA) of FOX 6 interviewed Jon Gilmore (KB9RHZ) about OZARES as the live camera rolled and Naomi (KC9GSS) and Gary (WI9M) operate HF in the background.

Then it was get ready for field day. That involved assembling a couple of antenna and packing the station in the trailer. Wow, was it ever hot during setup on Friday. We really could have used more help on Friday with the setup of towers, antenna and tents. Thank goodness Stan finally put the turkeys on to cook and we could have a couple of brew while we waited for the traditional turkey dinner. Special thanks to Nancy who chaired the food committee and all those who made the feeding frenzies a great success. Special thanks to Muhammed Jamal (KC9CPC) who donated all the soda and bottled water. Not sure about the number of operators at the other tents but I really appreciated the operators who took a turn at 40 meter phone – we really did well this year with over 620 contacts. I am convinced the secret is in being active for the full 24 hours. It was really great fun – now to continue unpacking.

Still learning, I just started the EMCOMM 001 training course offered by the ARRL on-line. I have made it through the first 7 of 24 lessons and must say that it seems to be a pretty good program related to emergency communications capabilities and techniques. I recommend it. I did find that I had to send in the check to get enrolled. It seemed that whenever I tried to enroll on line the class would already be full – I suppose with those who had sent in a check.

Looking forward there is the annual swapfest sponsored by the South Milwaukee Amateur Radio Club at the American Legion Post 434 on Shepard Ave. In Oak Creek. This has always been one of my favorites since it is outside and most everyone is selling out of the back of their truck or car. I suppose another reason is that I was a member of that club for many years prior to moving to Cedarburg. I will be trying to get rid of the balance of donated stuff that is still in my garage. What's left will make it's way to our meetings.

And don't forget August 27th, the annual ORC Cornroast. We will need to get a chairman for this event at our July 13th meeting.

Fish Days in Port Washington is also on the horizon – a fun event at which to volunteer.

We are still looking for a few more newsletter editors/authors, Cornroast committee members, Youth Committee members to work with the schools and a Training Coordinator. It's not too early to start the planning for next years PEP and Swapfest – these committees are also accepting volunteers.

On a more immediate issue, if no one volunteers monthly to make the coffee or arrange for meeting snacks, there will not be coffee and snacks at the meeting break. At the July meeting we will ask for volunteers for the August and September meetings.

Again, get involved and have some fun.

THE TRUE SPIRIT OF FIELD DAY

De Bob Truscott (W9LO)

“STOP! YOU'RE FILTHY! DON'T TOUCH ME UNTIL YOU TAKE A SHOWER!” That's what Jean said when I arrived home from Field Day

on Sunday afternoon and moved toward her for my “welcome home” smooch. Allowing that her point may have merit, I said something like “OK, you’re worth waiting for, so I’ll do that, but I need to rest up a little first.” When I headed for my favorite chair she said, “STOP! YOUR CLOTHS ARE FILTHY, TOO! YOU CAN’T SIT IN THAT CHAIR UNTIL YOU CHANGE THEM!” Now, those are pretty harsh words, coming from the woman who has shared the aftermath of Field Day with me over 50 times, plus a few with her father before I met her. Wouldn’t you think she should have known what to expect? It’s her own fault---she never should have introduced me to that evil old man who injected the Field Day virus into my veins.

And this brings us to the “true spirit” thing. It’s a well known fact that you can judge the amount of effort that individual participants have put into the FD effort by looking at them and sniffing the air around them. Things to consider are the degree of filth on their clothing and exposed body areas, the length and “scruffiness” of the newly grown beards (scruffy old beards don’t count), and the degree of air pollution surrounding individuals. Judging is necessarily a subjective thing, and looks can be deceiving because some of the relatively new FD people, probably out of ignorance, violate the Field Day Commandment, which is “Thou Shalt Not Bathe or Shave on Field Day Weekend”. Some of you have admitted to using the showers at Lazy Days—don’t do that, it’s downright immoral, and distorts the judging process. And worse yet, some of you sneak home on Friday and Saturday nights to shower and sleep in a real bed. We know who you are, and will be watching you next year—mend your ways.

Historical Note: The traditions mandated by the Commandment originated during the great depression of the 1930s when hams were too poor to buy soap, and had no running water. Give thanks to our predecessors for showing us the way.

I nominate Jean to be the chief judge next FD because of her great experience in that area. Judging will begin at 3:15 PM on Sunday, immediately after the loading of Ed’s trailer is completed. Hopefully this will be incentive for more

people to stick around and help during the last hour---this year there were 5 ½ of us.

Hams Fight Crime in Chicago

De Roger Zaun (W9UVV)

This happened in Chicago in late 1939 while employed as a Junior Design Engineer in the product development laboratories of the Thordarson Electric Company. Early one morning, our Chief Engineer, Wilfred Howe, W9UVP, came in the lab, accompanied by his good friend, Fred Schnell, W9UZ. Fred was head of Chicago Police Radio Communications. Wilfred said Fred Schnell was here to determine if we could build a piece of radio gear for his special project. However, all related information to be disclosed must be kept confidential and go no further.

Fred then related that Currency Exchanges in an area of the city were being “ripped off” by an elusive group of armed holdup men. To date, efforts to apprehend them were minimal and City Hall was pressing the Police Department for more aggressive measures. Police officers had been staked out in back rooms of several exchanges but this effort tied up personnel and put customers and clerks in harms way. One shoot-out had already occurred. Luckily no one was injured. The bandits, however, escaped. With this kind of hazard the department was reluctant to further pursue this approach. Fred Schnell further related that dedicated phone lines had been tried but it was not very productive. By the time the holdup was called in and the radio dispatcher authorized to broadcast to the radio police cars the holdup men were long gone.

Fred said that I have conceived a different approach to the problem that may work but I will need to proceed “out of the loop”. To send my plan through normal department channels for review and approval would take forever and likely compromise its secrecy. To implement my plan I need your company” cooperation to design and build a small portable transmitter to operate near the AM police radio frequency (then 1750 kc). The unit would send a tone-modulated signal when actuated by a concealed alarm

switch. The transmitter would be installed in a selected Currency Exchange and only the radio police car assigned to the area would be informed of the exact date and time of the surveillance operation. This direct radio alarm would then bring immediate police response missing from previous efforts.

My Chief Engineer, confident that the company's CEO's authorization would be received said, "Roger, I want you to handle this. You have had other transmitter design projects – this one should be a piece of cake. You are to drop all other current assignments and I want to see a completed unit within 10 days, or less."

Later that day I stopped by his office with requisitions for signing and he asked if his friend Fred Schnell impressed me. My reply was that he seemed a pleasant and intelligent fellow. From his facial expression I could immediately tell this was not the response he expected. His rather loud retort was "young man, where have you been hiding? This man is an early radio communications pioneer and a legend in the amateur radio fraternity. His radio accomplishments are many and for your enlightenment, these are a few:

At the close of WWI he copied the Armistice message from Germany and was chosen to send the acknowledgment: the first radio contact with Germany.

In 1923 he established the first two way amateur radio contact with Europe (France).

In 1925, as a Lt. Commander in the Navy, he conducted the first long-range high frequency tests for the U.S. fleet in maneuvers in the South Seas.

For many years he was the traffic manager for the ARRL.

He has also been a prominent consulting engineer for the radio industry – must I continue?"

I beat a hasty retreat to the lab; fully impressed that Fred Schnell's project had first priority.

I well remember the "rig" I designed and built. It had a Pierce crystal oscillator using a type 47 tube coupled to a 1619 beam tetrode final using screen grid modulation. The carrier output was about 15 watts. The 1619 tube utilized a pi-network tank circuit so the rig could be loaded into a random length antenna strung up for this special operation.

The modulator was a type 2A3 tube using a center tapped transformer in a 1000 cycle audio oscillator circuit with the secondary winding carrying the 1619 screen circuit: thus tone modulating the final amplifier. The cathode of the 2A3 was keyed by a contact riding on a notched rotating drum driven by a small constant speed motor. The power supply was conventional, operating from 115 VAC. Directly heated filament tubes were selected so that the transmitter would put in operation almost instantly. The power supply also utilized a latching relay so once the low voltage alarm circuit was closed the transmitter remained on the air until it was reset. The entire unit was mounted in a Bud Radio carrying case. The only panel controls were the final tuning, antenna loading, a relative output meter, an antenna terminal and terminals for the remote alarm switch.

Well we did make the project deadline and delivered the finished unit. Needless to say, I was very curious whether the unit ever accomplished its intended purpose. About a month later, I saw Fred, W9UZ at a local Ham gathering and queried him on his hush-hush project. He pulled me aside and in a confidential tone said, "Hay, you haven't seen any recent reports of Currency Exchange robberies in the Chicago Tribune have you"? Incidentally, my position in the Police Department still seems secure. Enough said, and many thanks to you guys at Thordarson Electric".

RIVER CLEANUP WELL DONE!

De Cindy (KA9PZG)

The 10th Annual Saukville River Fest went on without a hitch, thanks to all the volunteers who showed up to make the yearly event successful!

And, of course, we give special thanks to the following ORC members who gave up their morning on Saturday, June 4th to make the event a safe and fun one for all:

Bernie AA9CI
Don W9VSC
Nels WA9JOB
Skip KA9DDN
Cindy KA9PZG

These individuals were assigned to specific work groups in the village helping with communications between the volunteers and base camp. Many thanks to those ORC members who were willing to help out! Volunteers were treated to lunch and a T-shirt!

The annual talk among the group is, “what unusual item(s) were found by cleanup crews this year?” If you don’t have a clue to what that’s all about, volunteer next year and get in on the action!

Field Day – 2005

Yes, we did it again and had a really great time.



Following setup it’s time to eat and share refreshments. Stan (KB9RQR), our turkey chef, is in the far back carving the second of four turkeys consumed Friday evening.



The traditional sheepshhead game was again played after Friday evening dinner by these confident ORC members. Shown are Bob Truscott (W9LO), Gabe Chido (WI9GC), Gary Bargholz (N9UUR), Mike Borchard (N9NPB), Nels Harvey (WA9JOB) and Jeananne Bargholz (N9VSV).



Ed Rate (AA9W) and GOTA Captain Gabe Chido (WI9GC) assist Tom of the Civil Air Patrol getting on the air at the GOTA station.



Leon Rediske (K9GCF) and Field Day Chairman Jim Hilins (KA4UPW) took a break from their 20-meter activities in Jim's camper. They also used Leon's crank-up tower and beam to earn a very respectable number of contacts during the 24-hour period.



There was much discussion on the part of Ray Totzke (W9KHH), Ed Frac (AA9WW) and Gary Sutcliffe (K9XT) but they didn't seem too impressed with the idea of a vertical for field day. It was finally concluded that it needed more radials.



Jeananne Bargholz (N9VSV) continuously scanned the "magic band" as she made the ORC W9LO station a force on 6 meters.



Mark (KC9GST) and Naomi (KC9GSS) Potash spent many hours making contacts on 40 meters phone to help create a total of over 620 by the end of Field Day on Sunday at 13:00 hours.



Terry Berg (WA9AWO) and his wife ANN (WB9JHP) again came up from IL to join us on Field Day as our 80 meter CW Band Captain. Terry was a long time member and President of ORC and it is always good to welcome him back to Lazy Days Camp-ground.

OBITUARY 6-26-05

De Bob Truscott (W9LO)

Nobody knows exactly how old you were, or where you were born. We found you in an orphanage back about 1963, you, your twin sister, and big brother. The folks at the orphanage could tell us very little about your past, but they indicated that you had served your country admirably during WW-II. Some thought you served in a medical unit in the South Pacific, while others believed it was with General Patton in Europe. In any case, they all agreed that it was a disgrace that your country would cast you aside like an unwanted child when it no longer needed you. When we visited the orphanage we immediately knew that you were exactly what we needed to complete our little ham radio club family, so we adopted the three of you.

We gave you the awesome responsibility of caring for the CW members of our club on that first Field Day of our relationship. Your twin sister was given the same responsibility for the phone guys, while your big brother was assigned to feed the entire club membership. You attacked your assignment eagerly, and were an immediate success. You seemed to thrive on the melodious sound of CW. Your twin, on the other

hand, fell into bad company. The phone guys just didn't seem to care. They abused her and neglected her needs, leading to her passing after only about 15 years. Big brother fared much better because he had more clout. He simply said "keep me healthy or I'll stop feeding you". Dr. Stan did exactly that, replacing worn out body parts as needed, and making sure he was properly cared for between Field Days. Over the years, the good Doctor became your brother's assistant, taking care of little chores like grilling the turkeys, etc. With that kind of care we expect your brother to be with us for a good many more years.

You did a wonderful job for us. In the early years you kept us cool in the daytime, warm at night, and dry at all times. Your spacious interior permitted us to operate and entertain at the same time, making us a Field Day social center second only to your brother's. But age took its toll, and your skills declined as the years passed. Little holes appeared in the ceiling, and water leaked through when it rained, but that didn't matter—we just moved the rig to a dry spot, and continued to operate. After a while the door started to rot away and we could no longer close it. That was not a problem until last year when the temperatures dropped down to the 30s on Saturday night. Some whiners and wimps complained about that, but the "real" hams didn't care. That's all part of Field Day.

This was a sad Field Day for some of us. We tried on 4 separate occasions to help you stand up, but were never successful. Too many of your body parts were broken or missing, and your skin was rotting away. The duct tape that held you together for about the last 5 years could no longer do the job—your skin was too thin to support it. We almost made it on the 4th attempt, but a big wind came up and forced us to abandon the project. The message was then clear, it was time to lay you to rest—you just couldn't do it anymore.

At the close of Field Day a small group of us assembled for a final toast to you, after which we loaded you on Ed's trailer for the last time. 40 CW will never be the same. Goodbye, old friend.

Tips,Tails & Tools

Have trouble trimming the shield when assembling a coax connector? A close fitting washer and a pair of manicure scissors may solve the problem.



Place the washer at the point on the shield where you intend to make the cut. Then push the shield up against the washer creating a flange.



Use manicure scissors to trim around the shield at the base of the flange and then slide off the excess shield.



Now cut through the insulation to the conductor. Now slide the insulation off the conductor and you are ready to assemble the coax connector onto the cable and solder the shield (if copper) to the housing.

Upcoming Events

July

9th South Milwaukee Swapfest

13th Membership Meeting

16th Fish Days at Port Washington

25th-31st Airventure 2005 at Oshkosh

August

2nd Board Meeting

6th ARRL UHF Contest

10th Membership Meeting

13th Circus City Swapfest

27th ORC Cornroast

Board Minutes - June 8th, 2005

De Nancy KC9FZK

Meeting called to order at 7:00 PM in the Grafton Senior Center by Tom W9IPR. Board members present were Vic KB9UKE, Tom W9IPR, Ed AA9W, Nels WA9JOB, Leon KB9GCF, and Nancy KC9FZK.

The single item on the agenda was the open position of Second Vice President. Since no one volunteered, and no other suggestions were presented, Tom W9IPR asked Ed AA9WW if he would accept the job and he agreed. Ed's responsibilities would include

heading the mentoring committee and the corn roast committee. Nels WA9JOB moved to accept the President's recommendation to appoint Ed AA9WW to the position of 2nd Vice President. Vic KB9UKE seconded the motion. The vote was unanimous in favor.

Nels WA9JOB reported a possible push on clearing out the barn. Equipment is to be moved to the fire-house, and the transmitter will be at the intersection of Highways KK and LL.

The meeting was adjourned at 7:07 PM.

ORC Membership Minutes – June 8th, 2005

De Nancy Stecker, KC9FZK

Meeting called to order at 7:35 PM.

Announcements: Nels WA9JOB presented a plaque to Bob W5CFB commemorating his admission into the A1Operators Club.

Tom W9IPR called for a moment of silence in memory of Tom K9ZPZ who passed away last week. Nels WA9JOB told the club members some background information about this silent key since some members present did not know him.

An ORC Technical Advisors List sign-up sheet was passed around. Members were asked to list any special talents that might be useful to other ORC members.

The Board appointed Ed AA9WW to the position of Second vice-president for the rest of the term.

Fish Days is July 16 and 6 hams will be needed to assist with the parade from 8:30 am to 1:00 in the afternoon.

Bragging Rights:

Vic KB9UKE said his wife Barb prepared the treats, and that they were heart healthy. They were also delicious.

Tom W9IPR said using a DX Cluster via an Internet connection was great for working DX in other countries.

Cindy KA9PZG thanked Bernie AA9CI, Don W9VSC, Nels WA9JOB and Skip KA9DDN for helping at the Saukville River Cleanup.

Program: Field Day Preparations by Jim KA4UPW. Jim gave a PowerPoint presentation using photos from 2003 and 2004 Field Days. He noted that Field Day is really an exercise in preparation for emergency communications. Because of his experience with Hurricane Andrew, Jim knows the importance of

practicing for any emergency where hams can be of service to the community. Gary WI9M and Jim led the discussion on remaining plans for Field Day. The food committee needs a new chairman, Nancy KC9FZK volunteered.

Break

Auction by Stan WB9RQR

Business Meeting: Minutes were accepted as printed in the ORC Newsletter.

Treasurer's report was accepted as printed on hand-outs on the tables.

Repeater Report: Nels WA9JOB stated all repeaters are on and working properly. Jim K9QLP has been doing some work on the 224.18 repeater, in an effort to reduce a noise problem.

OZARES: No report.

Committee Reports:

Membership: No report

Public Relations: Naomi KC9GSS has sent Field Day information to local newspapers.

Youth: Tom W9IPR has contacted high school science teachers inviting them to attend Field Day in an effort to foster high school amateur radio clubs and bring new hams into the hobby.

Old Business: No old business.

New Business: No new business.

Attendance: Jane KB9SYI, Naomi KC9GSS, Nancy KC9FZK, Bob N9NRK, Ron KC9DKQ, Tom W9LNL, Leon K9GCF, Bob W9LO, Gary W9XT, Mike WJ9O, Ray W9KHH, Mark KC9GST, Bob W5CFB, Herb WA9UVK, Nels WA9JOB, Jim K9QLP, Bernie AA9CI, Vic KB9UKE, Zack KC9HEJ, Ed AA9W, Gabe WI9GC, Muhammad KC9CPC, Stan WB9RQR, Don W9VSC, Ed AA9WW, Jim KA4UPW, Tom AA9XK, Ted N9LLT, Roger W9UVV, Paul KD9FM, Carol KC9CBC and guest A. Chris Austin

Meeting Adjourned at 9:55 PM.

Nancy KC9FZK, Secretary

AGENDA

July 13th, 2005

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 –
 - Field Day –
 - Corn Roast -
 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, April 13th

7:30 PM



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.



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Web site:

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Volume XXIV

August 2005

Number 8

The Prez Sez

By Tom Ruhlmann (W9IPR))

One of the best things about July is always the South Milwaukee Swapfest and we were there again this year. Ed Rate (AA9W), Tom Oehler (W9LNL) and I had breakfast with the "early morning group" and then headed for South Milwaukee with full vehicles. This is the first time we had gone as vendors and we were able to sell over \$250 worth of Club remains for the Scholarship Fund. It was a great time – saw many old friends and told a few tales in the process of a few sales.



Ed (AA9W) and Tom (W9IPR) were busy at the South Milwaukee Swapmeet selling from the trunk of the car and off the ground to benefit the Scholarship Fund.

Finally things have slowed down a bit in terms of "ham" radio and Pat and I spent 9 days at the Oshkosh Airfest working in our EAA 1158 Air-mart tent. It is a consignment airplane parts tent and the commissions essentially support our EAA chapter. Something to think about – would it work at Dayton?

I did finish the EMCOMM 001 class in mid July and I have already received a certificate, patch, decal

and \$45 check in the mail. Pretty fast that ARRL. It really was a good "online" class and it exposed me to some new sources of information. I enjoyed it and the price was certainly right. Give it a try – you might like it.

That's really about it for July and now we are looking forward to August. We had a Board meeting Aug. 2nd and among other things approved a 2-year budget, new organizational chart and four new policies. The minutes are attached for your review.

We will be promoting the ORC at the commercial building at the County Fair August 5th and 6th. This is an excellent opportunity for us to spread the word about amateur radio and the ORC. Hope to see you there on Friday and Saturday.

The highlight of August is of course The Corn-roast on August 27th at Waubedonia Park. This has become a tradition for family fun and a good one at that. Again, I hope to see you there. I am also hoping to learn a bit about fox hunting there as well.

That's it for now. See you at the meeting on August 10th. Get involved and have some fun.

Tom

Contesting

De Bob Truscott (W9LO)

The 2004 Wisconsin QSO Party results are not yet available on the web, but Lynn, K9KR, the contest chairman, was kind enough to send me the portion of the file which shows the results of the club competition. First place went to the Fond du Lac Amateur Radio Club, for the 3rd year in a row, while OZRAD took 4th place (out of 26 entries), just 61,000 below them. That's not bad, considering that this was the first time we, as a club, have made a serious effort to compete. It

seems to me that with a little pre-planning and organizing we should be able to unseat the Fond du Lac guys next year. Perhaps we should form a committee, as we do for Field Day, and figure out how to do that. Heck, if we can take the #2 position (nationally) in 5A on Field Day we should be able to make up 61,000 points in the WIQP. Let's work on it.

Lynn also sent limited information on the Single Operator Fixed category:

1. N9FH
3. W9XT
8. W9LO

A website problem has prevented posting the full report, but I understand that it will be corrected soon, at which time we will know the rest of the details.

Have fun contesting.

Bob, W9LO

FISH DAY 2005, A Bittersweet Day

By Cindy KA9PZG

Another Port Washington Fish Day has come and gone. This year's event was held on Saturday, July 16th with a number of our trusty ORC amateur radio operators on hand to help handle traffic for the parade officials.

This year's event was like any other; however, there was the knowledge that Port's Fish Day Parade chief was managing her last parade for the event. We all knew her as Kathy "F.I.S.H." Pohl, her well known self-dubbed amateur call-sign to make us all feel comfortable with her. She'd attend meetings in June and July asking for help to manage communications between parade officials to help the parade go off without a hitch. Kathy knew she could rely on our group to have operators available, and that we were! Many of the volunteers were well seasoned and knew what each had to do during the 3-1/2 hours we were there. I was one of the lucky ones who shadowed Kathy over the past number of years and got to know her well. It'll be strange to not have her "in charge" next year, although she claims she will be in the background for refer-

ence. Her replacement, Andy Steck, will be the one to fill her shoes next year. And like any other year, we'll all step in to be there once again and help the new committee members with the knowledge we have come to learn from over the years of volunteering.

Many thanks to these ORC members who gave up their morning to help Kathy and her group at Port Fish Day this year:

W19GC
N9LLT
KA9DDN
K9QLP
KA9PZG

New Member

Zack Mackay (KC9HEJ) is our most recent new member. Zack lives in Shorewood and received his Technician license in February 2005. Already, Zack is studying the theory in preparation for earning his General class ticket. Presently he is using only his tri-band Kenwood THF-6 HT but is looking forward to earning his General so he can go all band and work some HF.



Zack works at Northwestern Mutual Insurance in support of the Graphic Design Group. He works not only with the hardware but also programs in Fusion and Java Script among other languages. He got interested in ham radio as a result of lunchtime discussions with one of our other members, Dan Brophy (AA9QR), who also works at Northwestern.

Among Zack's other hobbies are building computers, photography, building cameras and

working with the Milwaukee County Red Cross communications group.

Cornroast

Ed Frac (AA9WW) is this year's chairman of the annual corn roast and he promises a great time. It will again be held at Waubedonia Park in Fredonia along the Milwaukee River. This year we have the pavilion reserved and need not worry about the weather. Bring a dish to pass while the Club provides the burgers, brats, refreshments and corn. In addition we are looking forward to a "Fox" hunt led by Leon (K9GCF) and other interesting ham activities. Should be a great time for the entire family on August 27th. See you there.

For Sale

KLM 20M5 5 element 20m 42' boom \$300
KLM 15M4 4 element 15m 14' boom \$125
KLM 10M4 4 element 10m 10' boom \$125
Each in excellent condition with heavy duty 4KW balun and manuals
Alpha-Delta DX-B sloper. 160, 80, 40 & 30m coverage. Only 60' long. New \$80 – asking \$40
Yaesu FT-5100 2m/440 FM \$150
Call Fred 262-376-5388. N9FH@ARRL.NET

Upcoming Events

August

- 6th ARRL UHF Contest
- 3rd- 7th County Fair
- 8th Field Day Review Meeting
- 10th Membership Meeting
- 13th AES Picnic @ Fond du Lac
- 13th Circus City Swapfest
- 27th ORC Cornroast

September

- 10th ARRL VHF QSO Party
- 14th Membership Meeting
- 18th Wisconsin Bike Ride
- W9DXCC convention at Elk Grove Village IL
- 17-18 Grayslake Chicago FM Repeater ClubHam-fest
- North American Sprint – CW Contest

North American Sprint – SSB Contest
CQ WW RTTY Contest

October

- 12th Membership Meeting
- 8th General Class Training Class Starts

Field Day 2005

In summary, we had 51 participants (including 40 ORC members) and operated as 5A (Club station with 5 simultaneous transmitters) with a GOTA, 6-meter and satellite station.

The breakdown of contacts 2004/2005 is:

	CW	Phone
80M	152/252	109/258
40M	975/1133	621/531
20M	591/564	607/362
15M	154/47	2/298
10M		0/200
6M		123/200
Sat.		1/1
GOTA		107/139

This totals 3673/3980 contacts.

Last year we really had some unusually good propagation conditions as you will note when 10 meters opened up.

As far as point count goes, the CW contacts count for 2 points while phone counts for 1.

Our total score was 10,628 plus 1,560 bonus points for a total of 12,188 points. This compares with our 2004 performance of 3980 contacts and 13,676 points. In a few months we will know how we stack up against the rest of the Nation.

The bonus points are for such items as using emergency power, press coverage, information booth, use of solar power, attendance of elected official, participation of youth under 18 and use of satellite and GOTA stations.

Nice job by all who participated and special thanks to the chairman Jim Hillins (KA4UPW) and the Band Captains:

80/15M	Ph Rosie Maybee	KB9PZK
80/20M	CW Terry Berg	WA9AWO
40	Ph Tom Ruhlmann	W9IPR
40/10	CW Bob Truscott	W9LO

20/10 Ph Leon Rediske K9GCF
GOTA Ph Gabe Chido WI9GC
VHF Ph Jeananne Bargholz N9VSV
Sat. Ph Gary Bargholz N9UUR

Don't forget, there is a Field Day Review meeting at Leon's the evening of August 8th. If you are interested, be there.

Membership Meeting Minutes – July 13th, 2005

De Nancy Stecker, KC9FZK

Meeting called to order at 7:35 by President Tom W9IPR.

Introductions: Name, call sign and club position were presented by all present.

Bragging Rights:

Jim K9QLP reports that Dick K9CAN has the 220 MHz repeater working very well. Jim says it is a great band and he brought a radio for club members to try it out.

Nels WA9JOB said Dave N9QA has received a new kidney that is working well. He is at St. Luke's Hospital, Room 9106. Dave N9UNR is at Froedtert Hospital for a few days.

Terry KA9RFM has raffle tickets for the 16th Annual Charity Air Show Raffle, August 6, 2005. This is in support of the Astro-Wings of Wisconsin and Special Olympics.

Ted N9LLT will provide copies of the Channel 12 and Channel 6 TV coverage of Field Day activities on request of ORC members for a nominal charge. E-mail him via the ORC website.

Tom W9IPR brought a display of QSL cards that belonged to his mother.

Club members filled a request for volunteers for the Fish Day Parade.

There will be no coffee or snacks this month or next as no one volunteered for this job.

Break:

Auction: by Stan WB9RQR

Business Meeting: Minutes were accepted as printed in the ORC Newsletter. The Treasurer's report was accepted as printed on handouts on the tables.

Repeater Report: Nels WA9JOB is having problems with the Mequon site. It has lost sensitivity so it will be pulled out, repaired and returned. He will be using the Mequon site when the repeater is moved from the barn. Dick K9CAN has done a good job getting the 220 MHz repeater running well and the 440MHz repeater in Port Washington is also working well.

OZARES: Jon KB9RHZ stated the July OZARES meeting would be on the 4th Thursday of the month. The August meeting will feature a Highway Watch program presented by ARES Assistant Section Emergency Coordinator for Training Skip Sharpe, W9REL. On September 18, 2005 help will be needed for a Bike Ride starting and ending at the Cedarburg High School.

Committee Reports: Public Relations:

Lynn Kleinman, a reporter for the Mequon Thiensville Courant, will be interviewing members of the ORC for a feature article.

Scholarship: Ed AA9W announced that through the sale of donated equipment, the Scholarship Account grew by \$650 in June 2005 and \$651 in July 2005.

Old Business:

Talking about Field Day, Gabe WI9GC said in the future, more help would be needed taking equipment to and from Lazy Days Campground. He also thanked Ed AA9WW for the use of his generator and trailer. Also, changes need to be made in running electric lines to trailers and tents both for convenience and for safety. Tom W9IPR plans to have a Field Day Committee whose purpose will be to discuss possible needed changes, safety concerns, and repairs involved with that activity. The need to involve younger people into the ORC is another goal of the club.

Ed AA9WW has been appointed the Corn Roast committee chairman. That date is August 27, 2005. Be sure to mark it on your calendar.

New Business: If anyone has pictures from field day, get them to Mike KC9GDV; he will put pictures on the web site.

Attendance: Ed AA9W, Nancy KC9FZK, Stan WB9RQR, Leon K9GCF, Vic KB9UKE, Kent W9WH, Mark KC9GST, Nels WA9JOB, Gabe WI9GC, Don W9VSC, Bernie AA9CI, Jim K9QLP, Tom W9LNL, Herb WA9UVK, Terry KA9RFM, Skip KA9DDN, Naomi KC9GSS, Jon KB9RHZ, Cindy KA9PZG, John KC9FJX, Roger W9UVV, Mark AB9CD, Ray W9KHH, Paul KB9WCC, Gary W9XT, Ron W9BCK, RayW9BUJ, Ed AA9WW, Ted N9LLT, Jane KB9SYI, Jeff WB9PZD and guests Cathy Pohl and Ruth Belovsky.

Meeting Adjourned at 9:08 PM.
Nancy KC9FZK, Secretary

ORC Board Meeting Minutes – August 2, 2005

Nancy Stecker, Secretary

Meeting called to order at 7:15p.m. at the home of Tom W9IPR. Also present were Ed AA9WW, Nels WA9JOB, Leon K9GCF, and Nancy KC9FZK.

The ORC has been invited to share manning a booth at the Ozaukee County Fair with other agencies including the Ozaukee Public Health Department. Because of the short notice, an announcement will be put on the club's re-mailer asking for volunteers. Informational handouts will be taken to the booth. A motion was made by Nels WA9JOB to promote the Ozaukee Radio Club at this year's county fair. Seconded by Leon K9GCF, the motion passed.

Changes to the organizational chart included the addition of Social Secretary Activities to the duties of Secretary. Also, the internal activities and external activities of the club were divided between the 1st Vice President and 2nd Vice President respectively. The chair entertained a motion to accept the changes, Leon K9GCF seconded the motion and it passed.

After discussion, Nels WA9JOB made a motion to accept the 2-year budget as written. Nancy KC9FZK seconded it and the motion passed.

Policy and Procedures numbered 4 through 7 were brought forward for discussion and approval.

Policy and Procedure #4 lists the duties of the Trustee. Leon K9GCF moved to accept the policy as written by Ed AA9W, Ed AA9WW seconded, the motion passed.

Policy and Procedure #5 concerns the procedure for conduct of elections and term limits. Nels W9JOB moved to accept the policy as presented, Nancy KC9FXK seconded the motion, the motion passed.

Policy and Procedure #6 defines the amount of dues. Nels W9JOB moved to accept the policy as written, Leon K9GCF seconded, the motion passed.

Policy and Procedure #7 defines the procedures to be used in the annual audit. Small changes were made to the proposed policy. Because of changes in bank procedures, copies of canceled checks can be used instead of the actual canceled check. Either bank receipts or copies of deposit slips are acceptable to trace deposits. The current December statement will be included with other bank statements when conducting the annual audit. Nels W9JOB moved to accept the procedure as modified, Nancy KC9FZK seconded the motion, the motion passed.

The ORC Scholarship Award for 2005 has been given to Travis Waack KB9YRC from Manitowoc, WI. He is an 18-year old student of Meteorology and Physics at Northland College in Ashland, WI.

Ed AA9WW, chairman of the Corn Roast Committee, will be contacting members for assistance in planning this year's picnic.

In response to a request to purchase 10 GOTA pins and 6 Field Day pins for media and VIP visitors to Field Day, the board decided to purchase one of each. The Field Day pin will replace one given to Senator Glenn Grothman by Dave Barrow N9UNR. Gabe will be given the GOTA pin in recognition of the contacts made in the GOTA tent.

Nels WA9JOB reported an antenna on Green Bay Road, which has been offered to the club, must be taken down before Thursday, August 11, 2005. It is slated for demolition on that date.

The Meeting and Program Committee Chairman is looking for people to do programs

The regular monthly meetings have been without coffee or snacks. In September, membership will again be asked to volunteer. Break time will continue to be held with or without coffee.

Tom W9IPR would like to offer instructions for members interested in upgrading to a General Class License.

The AES picnic will be August 13, 2005

The meeting was adjourned at 8:55 p.m.

AGENDA

August 10th, 2005

1. Call to order – Tom (W9IPR)
 2. Introductions.
 3. Announcements, Bragging Rights, Show & Tell, Upcoming events, Etc.,
 4. Program:
 5. Fellowship Break
 6. Auction.
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 9. Repeater report – Nels (WA9JOB)
-
10. OZARES report – Jon (KB9RHZ).
 11. Committee reports.
 - Membership –
 - Public Relations –
 - Youth Program –
 - Corn Roast –
 - Field Day -
 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 7th Avenue, Grafton

Wednesday, August 10th

7:30 PM



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Callsign W9CQO

Web site:

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Volume XXIV

September 2005

Number 9

The Prez Sez

By Tom Ruhlmann (W9IPR)

What fun it was, the corn-roast. I hope you were there as we all had a great time. Indeed, it was the highlight of my ORC month. Other than the corn-roast it was a pretty quiet ham radio month.



While Dick (K9CAN) and I discussed the finer points of his phased verticals, Gary (W9XT) and Ed (AA9WW) joked about the deficient fire I had tended to boil the corn and melt the can of butter. Oh well, it was worth the wait – the corn was delicious

I recently obtained a used Butternut vertical antenna. After I refurbished it and tuned it for each of the 9 bands I used it to replace my 40 year old 5 band HyGain 18AVT. I am very pleased with the results and look forward to some interesting DX.

I spent most of my free time this month working on a training program for those interested in up-

grading from Technician to General Class. The program is entirely in Power Point and covers all 10 chapters of the ARRL "General Class License Manual". We should be able to cover all the material in 5 sessions with a 6th being set aside for review and testing. We are taking the approach of teaching the supporting material rather than just the Q & A sessions. In that way, you should have a real understanding of some of the technical aspects of ham radio and HF and as a result be able to confidently answer the FCC questions required to earn your HF privileges. I am looking forward to starting the program in late October. If you are interested in earning your HF privileges, setting in as a review or teaching some of the sessions just give me a call.

Certainly, Katrina, Biloxi and New Orleans have been on everyone's mind these past several days. It and the Stoughton tornado's make one realize that a disaster could happen in Ozaukee county also – one never knows but perhaps we could be better prepared. Are we prepared personally and organizationally deal with a local disaster? I have spent some time listening to the Louisiana emergency HF frequencies of 3.873, 3.935, 7.235, 7.285 and the Salvation Army frequency of 7.265 MHz and while I could occasionally copy them it appears that most of the activity must have been on VHF & UHF for local coordination. I noticed just today that the ARRL is now taking names for volunteering in the devastated areas using UHF/VHF communications. A friend of mine in the "old timers" softball league is a Red Cross volunteer and he indicated they were taking volunteers if you are interested. Now that some of the refugees are coming to the Milwaukee area, I am sure that presents another opportunity to volunteer.

I guess that was about it for me and the month of August for ham radio. Why not take advantage of the month of September to volunteer to help on an ORC project - how about working on the membership committee, the '06 swapfest or the Post Everything Party for January – and there are always opportunities as the training coordinator or as an editor on the newsletter – wada-u say, get involved and have some fun.

Contesting

De Bob Truscott (W9LO)

The fall contest season is just around the corner and September offers a number of interesting contests as a warm up for it. CW, SSB, RTTY, VHF, DX----they're all available this month. Give it a shot in your favorite operating mode:

Sept. 11 (Sept.10–7:00 PM, local time.) North American Sprint-CW. Rules in Feb. QST, page 102.

Sept. 10-12 ARRL Sept. VHF QSO Party. Rules in Aug. QST, page 90.

Sept. 18 (Sept. 17-7:00 PM, local time.) North American Sprint-SSB. Rules in Feb. QST, page 102.

Sept. 17-18 QCWA Fall QSO Party (Phone, CW, Digital) Rules in Sept. QST, page 99.

Sept. 24-25 CQ Worldwide RTTY DX Contest. Rules in Sept. QST, page 99.

Have fun contesting. Bob, W9LO

High-Tech Test Gear

De Roger Zaun (W9UVV)

Several months ago at an ORC meeting our intrepid auctioneer, Dr. Stan, was wrapping up his sales effort for the evening when he picked up the last item from the auction table and announced "This is an Absorption Wave Meter". Immediately comments were heard from the membership –"It's a what?" "It measures waves like water or ocean waves?" followed by much laughter, etc. "No guys, it measures frequency. It's actually an Absorption Frequency Meter."

More laughter and comments –"It absorbs frequencies?" "Where do they go?" "Hey guys, its test equipment. What am I bid?" Big silence – "How about a dollar? No? If not, it goes in the dumpster."

I finally offered a dollar. Why? Out of nostalgia I guess as I used this same item in the 1930's. This Absorption Frequency Meter consists of a variable condenser, plug-in coil and an indicator lamp all connected together to form a parallel resonant tuned circuit. These components are mounted on a small panel. The front bearing a number of concentric scales marked in megacycles, covering a range from 1.6 to over 400 MHz by means of seven plug-in coils. When this type of frequency meter" coil is inductively coupled, for example, to a transmitter final tank coil. It will absorb a small amount of its energy. When the meter is tuned to resonate with the transmitter frequency. A maximum of absorbed energy (current) will flow—brightly lighting the lamp, and the meter scale pointer then would indicate the unknown frequency. Hence the name Absorption Frequency Meter.

This relatively simple unit was a very essential piece of amateur radio gear in the 1930's and beyond. Some of the practical applications are as follows:



The McMurdo Silver Model 903 Absorption Wave Meter and 4 of the 6 coils used to indicate the frequency of the monitored RF field

Determine if a transmitter frequency multiplier stage is tuned to the correct harmonic frequency (doubler, tripler, etc.)

Adjust for neutralization of RF amplifier stage.

Tracing parasitic oscillations in amplifier output.

To make certain that a variable frequency oscillator's (VFO) output. Or harmonic is within amateur band limits.

To check a receiver oscillator circuits frequency, oscillation would stop when the inductively coupled meter is tuned to resonance.

Early in my amateur radio activities I found a need for this meter.

We were three newly minted amateurs, all students at Washington High School in Milwaukee: hanging out together linked by our common interest in radio. After a period of HF band operations, we decided to explore the sparsely populated five-meter band, 56 to 60 MHz. Very little commercial ham gear existed for this band and prices were beyond our means, so our equipment would have to be "home brew".

We proceeded to build relatively simple super regenerative receivers and self excited modulated oscillators in accordance with construction information in the ARRK Radio Amateur's Handbook. We scrounged for components and materials, and with a few false starts we built the rigs and got them operational. Wherever possible we used the parts specified, but a nagging another station transmitting, we figured this must be five meters, and we would all immediately tune our rigs to near his frequency (safety in numbers, we hoped). We operated in this manner for a period – our justification being the band is a big 4 MHz. Wide. It's empty; we're not interfering with any one. The Radio Inspector's office is in Chicago. Our signal range is limited and there is little possibility of monitoring our operations.

After a while we became a bit uneasy with this carefree method of operation. We reasoned after all, as licensed amateurs we were required by the Radio Communications laws "to take all necessary means to insure that operations are within the limits of existing amateur bands". To try and comply, our search found little commercial VHF frequency measuring equipment prices suitable for the amateur radio operator. However, we did become aware of a low cost Ab-

sorption Frequency Meter manufactured by the McMurdo Silver Co., Model 903 that could serve our needs. We pooled our weekly allowances and some lunch moneys and got off our order for a Model 903 to Newark Electric in Chicago.

In due time the meter arrived and a review of the instructions indicated it could perform the aforementioned measurements; however, it did caution that its calibration was +/- 10% and the meter should not depend upon making precise frequency measurements. This didn't deter us, so we agreed to use the meter to set our rigs to approximately the center of the five meter band: thus leaving a 2 MHz band either side of our transmitting frequency – greatly reducing any chance of out-of-band operation, and thus meeting our licensing requirements.

We continued operating VHF, enjoying local ragchews, building better gear, antennas and gaining one heck of a lot of experience and knowledge. Guys, this was the best we had to work with! This was high-tech amateur radio test equipment during the so-called golden days of amateur radio.

Are you ready?

De: Tom (W9IPR)

With the tornado in Stoughton and now with Katrina I wondered if we might be called upon to provide any emergency communications. For the most part I reasoned, the requirement would be for 2 meters and 70 cm HT to provide local coordination of efforts. Then I thought about what I would take if called where the stuff was located and what I would put it in. That's when I remembered a hard-side briefcase I had in 70's or 80's.

Once I found it I realized it would contain and protect my HT's etc. but they could get damaged just bouncing around in the case. That's when I decided to determine exactly what I would take and to compartmentalize the case to hold exactly those items.

The picture following shows how the case was divided to securely hold 3 HT's, 3 chargers, 3 antenna, 2 speaker-mic's and a power strip. So

much for the amateur radio VHF/UHF communications equipment.



The case was divided into compartments with wood dividers glued and stapled into the case.

The dividers were glued in place with gorilla glue and then stapled to the case using a pneumatic power stapler.



The case also provides for storage of the essential information in the event of an emergency as well as personal identification

This picture shows some of the other items I now store in this communications grab bag. While the cell phone is normally in my pocket it is a good item to have along if possible, especially if it can relay pictures. The more typical items stored in my case are a map of Ozaukee County, tablets, ARRL message pad, pens and

pencils, log book, 2005 ORC roster, list of ARES and local net frequencies, list of government agency phone numbers, list of net procedures, known emergency plans (e.g. St. Mary's Hospital), flashlight and ORC and ARES identification. Well anyway, you get the picture. Think about it ahead of time, when there is no emergency, and keep all the essentials in a specific place, like a brief case, so you know at a glance if anything is missing.

Now to create a portable HF/VHF station for emergency service and which is not reliant on commercial power.

Tips,Tails & Tools

Do not use RED insulated wire for antenna if you want them to be "stealth". Red wire shows up in the sun. Naturally, it all started when I got a good deal on some #14 stranded with red insulation. It is the only antenna about which the spouse has commented - and it wasn't good.

Cornroast 2005

It was a great time with about 40 or so attending. The weather was great and the company entertaining.



Cindy (KA9PZG) and Ted (KB9RLI) kept the grill simmering as members lined up for firsts.

One of the highlights of the afternoon was the “fox” (hidden transmitter) hunt. Leon (K9GCF) supplied the transmitter in a black gallon paint can and Mohammed (KC9CPC) skillfully hid it in the woods.



It may look like Ted “smoked” the brat’s and burgers but they still lined up for seconds

During the hunt Leon (K9GCF), Mike (KC9GDV) and Tom (W9IPR) kept “zeroing in” on a particular area of the woods but the “fox” was eventually found by John (KB9PZL) who was following along without a receiver. Oh well, I guess there is more to a foxhunt than just an “S” meter.



It looks like Leon (K9GCF) and Ed (AA9WW) were up to no good and perhaps plotting someone’s demise.

Another program of the afternoon was a discussion group related to communications above 50

MHz and the various contests on VHF and UHF. The group was hosted by Todd Sprinkmann (KC9BQA) and he brought along his logbook to prove the potential of 2 meters SSB and the 6-meter magic band. Todd has one of the more significant VHF/UHF contest stations in the State and has much to share about these activities. During the discussion Gary (W9XT) mentioned he had made his first moon bounce contact and it was with a station in Russia. That 2-meter SSB sounds like fun. I would like to hear more about it.



Many spent the afternoon just visiting as did Ed (AA9GT) and his wife Marjorie and Nancy Gilmore

For Sale, Trade or ?

KLM 20M5 5 element 20m 42' boom \$300
 KLM 15M4 4 element 15m 14' boom \$125
 KLM 10M4 4 element 10m 10' boom \$125
 Each in excellent condition with heavy duty 4KW balun and manuals
 Alpha-Delta DX-B sloper. 160, 80, 40 & 30m coverage. Only 60' long. New \$80 – asking \$40
 Yaesu FT-5100 2m/440 FM \$150
 Call Fred 262-376-5388. N9FH@ARRL.NET

Upcoming Events

September

- 10th ARRL VHF QSO Party
- 14th Membership Meeting
- 18th Wisconsin Bike Ride

17th - W9DXCC convention at Elk Grove Village IL

17-18 Grayslake Chicago FM Repeater Club-Hamfest

10 – 11 North American Sprint – CW Contest

17 – 18 North American Sprint – SSB Contest

24 – 25 CQ WW RTTY Contest

October

12th Membership Meeting

8th General Class Training Class Starts

Club Static

The 10-meter link is now active on the ORC's 224.18 repeater. Those of you with 10-meter FM privileges and capability can now take part in the activity on 224.18. The repeater "repeats" everything heard on 29.600 MHz FM, including DX. By the same token, all activity on 224.18 goes out on 29.600 FM. Give it a try. Thanks to Dick, K9CAN, and Ted, N9LLT, for getting this system back on the air. 73 de Jim K9QLP



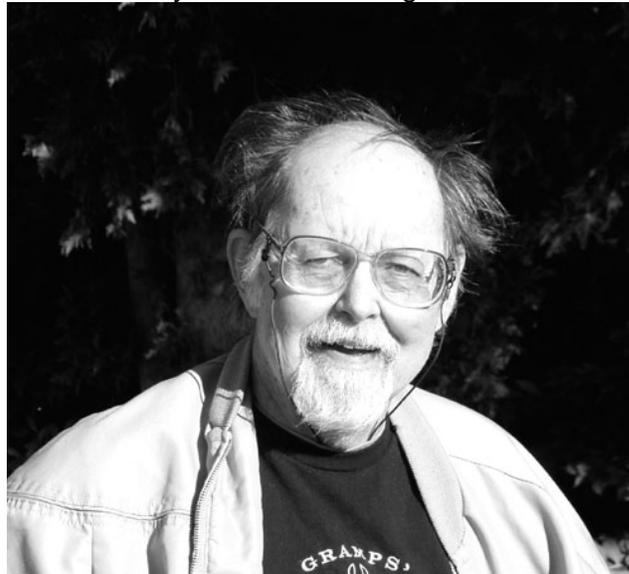
We had company at the July meeting. Shown here on the left is Leon Hance (W4YFZ) and his wife Bess (KC4DG) on the far right who were in town visiting Ray (W9BUJ) and his wife Irene

Gary Sutcliffe (W9XT) made his first "moon bounce" contact. It was with a Russian station. Sounds like the topic would make an interesting meeting program.

Just Another Shack

De Steve Stevens (K9DXT)

Tom Oehler (W9LNL) has been interested in radio since high school but got his real introduction to radio when he served as a Navy Radioman on the aircraft carrier Coral Sea. Tom served in the U.S. Navy from 1944 through 1952.



Upon leaving the Navy he started work at the Milwaukee Journal as a pressman where he continued for the next 40 years.

It was in 1969 that "ham" bug bit Tom and he got his Novice license followed by his General Class license in 1970. He joined the ORC in 1977 and currently holds his Extra Class license.

Tom operates out of three locations – his home in Mequon, his cabin "up North" near Wildrose and Waupaca and from his car. He operates a couple of TS440's and an ICOM 706. While he runs mostly dipoles he has a very unique 40 antenna on the car.

It is a roof magnetic mount 40-meter Hustler with only a 6" lower section. While short, Tom says it really gets out pretty well and is easily installed or removed as the need to operate strikes him. Although not a contester or awards chaser Tom does enjoy HF and working DX. Due to the orientation of his dipoles most of his contacts are in Europe and the Caribbean. Among his favorite equipment are a vintage HT-33 transmitter and some of the Heathkits he has built over the years. When recalling some of his favorite con-

tacts the more surprising was with Walter Cronkite a few years ago.



Tom is shown here with a unique approach to 40 meters mobil. The antenna is the loading coil and upper section of a 40-meter hustler antenna secured to the car with a magnetic mount. He claims it works good but I can't help but wonder about the SWR

Tom has really enjoyed ham radio and the ORC since retiring and commented how he enjoyed the company of the ORC group. He noted that for a retiree "ham radio is a great way to get out of the house and travel the world without really leaving home"

Alternatives

De Stan Kaplan (WB9RQR)

I am a believer in alternatives, especially in the computing world, and there are a number of them out there that many may not be aware of, so it is time to devote one column to them.

First, just about everyone is familiar with Adobe Acrobat Reader (the latest version being 6.0), which is a program that you can install to read documents with a .pdf ("portable document format") extension. Adobe provides the reader as a free download

(www.adobe.com/products/acrobat/readstep2.html). Many organizations make their documents available in the .pdf format (including most US Government agencies). Documents in this format are not easily modified from the original, and they represent closely the format and "feel" of the original. The Adobe program that creates .pdf files from, for example, Microsoft Word documents, is quite expensive -over \$200. What you may not know is that there are a number of free programs out there that will also create .pdf files. One free one can be found at <http://www.pdf995.com/>. A bit of advertising comes with it which shows each time it is used, but you can get a version without the advertising for \$19.95. There are other free programs out there, too, without any embedded advertising. Let your cursor do the walking through a Google search page.

Now, for a really big alternative. Linux. Linux is a free Windows alternative that you can simply download and install. Why Linux? It is much more stable than any Windows version, which is why the majority of large US firms will have Linux installed as their main operating system for servers AND workstations by 2007. There are stories of Linux-based servers being booted up and running for several years without crashing. That kind of stability is what business demands, and we home users should demand it, too. All current versions of Linux come with a Windows-like Graphical User Interface, presenting a desktop that looks and works very much like a Windows desktop. You'll feel right at home when it first appears. Also, the latest Linux versions sport an impressive database of hardware drivers, so you should have little trouble getting your CD or DVD or sound card or video card or whatever, to work when you install the operating system. The two versions I will mention also support a dual-boot (and make installation a snap), so you can keep your Windows and choose which operating system you want to use at boot time.

I am familiar with two companies that bundle the Linux operating system and installation programs on CD-ROM's, and charge a fee for that bundling/CD service. Both are excellent versions of Linux. One is SuSe Linux (SuSe is a German firm), and its product now resides on one of my machines in a dual-boot configuration. That is, at boot up, I can choose for Linux to be booted, or Windows 98se. I find it very interesting that if I

boot Windows, it cannot see any of the Linux files on the hard drive, while if I boot Linux, it can see all its own files AND all of the Windows 98se files. I can even open a Microsoft Word file with SuSe Linux, edit it, then save the edited copy as a Word file! SuSe Linux is very good, and, of course, it comes in an English version. Version 9 is the latest and greatest, at this writing.

Red Hat Linux is the other brand - I have installed it on a couple of machines. Its look and feel are really very Windows-like, and I like the clean lines of the Desktop a bit better than SuSe. Version 9 is the latest, and you can download it at <http://www.linuxiso.org/distro.php?distro=7>. Alternatively, I purchased for \$16.95 (including shipping!) a 9-CD set that included Red Hat 9, all the source code, all the documentation, a Rescue CD and a copy of OpenOffice (reviewed next) from <http://www.freepctech.com>. Check them out for a similar deal.

Now let me tell you about OpenOffice! This suite is free, free, free (you can download it from <http://www.openoffice.org>. It is a true suite, because it comes with a series of programs that are very similar to those in Microsoft Office. I am writing this article in it now (!), and one could not tell that the application is not Microsoft Word without looking at the toolbars very closely. Yes, you can create, edit and save documents in the Word format with it, which is what I am doing right now. OpenOffice also comes with programs that are similar to Microsoft PowerPoint and Excel, with a drawing program thrown in. What I am reporting to you here is that you need not spend hundreds of dollars for Microsoft Office - OpenOffice will give you the same functionality, plus the ability to handle Microsoft files as well. Truly, there are alternatives! Happy computing.

(This article was reprinted in its entirety from the Badger State Smoke Signal newspaper)

Minutes—August 10th, 2005

De Nancy Stecker, KC9FZK

Ozaukee Radio Club

Regular Meeting August 10, 2005

Meeting called to order at 7:30 PM by President Tom W9IPR.

Introductions: Name and call sign were given by all present. Several visitors were present (see the attendance list at the end of these minutes).

Bragging rights: Gary W9XT demonstrated a method to connect PL-259s to aluminum clad 75-ohm hard line.

Jim K9QLP talked about ways of getting young people involved with the hobby through contacting teachers at local schools, as is done at his old school in Cincinnati.

Tom W9IPR announced he has 104 confirmed QSL cards from different countries. He also reported that a few people stopped by to look at the ORC exhibit at this year's Ozaukee County Fair.

A donated, 40-foot antenna was taken down in Glendale during the hot afternoon of August 9. Upcoming events in August include the AES Picnic in Fond du Lac on August 13 and the ORC Corn Roast on August 27. Some September events will be the Wisconsin Bike Ride on the 18th and Grayslake Hamfest in Chicago on the 17th and 18th. Ed AA9W has a Bearcat Tracker 2 scanner for sale.

Program: VRLA Battery Manufacturing, Lead Acid Batteries for Portable and Standby Power Applications. As a past employee of Globe Union/Johnson Controls/C&D Technologies, Tom W9IPR gave an informative slide show on lead vented and non-vented acid batteries, from the manufacturing process to the do's and don'ts of battery handling.

Fellowship Break:

Auction: by Stan WB9RQR.

Business Meeting: Minutes were accepted as printed in the ORC Newsletter. The Treasurer's report was accepted as printed on handouts on the tables.

Repeater Report: Nels WA9JOB e-mailed his report from out of state. Read by the President, the 146.97 repeater is operating well, the Mequon receiver is on the air at the Harvey resi-

dence and the 224.18 repeater is operating at Dick K9CAN's home.

OZARES: Jon KB9RHZ announced that the August 25 meeting of OZARES would be a Highway Watch program presented by Skip Sharpe W9REL, Assistant Section Emergency Coordinator for Training. Volunteers are needed for a September 18 Bike Ride. CERT Training classes have been canceled due to lack of interest. These classes teach the public how to react during times of emergency. The 20-hour session will be rescheduled.

Committee Reports:

Public Relations: QST Magazines with our labels are being seen in various locations. Mark KC9GST had his picture in the August 2005 issue of QST showing a copy of the magazine with one of our labels.

Scholarship: Ed AA9W announced the scholarship fund total is \$13,600 with an additional \$160 added to that amount this evening. The fund is close to being self-sufficient. When that happens, further proceeds will then go into the general fund.

Corn Roast: Ed AA9WW will be calling on members for additional help for the corn roast being held at the pavilion in Waubedonia Park August 27th. Bring a dish to pass and plan to eat at noon. Leon K9GCF will organize a foxhunt. Other entertainment is planned.

Field Day: Leon K9GCF said that, at a recent post-Field Day meeting, safety was a top priority. Suggestions for tower and antenna improvements were also made. The committee recommends a safety officer and a tent officer be assigned to supervise conditions, as well as needing more manpower during set up. Electrical power needs to be supplied differently. And poison ivy has to be eliminated. A date will be set up to meet again.

Old Business: Dave N9UNR asked the board to reconsider his request for a small supply of GOTA Pins and extra Field Day Pins to be handed out to visitors and press at next year's Field Day. It will be discussed at the September meeting.

Gabe WI9GC will gather information and price for hats, shirts and jackets with the ORC logo silk-screened on them. He visited the Sullivan Weather Forecast Office in Dousman and said it was a great place to tour.

New Business: A proposed two-year budget had been placed on tables by the treasurer for the membership to review. There being no discussion the chair entertained a motion to approve the budget, Greg W9DHI made the motion, Don W9VSC seconded it and the motion passed.

Attendance: KC9GST, W9LNL, W9BCK, W9BUJ, W9KHH, WA9UVK, W9UVV, WI9GC, KA9RFM, AA9WW, K9GCF, KC9GDV, KC9CBC, KC9FZK, KC9GSS, AA9HR, KB9VJP, K9QLP, W9VSC, KB9WBQ, AA9XK, WB9PZD, KA9PZG, N9LLT, N9UNF, WB9RQR, KC9CPC, W9DHI, W9XI and guests Irene Brunette, Leon Hance W4YFZ and Bessie Hance KC4DSG.

Meeting adjourned at 9:30 P.M.
Nancy KC9FZK Secretary

AGENDA

September 14th, 2005

1. Call to order – Tom (W9IPR)
2. Introductions.
3. Announcements, Bragging Rights, Show & Tell, Upcoming events, Etc.,
4. Program: Railroads & Communications
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 –
Corn Roast –
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, September 14th

7:30 PM



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 XXIV

October 2005

Number 10

The Prez Sez

De Tom Ruhlmann (W9IPR))

Were it not for the Chicago FM Repeater Club swapfest at Grays Lake and the 50th anniversary of my High School graduating class it would have been a pretty tame month.

Ed Rate (AA9W) and I had a great time at the Grays Lake swapfest marketing the balance of much accumulated "club stuff" for the benefit of the scholarship fund. I drove in early Saturday morning and there was no additional fee for selling in the outdoor areas. Naturally, I set up shop in the great outdoors in the radiance of the sun.

We sold many pounds of iron, an antique radio and a variety of components among other items. In total it all added up to about \$253 net for the scholarship fund. Not a bad couple of days since we also got to spend time snooping around and reminiscing about past transmitters and contacts etc.

While the selling was fun, I just couldn't pass up an AZ/EL rotor that seemed to be a good buy and would work well for a satellite antenna. Now to find or build an antenna.

Prior to going to Grays Lake, I dropped by Mark Potash's home to see the tilt over stand he made for verticals and the 35 ft. portable tower of PVC pipe he designed for field day use - Really interesting and useful projects and now he is designing version #2.

The September meeting was great with an interesting program about radio communications on the railroads by Mike Yuhas and a video of Mark and Naomi Potash erecting his newly designed 35-ft field day tower.

Mike's railroad presentation was of special personal interest in that in '58 - '60 I worked as a switchman / breakman on the Missouri Pacific railroad in Atchison Kansas. That's how I earned the bulk of my collage money. In a sense, the railroad was responsible for my engineering career - pun intended.

Another interesting "ham" event was on Oct. 1 - the OZARES simulated emergency test. A number of the ORC members were involved and it was an opportunity to use the ARRL message format, check into district traffic nets and get a feel of how we might be assigned should a real emergency occur.

I was really pleased with the announcement of Travis Waack as the recipient of our \$1000 scholarship. After reading his resume I was really impressed with his academic performance and his involvement in amateur radio and public service. We can all be proud of Travis from Manitowoc and pleased to know our scholarship fund is assisting students with high aspirations.

What's coming up this month? JOTA. JOTA (Jamboree On The Air) is a program for Boy and Girl Scouts interested in radio communications. For the past several years the LAFROG group has hosted miniature field day in support of the scouts, to get them on the air, at Ledge Park in Horicon. I have been there a couple of times and they really do a great job of presenting amateur radio. Perhaps you might find it interesting to attend and get to know the project. Makes me wonder if we should sponsor a similar program in the Cedarburg / Grafton area.

Winter is fast approaching so it's time to get those antenna supplies together. My objective this year is a 160/80-meter receiving antenna and to extend my double length G5RV to a full

size center fed Zepp on 160. I would like to get started but the weather is still pretty nice.

That's about it for now. Get involved and have some fun.

Tom, W9IPR

NOVEMBER SWEEPSTAKES

De Bob Truscott (W9LO)

A number of years ago the SMC (Society of Midwest Contesters) was formed by a group of hams in Illinois for the purpose of competing for the overall November SS championship in the Unlimited category. As I understood it at the time, the perennial winner was the NCCC (Northern California Contest Club), and the SMC folks thought it would be a good idea to challenge them. Headed up by K9PG, the SMC conducted a huge recruiting campaign to bring more Midwest operators into the group, with the hope of dethroning the NCCC guys and bringing some contesting glory to the area. I, among many others, joined the club at that time and the effort was successful. The SMC won the championship, I believe, two years in a row. However, the NCCC has now reclaimed the crown, and the SMC is in need of a strong effort and an influx of new members if they are to dethrone those California people again.

Please consider this your invitation to join the SMC, and help bring the championship back to the Midwest where it belongs. There are no mandatory dues. You need only to list "Society of Midwest Contesters" as your club on your SS log entry. File your logs electronically or on paper—either is acceptable. Call me if you have a problem, and I'll help you file. We're not looking for "super stars", just operators who can contribute 50, 100, 200, or??? contacts in either or both modes. If enough of you pitch in we can bring the championship back home. See October QST, page 105 for the rules. CW—Nov. 5-7 & SSB—Nov. 19-21.

Upcoming Contests:

Oct. 8---FISTS Fall Sprint—CW—Rules in Oct.

QST, page 100

Oct. 9---North American RTTY Sprint-----Rules in Oct. QST, page 100

Oct. 16-17—Illinois QSO Party—CW/SSB—Rules in Oct. QST, page 100

Oct. 29-30—CQ Worldwide DX Contest—SSB—Rules in Oct. QST, page 101

Oct. 30---Annual Fists Coast to Coast Contest—CW—Rules in Oct. QST, page 101

Nov. 5-7--ARRL November Sweepstakes—CW—Rules in Oct. QST, page 105

Have fun contesting. Bob, W9LO

JOTA –

De Mike Yuhas, KC9GDV

Jamboree On The Air. The third weekend of October every year is JOTA -- a worldwide amateur radio event bringing together Boy Scouts, Girl Scouts, and hams for fun and education! Locally, LEFROG (Local Emergency Field Radio Operating Group) sets up an encampment at Ledge Park in Horicon. Scouts from around the area drop in to learn about radio, have an opportunity to chat with other Scouts around the globe, and earn credit toward advancement. The LEFROG people set up a very impressive operation with amateurs on different bands in several tents. Ledge Park is located just north of Highway 33, east of Horicon, in Dodge County. For more info, see this page on the ARRL web site: <http://www.arrl.org/FandES/ead/jota.html>

Railroad Net on 442.100

De Mike Yuhas, KC9GDV

With the blessings of repeater owner Jim Albrinck K9QLP, there's now a railroad net on 442.100 MHz. It started as an experiment a couple weeks ago for people with an interest in railroads to sit back and ragchew for a while. Anyone who'd like to talk trains is welcome to check in Monday evenings at 8:00 PM. Jim's 70-centimeter repeater is located in Cedarburg.

Grayslake 2006

The Chicago FM Repeater Group's swapfest at Grayslake was fun but a bit smaller this year. It is still on the weekend competing with the Peoria swapfest and the nearby W9DXCC convention. However, it appears the fairgrounds have been sold to a developer of shopping centers and the swapfest will be moved next year. Hopefully it will move to a different weekend also.



The commercial vendors were inside the fair building and with a variety of new components and systems. They came from as far as St. Joseph MO. as noted by the WB0W banner in the background.



For the most part the "HAM" vendors were outside selling from the trunk of their vehicles.



Ed (AA9W) and Tom (W9IPR) set up on the ground beneath the sun and enticed the passer by's to inspect the offerings of the ORC and make a purchase contributing to the ORC scholarship fund.



If Ed and Tom of the ORC didn't have it the guy across the isle did – if he could only find it in there.

WHY AM I HERE?

(OR, MORE PROPERLY, HOW DID I GET HERE?)
de Bob Truscott, W9LO

Several months ago Prez Tom asked individuals to submit articles telling the story of how they became hams. Here's mine.

I am a ham today because I wanted to be a military pilot, but never made it.

I was a high school freshman when the Japanese bombed Pearl Harbor on Dec. 7, 1941 to bring America into WW II. From that day on, I and all of my buddies wanted nothing more than to get into the service and help fight the war. That was impossible, of course, so we did the next best thing, which was to do everything we could to prepare ourselves for the day when we could "join up". We each had our favorite branch—Some chose the Marines or the Navy because they could enlist at age 17 (or 16 if they lied a little bit), others chose the Infantry for the same reason. I chose the Army Air Corps (the predecessor of the Army Air Forces and later the U.S. Air Force), because I had decided at about age 8 that I wanted to be an Air Corps pilot. With that in mind I worked every night after school and on Saturdays to earn enough money to go to the local airport on Sunday and take a 1 hour flying lesson. I figured this would give me a head start on the other guys who had the same goal. While this was going on I joined the local Civil Air Patrol Cadet Program, whose mission was to prepare kids for a future in the Air Corps.

The training we got as cadets included 2 weeks each summer at the Sioux City (Iowa) air base, where we had the opportunity get some gunnery practice, using the waist guns of B-17 bombers, and "fly" the Link trainers to simulated instrument flying. This was a really great experience for 16 & 17 year old guys, and it made us all the more anxious to get into the service. As it turned out, the most important training we received in the C.A.P. was not at the air base, but at our weekly squadron meetings back home, where we were taught Morse code by a local ham.

A week after my 17th birthday I enlisted in the Army Air Forces Aviation Cadet Program, with the expectation of getting into flight training as soon as I graduated from high school. This never happened, because the war ended on my 18th birthday and all flight training ended immediately. However, I was called to active duty anyway and sent away to basic training, after which I took a bunch of aptitude tests and was classified as a radio operator because I knew Morse. Radio school followed, during which we practiced code for about 8 hours each day, until we either passed the 25-wpm test or washed out of the course. Some lost a bit of their sanity before washing out, and others had a great time. I loved it, and did well (30 wpm).

After being discharged from the Army, I decided to follow up on the training that I had received, and looked for a school that trained radio operators for airlines. (Overseas airlines still used CW at that time.) I chose one in Kansas City that also offered radio and TV broadcast engineering

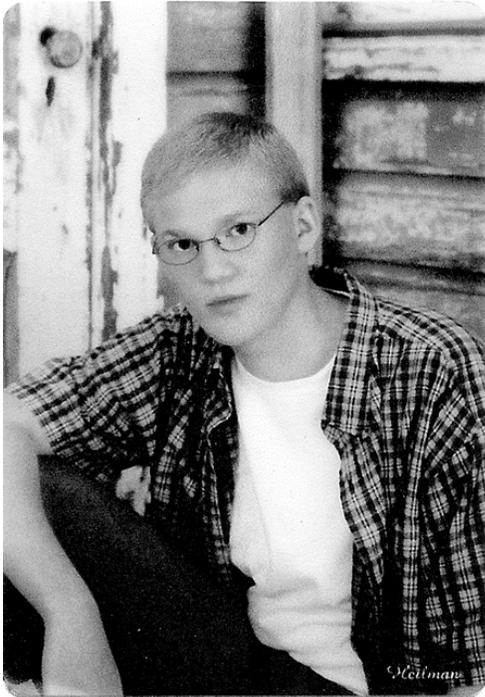
training. (Well, they didn't really do much TV training because TV was too new, and nobody knew enough about it to teach it.) It was there that I met several hams that had the same goal that I did, and after visiting their shacks I took the test. I passed, and received my Class B Operators License and Station License (They were separate licenses at that time.), with W0EJA as my assigned call on 10-31-47. The call was changed to W9NYJ when we moved to Chicago, and was changed back to W0EJA when we moved to Omaha, etc., etc. as we moved around the country, and finally stabilized as W9LO when incentive licensing was born and I was motivated to get my extra class license in 1973. I like to think that failure to realize my dream of being a military pilot was fortuitous because it put me on the path to where I am today, and I'm very happy about that. I wouldn't change a thing. Besides that, I probably would have crashed and burned if I'd had my way at the time.

Bob, W9LO

KB9YRC RECIPIENT OF ORC SCHOLARSHIP

De Stan Kaplan, WB9RQR, ORC Scholarship Committee

Young Travis Waack (KB9YRC) was the recipient of the 2005 ORC scholarship, administered for us by the Foundation for Amateur Radio (FAR).



Travis Waack (KB9YRC) of Manitowoc is the 2005 recipient of the ORC \$1000 scholarship

Travis hails from Manitowoc. He was first licensed in 2001 and became an active member of both the MANCORAD Club in Manitowoc County and Manitowoc County ARES/RACES. Since that time, he has become Assistant Emergency Coordinator (ARES) and Assistant Radio Officer (RACES). He also became a member of the local Red Cross Disaster Action team, and Coordinator of the county SKYWARN unit. Indeed, his activity with the SKYWARN unit spurred his interest in meteorology, and he plans to major in Atmospheric Science at Northland College (Ashland, WI) this fall. So, Travis has been tracked into a possible career in meteorology through his activities in Amateur Ra-

dio! Wonderful! We all wish him the best in his future endeavors.

2006 ORC Swapfest

The committee for the 2006 ORC Swapmeet met Oct. 5th at Mike Matthies (WJ9O) photo studio to discuss the format and details of the swapmeet to be held May 7th 2006 at Circle B. There was much lively discussion ranging from tickets to promotion and it looks like it will be another great event. There was even discussion of a second outdoor swapmeet in late summer.



Members of the 2006 ORC Swapmeet committee are Kent (N9WH), Bernie (AA9CI), Ray (W9KHH), Mike (WJ9O), Ron (W9BCK), Gene (KB9VJP) and Chairman Ray (W9BUJ). Dave (N9UNR) is also on the committee but had a conflicting county board meeting at the time of the Swapmeet meeting.

Project of the Month

I got a call from Mark Potash (KC9GST) and he told me about his new portable tower. I went over to see it and was I impressed. It is easy up and easy down and stable in a windstorm. Looks like a great idea for field day application.



This is Mark's (KC9GST) newly designed 35 ft. Portable mast made of PVC pipe, a special surface mounting plate, 4 radial support pipes and guy ropes.

You get no respect

The Following article appeared in a recent edition of the Cincinnati Inquirer. Joe Phillips is a retired schoolteacher and has served as Ohio Section Manager for the ARRL. Submitted by Jim Albrinck, K9QLP.

Ham Radio Gets Renewed Respect

By Joe Phillips

It's like the feeling you get living in the world of black tuxedo and you are a pair of brown shoes.

You may look nice, feel shined and ready to go--but you just don't fit in to what's happening. You get no respect. But it took an American disaster, and now we are featured in the Wall Street Journal and New York Times. National TV mentions us regularly.

As a lifelong amateur radio (ham radio) operator, I'm tired of constantly being told my hobby was no longer useful to computers, the Internet and cell phones. Old fashioned and useless, was the line. Again no respect.

Then earlier this year, amateur radio made a minor comeback in usefulness to the world. The Asian tsunami wiped out power and all communications for thousands of Pacific Ocean Islands and most of Sri Lanka. Amateur Radio Operators with portable generators for power, were the only communications networks for weeks. The only thing in town to link the outside world for tens of thousands stranded victims. No cell phones, no Internet, no GPS satellites. No fancy techno toys. If it needed commercial power, it didn't work.

Only hams had the equipment that could operate on generators and the established frequency networks so other ham radio operators across earth were listening and took messages.

But the ham radio angle was generally ignored here. Most of the operators involved were European, Asian, and African amateurs. CNN International did a 15-minute report--the United

States was the only CNN-affiliated country not to run it.

Then Katrina happened.

Suddenly the "brown shoes" of our American culture became the only communications vehicle that worked in New Orleans. Just like the tsunami, if it needed commercial power (cell phone networks, computer terminals, etc.), it didn't work.

The Wall Street Journal ran a pro-ham radio piece story that mainly echoed our current battle cry: "What is working? Ham Radio." Two days later, the New York Times did the same. Reports about amateur radio involvement can be found on TV everywhere---even the Home and Garden Network.

It is about time.

It took a major crisis for ham radios continued usefulness to break through to average Americans. It showed them that the fancy techno toys always need a simple practical backup, no matter how advanced these toys become. And it demonstrated how valuable ham radio operators continue to be to our country---no matter how old fashioned we look.

10 METER LINK NOW ACTIVE ON 220 REPEATER

De Jim Albrinck, K9QLP

Thanks to the efforts of Dick, K9CAN, and Ted, N9LLT, the 224.18 ORC 220 repeater now has the 10-meter FM link active again. The link frequency is 29.600 MHz in the 10 meter FM band. You must have a General class or higher to talk in on 29.600, but Novices and higher can use 224.18 and work the DX that periodically appears on 10 meter FM. Talk in on 224.18 and you'll be heard on 29.600. Talk in on 29.600 FM and you'll be heard on 224.18. Here's an opportunity for those who don't want to invest in a 220

rig to still take advantage of this underused club repeater.

Upcoming Events

Oct. 12 – Membership meeting. Program by Ray Brunette about maintaining your lead acid batteries

Nov. 12 – General Class Upgrade Training starts at the Justice Center – Call Tom W9IPR to enroll

Upgrade Training

We have the training room at the Justice Center reserved each Sat morning from Nov 12 through Dec 17 for upgrade training to General. We will have 6 training sessions and cover the 10 chapters in the ARRL General Class License Manual. The manual is available at AES for \$16.95 Students should review and start studying the manual prior to the class sessions.

The class content is in "power point" and will follow the manual and is as follows:

- Nov. 12 - 1-1 Commission Rules 2-1 Operating Procedures
- Nov. 19 - 3-1 Radio-Wave Propagation 4-1 Amateur Radio Practice
- Nov. 26 - 5-1 Electrical Principles 6-1 Circuit Components
- Dec. 3 - 7-1 Practical Circuits 8-1 Signals and Emissions
- Dec. 10 - 9-1 Antennas and Feed Lines 10-1 RF Safety
- Dec. 17 - Review and Testing

If you or a friend are interested in taking the class for the purpose of an upgrade from Technician to General or as a review or if you wish to be an instructor, please contact me at 262-377-6945 or e-mail me at teruhmann@sbcglobal.net

Tom Ruhlmann, W9IPR

Minutes–Sept. 14th 2005

De Nancy Stecker, KC9FZK

The meeting was called to order at 7:32 P.M.

Introductions: Those in attendance gave their name and call sign. A visitor was present (see attendance list at the end of these minutes).

Bragging Rights: TomW9IPR displayed an old briefcase he is using to hold HT emergency equipment. Nels WA9JOB reported that Ed AA9GT has had knee replacement surgery and is doing well.

Jim K9QLP reported on the new 10-meter link to our 220 repeater on 29.600 MHz (FM).

Mark KC9GST explained how he and Naomi KC9GSS made a 30-foot tower using PVC pipe that could be erected in less than 20 minutes.

Tom W9IPR will schedule a series of six classes for those wishing to upgrade to General Class, beginning Saturday November 12, 2005.

Jon KB9RHZ informed the membership of a CERT course to be offered Oct 8 and 9 and again on November 5 and 6, 2005. This course is designed to inform the public how to handle basic emergency situations and learn the critical skills necessary to protect their family and neighbors.

Program: Railroad Radio Communications Today. Mike KC9GDV shared his love of trains with the audience by his interesting and informative talk about how railroads use radio for communication. We heard the actual voices of dispatchers talking to engineers and trains talking to trains using radio frequencies assigned to the railroads. Information can also gathered by sensing devices, which is sent to a dispatch center and the train.

Fellowship Break: During the break, Mark KC9GST was able to run a video showing construction of the tower he and Naomi KC9GSS built. The video also showed its great physical stability during the storm on September 13, 2005.

Auction: by Stan WB9RQR

Business Meeting: The minutes were accepted as printed in the ORC Newsletter. The Treasurer's report was accepted as read by the president.

Committee Reports:

Scholarship Committee: Stan WB9RQR will have an article in the next ORC Newsletter about this year's scholarship winner.

Swapfest Committee: Ray W9BUJ plans to advertise heavily to increase interest and enthusiasm for next year's Swapfest. He would like to use the Dayton Hamfest as a model for ideas to use here. A committee will be working on the plans and will welcome input from club members.

OZARES Report: Jon KB9RHZ has volunteers helping at a Bike For Wisconsin on September 18, 2005. September 22 is the date for the monthly OZARES meeting. A simulated emergency test (SET) will be held October 1, from 9 to 12 noon. Groups of hams have volunteered to help with the hurricane relief. If interested, contact the ARRL.

Repeater Report: The 146.97 MHz repeater was off the air after the September 13 storm because of a problem with the power supply. The 220 repeater is working well and Nels WA9JOB reminds everyone the 440 repeater should be used more often.

Old Business: None

New Business: None

Don W9VSC has 20 feet of water pipe,

Attendance: Nancy KC9FZK, Jon KB9RHZ, Terry KA9RFM, Ed AA9W, Kent N9WH, Don W9VSC, Nels WA9JOB, Jim K9QLP, Bernie AA9CI, Gene KB9VJP, Herb WA9UVK, Will KB9HHR, Leon K9GCF, Mike KC9GDV, Naomi KC9GSS, Carol KC9CBC, Mark KC9GST, Bob W9LO, Ray W9BUJ, Paul KB9WCC, Mark AB9CD, Roger W9UVV, Stan WB9RQR, Tom AA9XK, Julia KB9WBQ, Ted N9LLT and guest Mark Kachel N0OKS.

Meeting adjourned at 9:40 P.M.
Nancy KC9FZK, Secretary

AGENDA

October 12th, 2004

1. Call to order – Tom (W9IPR)
2. Introductions.
3. Announcements, Bragging Rights, Show & Tell, Upcoming events, Etc.,
4. Program: Maintaining your Lead Acid Battery by Ray Brunette (W9BUJ)
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 –
Swapmeet -
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

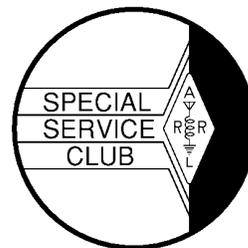
Wednesday, October 12th

7:30 PM



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 XXIV

November 2005

Number 11

The Prez Sez

By Tom Ruhlmann (W9IPR))

With the travel, raking of leaves and flu shot reaction there has not been much time for "hamming" this month. However, I did get my G5RV antenna lengthened to act as a half wave dipole on 160 meters and that will provide some fun this winter. I trimmed it using an MFJ analyzer and was quite surprised at how much I trimmed from the calculated lengths to attain resonance. Must be OK because it seems to work with a low SWR and good signal on 160 and several other bands.

Nels and I went to the Milwaukee Repeater Club swapfest at Waukesha after breakfast on the 29th and had a great time visiting and evaluating all the good stuff. Naturally I found some broken stuff that I needed so now those items will find their way onto my winter schedule or the meeting auction. Actually I was pretty pleased in that I got a 1:1 balun, a 1 to 300 MHz counter and an LCD computer display (less wall wart) and spent less than \$35. I just missed a Drake antenna tuner for \$15 but I was third in line. . You should have been there. It was a good time.

The "05" ORC year is winding down and I am pleased with the results. We have had good meeting programs and auctions and as a result, good attendance. We have also had good participation in our various events and that results from members volunteering to organize and chair them. The membership has shown a genuine interest in making things happen and that is a sign of a healthy organization.

One of our more active standing committees has been that of Public Relations with Naomi

and Mark Potash. We have been a feature story in 4 different papers and appeared on 2 TV stations. In addition, Mark had labels made to place on old ham radio magazines to leave in the offices of the various professionals and barber shops.

For the first time we have created a youth committee and a membership committee – with time these could be the committees that sustain the club.

We again made a great showing at field day and still managed to have a good time – it was again a great club event as were the corn roast and PEP.

Gene again did a great job with the ORC Swapfest so we have operating capital and Ed Rate continues managing the sale of donations to support and grow our scholarship fund. Our financial condition is sound with money in the bank.

We have made a few changes to our by-laws creating term limits and an additional vice president to better assure reduced individual workload and continuance of the organization. For the first time we are now working on an annual budget and have documented such things as to how elections are to be run and the performance of an annual club audit.

I feel it has been a fun and successful year. Thanks to all of you who have made it happen.

BRAGGING RIGHTS

De Bob Truscott (W9LO)

The 2005 Field Day results are in, and OZRAC has again piled up some bragging rights:

Number 1 in the 5A category in the Central Division (9 total entries)

Number 3 in the 5A category nationwide (72 total entries)

Number 12 in all low power transmitter categories nationwide (1,884 total entries)

That's the good news, and it's impressive. Here's the bad news. We had 544 fewer contacts this year than in 2004, and this dropped us from #2 to #3 in our category nationwide. K1R, a new entry in the category, beat us by about 1000 contacts. So we have some work to do if we are to ever take top honors. But it can be done. I challenge the FD committee members to come up with new ideas to make it happen.

The November Sweepstakes CW contest will be history by the time most of you receive the newsletter, but I ask those of you who worked it to mark the Society of Midwest Contesters as your club when you submit your logs, to help bring the SS Unlimited championship back to the Midwest. And please, even you CW people, spend some time in the SSB Sweepstakes on Nov. 19. I will if you will (Naw, I'll do it anyway.)

Coming up in Nov.:

Nov. 5-7 ARRL Nov. Sweepstakes CW—Rules at www.arrl.org/rules/2005/novss.html

Nov. 19-21 ARRL Nov. Sweepstakes SSB—Rules same as above.

Nov. 26-27 CQ World Wide DX Contest—CW—Rules in Oct. QST, page 101

Have fun contesting.

Bob, W9LO

Tips,Tails & Tools

While wandering around in a daze on the Internet recently, I came upon a treasure of information at a web site. The site's name is 101science.com. This is a science-based site covering nearly all areas that can be called science. They have basic electronics courses

available for free along with some fantastic technical ham radio information for all aspects of the hobby. I should warn you that this site is very intense, and you almost certainly need a high-speed connection, because even with road-runner, the pages take a bit of time to load. Dial up connections will be painfully slow on this site. Regards, BOB GORJANCE (W5CFB)

Wanted

I am looking for a code practice oscillator for my elderly (84) father-in-law. He has been studying for a technician license but is interested in the code. If anyone has such an animal for sale, please let me know. Thanks, Paul KD9FM

I need a 12 volt 2-amp wall wort to power an LCD PC display. Thanks, Tom W9IPR

General Class Upgrade Class

The Justice Center is reserved each Sat morning from Nov 12 through Dec 17 for upgrade training to General. We will have 6 training sessions and cover the 10 chapters in the ARRL General Class License Manual. The manual is available at AES for \$16.95 Students should review and start studying the manual prior to the class sessions.

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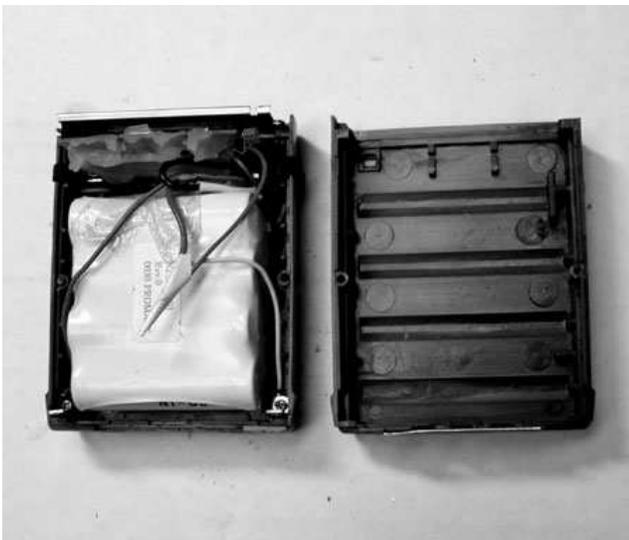
To date the following are enrolled:

Dave Barrow – N9UNR
Nancy Stecker – KC9FZK
Mark Potash – KC9GST
Zack Mackay – KC9HEJ
Mike Yuhas – KC9GDV

Rebuilding the HT Battery Pack

De: Tom Ruhlmann

You too can do it. If the pack is dead what's the difference, give it a try. With the older Radio Shack / ICOM pack it is really a snap because there are simply 4 screws to be removed to expose the battery pack.



This Radio Shack / ICOM battery pack is easily opened to expose the battery pack. The pack consisted of 7 each "AA" Ni-Cd cells with an included temperature sensor



The replacement pack is shown on the right and it was exactly the configuration of the original. Lucky break in this case



After unsoldering the original pack and installing the replacement pack (and temperature sensor) the case is easily reassembled.

I must admit, this is the easiest of the packs that I have repaired. On my NARCO aviation HT I had to use my Drimmel saw to open the case and then it was a real squeeze getting the replacement cells in the case. The case had to be clamped closed and then epoxied.

One of the greater challenges is soldering wires to the stainless steel cases. I finally used acid core solder – anyone have a better suggestion?

Elections

It's that time of year again. Elections will be at the December 14th meeting. Under new business there will be an election for each position thus allowing for nominations from the floor. However, don't wait until then if you are interested in serving as a club officer. Call a member of the nominating committee and volunteer. The committee this year is composed of Vic Shier (KB9UKE), Kent Christiansen (N9WH) and Stan Kaplan (WB9RQR).

Silent Key

De: Gregg R. Lengling, W9DHI

I regret to inform the readers that John Samuel Le Feber, W9VAT, passed away on October 28th, 2005 at the young age of 80. A lot of old time hams will remember John (especially those on 160 meters), including the early members of the 146.91 repeater which John helped put together with his expertise as an electronics rep. He will be greatly missed. ,

The Repeater & Power

As many of you know, we have been operating the 146.97 repeater with the solid state amplifier for about a year now. At the last meeting, it was decided to purchase the replacement tubes for the trusty Micor amplifier. Dick Scarvaci, K9CAN, ordered and installed the tubes, and put the amplifier back in service. We are now operating back at our coordinated power level! Thanks, Dick.

At this point, the repeater is operating with all five receive sites in operation. The sixth, to be in Grafton, will be on line very soon. These receive sites augment the receive capability of the system, and of course we all listen to the voted receivers through the transmitting system at the repeater site.

This brings up an interesting situation of perception! If we users hear the repeater strongly, like it normally is, the tendency to reduce the power

on our transceivers occurs. Most mobile radios operate at a maximum of 50 Watts. Handheld radios often do no more than 4 to 5 Watts.

I often hear people say they are running low power. Mobile low power is usually about 5 Watts, and handhelds can be in the milliwatt range. Our transmitter has an effective radiated power of 400 Watts! That is a large imbalance!

If you know you are very close to a remote receive site, those levels can be just fine. What usually happens is, the mobile, or handheld, radio moves out of close proximity of a receive site, and the repeater doesn't get a quality signal. The point is, the user still hears the other signals just fine! He's listening to a 400 W. E.R.P. transmitter.

A while back, we were just running the exciter radio because the amplifier had failed and we didn't have the backup amplifier. That radio puts out 15 Watts. Almost half of that power is lost in the duplexers, and we probably had perhaps 30-Watts effective radiated power. Curiously, everyone ran high power on their radios, because they heard the repeater weaker than normal! Everyone tended to sound good!

The FCC Rules call for the minimum power to be used to maintain a contact. They don't expect you to reduce power to a level that provides difficulty for others to receive your signal. A reasonable power level for mobiles seems to be around 25 W. unless you are on the far reaches of the system. The remote receive sites enable better handheld coverage, but for most handheld situations, the maximum power out will give more solid copy through the system.

All of this is to ask you to not get carried away with an effort to access the system with the lowest power possible. It is much better to be heard without causing listener fatigue by the people you are communicating with!

73, Nels Harvey, WA9JOB

Upcoming Events

Nov. 5/6 – CERT Training at Justice Center
Nov. 5/6 – ARRL CW Sweepstakes
Nov. 9 – Membership meeting
Nov. 12 – General Class Upgrade Training starts at the Justice Center – Call Tom W9IPR to enroll
Nov. 19/21 – ARRL Phone Sweepstakes
Nov. 26 – Grafton Christmas Parade
Nov. 26/27 – CQ World Wide CW DX Contest

Don't forget the regular Tuesday ORC net and the Sunday night railroad net on "91".

Club Static

Hello everyone. I received a call this afternoon from Mike Donohue of the Grafton Chamber of Commerce asking for our help again this year on the Grafton Christmas Parade. The parade is scheduled for 11 AM, Saturday, November 26 (Saturday after Thanksgiving). They will need 6 or 7 operators and the Cedarburg Emergency Government Commo Van. Operators will need to report at St. Paul's Lutheran Church parking lot at 9:15 AM Saturday morning the 26th to meet your assigned person. More details at the November meeting. Mark the date on the calendar now if you plan to participate. 73 de Jim K9QLP. So far we have Cindy, KA9PZG; Bernie, AA9CI; Nels, WA9JOB; and myself

Jim Albrinck (K9QLP)

And The Winner IS

One of our neighbors has won the October QST plaque award. It is George R. Steber, WB9LVI 9957 North River Road Mequon, WI 53092-5229. If you know George bring him to our November meeting.

Party Time

After a short discussion at the October meeting ... the 2006 Post Everything Party date is set for Saturday, March 11th !!!

We need some assistance on running this year's event. Give Leon (W9GCF) a call to volunteer.

Just Another Shack

De Steve Stevens (K9DXT)

Our featured member this month is Jim Russell (W9JRX)). Jim is a life long resident of Port Washington attending and graduating from both the local grade and high schools. After high school Jim entered the Navy and served a four-year hitch as a Machinist mate. The training he received while in the Navy led him to his current job with Wisconsin Electric where he has been employed for 32 years as a heavy equipment operator.



Jim (W9JRX) relaxes at his shack with his trusty ICOM to his right

His other interests beside ham radio include a model train layout, which he resurrected from his mother's attic, and is reworking and expanding the layout. As you look around the basement area you notice several model race cars and a nice collection of racing related photos he is also interested in photography and plays trumpet in the Lake Shore Symphonic Band.

Jim's interest in amateur radio goes back to his days in high school when he used to listen to Jim Sharbuno (WI9M) when they were in high

school together. Jim promised himself that he would get his ticket sometime. So 2 years ago he kept that promise to himself after he had been to a field day and he now has his general class ticket and is working for the extra. Jim uses the hobby to get away from Wisconsin. He figures he has had enough experiences that he can talk to most people. His farthest QSO has been to Slavina and most interesting individual was an older gentleman who had served on an aircraft carrier in the Second World War that was sunk by the Japanese.

Jim's equipment consists of an Icom IC718 Transceiver for main and piggybacks an Icom R-75 comm. receiver to it. Antennas consist of a G5RV and a Titan gap vertical operating at 100 watts.

Jim's philosophy is to get as much as he can for as little as possible. I found him to be an interesting interview. He is definitely an individual you would like to know better.

November 9th Meeting



So whose trailer of emergency supplies is this and where exactly did they go? Come to the meeting Nov. 9th and hear about Katrina from a local ham's point of view.

Minutes—October 12th, 2005

De Nancy Stecker, KC9FZK

Meeting called to order at 7:33 P.M. by Vice President Leon Rediske K9GCF in the President's absence.

Introductions: Members in attendance gave their name and call sign while guests introduced themselves.

Announcements, Etc.:

Leon K9GCF has a large list of equipment from a deceased ham. Proceeds from the sale of the equipment will be split between the ORC and the Scholarship Fund. Leon will confer with Ed AA9W, to arrange for the sale.

Ted N9LLT climbed Fred W9QMD's tower, lubricated it and found that no other repairs were needed.

Herb WA9UVK thought he might need repairs done to free his antenna but the offending tree came down in a storm and solved the problem.

JOTA will be held the weekend of Oct 15, 2005.

Kyle N4NSS has created a website for a Merit Badge for Scouts.

Dave N9UNR will be present at an Eagle Scout Badge awards ceremony in recognition for work done with the Inter-Urban Station in Cedarburg.

Nels WA9JOB said the December QST would have Field Day results, don't forget to check it when you receive your copy.

Tom AA9XK presented several possible dates for the 2006 Post Everything Party to be held at the American Legion Post in Cedarburg. Members attending the October meeting selected March 11, 2006.

Program: Maintaining your Lead Acid Battery by Ray W9BUJ. The average life of the lead acid battery is supposed to be 5 to 6 years. Unfortunately, most do not last that long because of a process called sulfation. Ray displayed products used for checking and restoring life to batteries, along with other literature and guidelines.

Fellowship Break:

Auction: by Stan WB9RQR.

Business Meeting: The minutes were accepted as printed in the ORC Newsletter. The treasurer's report was accepted as printed on handouts placed on tables.

Repeater Report: Nels WA9JOB explained the 97 repeater had broken. The power supply that had been repaired had failed again. A replacement power supply was installed, and the repeater is operating normally. The 220 repeater is being fine-tuned by Dick K9CAN, and the 440MHz unit at KK and LL is working fine with little usage. The Micor amplifier has been down for the past year and it was agreed by membership that new tubes should be purchased to repair it.

OZARES: Stan WB9RQR reported that the SET went well and reminded us of the CERT course being offered on November 5 and 6, 2005.

Committee Reports:

Swapfest Committee: Ray W9BUJ reported on the results of a meeting of the Swapfest Committee. Areas under discussion included food, seminars, having a major prize, and the possibility of second swapfest to be held outdoors. A new brochure is planned with publicity a high priority. A big round of applause was given to Gene KB9VJP for the years of hard work he has given to the Swapfest. The committee is continuing to look for more ideas.

Old Business: None.

New Business: A question was raised about our assistance with the Christmas Parade. No one has contacted the club at this time

Attendance: Stan WB9RQR, Nancy KC9FZK, Bernie AA9CI, Jim K9QLP, Gary WI9M, Bob WQ9N, Leon K9GCF, Herb WA9UVK, Bob W9LO, Ray W9BUJ, Ed AA9WW, Gary W9XT, Kyle N4NSS, Ray W9KHH, Muhammad KC9CPC, Gabe WI9GC, Dave N9UNR, Nels WA9JOB, Ted KB9RLI, Wil KB9HHR, Ron W9BCK, Mike KC9GDV, Mark AB9CD, Gene KB9VJP, Tom AA9XK, Julia KB9WBQ, Paul KD9FM and guests Len White and Tom Dorsey.

Meeting adjourned at 9:25 P.M.

Nancy KC9FZK Secretary

AGENDA

November 9th, 2005

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 –
 - Swapmeet -
 - Post Everything Party -
 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, November 9th

7:30 PM



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.



AMATEUR RADIO

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

Volume XXIV

December 2005

Number 12

The Prez Sez

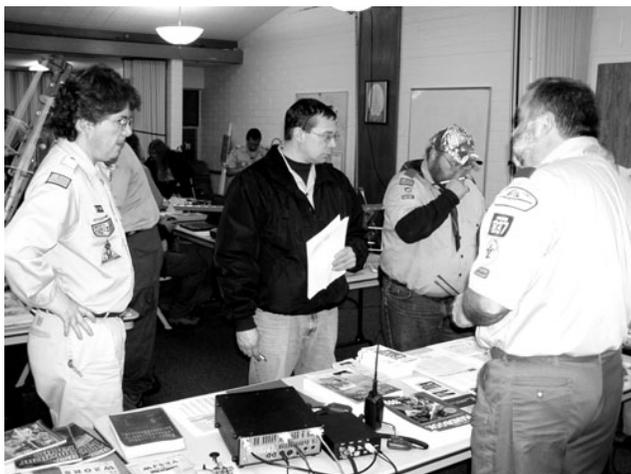
By Tom Ruhlmann (W9IPR)

The month has gone pretty fast with more HAM activities than I originally expected.

I went to a meeting of the Greater Milwaukee DX Club and it was really interesting. They rarely have a formal program because each member seems to be a program in themselves. These guys are really "hard core" about working DX and have the QSL cards to prove their successes. And it is not just HF. The host had over 120 entities on 6 meters and more Zones on 2 meters than I have entities on 20 meters. On HF, our own Gary Sutcliffe, W9XT, who is President of the group, has 334 of the possible 335 entities plus 6 more that have since been deleted from the listing. It was great fun listening to all the chatter about band conditions, antenna, operating techniques and who was working what at 3 AM Sunday morning. Oh yea, then I had a beer and got my 106 entities on 20 meters SSB confirmed for DXCC by Ron Gorski.

Then Mike Yuhas (KC9GDV) and Tim Boppre (KA9EAK), who are BSA council committee members, invited us to their "hobby night" roundtable. They hosted a table to promote HAM radio and the BSA Radio merit badge. It was a great exhibit with an operating HF station, the Edward R. Murrow CD about becoming a HAM playing on a PC and a table full of ARRL literature and pamphlets and QSL cards. There was much interest shown by the attending scout leaders and I fully expect to see selected members of the ORC getting involved with the scouts as radio merit badge councilors. Are you interested?

On November 5th and 6th Pat and I participated in CERT (Community Emergency Response Team) training at the Justice Center. Others there from the ORC were Mike (WJ9O) and Dale (N9NNE) Matthies, Nancy Stecker (KC9FZK) and Stan Kaplan KB9RQR. All told there were about 20 participants and it was really quite informative.



Tim (KA9EAK) and Mike (KC9GDV) are ambassadors for HAM radio and getting the interest of BSA leaders in the Radio Merit Badge and Amateur Radio



CERT EMT instructors demonstrated how to stop bleeding, splint fractures and secure puncture wounds while awaiting more qualified medical assistance

We learned the fundamentals of fire fighting, search & rescue, immediate first aid, triage and emergency preparedness.



Mike (WJ9O), Pat Ruhlmann and Nancy (KC9FZK) stop the bleeding and protect the victim (Dale Nedra Matthies – N9NNE) from shock during a simulated emergency

It was a really good program and I recommend it. Give Bill or Jack Morrisson a call at the Justice Center Emergency Government office to enroll.

It is dues time and that means we need to cough up \$15 again to support the basic club activities such as the repeater, social events, field day and even distribution of this newsletter. If possible, do use the membership application form when submitting your dues check. It contains a survey the results of which should help the board to provide programs of most interest to the membership as a whole. The application (available on the ORC website and in this newsletter) and check should be mailed to Tom Nawrot, AA9XK, at 10335 N. Grasslyn Road, Mequon 52092 .

As the year winds down I want to express a special thanks to Nels Harvey (WA9JOB) for the many hours he has spent upgrading and maintaining our “.97” repeater system. We have had almost 100% uptime – thanks Nels.

Here’s wishing you all a *happy holiday*. See you at the meeting – get involved and have some fun.

Just Another Shack

De Steve Stevens (K9DXT}

Our subject this month is a gentleman with a diverse background. David W. Barrow III (N9UNR) has been around. He was born in New Orleans, raised in Lexington, KY and spent most of his professional life in Florida. Along the way Dave earned degrees in business management and accounting, and his jurist prudence in Florida in 1966. Dave earned his fixed wing pilots rating in 1974 and then noted that the Parnellis County Sheriffs Department had 4 helicopters and few pilots. This motivated him to join the department as a part time sheriff and through the department, he earned his rotary wing rating. He moved to the Cedarburg area in 1978 and currently owns Stonewall Computer, a consulting company, and serves on the County Board as a County Supervisor.



Dave (N9UNR) is typically heard from his car, which is equipped with an ICOM 706, Kenwood D7000, Garmin GPS and APRS

Dave got his interest in ham radio as a teenager. He had a friend who had a friend with a kW mobile rig. It was mounted in a car until the rig experienced a short circuit and they both were burned. Dave kept his interest up through his interest in CB. He was also in the civil air patrol and coast guard auxiliary where he did communication work. Dave joined the ORC in April of 1993 and in June, when the Morse Code requirement was dropped, he got his Technician ticket. Dave’s favorite part of the hobby is the

people. He said he has never met a better group of people in any organization of which he has been member.

From the car, Dave stays in contact with APRS, an Icon 706 and a cross-banding Kenwood B700. As a base at home he has another Kenwood. In terms of the future, he is currently enrolled in the club's General Class license upgrade class.

Dave is one of those people that no matter how you feel you come away with a smile on your face.

Christmas Parade

De Jim Albrinck, K9QLP

The Ozaukee Radio Club continued its fine tradition of assisting the organizers of the Grafton Christmas Parade on Saturday, November 26th. The weather was sunny, but cool, and we had just enough snow on the ground to get into the Holiday Spirit.



Those assisting the Grafton Chamber of Commerce in communications with the parade are as follows: Gary, WI9M; Jim, K9QLP; Ed AA9W Nels, WA9JOB; Cindy, KA9PZG; Bernie, AA9CI and Gene, KB9VJP. We also used the Cedarburg Emergency Government Comm Van for Net Control Operations. Mike Donohue of the Grafton Chamber of Commerce was most appreciative of the excellent service granted by the Ozaukee Radio Club and its members in keeping the Grafton parade flowing smoothly over the past 15 years. Thanks to everyone present

and past who have participated in the parade.

Tips,Tails & Tools

Weeelllllll: I found more good stuff for you to add to the newsletter. I have always had trouble converting ufd's to mmfd's, pfd's,nfd's, ufo's, etc. While researching sources for inexpensive capacitors, I ran into a company in Canada called justradios.com. Today while perusing the site, I discovered he had a listing/conversion chart for forgetful old farts like me. Here is the chart address: www.justradios.com/uFnFpF.html You can print it right off the site and what's especially for old geezers is that the print is in B I G L E T T E R S ! Tom, his capacitor prices are very reasonable, and beat any other prices I have researched by a good 50%.

Bob Gorjance (W5CFB)

Elections

Elections will be at the January 11th annual meeting. Your dues must be paid at that time to be entitled to vote. Under new business there will be an election for each position thus allowing for nominations from the floor. However, don't wait until then if you are interested in serving as a club officer. Call a member of the nominating committee and volunteer. The committee this year is composed of Vic Shier (KB9UKE), Kent Christiansen (N9WH) and Stan Kaplan (WB9RQR). As of this time the committee is nominating the following members as candidates for the 2006 Board.

Tom Ruhlmann, W9IPR – President
Ed Frac, AA9WW – 1st Vice President
Leon Rediske - 2nd Vice President
Nels Harvey, WA9JOB – Repeater VP
Tom Nawrot, AA9XK – Treasurer
Nancy Stecker, KC9FZK - Secretary

Membership

My name is Dan Vanevenhoven I'm the new Affiliated Club Coordinator for the Wisconsin section. I was appointed by Don Michalski on November 6th. I've lived in Appleton, WI since 1991 and have been a ham since 1991. I'm very

active with the Fox Cities Amateur Radio Club which is a very strong club with over 100 members.

I'm looking forward to working with all of you to make the Wisconsin affiliated clubs some of the strongest in the nation. The way we can do this is make clubs grow by "selling" amateur radio. Selling the club to new and current hams is the way to strengthen any club. I looked at the affiliated clubs list over the past few weeks and there are 46 affiliated clubs in the state. Of that the mean average club has 23 members. Now this means we have about 10.2% of the hams state wide in affiliated clubs. That is a fair number but I know we can do much better. The ham radio population nation wide is up for the first time over a 6 month average in almost 3 years (not by much but it is up from years past). According to the current FCC data base record.

Wisconsin	
Month	Membership
07/05	10,771
08/05	10,794
09/05	10,802

Nationally 663,888

The reason I see why amateur radio has not grown more is a lack of mentors (Elmer's). Elmer's have gone away and from what I have seen throughout the state (from different sources statewide) even discouraged in some cases. Now there are some clubs doing a great job and we can learn from them. When we see a new ham come on board we need to help them get started. We are communicators. Lets communicate. In some places I have seen it's basically "good luck and we will see you later". The FCARC of which I'm a member and was the Membership Coordinator, has a very nice program from the VE team to the board and echoing through the club itself is a positive attitude. New amateurs are always welcome. Mentor's or Elmer's are the main way to get new hams interested in ham radio. With computers and the Internet there are more and more people getting into technology based hobbies. Our job is to point them our way. Not give them a reason to go someplace else.

As for hams that have not been affiliated with a club in a long time - take a poll of them. You might be surprised by the results. I've heard of people with licenses that are not active for all kinds of reasons some small like "I just moved here and can't find anyone to help me get my antennas up" as well as "I'm a old CW guy and nobody in the club does that much anymore. Most of the members are Tech's now" (he is a good example of getting someone to teach CW). You can see it's not hard to overcome an objection if you know what the objection is.

The other part is to sell amateur radio is to your community. Communities are a big asset. We can't forget Wisconsin has 5,509,026 people. We are only 2% of the states total population. We are a minority without question and we need to get the good name of amateur radio out there. Help out in parades or talk to your local municipalities. It's amazing even with all that goes on with amateur radio that most local people have no idea what we do or who we are. The media is another one - invite them to an event. When I was watching the hurricanes this year I was amazed the media kept saying there is no communications yet when you listened to HF the pile ups where everywhere. It was a case of the media not knowing we where there or who we where.

It's my goal to increase the clubs statewide membership by 10% in my first year and help the affiliated clubs to get their Special Service Club status. For a lot of you it's just a matter of going filling out an ARRL form. For others it will take a little bit of work and polish to get you to that status.

I know I have put out a lot here. I hope most of it seems positive to you. The main thing I hope comes out from this is we really need to "sell" amateur radio statewide and I'm here to help you in anyway I can. Please feel free to contact me with any questions, concerns or comments. My email address is N9LVS@ARRL.NET.

Dan Vanevenhoven N9LVS
ARRL Affiliated Club Coordinator Wisconsin Section

Mail Box

The following letter was received from the ARRL in response to an input from Ed Rate, AA9W.

Ed notified the ARRL of the clubs various social, training, field day, technical and public service activities throughout 2004/2005. This input to the ARRL is required every two years to maintain the Special Service Club status.

November 30, 2005
Thomas Ruhlmann, W9IPR
Ozaukee Radio Club, Inc.

Dear Thomas:

We are pleased to report that Ozaukee Radio Club, Inc. has been officially renewed as a Special Service Club. The next renewal for the club will be in two years. Through the work of its members, this club is recognized for its continued efforts on behalf of Amateur Radio and services to its community.

Etc.

Congratulations, and thanks for your good work! If we can be of further assistance, please do not hesitate to contact us. 73,

Rose-Anne Lawrence, KB1DMW
Club Assistant
ARRL

HF - AWARDS

De Stan Kaplan, KB9RQR

Did you know that Stan Kaplan (WB9RQR) is an HF Worked All States Awards Manager for Wisconsin? If you are going for the WAS Award, search the ARRL site for Form MSD-217, print out a copy and fill it in (both sides). Also read the rules, on MSD-264. Then present the form with your QSL cards (sorted in state order) to Stan. He can confirm the contacts and send in your application (with the fee) to HQ for issuance of the certificate.

VHF – UHF CENTURY CLUB (VUCC) AWARDS

De Keith Shilhavy, KY9P

Most amateurs are aware of the DXCC award for working foreign countries on the H.F. bands.

How many are aware that there is a somewhat equivalent award for vhf and uhf operators? Instead of working countries, vhf and uhf operators work various 2 degree (longitude) X 1 degree (latitude) "Maidenhead" grid squares to receive their Century Club awards. The entire globe (earth) has been mapped out in the "Maidenhead" grid square system. You need 100 confirmed grid squares on 50 MHz; 100 on 144 MHz; 50 on 220 MHz; 50 on 432 MHz; 25 on 932 MHz; 25 on 1296 MHz; 10 on 2.3 GHz; 5 on: 3.4, 5.7, 10, 24, 47, 75, 119, 142, 241, & Laser 300 GHz to qualify for the initial award.

Awards on 50 & 144 MHz are designated "Century Club," on 220 and 432 MHz awards are designated "Half Century," on 902 and 1296 MHz awards are designated "Quarter Century," and those on higher frequencies are designated "SHF Awards."

Only contacts dated January 1, 1983 or later are creditable for VUCC purposes. Separate bands are considered as separate awards; no cross-band contacts or repeater contacts are permitted for VUCC purposes, except for Satellite Awards. Contacts with aeronautical mobiles (while in the air) are not permitted. Contacts with mobiles (ships, boats) on water DO count. There are a few other rules covering such things as working from the intersection of 4 grid squares, etc. which must be observed, if the situation arises, but you now have a general idea as to how the award program operates.

For VUCC awards on 50 through 1296 MHz, all contacts must be made from a location or locations within the same grid square or locations in different grid squares no more than 50 miles apart. SHF award contacts must be made from a single location, defined as within a 300-meter diameter circle

There are no specialty endorsements such as "CW" only (oh darn!), smoke signals or flashing lights or any other method, that might be found on H.F. (Editors comment: CW operators will probably accumulate more grid squares on some bands than non-CW operators, as a result of aurora conditions!).

All VUCC awards are endorsable in the following increments: 50, 144 MHz & Satellite – 25 grid squares; 220 & 432 MHz – 10 grid squares; and 902 MHz and above – 5 grid squares.

All VUCC Awards are sequentially numbered. To date (Dec. 2005) there have been 1462 issued for 50 MHz (author has #47, but was not the 1st issued in WI...probably the 3rd), 652 issued for 144 MHz, 164 for 10 GHz, 29 for 24 GHz, 11 for 47 GHz, 1 for 122 GHz, & 145 for Satellite.

As of 11/28/05, the confirmed grid square leaders (# numbers) by band are: 50 MHz – 1200; 144 MHz - 525; 222 MHz – 200; 432 MHz – 340; 902 MHz – 60; 1296 MHz – 205; 2.3 GHz – 100; 3.4 GHz – 35; 5.7 GHz – 35; 10 GHz – 55; 24 GHz – 10; 47 GHz – 5; 75 GHz – 5; 119 GHz – 5; 142 GHz – 5; 241 GHz – 5 & Satellite – 875.

QST publishes “VHF/UHF Century Club Awards” monthly at the end of “The World Above 50 MHz” column. Additional information can be found on the ARRL web site: www.arrl.org and then type “VUCC” in the search box.

You may apply for awards by filling out the appropriate ARRL submittal form and submitting it with your QSL cards and appropriate fee to the ARRL or better yet, to any ARRL Special Service Club VHF/UHF Awards Manager (this usually saves having to forward cards by USPS, UPS, etc. and incurring the possibility of loss or damage.

For more information, check the ARRL web site or contact me @ ky9p@arrl.net and I will attempt to answer your query.

One last trivia question (especially for you math wizards)! How many “Maidenhead” grid squares is the globe (world) divided into? (2-deg. longitude X 1 degree latitude).

Good luck and good hunting!!
Keith KY9P

Upcoming Events

Dec. 10th – Class 5 of 6 – General Upgrade

Dec. 14th – Membership meeting – Terry Koller (KA9RFM) speaks on Radio Controlled models
Dec. 17th – Class 6 Of 6 – General Upgrade
Jan. 7th – Waukesha Expo Cntr Swapfest
Jan. 7th – FCC testing at Waukesha Swapfest
Jan. 11th – Membership meeting & Elections
Jan. 22nd – Wheaton IL Swapfest
Feb. 2nd – ARES Meeting
Feb. 23rd – ARES Meeting
Don't forget the regular Tuesday ORC net and the Sunday night railroad net on “91”.

A Salute to Elmers

De Ted Heilmann, N9LLT.

I was recently thinking of where I would be in amateur radio if it weren't for my Elmer. The answer is easy. I wouldn't be anywhere in amateur radio. In fact, my introduction to the guy who took on Elmer duties couldn't have been more of an accident. In 1990 I was working along side a mechanical engineer who had an interest in computers. He knew I had a similar interest. He approached me and asked me if I would like to join him and another person on an excursion to a computer flea market. I agreed to go with them. Come the day of the event, I was amazed to see that the other person going with us drove up with a headset on and a bunch of antennas on his car and I knew right away that he was a ham. He was talking to someone on HF and the topic of conversation quickly turned from computers to radio. Well, this was the trigger that got my interest back on the front burner. He offered to coach me in lessons at his home, but he made it clear that I would have to be the one who showed motivation to become a ham. Through his sharing of knowledge and time, I realized something that I had thought I would never accomplish. I passed my technician exam and was licensed in May of 1991. Seems to be the normal chain of events puts a technician on two meters and then seventy centimeters and so it was with me. But I asked my Elmer about six meters and one point two five meters. He asked me why I would be interested in those two bands. There's not much activity on either of them and why bother with them, Which intrigued me all the more. After building a six-meter ground plane out of an old J.C. Penny citizen's band antenna and using an old rock bound radio

on 52.525 MHz. I actually perked his interest in 6 meters and he ended up building up a repeater on 6 meters, which he ran for a few years. The point to be made is that not only did I learn much from him about ham radio, but he learned a few things from the new kid on the block too. To this day I am still more active on six meters and 1.25 meters than I've ever been on two meters. Two years after I got my technician license I got my five word per minute endorsement and started burning up 10 meters with a converted 4 element citizen's band antenna that I returned to 10 meters. I still am using that same beam today. It has been in continuous service since I put it up in 1982. 25 years of service for a \$39 investment. All because my Elmer said never to waste an antenna. So, a few years have gone by and I got my general class license and I still look back at where I would be without my Elmer. I salute all of you who have ever taken on the task of being an Elmer. Amateur radio sure owes a debt of gratitude to those who take the time. Oh, and by the way, the computer flea market that we attended was the Grayslake Hamfest in September of 1990 and my Elmer was and still is K9MLD, Joel Eschmann.

Moonlight QSO

By Gary Sutcliffe, W9XT

A few years ago after I got my license I set some life time goals I wanted to accomplish in Ham Radio. The list included making the DXCC Honor Roll, placing in the top 10 in a major contest, and getting an article published in QST. Over the last 35 years I have accomplished these goals except for one. That was making a contact by reflecting a signal off the moon. This is called moon bounce or EME for Earth-Moon-Earth.

On VHF frequencies like 2 meters radio communications are normally line of sight. Occasionally we will get special conditions like tropospheric ducting that will extend that range to several hundred or maybe a thousand miles. FM users will notice this when distant repeaters are heard on the local repeater frequencies. More exotic modes include reflecting signals off auroras or meteor trails for making contacts out

to about 1200 miles. These are exciting activities in their own right and are normally done with CW or SSB. To get really long distances requires something much higher than meteor trails. The moon is plenty high.

The problem is that the moon is very far away. It also is not the most efficient reflector of radio waves. This means that it takes a great deal of power aimed at the moon to result in even a very weak received signal. On 2M the total path loss is on the order of 250 dB! Historically to make a contact both stations ran arrays of 4 or more long Yagis and full legal limit power. Every effort needs to be made to eliminate every dB of loss. This means expensive feed lines, and sensitive preamps mounted at the antenna. Even with all this, making a contact is not an easy task.

The bar was lowered with the introduction of the JT65 digital mode. It is a combination of modulation and data encoding techniques developed by Joe Taylor, K1JT as part of his WSJT program. You may already be familiar with PSK31, which has many similarities. These new digital modes use the PC sound card to generate audio tones that go to the microphone input of an SSB transceiver. The receive audio is fed into the sound card input where the PC uses DSP (digital signal processing) to demodulate the signal. DSP techniques can retrieve signals too far into the noise to be heard by ear.

I had read about JT65 in QST and was intrigued by its capabilities. At Dayton K1JT was scheduled to give a talk about his program on Sunday morning. It was the only talk I managed to catch. That really got me interested. WSJT also has a mode, FSK441 that is designed for meteor scatter. My first entry into the WSJT programs was FSK441. I got my sound card interface working in time to catch the end of the Perseid meteor shower in mid-August. I have made meteor scatter contacts with the more traditional SSB techniques. This requires schedules with 15 second alternating transmit and receive sessions. If enough 5-10 second meteor bursts occur during the schedule, you might make the contact. FSK441 takes advantage of the shorter and much more common bursts called "pings". Meteor pings of 1/20 of second

can get the exchange made with FSK441. I made a number of contacts with FSK441 during the meteor shower and wondered if I could make the much more difficult JT65 EME contacts.

My 2M station comprises of an FT847 running 50 watts. The antenna is a 13 element Yagi at about 55'. It is fed with 75 ohm CATV hard line to minimize feed line loss. I needed a bit more power so I picked up a used 150W brick. This gave me a whopping 4.7-dB increase in ERP. I started watching the Ping Jockey web site where EMEers congregate to arrange schedules. I picked times near moonrise and moonset. Since I can not elevate my antenna, I need the moon to be in the main lobe, which is only a few degrees above the horizon. In addition you can get an additional 3-dB signal gain from the signal coming in and reflecting off the ground to the antenna and adding to the directly received signal. The moon's orbit around the earth is not circular. When the moon is at its closest point, the path loss is about 2 dB less than when it is further away. Also some parts of the sky are quieter than others due to cosmic radio sources. I tried to pick days when the moon was both close and in a quiet portion of the sky. As I said, every dB counts. I was able to copy some of the big gun stations! It was time to see if I could work one of them.

RN6BN from Russia announced he was calling CQ on 144.137 MHz, second sequence. That meant he would transmit for 60 seconds on the odd minutes and listen for answers on the even minutes. I set up the program for his call and sequence and tuned to his frequency. After a minute of his transmit period the program displayed what it had decoded "CQ RN6BN KN95". KN95 is his grid square. I started transmitting "RN6BN W9XT EN53". EN53 is my grid square. After a few sequences he heard my answer and I later copied "W9XT RN6BN KN95 OOO". The "OOO" is the standard signal report for EME. The letter O was chosen for the signal report for CW EME contacts since it is an easy letter to copy. That custom has carried over to digital mode QSO's. Over the next several minutes we went through the other steps of acknowledging reception, 73's, etc. to make a valid QSO. My

first EME QSO was in the log! A month or so later a QSL arrived to confirm the great event.

In moon bounce circles 120 watts into a 13 element Yagi is the equivalent of QRP. It is sort of like working California with 1/2 watt into a 75-meter mobile whip antenna. The other end of the circuit does all the real work. I did a Google search on RN6BN and found his website at www.73.ru. I can see who really carried the load. He has pictures of the construction of his array of 32 X 15-element Yagis for 2M. Very impressive!

Sam was kind enough send me a screen shot of my decoded signal. I was 27 dB below the receiver noise level, but he was still able to copy me! My best copy of him was a huge 18dB below the noise. At times I could even barely hear tones in the speaker, but most of the time all I heard was noise.

I want to make more contacts via this challenging mode. Right now there are probably less than a dozen stations large enough for me to contact. I will need a better station to contact smaller stations. Over the years I have been collecting used 2M beams, many of them with broken or missing elements. I am using the parts to piece together an array of four 11-element Yagis. I plan on putting up a short tower to hold it. Eventually I will add elevation control so I can operate whenever the moon is over the horizon. I also am going to restore a 2-meter tube amplifier I got in a trade. That should give me about 700 watts and allow me to hear my own echoes off the moon. That will open up hundreds of stations that I should be able to work.

The WSJT program is an easy entry into some exciting contacts that previously required larger stations. I think it is a tremendous opportunity for Technician class hams to make contacts outside the normal repeater range without the need to know Morse code. A great opportunity to try WSJT on meteor scatter is around the corner. The Geminiid meteor shower peaks on Dec 13, around 10:00PM local time. Conditions should be good for contacts for a couple of days before and after that date.

If you have an all mode rig with SSB on 6M or 2M with 25W or more and a small beam you have most of the equipment you need. You can download the WSJT program free of charge. <http://pulsar.princeton.edu/~joe/K1JT/> Be sure to also download the manual which includes information on setting up the program, as well as operating information.

You will also need a simple interface between the radio and the computer. I built my first one in about 20 minutes, so it is not a complex project. You can also buy a ready-made interface at AES. It is the same type used for PSK31, another popular digital mode. Once you have everything set up you will also want to check out the Ping Jockey website. <http://www.pingjockey.net/cgi-bin/pingtalk> This is where the VHF digital crowd hangs out to set up schedules for the different VHF digital modes.

Give WSJT a try. It opens up the possibility of some out of this world contacts.

Recognizing A Stroke

De Jack Morrisson

A true story. Susie is recouping at an incredible pace for someone with a massive stroke and all because Sherry saw Susie stumble - - that was the key that isn't mentioned below - and then she asked Susie the 3 questions.

So simple - - this literally saved Susie's life - - Some angel sent it to Susie's friend and they did just what it said to do. Susie failed all three so then 9-1-1 was called. Even though she had normal blood pressure readings and did not appear to be a stroke as she could converse to some extent with the Paramedics they took her to the hospital right away. Thank God for the sense to remember the "3" steps. Read and learn! Sometimes symptoms of a stroke are difficult to identify.

Unfortunately, the lack of awareness spells disaster. The stroke victim may suffer brain damage when people nearby fail to recognize the symptoms of a stroke. Now doctors say a by-

stander can recognize a stroke by asking three simple questions:

1. Ask the individual to SMILE.
2. Ask him or her to RAISE BOTH ARMS.
3. Ask the person to SPEAK A SIMPLE SENTENCE (Coherently) (ie . It is sunny out today) If he or she has trouble with any of these tasks, call 9-1-1 immediately and describe the symptoms to the dispatcher.

After discovering that a group of non-medical volunteers could identify facial weakness, arm weakness and speech problems, researchers urged the general public to learn the three questions. They presented their conclusions at the American Stroke Association's annual meeting last February. Widespread use of this test could result in prompt diagnosis and treatment of the stroke and prevent brain damage.

Dues are Due

Per ORC Policy #6, the annual dues for REGULAR membership are \$15.00. There are no annual dues for FAMILY members.

Graduates of ORC sponsored Amateur Radio courses are eligible for REGULAR membership, with no dues charge, for the duration of that calendar year following their having successfully passed an FCC Amateur Radio exam.

Per the bylaws, dues are payable at or before the annual meeting of each year. 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.

Club Static

Past President Vic Shier, KB9UKE, just spent a few days in the hospital following back surgery. He is home now so be sure to give him a call - best chance of contact will be on CW.

Ed Seigworth, AA9GT, had a knee replaced in September and is doing fine.

W9LO, Bob Truscott, our "Contesting" column editor had one of his knees replaced at St. Joseph's in West Bend last week and is currently undergoing physical therapy – sure glad it wasn't his "key" hand.

Minutes–Nov. 9th, 2005

De Nancy Stecker, KC9FZK

Ozaukee Radio Club

Regular Meeting November 9, 2005

Meeting called to order at 7:33 P.M. by President Tom Ruhlmann, W9IPR.

Introduction: Introduction of members and guests.

Announcements:

Nels WA9JOB told of a silent key, Ken W9NGE. Paul KD9FM reported the 15-meter band is open. Tom W9IPR recently completed the CERT training course and said it was well worth doing. Upcoming events: November 19, SSB Sweepstakes; November 26, Grafton Christmas Parade; December 14, a slate of officers will be presented at this meeting, with elections to be held at the January meeting; November 12 will be the start of classes for anyone wanting to get a General Class License.

Program: There was no program this evening.

Auction: Stan WB9RQR held an auction of a few items.

Business Meeting: Minutes were accepted as printed in the newsletter. The Treasurer's report was accepted as presented.

Repeater Report: New tubes were purchased and installed in the Micro amplifier. Nels WA9JOB is trying to reduce a buzzing noise caused by a fan on the repeater. He will also be going to the Germantown site to replace the link transmitter. In other news, the 440 repeater is working, the Club was given a VHF repeater by the Village of Grafton, and since the barn property has not yet been sold, Nels is still working on plans for moving equipment.

Committee Reports:

Nominating Committee: Kent N9WH has candidates for most of the offices. A slate of officers will be presented at the December meeting with the election to be held at the January meeting.

Scholarship Committee: Ed AA9W has renewed our Special Service Club status with the ARRL and he has received final notification of the club being a 501(c)3 approved organization.

Membership Committee: Paul KD9FM would like to send holiday greetings to inactive members as a gentle reminder to attend ORC meetings.

Youth Committee: Mike KC9GDV talked about the plans for a spring weekend with boy scouts to work on a Radio Merit Badge. Volunteers might be needed.

Swapfest Committee: Ray W9BUJ handed out copies of the flyer promoting the May 6, 2006 swapfest. They will be given out at upcoming events around the state as well as posted on bulletin boards everywhere. A major door prize is being planned. He presented plans for an outdoor "Hobbyfest" to be held on the Circle B grounds on September 9, 2006. Buyers would be admitted free and sellers would be charged \$10. There would be a \$200 charge to use the parking lot. Ray made a motion to have the club sponsor an outdoor swapfest on Sept 9, 2006 with an initial budget of \$300. Stan WB9RQR seconded the motion. Following a discussion, the motion passed.

Old Business: None

New Business: Tom AA9XK reminded the membership that the dues of \$15 are due by the annual meeting in January. And, in order to be eligible to vote, the dues must be paid.

The Legion Hall has been reserved for the Post Everything Party on March 11, 2006. Tom needs people to help plan the event and would like the club to provide some funding.

Attendance: Kent N9WH, Naomi KC9GSS, Carol KC9CBC, Nancy KC9FZK, Tom AA9XK, Roger W9UVV, Gary W9XT, Bob W9LO, Ray W9BUJ, Ray W9KHH, Ed AA9WW, Bernie AA9CI, Joe AA9HR, Gene KB9VJP, Nels WA9JOB, Mike KC9GDV, Tim KA9EAK and son, Paul KD9FM, Ed AA9W, Stan WB9RQR, Wil KB9HHR, Kevin K9VIN, MARK KC9GST, Terry KA9RFM, Herb WA9UVK, Ted N9LLT, Dave N9UNR, and guest Mike Baridmo

Meeting adjourned at 9:06 P.M.
Nancy KC9FZK Secretary

Ozaukee Radio Club, Inc

2006 Membership Application/Renewal Form

Call Sign _____ Year first licensed _____ Age _____

Novice No-Code Tech Tech Plus 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)

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 Magement 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 Tom Nawrot (AA9XK)

10335 North Grasslyn 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

Spouce's Name: _____ & call sign: _____

Comments: _____

AGENDA

December 14th, 2005

1. Call to order – Tom (W9IPR)
 2. Introductions.
 3. Announcements, Bragging Rights, Show & Tell, Upcoming events, Etc.,
 4. Program: Terry Koller on RC models
 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 –
 - Nominating –
 - PEP -
 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, December 14th

7:30 PM



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 XXIV

January 2005

Number 1

The Prez Sez

By Vic Shier (KB9UKE)

This is my last entry for the Prez Sez column; the club will have a new president next month. I must also use this as my opportunity to bid farewell because I will not be at the January meeting, our annual meeting. My business requires me to be out of town.

I want to thank the ORC for trusting in me to serve as an officer of the club for these last 3 years, first as Vice President and then as President. I have learned much about ham radio, club history, and teamwork. It has been a good experience for me and I hope it has also been a good experience for the club. Of course, as past president, I will still be a member of the board and I'll be attending most of the meetings, but I'll be sitting at a different table.

Now it is time to move on. There will be some new leadership starting out this year, which is an important ingredient for any organization to stay fresh and healthy.

This club is successful because of all those who contribute to the organization; your efforts are greatly appreciated. I want to thank those who took the time to listen when I needed some advice and especially to each of you who from time to time would say, "Hey Vic, just remember...It's a hobby!"

73's
Vic
KB9UKE

Jan 13th Elections

The nominating committee of President Vic Shier (KB9UKE) and Stan Kaplan (WB9RQR) have announced the nomination of the following members as officers for the 2005 year.

President - Tom Ruhlmann, W9IPR
Vice President - Leon Rediske, K9GCF
Repeater Vice President - Nels Harvey,
WA9JOB
Treasurer - Tom Nawrot, AA9XK
Secretary - Nancy Stecker, KC9FZK

Nominations from the floor will be accepted for each office just prior to that election.

Stan will be conducting the elections and remember that you need to be a paid up "Regular" member to vote. Tom Nawrot will be accepting payment for 2005 dues prior to the meeting.

During the elections, while the ballots are being counted, we will be having a "show and tell" so bring your latest project or "find" and share it with the group.

Contesting

De Bob Truscott (W9LO)

Most contests are fun. But not the recent 10-Meter Contest. At least from my point of view. I can't ever remember worse conditions on that band during a contest. I could hear DX stations giving out QSO numbers well above 1000, but could not work them. My vertical antenna probably had something to do with that, but it worked like a charm other years. Guess the

sunspot cycle bit us real good that weekend. My computer says I worked 3:06 hours, but it seemed more like 20-30. Time passes much faster when other stations talk to you. On the plus side of contesting for the month, I thought the conditions for the 160-meter contest were outstanding.

Reported Scores:

ARRL 160 Meter Contest

W9LO 210 Qs 54 Sections
W9XT 167 Qs 50 Sections

ARRL 10 Meter Contest

W9XT CW 523 Qs 51 Sec. 24 DX
SSB 409 Qs 42 Sec. 25 DX
W9LO CW 91 Qs 23 Sec.

Stew Perry Distance Challenge (160 M)

W9XT 322 Qs 1738 pts.

Coming Up In Jan.

- Jan. 8-9 ARRL RTTY Roundup—Rules in QST, Dec., 2004, page 105
- Jan. 8-9 North American QSO Party—CW-- Rules in QST, Jan 2004, page 102
- Jan. 15-16 North American QSO Party—SSB Rules in QST, Jan 2004, page 102
- Jan. 2-24 ARRL January VHF Sweepstakes— Rules in QST, Dec, 2004, page 104
- Jan. 29-30 CQ WW 160 Meter Contest—Rules in QST, Jan, 2004, page 102

Scholarships

The Foundation For Amateur Radio, Inc., a non-profit organization with headquarters in Washington, DC, plans to administer fifty-five (55) scholarships (including the ORC's) for the academic year 2005-2006 to assist licensed Radio Amateurs. The Foundation, composed of over seventy-five local area Amateur Radio Clubs, fully funds three of these scholarships. Ten are funded with the income from grants. The remaining forty-two (42) are administered by the Foundation without cost to the various donors.

Licensed Radio Amateurs may compete for these awards if they plan to pursue full-time course of studies beyond high school and are enrolled in or have been accepted for enrollment at an accredited university, college or technical school. The awards range from \$500 to \$2500 with preference given in some cases to residents of specified geographical areas or the pursuit of certain study programs. Clubs, especially those in Delaware, Florida, Maryland, Ohio, Pennsylvania, Texas, Virginia and Wisconsin, are encouraged to announce these opportunities at their meetings, in their club newsletters, during training classes, on their nets and on their world wide web home pages.

Additional information and an application form may be requested by letter or QSL card, post-marked prior to April 30, 2005 from:

FAR Scholarships
PO Box 831
Riverdale, MD 20738

Copies of this information can be obtained at aa3of@arrl.net.

Receive Antennas for the Low Bands

De Gary Sutcliffe, W9XT

Receiving on the low bands (40, 80, and 160M) is much more difficult than it is on the higher HF bands. Directive antennas such as Yagis are difficult to impossible on these bands. Static is much more of an issue on these bands. On top of all that, the transmit antennas on the other end are usually less effective resulting in lower signal strengths.

Because of these difficulties a number of receive only antennas have been devised. The most famous is the Beverage antenna. This antenna is simple a long horizontal wire about 5'-10' off the ground. Ideally these are very long, 850' or so is a good length. An impedance transformer is usually used to transform the 600 or so impedance to the 50 ohm feed line. The

far end is usually terminated to result in a highly directive antenna in the direction towards the far end.

I'm fortunate to have a lot of land. Even so, the best I can do towards Europe and Japan are 350' Beverage antennas. These work quite well but are much shorter than they should be on 80M, and especially 160M. I have been looking for an antenna that would help in other directions. A few years ago, Gary Breed, K9AY, published an article in QST on some receive loops he had been working with. ARRL members can download the complete article by going to the ARRL web site.

The K9AY loop is roughly diamond shaped. The peak is about 25' high and the end points are about 15' each side of center. One end of the loop goes to ground through a terminating resistor. The other is fed through an impedance matching transformer. Directivity is in the direction of the feed end. By using two loops at right angles, and using a switch box to change which loop is selected and which ends are used as the feed point and termination, you can get an antenna that can be instantly switched to 4 different directions.



The loop size is a compromise between fitting in a reasonable space and good signal reception. A single support 25' tall does the job holding the loops up. The wires fit in a 30' diameter circle.

The pole should be non-metallic. I made mine from PVC pipe with sections of 2X2 reinforcing the joints. It is a bit floppy, but the wires act as guys to hold it in place. It has weathered some

pretty high winds in the last few months without any apparent trouble. Other hams with tall trees have hung their loops from a branch.

The switching circuitry at the base is in aluminum die cast box. Inside are a couple of DPDT relays to do the switching. I wound a 9:1 toroid transformer to couple the loop to the feed line. For that, I used RG-6. This is 75-ohm TV line. It is very inexpensive, have very low loss and the slight mis-match between the feed and receiver is not a problem.



I have been quite happy with the K9AY array. On 40 meters my 2 element Yagi has been better on receive than the K9AY array except in a couple of cases. I would expect that to be the case since the Yagi has gain.

On 80 and 160 the Beverage to Europe works better than the K9AY array unless it is snowing, and snow static is bad on the Beverage. In other directions the K9AY array is almost always better than my transmit antennas, which are a shunt fed tower for 80M, and a dipole for 160M. The signal strength is often down from the transmit antenna, but the noise is down even more, and S/N (signal/noise) is the important thing.

Part of the reason for putting this antenna up was because I decided to participate in this season's award program run by the Low Band Monitor, a monthly newsletter dedicated to DXing on the low bands. The awards start new each season on September 1 and run until the end of March. Each band has its own award. I

finished the 160 meter award (worked all continents) in November and the 40 meter award (150 countries) in December. As of January 1, I have 76 of the 100 countries required on 80 meters. I credit a lot of this success to the K9AY array.

There are a couple of things I am thinking about doing to improve my array. One is to add a pre-amp. The other is a remote controlled variable termination. The optimum terminating resistance varies with the band. Also, the termination will affect the take off angle. By varying the termination I should be able to optimize the antenna for the signal I am interested in. My current thinking is to make something called a vactrol which is essentially a photo cell with an LED. By varying the current through the LED, the amount of light on the photocell will change, affecting its resistance.

The low bands are improving as we move down in the sunspot cycle. If you are interested in the challenge of working DX on these bands the next few years are the time to give it a try. Hearing is just about everything down there, and if you don't have the space for big receive antennas, the K9AY array is a great way to go.

For Sale, Trade or ?

Leon (K9GCF) has two copies of the 16th volume of the "Hints & Kinks" book and would like to trade for any volume of 1 through 10 or an antenna manual.

Upcoming Events

January 13th - Meeting

February 26th – Post Everything Party

April 16th – NS9RC Swapfest at Grayslake fairgrounds

May 7th – ORC Swapfest at Circle B

July 9th – South Milwaukee Swapfest

Meeting January 13th

Election of officers and "show & tell".

Bring one of your more unique projects or "finds" and share it with the group during the counting of ballots. Should be fun and educational.

Post Everything Party

It's a great time – good food and good friends. Like last year, it will be at the American Legion Clubhouse in Cedarburg. Folks start to arrive at 6:00 PM for beverages and appetizers. A nice buffet is set out about 7:00. Plan on being there! You new members should talk to one of the old timers for details and take advantage of the opportunity to clean out the shack. See the sign up flyer at the back of this newsletter for reservation details. The co-chairmen again this year are Tom and Julia Nawrot.

Club Static

Whose wife had a baby? Kevin Steers (K9VIN) and his wife Colleen gave birth to a little girl, Erin, on November 7th and she weighed in at 9 lb.'s 4 oz. – all are doing well and we expect to see Kevin back at our meetings soon.

Guess who I talked to on the "Geritol" net a couple of weeks ago – Ernie Swanson, K9LO. He is doing very well and enjoys his new employer and job keeping commercial radio stations on the air. He indicated we would see him at Dayton so that is another reason to go. He can be reached at 1009 Goldrock Road, Rocky Mount, NC 27804-9626 or on the Geritol net.

How Low Can You Go?

De Gary Sutcliffe, W9XT

A number of ORC members are quite active in QRP (low power operating). QRP is usually defined as less than 5 watts and can be an interesting challenge and is increasing in popularity. I myself have worked stations in the Indian Ocean while running 5 Watts and worked Europe numerous times while running only 2 watts. I have worked stations in Japan and Europe who themselves were running less than

a watt. Under the proper conditions it is amazing what just a little power can do.

Just how low can you go and still be heard? John Ceccherelli, N2XE, has been running some interesting experiments on 40 and 80 meters the last few weeks. John sets up his QRP rig as a beacon on either 40 (7235.5 kHz) or 80 (3545.5 kHz) meters and has been asking for reports. He has been posting his schedule and the results of stations that copied him the night before on the QRP Internet mailing list.

John picks a band and how much power he is running and puts it out on the reflector. His beacon runs from sunset to sunrise and gives his call, his power level and a "code word". The code word has usually been some city. When you email your report you have to tell him what the code word was to prove you actually copied the beacon.

So, how much power has his beacon been running? Sometimes he runs a big signal, 100mw (1/10 of a watt). When he does, quite a number of stations have been able to hear the beacon. Sometimes he runs quite a bit less with fewer stations making the grade. The lowest power I have been able to copy was 0.020 Watts. At a distance of about 470 miles to the transmitter in New Jersey, that comes out to something like 23,500 miles per watt! Other stations have done much better.

I am listening for him as I write this (1/2/05). The beacon is on 80 meters and running 0.00004 watts (40 microwatts). I'm not holding my breath on this one, but you never know!

Special Events Station

De Leon Rediske, K9GCF

Folks making contact with the special event station celebrating Thomas Alva Edison's birthday will receive a nice picture postcard & a beautiful certificate suitable for framing. One needs to send a self addressed stamped envelope, & the QSO number, or if he/she doesn't want the certificate folded, then an 81/2 by 11 envelope.

K9GCF will probably be operating W4LX on 14 Feb. Look for us on 14 or 21 MHz. Seldom do we switch to 28 MHz. We use a 100-Watt rig to a 3-element beam on a tower trailer. That's where I got the idea of the tower trailer. The rig is set up on the grounds of the Ford mansion, a neighbor of Edison. Tours including both the Edison & Ford homes are conducted about every 10 minutes, so we get to see a lot of folks from around the nation.

Fort Myers, FL: Fort Myers Amateur Radio Club, Inc., W4LX. 1500Z **Feb 14**-2100Z **Feb 18**. The Edison Festival of Light and Thomas Edison's birthday. 28.430 21.330 14.250. Certificate. Ft Myers Amateur Radio Club, PO Box 61183, Ft Myers, FL 33906. <http://fmarc.net>.

Minutes – Dec. 8th, 2004

De Carol Szudrowitz, KC9CBC

Announcements – Elmering is important to encourage hams to continue growing their interest in ham radios and their uses/fun. Jim K9QLP commented on how important it is to encourage hams. At the Christmas Parade, 3 hams, who had not been on the air for years were encouraged to do it. They enjoyed the opportunity to be back during the parade.

Herb KC9GJB was introduced as a new member

Chris N9VKC announced he is moving to Sydney, Australia. He made a point of telling how special the ORC is. Walter WA9KFR led him to our club and he enjoyed it tremendously because of the congeniality he found and no bickering. All within the club welcomed him. All seem to enjoy radio as a hobby and promote that aspect. That makes our club special and he encouraged us to keep it that way, also to visit him if we go to Australia.

Program – Jim KA4UPW presented the official results of the Field Day 2004. We were third in 2003 and now second in 2004. Only a club in Huntsville, Alabama beat us. We were number one in improvement with 116% improvement over last year. Jim gave kudos to everyone involved including setups, power supply, operators, publicity, cooks and tear downs. It took everyone's efforts to create such good results. Jim and crew are already tweaking things to see where to improve for next year. Vic KB9UKE said there is a tower available near 80th and Good Hope Rd. that needs to come down. Plans

were made to do that when the weather is cooperative.

Auction – by Chris N9VKC

Business Meeting

Minutes – Approved as printed in the newsletter.

Treasurer's Report – Approved by Nels WA9JOB and seconded by Ed AA9W as presented by Tom AA9XK.

Repeater Report – Nels WA9JOB reported that the work party completed the preliminary installation of antennas and cabling at the Grafton Fire House. Some electrical work is needed but it is ready if the barn is sold. Everything will remain the same until that happens. Then KK&LL will no longer be the receive site. It will be the transmit site and there will be no autopatch after the move. Everything is in good order at this time. Gregg W9DHI presented a bill for previous work.

OZARES – The Drake equipment was sold per Ed AA9W and half of proceeds were donated to the Scholarship Fund.

Scholarship Fund – This is doing well even after it donated the \$1000 Scholarship. Available now 1924 radios and some rare 1940 tubes (3 National SW3), 3 power supplies and pre-selectors - donated by Michael WJ9O and another ham. Check with Ed AA9W for exact information.

Audit Committee – Kent N9WH is chairing that and it should be done by early January.

Nominating Committee – Stan WB9RQR is chairing that. Elections are at the January meeting. Dues must be paid up.

Awards Committee – Jim K9QLP and Gregg W9DHI are taking care of that.

New Business

By-Laws Committee – Tom W9IPR is chairing that. Reminder Elmers are needed for 13 new Tech Class hams. Changes for by-laws are published on the web; new suggestions are in red. So far trustee's duties will remain as they are. Policies and procedures – Suggestion was made that duties be described in another area so that they can be changed easier when necessary.

Comment on extended membership – these members have repeater privileges, auto patch, etc., club membership, the right to hold office, but no voting rights. Also check on secretary duties as it reads that

membership dues are submitted to secretary but we give them directly to the treasurer at this time.

Other comments – **P.E.P. Party** – Chaired by Julia KB9WBQ and Tom AA9XK. The date is set as **Saturday, February 26, 2005** at the Cedarburg American Legion Hall, Peter Wollner Post. Cost is **\$20.00 per person** with the catering done by Klug's Creekside Inn. **Sign up ASAP.**

Meeting Adjourned by Leon K9GCF and seconded by Jim KA4UPW.

Attendance – Vic KB9UKE, Jim KA4UPW, Gary WI9M, Ed AA9W, Jeff KB9QQE, Dave N9UNR, Kent N9WH, Peter KB9URH, Nels WA9JOB, Bernie AA9CI, Gene KB9VJP, Joe AA9HR, Jim K9QLP, Paul KA9RPR, Gary W9XT, Mike KC9GDV, Chris N9VKC, Ed AA9WW, Paul KD9FM, Tom AA9XK, Ray W9KHH, Terry KA9RFM, Roger W9UVV, Mark AB9CD, Bob N9NRK, Julia KB9WBQ, Carol KC9CBC, Tom W9IPR, Paul, KB9WCC, Don AA9WP, Herb WA9UVK, Jim N9WIU, Joe KB9URC, Leon K9GCF, Naomi KC9GSS, Mark KC9GST, Herb KC9GJB, Phil W9PAH, Ben K9UZ, Gregg W9DHI .

Post Everything Party

February 26, 2005

**American Legion Clubhouse
Peter Wollner Post 228
W57 N481 Hilbert Ave.
Cedarburg**

**Cocktails 6:00
Dinner 7:00**

hors d'oeuvres before complete buffet dinner

recognition for spouses

entertainment after dinner

presentation of annual awards

(\$20.00 per person)

Don't forget to bring your usual gag gift
of ham radio or computer "junque"

and

a nice, but not expensive, gift for the ladies exchange too !

!!!!!! Reservations required by February 18th !!!!!

2004 ORC Post Everything Party Reservation Form

Callsign _____ Number attending ____ X \$20.00 = _____

Names of those attending _____

Make your check out to Ozaukee Radio Club and send to -

Julia Nawrot KB9WBQ 10335 N. Grasslyn Road Mequon, WI 53092

Ozaukee Radio Club, Inc

2005 Membership Application/Renewal Form

Call Sign _____ Year first licensed _____ Age _____

Novice No-Code Tech Tech Plus General Advanced Extra

Name: _____ ARRL Member? Yes No

Address: _____

City: _____ State: _____ Zip: _____

Phone No. (day) _____ (evening) _____ Speed # _____

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

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 Magement Community Service Test Equipment Equipment
Repair & Restoration Surfing the net

Full Membership (supports club and repeaters) \$15.00 OR

Club Membership (supports club only) \$7.00

Make check payable to:

Ozaukee Radio Club c/o Tom Nawrot (AA9XK)

10335 North Grasslyn Road, Mequon, WI 53092

The newsletter is available at <http://www.qsl.net/orc/>. (web site version encouraged)

Do you also require a hard copy through the snail mail? Yes No

Spouce's Name: _____ & call sign: _____

Comments: _____

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February 2005

Number 2



The ORC newly elected officers are Tom Ruhlmann (W9IPR), Pres.: Nancy Stecker (KC9FZK), Secretary; Nels Harvey (WA9JOB), Repeater VP, Tom Nawrot (AA9XK), Treasurer and Leon Rediske (K9GCF), VP. Vic Shier (KB9UKE) will continue on the Board as Past President and Ed Rate was reappointed Trustee at the January 18th Board Meeting.

The Prez Sez

By Tom Ruhlmann (W9IPR)

First I want to thank our retiring officers, Vic Shier and Carol Szudrowitz. The duties of the President and Secretary have been demanding these past few years and they as well as the remaining officers have done an outstanding job. While Vic will remain on the Board as Past President Carol will rejoin the general membership to volunteer on the various projects and have fun. The ORC is a group from which I learn and in which I have fun. The ORC is a group of which I am proud to be a member.

At the January meeting I mentioned that I hoped that rather than a few people doing everything we would have a few people getting everybody else to do everything. By that I meant that I hoped everyone would be involved in participating and leading the various ORC activities throughout the year. Greater involvement will result in less work for any one person and more and varied activities, more learning and more fun for everyone.

It appears to me that many members want to be involved. We had a Board meeting January 18th and approved an organizational chart for the 2005 year. What really impressed me is the number of persons who have already volunteered to chair committees, new and old, in 2005. For example:

- Membership – Paul Schumacher
- Pub. Relations – Naomi Potash
- Pub. Service – Jim Albrinck
- Youth Prog. – Mike Yuhas
- Internet – Mike Yuhas
- Roster – Dave Barrow

Several of these committees are brand new and there are still openings on most of them. In addition, there is still a need for chairmen and committee members for the following committees:

- Newsletter editors
- Training Coordinator
- Swapfest (2006)
- Post Everything Party (2006)
- Cornroast
- Club Historian

To get involved, give me a call or let one of the other Board members know.

To be sure it was an exciting Board meeting as we developed a budget and organization for 2005 and then discussed committees and approved two new Policies related to the Trustees duties and the conduct of elections. The organ-

izational chart appears at the end of this newsletter.

It appears to be a great upcoming year offering many opportunities to participate, learn, contribute and make friends. Here's hoping you are one of those getting involved. Bring something for "Show and Tell" next meeting.

Remember, it's a hobby so get involved, learn something and have some fun.

Don't forget the Post Everything Party on February 26th – it's always fun.

Tom, W9IPR

From Secretary KC9CBC

De Carol Szudrowitz

I want to thank the ORC for the opportunity to be your secretary. Tom W9IPR, our new president, said it very well at our last meeting, when you choose to be active in a club it is fun and it helps everyone. Many hands make any job easier so I encourage all to volunteer when someone asks for help.

I thank the board including Nels WA9JOB for proofing my notes so that the repeater information was always clear. Vic KB9UKE our past president, for always working on what was best for the club. Ed AA9W for doing phenomenal job with the Scholarship Fund and keeping records as the Repeater Trustee. Tom AA9XK for spending many hours on budgets and Leon K9GCF for planning programming for club meetings. Nothing, not even the government paper work keeps the board's enthusiasm down for the club and service to the community. We have so many members contributing to our club. Please do not hesitate to volunteer when asked. It is worth it! Sincerely, Carol

Contesting-*THE KEY CLICKER*

De Bob Truscott (W9LO)

A long time ago on a Field Day in Wisconsin there was a radio club known as OZRAD. Within OZRAD there were two groups, the "phone guys and the CW guys". Each of these

groups had two stations. One of the phone captains was W9RXJ, and one of the CW captains was W9LO. (The RXJ guys and the LO guys.) While the best of friends during the rest of the year, RXJ and LO became bitter enemies for 24 hours when the bell rang to start the Field Day competition. And to make it interesting there was always a friendly wager between these guys to see whose team could get the most contacts. At stake was a bottle of Southern Comfort, which LO was accustomed to taking home for most of the early years because the CW mode is inherently superior to the voice mode. But one year the RXJ guys had the audacity to come up with the most contacts and RXJ took the bottle home. This was a huge embarrassment to the LO guys, so LO decided to do something about it. He built the FD key clicker.

The key clicker was a 150-watt rig, all tubes in those days, all bands, CW only. It weighed about 100 pounds. It was great for running up contacts because the key clicks were so heavy that they cleared a channel around the operating frequency. Nice. But the real value of the rig was that the clicks slopped over into the phone segment of the band, making it very difficult for the RXJ guys to work anybody. That settled the competition thing----RXJ never took another bottle home. (Where there is a need, there is a way.) (That's better than shorting out his coax, isn't it?)

Reported Scores:

North American QSO Party–CW

W9LO	374 Qs	126 Mults	Score 47,124
W19M	76 Qs	35 Mults	Score 2,310

CQ WW 160 Meter Contest-CW

W9LO	445 Qs	55 Mults	Score 55,220
W9KHH	83 Qs	31 Mults	
W9XT	81 Qs	36 Mults	Score 6,588

Coming Up in Feb.:

Feb. 5 North American Sprint–SSB Rules in Feb. QST, page 102

Feb. 12 North American Sprint–CW Rules in Feb. QST, page 102

Feb. 12-13 CQ World Wide RTTY WPX Contest Rules in Feb. QST, page 103

Feb. 19-20 ARRL International DX Contest Rules in Dec. QST, page 104.

Feb. 26-28 CQ World Wide 160 Meter Contest—SSB Rules in Jan. QST, page 102

Feb. 26 North American QSO Party—RTTY Rules in Feb. QST, page 103

Have Fun Contesting, Bob, W9LO

Software Review – Morse Runner

By Gary Sutcliffe, W9XT

Have you ever wanted to run a CW contest from a big gun station or a rare DX location with big pile-ups calling you? How about wanting to just brush up you CW skills before Field Day? There is a new program out that lets you get the feel of being at the good end of a pile up or lets you practice you CW contesting skills. The best part is that it is free!

The program is called Morse Runner, and is written by Alex Shovkopyas, VE3NA. It is a contest simulator for those using the N1MM logging program format (another great free program). You can download a copy of Morse Runner by going to <http://www.dxatlas.com/MorseRunner/>.

You set up the program by entering your call and some other parameters. There are a number of messages set up for the function keys, including CQ's, contest exchange, etc. The exchange for the simulated contest is signal report and serial number. You "call CQ" and stations will call you back. These stations will have various signal strengths, tones and speeds, just like in real life. Type in the call, hit a key and the program sends your exchange. Then the other station sends his exchange, which you type in. You can ask for repeats if you miss something. The program keeps score as you go. You don't get credit for a contact if you make a mistake in the call or the exchange.

The program is extremely realistic and has a lot of options. Your CW speed is selectable between 10 and 60 WPM. You can also set the

CW pitch and the receiver bandwidth, and even operate QSK. Band conditions are also selectable. There are options for adding in QRM, QRN, QSB and flutter. There is even an option to have lids calling you!

Activity levels can also be adjusted. Set the activity to 1, and it will pretty much represent good conditions around here with maybe one or two stations calling. Set it to the top at level 9 and absolute bedlam will result, just like operating from some exotic Pacific island.

My only complaint is that on one of my computers I get some thumping sounds on the speakers. It does not seem to be a problem on other sound card/speaker systems.

Morse Runner runs on Windows 9x/XP systems. It is a lot of fun to play around with, and would be a good warm up for the CW ops before the next Field Day.

Tips, Tails & Tools

Printing a new face for a meter? Print it on photographic paper for a really professional look. Use "Spray Mount" artist's adhesive to secure it to the original face.

Thank you,

De Gregg Lengling, W9DHI

Thanks to the gracious donation of web space the ORC website is now on new servers. These should provide everyone with good high-speed access to the newsletters and more. As a courtesy if you are planning any computer or Internet related business it would be nice to steer business his way. The donor is:

Tom Snyder, President
Trivera Interactive, Suite 105
W177 N9856 Rivercrest Drive
Germantown, WI 53022

February 9th Meeting Program

Jerry, K9HXA, will provide us a program on the new digital modes. These include PSK31, and many more. The program is titled **"What you always wanted to know about Digital Modes,but were afraid to ask!!"**

Jerry intends to set up a communications demonstration between two sites within our meeting room. He is to be assisted by Terry Koller, KA9RFM and Jim Albrinck K9QLP

Memories

By Ernie Swanson, K9LO

It seems like yesterday that I was in Wisconsin. Down here in North Carolina, I have a chance to think of my friends up in the Northern Tundra. I do feel that I am still close to you as I can still taste the pizza after the meeting. One tends to take life lightly these days. It is lived one day at a time. Certain things make events stand out in one's mind. Is it that QSO with a friend on the way through? Or maybe it is the excitement of the auction with Stan selling the treasured item. Maybe it is the time spent on a Saturday morning at the club breakfast.

Perhaps, it is making Field Day QSO's at 3:00 AM. It may well be testing out a radio in Nel's basement. I know! Perhaps it is the fun with the guys at Dayton. For each one of you, I have cataloged a memory for myself. It is your selfless personalities that give me a warm feeling on this night. I am taking a trip. I can only see a vision in my own mind. It is still strong. I can see each one of you that has touched my mind during the time that I did get to know you. Though I know some of you better than others, I still have been touched by your camaraderie and your generosity. I feel sorrow with the passing of a fellow club member. I feel happy when I hear that everyone had a good time at the post everything party. This is written from afar.

In my hand, I am holding a QSL with a picture of a retired engineer on it. His station sounds as strong as the picture suggests. This person went out of his way to break a net that I was on so he could communicate with me. He did this out of friendly kinship. This wonderful person gave me just one more memory for me in North Carolina to remember. I have not mentioned his

name or his call as I do not want to embarrass him.

I do get some correspondence from Nels. He tries to keep me up to date with the shop gossip and pictures of what is happening. Nels and I have worked together a long time and I do miss working with him.

As a thought, maybe one day you will be separated from your friends. Remember they are as close as your memory. Think nice thoughts and the memories will reward you. Thank you for a happy small part of my life.

God Bless You

PS: I will miss you at the Swapfest

How to Organize Your Data For Backup Purposes

by Stan Kaplan, WB9RQR

In the last article, I again briefly mentioned how to organize your data for quick, painless backing up. However, just the last month, I have had at least half a dozen queries that resulted in my discussing this topic. In each case, after I explained the process, the listener said, "gee, that makes a lot of sense - I will follow your suggestions". So here is the topic expanded a bit and presented as clear as I can make it.

With the focus we are taking here, you have essentially two kinds of files on your computer, no matter how you use your machine.

The first kind are program files, also known as application files. Let us consider a couple of examples. For purposes of this discussion, we'll consider Windows (whatever version) as a program. Also, Microsoft Word is one. Your graphics editor is another. Your browser is another. All of these are really suites of many files. They consist of at least one executable file (*.exe or *.com), and a whole raft of ancillary files - device drivers, program data files, setup files, settings files, dynamic link libraries, and so on. There are easily hundreds of such files for Windows itself, and many dozens of files for Word. Graphics editors almost always have one to two dozen, and browsers (Netscape, Internet Explorer) have even more.

The point is that you do not need to, nor should you, take the time or media space (floppy, CD-ROM, tape) to back them up. You should have the original CD-ROM's for your applications. If you bought a computer with all these programs installed and didn't get the CD-ROM's, you were cheated! You paid for the programs and are entitled to a copy on CDs. Contact the seller and get them. Assuming you were given the CDs (as is proper), you can always reinstall the application if something goes wrong, so you don't need to back them up. Actually, reinstallation is the preferred way to recover when things go wrong, because simple ----- *copied from and continued in the web edition of the Badger State Smoke Signals at www.bsos.org*

Upgrading

So who upgraded to "General Class" this month? It was Naomi Potash. After she passed her General theory exam in January, she was informed that if she could prove she had previously passed a 5-wpm code test she would be awarded her General. She proved she previously held a Novice Class license while in college and that was sufficient to merit her upgrade to General. Looking forward to hearing you on HF Naomi. Now it's Marks turn.

Upcoming Events

February

5th - North American Sprint – SSB Contest

February 9th – Membership Meeting

12th - North American Sprint – CW Contest

12th - CQ World Wide RTTY WPX Contest

14-19th School Club Roundup

13th MRAC FM Simplex Contest

19th ARRL International CW DX Contest

26th Post Everything Party

26th – 28th – 160 Mtr. SSB Contest

March

2nd South Milwaukee Auction

5th ARRL International Phone DX Contest

9th Membership Meeting

20th Hamfest @ Fort Atkinson

Wisconsin QSO Party

Club Static

From: Kyle (N4NSS) [mailto:n4nss@yahoo.com]

I would like you to tell the guys at the next meeting that I would like to be a distant member. The only activity that I plan on participating in would be Field Day. The statement below is why I join, and you can quote me when you announce new members at the next meeting. **"The ORC is comprised of a great bunch of Hams. They are not replaceable anywhere else. I will be honored to be added to the roster of the ORC."** I have a check in the mail with my application but, I don't know if it will make it by the next meeting. You can use the picture on my website if you want because some members may not know me.



Ed Rate, AA9W, is shown here with a 1920's transmitter he used on straight key night (very late at night due to potential TVI).

The Club received a home brew single tube CW transmitter from the estate of Fred Lynn. You may recall that Fred came to a meeting and shared some of his knowledge about telegraph keys with us and demonstrated some of the keys from the Pony Express era. Fred had built the transmitter from a design in the 1920 ARRL Handbook. Because the tube was missing and

an unknown, Ed rewired it to accept an 807. Ed used it very late at night on "straight key night" to make a couple of contacts before anyone could call the TVI cops. He was running about 20 watts on 80 meters and Hollingsworth only knows wherever else.

From: Chris Jacobs (N9VKC)

Well it's a bit warmer down here in Australia - well maybe more than just a bit. 33 C right now. At any rate I don't have a new call yet but will soon. I'll keep ya posted. Chris Jacobs N9VKC Castle Hill, NSW. Australia



Nancy Stecker, KC9FZK, demonstrates her new letter holder.

The bidding was hot and heavy - \$.50 at a time until it finally got beyond my means and I then realized that Nancy Stecker won the prize – a B&W 500 watt swing link coil. I couldn't resist and had to ask her what she was going to do with that beautiful coil. She agreed that it was a thing of beauty and proceeded to demonstrate how it can be used to hold letters.

Paul Schumacher, KD9FM, had a great time at the swapfest in the Waukesha Expo Center. He sold his excess final amplifier and found deals on a Heil microphone and an FT-50 HT.

Paul, KD9FM, checks the catalogs for his next purchase while he monitors his "stuff" awaiting someone who will make a "find".

Just Another Shack

De Steve Stevens (K9DXT)

Tom Nawrot (AA9 XK) got his start in Ham Radio in 1996 like a lot of others by listening to a scanner that was capable of pulling in the 10-meter band. He listened long enough that he got hooked and got his license in 1996 and also became a member of ORC the same year.

Tom took over as the Club Treasurer from Gabe Chido in 2002 and also serves as an Assistant Emergency Coordinator for the local ARES group – OZARES.

Tom enjoys building kits especially those by the Northern California QRP Club (NORCAL) and Elecraft. With the low power gear he can operate from the backyard, family room or the kitchen table.

Tom and his bride Julia (KB9WBQ) currently live in Mequon and both work in Pewaukee. They are contemplating a move to a condo in that area- condominium = radio minimum.

In early September, Tom operated QRP from the Boundary Waters Canoe Area in Northern Minnesota. From a remote campsite, he made CW contacts with three club members' back here in Ozaukee County on his 2-watt Norcal 40 meter rig, a random wire and the famous "paddle-paddle".



Tom, AA9XK, operating his "paddle" QRP from VE land

Tom enjoys making SSB contacts with Spanish speaking operators, especially in Chile where

his bride Julia is from. Tom speaks Spanish fairly fluently after having lived in South America as a Peace Corps Volunteer in the early seventies.

Tom's most memorable contact was a SSB with an Argentine sailing schooner in the mid-Atlantic Ocean.

Yes, Tom is still working on putting together the Elecraft K2 HF radio bought during their first trip to Dayton in 2002 and they're looking forward to making "maritime mobile" contacts on the K2 from their Seward Fox, cat rigged, 20 ft sailboat they bought recently.

Minutes – Jan. 12th, 2005

De Carol Szudrowitz, KC9CBC

Meeting was called to order at 7:30 by Leon, K9GCF as Vic, KB9UKE was out of town.

Announcements – Election of officers is tonight. **To participate in voting**, one needs to have 2005 dues paid. The next upcoming event is the Post Everything Party on Saturday, February 26, 2005.

Jim K9QLP informed all that he is **collecting old no longer used hand held cell phones** along with the chargers. These are being reconditioned and recycled for donation to battered women at various women's shelters. Analog phones are OK but no bag phones. The phones are to be used for emergencies.

Mark AB9CD handed out a FM Simplex Contest sheet. He encouraged all to enter. It is on the afternoon of Sunday, February 13, 2005. Points can be donated to the club.

Election – Stan WB9RQR, as part of the Nominating Committee, asked if there were any nominations from the floor for any office. Gary W19M moved to close nominations. Mike KC9GDV seconded it. Gregg W9DHI made a motion to accept the slate of officers as presented on a printed list (only one person per office). Kent N9WH seconded this. With a show of hands, club members present voted unanimously to accept the slate.

President – Tom Ruhlmann W9IPR
Vice President – Leon Rediske K9GCF
Repeater VP – Nels Harvey WA9JOB
Treasurer – Tom Nawrot AA9XK
Secretary – Nancy Stecker KC9FZK

Show and Tell – Ed AA9W showed a rare 1920's ham transmitter that worked on two bands. It is refurb-

ished and in working order. Contacts were made with it, and a comment was that it had a bad chirp.

Gary W19M discussed the antenna he will be using on an upcoming cruise through the Panama Canal. One needs an international permit and OK from the cruise ship. Your call sign includes the suffix of the country you are in at the time of transmission.

Leon K9GCF discussed a Special Events Station. On February 14 he will be transmitting from Miami, and the Thomas Edison home on Feb. 5.

Steve K9DXT recommends a great book for hams to read *Hello World*. It is an unusual biography of Jerry Powell using all the QSL cards he received during his life.

Fellowship and then Auction by Stan WB9RQR. **Business Meeting**

Secretary Minutes – Accepted as printed in newsletter.

Treasurer's Report – Moved and accepted as printed in the handout on the tables.

Audit Committee - Kent N9WH, representing the committee said that everything is OK and everything balances.

Repeater Report - Nels WA9JOB reports that the 220 repeater is working OK. Bernie AA9CI listens faithfully and no one uses it. 440 is also working OK and since Chris, N9VKC left it is not being used a lot. Saturday a work party is planned after the 7:00 AM breakfast at the Prime Minister. Peter KB9URH is donating his time and expertise to help do wiring for equipment for the future link site at the Grafton Fire House. The Fire Department will pay for the materials. You are invited to help pull wire and do what ever else needs to be done.

OZARES – Jon KB9RHZ was not present. Stan WB9RQR said the practice sessions, set up by Skip KA9DDN, at the hospital using the cross band repeater are invaluable. One needs to practice so join us when possible. Simplex doesn't work there due to the materials within the walls for specialized equipment.

Committee Reports

Post Everything Party – Remember to sign up. It is to be held at the Cedarburg Peter Wollner American Legion Post on Saturday, February 26, 2005. Cost is \$20 per person. Contact Julia KB9WBQ or Tom AA9XK.

Scholarship Fund – Ed AA9W is excited. He has many donated items again on his pool table, especially from the Fred Linn, W9NZF donations. An old National SW-3 radio, and power supply sold for about \$300. He is researching items (such as DeForest Audiotrons, rare Stewart Warner radio) to be sold on eBay and to Antique Radio Clubs. Check with Ed for more specifics.

Tom W9IPR had Jim KA4UPW, Carol KC9CBC, Nels WA9JOB, Stan WB9RQR, and Jim K9QLP stand. He acknowledged them and the others that have contributed to the newsletter. This is what makes it interesting. Tom welcomes the privilege of being the ORC President. As our president he is also encouraging members to become more actively involved in the club. This is what makes it fun. He noted that a good percentage of the members are at the technician stage of licensing so we should have programs that are helpful to them. Also to encourage service we could have a Public Service Coordinator and a Public Relations Coordinator year around.

Old Business

Waubedonia Shelter can be rented for the Corn Roast at \$70. Gregg W9DHI made a motion to pay the rental fee and Bernie AA9CI seconded it. Motion passed.

New Business There was no new business.

Gregg W9DHI reported that Mike KC9GDV has moved the club website to the Trivera website. This is at no cost to the club. Gregg is the volunteer Webmaster and a new re-mailer will be set up.

Attendance – Mike KC9GDV, Kent N9WH, Dave N9UNR, Ed AA9W, Ted KB9RLI, Nels WA9JOB, Gregg W9DHI, Jim K9QLP, Bernie AA9CI, Joe, AA9HR, Jim N9WIU, Ray W9KHH, Jeff KB9QQE, James KA4UPW, Andrew, Steve K9DXT, Terry KA9RFM, Tom W9IPR, Mike WJ9O, Joe KB9URC, Herb WA9UVK, Naomi KC9GSS, Mark KC9GST, Gary W9XT, Ron W9BCK, Paul KD9FM, Tom AA9XK, Mark AB9CD, Julia KB9WBQ, Carol KC9CBC, Nancy KC9FZK, Jane KB9SYI, Stan WB9RQR, Gary WI9M, Leon K9GCF.

Board Meeting Minutes Summary – January 18th, '05

The Board Meeting was called to order at 7:00pm by Tom Ruhlmann (W9IPR) at his home. Board members in attendance were Tom Ruhlmann (W9IPR), Leon Rediske (K9GCF), Nels Harvey (WA9JOB), Nancy Stecker (KC9FZK), Tom Nawrot (AA9XK) and Ed Rate (AA9W).

After discussion of the organizational chart of committees under the leadership of officers presented by Tom Ruhlmann (W9IPR), Nels Harvey (WA9JOB) made the motion to accept the chart as revised. Ed Rate (AA9W) seconded the motion and the motion passed.

Policy and Procedure #2 was revised regarding a donation to the scholarship fund in a deceased mem-

ber's name. Motion made by Leon Rediske (K9GCF) to accept change, seconded by Nels Harvey (WA9JOB). The motion passed.

A change of a word to "Directors" and elimination of the word "Association" in Policy and Procedure #4 was discussed. Ed Rate (AA9W) made a motion to accept the changes; Nels Harvey (WA9JOB) seconded the motion, the motion passed.

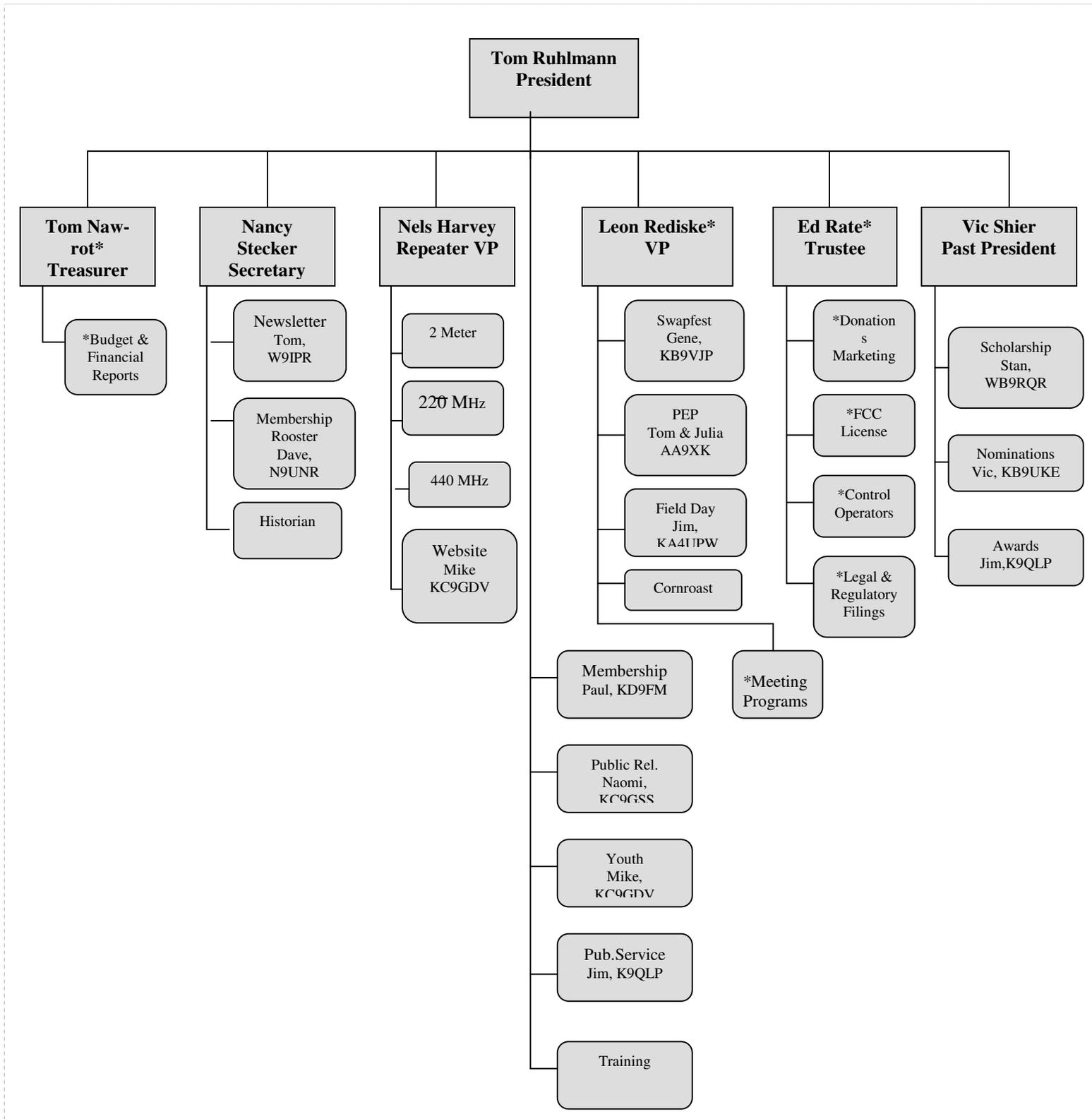
In Policy and Procedure #5, "full or family member" replaced the word "voting". Also, the turning over of duties of newly elected officers will begin after the closing of the regular meeting at which they were elected. Motion made by Tom Nawrot (AA9XK) and seconded by Leon Rediske (K9GCF) to accept changes. The motion was discussed and passed.

Tom Ruhlmann (W9IPR) made a motion to present the budget as prepared to the membership at the next regular meeting for approval by the membership. Seconded by Nels Harvey (WA9JOB), the motion passed.

Nels Harvey (WA9JOB) made a motion to adjourn meeting. Leon Rediske (K9GCF) seconded the motion. Meeting adjourned at 9:30pm.

Nancy Stecker (KC9FZK) Secretary

Ozaukee Radio Club - 2005



AGENDA

February 9, 2004

1. Call to order – Tom (W9IPR)
2. Introductions.
3. Announcements, Bragging Rights, Show and Tell
- Upcoming events, Etc.,
4. Program:
5. Fellowship Break
6. Auction.
7. Acceptance of Minutes
8. Treasurer's report – Tom (AA9XK).
9. Repeater report – Nels (WA9JOB)
10. OZARES report – Jon (KB9RHZ).
11. Committee reports.
 - Membership
 - Swapfest
 - PEP
 - Youth Programs
 - Web Site
 - Public Relations
12. OLD BUSINESS
13. NEW BUSINESS.
 - Budget Approval
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, Feb. 9th

7:30 PM



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 XXIV

March 2005

Number 3

The Prez Sez

By Tom Ruhlmann (W9IPR)

I must say that my first meeting as President was indeed exciting and encouraging. We had a series of problems and they were all solved by other than me. First we were locked out of the meeting room so Ron called the Grafton police who made arrangements to have us let in – meeting on schedule. Then we had a PC projector, but no power cord. As the meeting progressed, Gregg got us another PC projector from Colders - but then the interface cables had the wrong connectors. At this point Mark went to his car and found a correct set of cables. Program on schedule. To me it's a sign of a great organization when problems are encountered, no one gets flustered and then the problems are resolved by willing individuals eager to make the show go on without a ripple. And that it did. Thanks to all involved.

The program as given by **Jerry (K9HXA)** and it was really excellent. Every thing I wanted to know about Transceiver to PC digital interface units. These are the electronic units which connect your radio to your computer and which allow you to run SSTV, PSK-31 and a host of other digital modes of operation. I especially appreciated his review of the available commercial interface units and the SSTV demonstration he provided with the help of **Terry Koller (KA9RFM)**. A really worthwhile program Thanks to Jerry and Terry.

I was especially encouraged by all the discussion generated during the Youth Committee report and suggestions of how to create and cultivate a youth group within the ORC. The future of the ORC lies in getting youth interested. This will be a real challenge for **Mike Yuhas (KC9GDV)** and his committee – Be sure to help them in their efforts.

The auction was about the largest I have seen in my years as an ORC member. Special thanks to **Mark Kachel (N9OKS)** who really cleaned out his shack and brought his “treasurers” to meeting for **Stan (WB9RQR)** to auction. The material auctioned was the length of the bowling table and a foot deep. The Scholarship fund and buyers benefited greatly – some more than others. Nice auction Stan – you moved every last item and nothing went to the dumpster.

I was also impressed with Naomi and Mark Potash of the Public Relations Committee. They got mention of our ORC group elections etc. in the Feb. 7th edition of the News Graphic. They have also gotten the interest of FOX news for possible coverage of field day. Nice job.

I sent the listing of committees and openings around for review and sign-up however, then it was lost somewhere in the shuffle. Therefore, if you signed up for a committee would you give one of the Board members a call to confirm it. I am asking Mike Yuhas to post the committee list on the Web site so you can review it at any time and decide how you can best participate.

As of the meeting I realized we have some jobs that need doing on meeting night. One of the important things that must be done is to arrange the chairs and tables, empty the trash, turn out the lights and make sure the doors are locked when we leave – you will be the last person to leave, will you do it? If so, give Leon or myself a call and confirm.

I must apologize for having missed the Post Everything Party – we went to Texas and missed the fun. This and field day have always been the two social high lights of the year for Pat and I.

Remember, it's a hobby so get involved, learn something and have fun.

73's

Contesting

De Bob Truscott (W9LO)

THE BIG ONE

Yep, it's the big one again. The Wisconsin QSO Party. March 13, 12:00 N to 7:00 PM, local time. Phone/CW, all bands 80 thru 2 meters (Except for the WARC bands). Work any station once on each band in each mode, and mobiles as often as they move to new counties.

This is a fun contest, and has been very popular with OZRAD for many years. I remember, perhaps 7 or 8 years ago, going out with WI9M in his van, along with several other guys. As I recall we had CW and SSB on the HF bands, and SSB on VHF simultaneously. Sorta like Field Day on wheels. The VHF station was at the front of the van, HF SSB in the middle, and CW directly over the wheels in the back. I shared the CW chores with Gary, and I have to say it was a real challenge to make ourselves understood----I'm sure we both came across as a couple of LIDS to the people who tried to copy us from their home stations. (Or maybe that's the way we always sound.) It's difficult to work a paddle when your backside is bouncing 3 or 4 inches off the seat. Until that time Gary never realized that his rear wheels were square. Oh yeah, I forgot to mention that the temperature was in the teens and that the warm air from the heater got down to about 20 degrees by the time it got to our position. Nels, on the other hand, was cozy warm at the VHF station in the front seat. No wonder he volunteered to drive. We had a great time that day, and scored very well. Try it sometime, you'll like it.

Coming up in March:

Mar. 5 ARRL International DX Contest—Phone—Rules in Dec. QST, page 104.

Mar. 13 Wisconsin QSO Party--Rules in March QST, page 92 or www.warac.org.

Mar. 26 C Q WW WPX Contest—SSB----Rules in March QST, page 93 or www.cqwp.com.

Have fun contesting.
Bob, W9LO

Just Another Shack

De Steve Stevens (K9DXT)

Our victim this month is **Jim Hilins (KA4UPW)** who along with his family comes to us by way of Ft. Lauderdale, Fl. The K4 in Jim's license comes from getting his first ticket in Virginia in 1980. Jim is currently employed at General Electric Corporation.

Along the way Jim attended Georgia Tech where he became "A rambling wreck from Georgia Tech and a hell of an engineer" when he received his bachelors degree in electrical engineering. Since that time Jim has taken some post-graduate courses in electrical engineering and MBA classes. Jim feels that getting his General class license at an early age spurred him on to a career in electrical engineering.

Jim got into the hobby in the 1970's. He was big into CB and got tired of the trash. When a son of a neighbor (who was a ham) started Ham classes Jim jumped in also to get his license. Jim was a freshman in high school or in late middle school. He now holds an Extra Class License.

Jim enjoys making casual DX contacts on HF, Field Day contesting, and experimenting with antennas or helping others with any of the above. Jim doesn't remember his longest QSO but he received his RCC (Rag Chewers Club) award as a novice CW operator. Jim is among the lucky ones who worked the space shuttle Challenger. He was able to make his contact with a minimum amount of equipment that consisted of a 2 watt HT and a homebrew antenna. Others were using big dollar Doppler compensated rigs, beam antennas and tracking software (Commodore 64's). Jim encourages we "no code Techs" to give it a try and we might show the extra's a thing or two.

Jim's current equipment list consists of a mix of second hand and dumper diving (picked his HT out of the garbage). For HF he uses an iCom 756 and various homebrew stuff (been spending time around Nels). He has a homebrew ATV transmitter and all kinds of experimental stuff. Be aware at the Post Everything Party.

His other activities and interests include antique radio (tube type) collecting and restoration, Model T restoration, surfing and participating in his son's scouting activities.

Upcoming Events

Dave, N9QA, reminds everyone to mark your calendars for the upcoming Wisconsin QSO Party from 1800 Zulu on March 13 to 0100 Z on March 14. Full contest rules, entry blank, etc. are available on the West Allis Radio Amateur Club Website, www.warac.org.

March

- 2nd South Milwaukee Auction
- 5th ARRL International Phone DX Contest
- 9th **Membership Meeting**
- 20th Hamfest @ Fort Atkinson
- 13th & 14th Wisconsin QSO Party
- North American RTTY Sprint

April

- 1-2nd **AES Superfest**
- 5th **Board Meeting**
- 13th **Membership**
- 16th Grayslake Swapfest
- 17th Madison Swapfest @ Stoughton
- Technician Class training class begins**

May

- 7th **ORC Swapfest at Circle B**
- 11th **Membership Meeting**
- 20-22nd Dayton Hamvention

Club Static

Late Breakfast

It's never too late for breakfast and these are some of the usual attendees at the 8 AM "late breakfast" at the Family Restaurant – Bowling Alley in Grafton on Washington Avenue. Sleep in awhile and join them for some interesting discussions.



At the "late breakfast" this Saturday were Bill (AA9OS), Ted (N9LLT), John (W9FAD), Gerry (KB9IMH), Jim (K9QLP), Dave (N9QA), Bernie (AA9CI) and Sandy (W9BTN)

Repeater Site

Work continued at the Grafton fire house as we completed the installation of the electrical system supplying this repeater site with generator backup in the event of emergencies. All that remains is installation of a remaining antenna.

Many of the members have been involved in this installation and it has been a learning experience for all.



Peter (KB9URH) Schmidt of Schmidt Electric is shown here measuring and cutting conduit in the completion of this repeater site – electrical hook-up.

“Break Queen”



Julia Nawrott, our “Break” queen

Julia Nawrott (KB9WBQ) has been bringing the coffee, pot and treats for the break for these past 3 years. She is now working late on Wednesday’s and will no longer be able to do this. It would be best if two individuals rather than one performed these two tasks. If we are to have coffee, we need someone to assume that responsibility. If you can do it, call Julia and she will give you the “pot” and instructions. No “coffee chef, no coffee”.

If someone would like to assume responsibilities for the snacks, again contact Julia for instructions – “No snack chef, no snacks”.

Perhaps these jobs should be rotated – volunteer as committee chairman and do it as you see fit.

RF Field Strength – How Indicated?

De Tom Ruhlmann, W9IPR

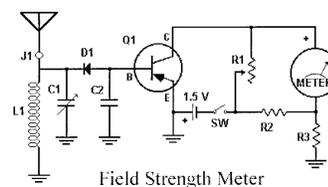
Typically a project is born of having some parts or test equipment that needs to be utilized as opposed to need. However, an interesting and economic project that has many uses is that of a Field Strength Meter.

It can be used to indicate the strength of an RF field radiated from an antenna during transmitter tune-up or testing. Depending on how it is designed and it’s sensitivity it can also be used to sniff out RF in the shack and to indicate the approximate frequency of a detected RF field.

My project started with having a grid dip meter and signal generator that needed to be used to calibrate something. There upon I decided to build a field strength meter and would use the grid dipper to wind the coils for a tuned circuit input and the signal generator to calibrate the tuning dial for frequency.

The schematic is pretty basic, just a few resistors, a diode, one transistor, one fixed and one variable capacitor plus coils and a meter plus a few switches and a battery of course. The schematic follows but can also be obtained at

www.geocities.com/ResearchTriangle/Lab/1635/circuits/circ01.html



Once the components were gathered I elected to use the case & meter from an old RCA VoltOhmist VTVM to house the project. While the case resulted in a good looking instrument, the hole locations and internal clearances dictated excessive distance between the variable capacitor and coils of the tuned input circuit and this limited the highest frequency that could be tuned. The frequency was further limited by the choice of a 100 mmf variable capacitor. While this allowed use on the 160 Mtr. band it limited the high frequency response to about 25 MHz.

The controls are from left to right: Band Switch, Sensitivity, Power Sw, BNC “Sniffer” connection and Frequency tuning dial. The Band switch also contains a broad band

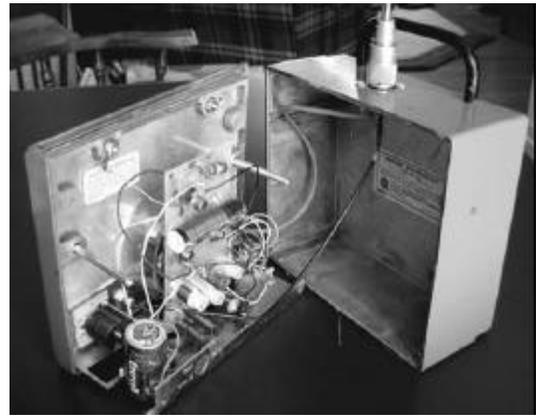
(BB) position that eliminates the tuned circuit so the instrument is not frequency sensitive.



The HF Field Strength Meter is shown here with the antenna connected at the PL259 connector on top of the case. A 2-turn “sniffer” coil on a 3’ piece of co-ax can be connected at the front panel BNC connector.

The meter face was modified to contain the calibration of the variable tuning capacitor dial in MHz. The calibration table was created in Excel and then printed onto photographic paper. This was then trimmed and secured to the original dial using an artists spray adhesive. Looks great.

What would I have done differently? If space allowed, I would like to have been able to use a two gang 50-50 mmf variable capacitor then I could have switched to the smaller capacity and tuned the higher frequencies as well.



As seen in this interior view a circuit board was mounted to the rear of the meter and supports the coils and electronic circuitry.

It is also advisable that when calibrating the frequency dial that the instrument be within the case in that the metal case will affect the resonate frequency of the tuned circuits. Also, use minimum coupling between the signal generator and FS Meter output when calibrating the instrument to increase accuracy and minimize the response of the circuit to harmonics.

Does it work? Yes. Was it fun? Yes, and it gave new purpose to some of my junk box parts.

Minutes – Feb. 9th, 2005

De Nancy Stecker (KC9FZK)

The meeting was called to order at 7:35 by Tom W9IPR.

Bragging Rights – Vic KB9UKE announced that he repaired a 1947 Philco radio and proudly stated that this was the first time he completed an electronic restoration totally by himself.

--Naomi KC9GSS has received her General ticket.

--Ron W9BCK is a member of OOTC, the Old Old Timers Club. You must have had your first radio contact at least 50 years ago to become a member.

Show and Tell -Tom W9IPR brought his tuned circuit field strength meter built with very inexpensive parts.

Upcoming Events in March –South Milwaukee Auction, ARRL International Phone DX Contest, Hamfest@ Fort Atkinson, Wisconsin QSO Party, North American RTTY Sprint.

A chart was passed around with volunteers needed for the following committees: **newsletter, historian, repeater, youth programs, membership** and a training coordinator.

Business Meeting

Board of Directors - It was announced that the Board had considered and voted to accept several changes in policies and procedures, as were printed in the February newsletter for the membership at large to view. These changes stand accepted as they were printed.

Treasurers Report –Accepted as printed in the handouts distributed at the meeting.

Repeater Report – Nels, WA9JOB is working on the radios for the future transmit site for the 146.97 repeater. He needs to find a two inch steel pipe, possibly 15 to 20 feet long, to support a Two Meter antenna at the Grafton Firehouse. This would be used to augment reception in the greater Grafton area after we lose our present repeater site. The 220 and 440 MHz. repeaters are working fine, but still get little use.

Committee Reports

Membership – Paul, KD9FM plans to identify hams in Ozaukee County who may be potential members. He will send letters to them to see if they are interested in joining the Ozaukee Radio Club.

Swapfest-Gene, KB9VJP will be working on flyers to advertise the swapfest and will send letters in April to potential table sponsors..

Post Everything Party- Julia, KB9WBQ and **Tom, AA9XK** are seeking members who have not yet made reservations to attend the PEP on February 26, 2005.

Youth- Mike, KC9GDV is newly appointed to the committee. **Ron, W9BCK** would like to see more youngsters brought into the club. **Julia, KB9WBQ** suggested the radio-computer link might be of interest to youngsters.

Web Site –Mike, KC9GDV reported the new host site works flawlessly. He would like to put club history and other interesting items on the web site. Gregg, W9DHI is checking into re-mailing options that would not require additional fund expenditures.

Public Relations –Naomi, KC9GSS has contacted local newspapers to see if they would be interested in carrying articles on club activities. A photo of new officers and an article appeared in the February 7, 2005 News Graphic. She suggests putting radio related magazines, with Ozaukee Radio Club stickers affixed, in waiting rooms and other sites. An AES sign-up sheet was passed around.

Awards Committee –Vic, KB9UKE asked for nominations for the Ham of the Year and Turkey of the Year awards. He also announced the old, moth-eaten (real, stuffed) turkey is no longer in existence.

Training- Tom, W9IPR would like to offer another Technician training course. He has accumulated a Power Point presentation that can easily be used to present the course. He has plans to develop a General Class course, as well.

Old Business –There was no old business.

New Business –There was no new business.

Copies of the proposed budget for 2005 were on the tables for members to examine. Expenses

were projected to be about \$7,700 and income expected to be \$8,100.

Ted, N9LLT moved to adjourn the meeting, and **Gary, WI9M** seconded the motion. It was unanimously accepted, and the meeting was adjourned..

Program –Jerry, K9HXA presented a program on digital communications called “Everything You Always Wanted To Know About Digital Modes But Were Afraid To Ask”. He brought copies of an article from the November 2000 QST magazine that explained how simple to make and inexpensive a digital-mode interface can be. Jerry’s power point presentation was filled with information that proved the article to be correct. Rig Blasters and related equipment comes in a wide price range and new software is constantly on the market. We heard about common problems with digital transmitting and what to do to deal with them. Not only did we see photos of Jerry’s own rig, we saw an actual demonstration. Terry, KA9RFM brought his rig and used it to send pictures to Jerry’s computer and from there onto the screen. Be sure to talk to either if you would like to hear more about new ways to interface your radio and computer.

Fellowship –The president announced the need for someone to take over the job of setting up coffee and treats for the fellowship segment of the meetings. **Julia, KB9WBO** is unable to continue because of other commitments on Wednesday evenings.

Auction –Stan, WB9RQR auctioned donated items from several sources.

Attendance – Jeff WB9PZD, Gary WI9M, Dave N9UNR, Ed AA9W, Nels WA9JOB, Kent N9WH, Muhammed KC9CPC, Bernie AA9CI, Jim N9WIU, Herb WA9UVK, Ben K9UZ, Wil KB9HHR, Mike KC9GDV, Ray W9KHH, Bob W9LO, Ron W9BCK, Gary W9XT, Mark N0OKS, Terry KA9RFM, Gerald K9HXA, Bob N9NRK, Mark KC9GST, Naomi KC9GSS, Nancy KC9FZK, Carol KC9CBC, Julia KB9WBQ, John KC9FJX, Mark AB9CD, Gene KB9VJP, Tom AA9XK, Ted N9LLT, Dan AA9QR, Ron KC9DKQ, Paul KB9WCC, Paul KD9FM, Gregg W9DHI

AGENDA

March 9, 2005

1. Call to order – Tom (W9IPR)
 2. Introductions.
 3. Announcements, Bragging Rights, Show and Tell
- Upcoming events, Etc.,
 4. Program:
 5. Fellowship Break
 6. Auction.
 7. Acceptance of Minutes
 8. Treasurer's report – Tom (AA9XK).
 9. Repeater report – Nels (WA9JOB)
-
10. OZARES report – Jon (KB9RHZ).
 11. Committee reports.
 - Membership
 - Swapfest
 - PEP
 - Youth Programs
 - Web Site
 - Public Relations – AES Superfest
 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, March. 9th

7:30 PM



The *ORC* Newsletter

Official publication of the Ozaukee Radio Club, Inc. Mail all contributions to the editor, Tom Ruhlmann, W9IPR, 465 Beechwood Dr., Cedarburg WI 53012 (phone 262 377-6945). Permission to reprint articles published in any issue is granted provided the author and the Ozaukee Radio Club Newsletter are credited.



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

Volume XXIV

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 4th St. NE
Stewartville MN 55976

Then, out of the clear I get a call from Laurie Ar-
endt who is a reporter for the News Graphic.
She requested an interview so she could do a
feature article in the March 24th 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 16th – 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 sci-
ence 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 young-
sters 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 23rd. 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 13th with back to back swapfests on April 16th and 17 and the start of the Technician Class training at the Justice Center on April 23rd.

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

1-2nd AES Superfest

13th Membership Meeting

16th Grayslake Swapfest

17th Madison Swapfest @ Stoughton

23rd Technician Class training class begins

May

3rd Board Meeting

7th ORC Swapfest at Circle B

11th Membership Meeting

20-22nd 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”.

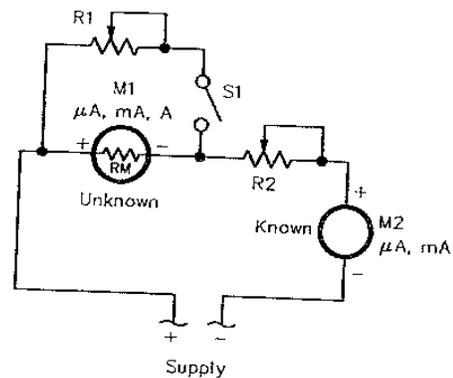
When you see Roger say hello and like many members of the club he has a wealth of knowl-

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

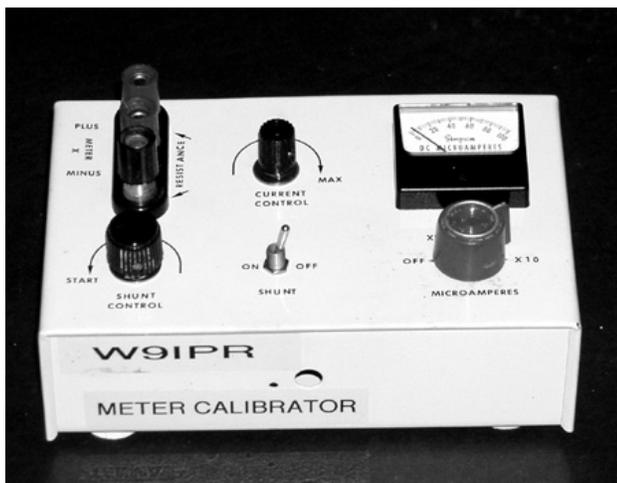
the unknown meter and measure the resistance of R_1 . This is the value of the meter resistance (R_m) and can be used to calculate resistance of a shunt (R_s) required to increase the value indicated at full-scale deflection. The value of resistance for a shunt R_s would be calculated as:

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

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).
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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 ?

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, April 13th

7:30 PM