



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:
<http://www.qsl.net/orc/>**

Volume XXI

Aug. 2002

Number 8

The Prez Sez

By Leon Rediske K9GCF

This month the ORC event is the Corn Roast at Waubedonia Park beginning around 11 AM. That's west of Saukville on Hwy. 33, about midway to county "1" going west. The date is Saturday the 17th. The food committee is planning a fine picnic, so bring a dish to pass; a couple of chairs, your wife/significant other, and come out for all the fun. The club provides liquid refreshments, and some finger foods, but most especially the CORN. I'm thinking of all that corn with butter dripping off, golly that's good!

Wasn't that program on Internet linking something interesting? I hope you all have had a chance to listen to it, and have seen what it can do. Have you tried it yet? 146.850 is the frequency.....

The new modes keep coming along like PSK, Internet Linking, Clover, and a zillion more. They are surely fun, and keep us on our toes learning what's new. What's your favorite new mode?

73's for now, and see you all at the ORC meeting, 7:30 PM August 14th

Upcoming Events

8/10/02- Circus City Swapfest-Baraboo
8/17/02 ORC Corn Roast - Waubedonia Park - 11 AM. That's west of Saukville on Hwy. 33 – For a good time, be there.
9/21-22/02 – FM Club Swapfest-Grayslake IL
11/02/02-MRC Swapfest – Waukesha Expo
01/04/03 – WARAC Swapfest–Waukesha Expo

So who's the handsome guy in the parade?



Did you see Ozaukee Supervisor and ORC member Gerry Walker (KB9IMH) in the 4th of July parade? He was in that beautiful '31 Model A Ford. Note the windshield air conditioning system.

Photo by Greg Lengling (W9DHI)

ORC Scholarship - \$1,000

By Dave Knaus N9QA

The Foundation for Amateur Radio's scholarship committee has recently completed the task of choosing the recipients of the fifty-seven scholarships to be awarded this year. Selected as this year's winner of the \$1,000 Ozaukee Radio Club scholarship was Andrew A. Knitt, KB9JOZ, from Rhineland.

Andrew has been a straight A student for his first two years studying Electrical Engineering at the Michigan Technological University in Houghton, MI. He holds a General Class license and while at the university, he has been active on all bands. In addition, he is involved in search and rescue operations.

Congratulations Andrew!

Wanted

Associate editors – one each for the "Contesting", "Projects", "Equipment and Software Re-

view”, “Public Service” and “Just Another Shack” columns.

Next Meeting – Aug. 14th

We will have a short “show and tell” session on antenna tuners. If you have one you have assembled or refurbished, bring it along so the group can take a look at it.

Field Day 2002

By: Gary Sharbuno WI9M

Well another field day has come and gone. It was a huge, success again this year, and I thank one and all for the help and hard work that went into it. The planning committee did a great job, and we worked out lots of kinks prior to the weekend.

Thursday evening went well, and we had lots of help gathering all the tents and stuff, and got it out to the site in short order. We were done already at 7:45PM.

Friday came, and the weather was tolerable, tents went up, and most of the antenna supports. Special thanks to Bob (WQ9N) for getting the portable tower up for 20/80 phone.

Lunch was great, at the Greek restaurant, and we must have had at least 20 of us there. The Friday night party went very well, and lots of thanks to DR. Stan (WB9RQR) QR QR, for the great turkey roasting he did. The Electric guys really hung in there, so the Sheepshead players had lights til the wee hours.

Saturday came and all the rest of the tents and antennas went up with out a hitch. Leon (W9GCF) even got his new tower and antenna to work. At 1PM the contest started, and we were off and running. Jeff (KB9QQE) was a little panicked, but all was up and going soon after that. Great job Jeff!!!!!! The weather cooperated, and things went well through the night.

Sunday the breakfast folk did a swell job of feeding all the crew, Man! Omelets on field day WOW!! I operated at the CW2 tent, and was having a ball, as were all the other operators did. When the 1PM gun sounded, we pulled the plug, and we had lots of help tearing down all the tents and towers, and all was done and in the barn by 4:30PM.

I want to thank all of the club members for their help and participation to make it a great effort this year. The numbers are as follows:

Band	QSO'S	tent total
160Mcw	9	
15 Mph	201	
15 Mcw	252	(Leon's group) 263
40Mcw	879	
10Mcw	45	(Bob's group) 924
20Mcw	569	
80Mcw	150	CW2 group) 719
40Mph	516	(Teddy) 516
20Mph	529	(Brian) 529
6 Mph	322	
2 Mph	7	
1.25 M	1	(Jean Ann's bunch) 330
Solar	5	(AA9W) 5
Satellite	40	(N9UUR) 40
GOTA	182	
Digital	25	(GOTA) 207

Total CW was 1904 (x 2) 3808, total digital 25(x 2) 50, and total phone was 1803, for a grand total of 5661 total QSO points. Our total clamed score is 11,349, and 1200 more bonus points. Last year our total was only 9,044 QSO's, and in 2000, we had 6000, so we doubled there. So there you have it in a nutshell, good job one and all.

73's



Here visitors are reading about “Ham Radio”, the ARRL and the Ozaukee Radio Club thanks to the

Julia (KB9WBQ) and Tom (AA9XK) Nawrots display board.

In the background behind the display board is the 20-80 CW tent manned by Terry Berg (WA9WO). Terry and his wife Ann (KB9JHP) were active members until they moved to Joliet IL in the '80's. Terry was assisted at times by Gary (WI9M) and they turned in an impressive 719 contacts.



The 15 meter tent under the leadership of Leon (W9GCF) turned in an impressive 252 phone and CW contacts. After Paul (KA9RPP) put up a 160 meter antenna they added 9 more CW contacts. Other operators at the controls of Leon's new FT1000MP Field and beam were Jim Hilins (KA4UPW), Don Doss (K9QEN) and Vic Schier (KB9UKE).

As noted here and in the CW tent, some of our tents are quite small and stuffy and others are even of the WWII heavy canvas vintage. Thanks to Gabe who noticed a sale at "Sam's Club", we will have 3 new "airy" tents at next years outing.

Brian Skrentny (N9LOO) put together a very competitive team at the 20 & 80 meter phone tent using a Kenwood TS850 from Gary (WI9M) a beam and a dipole.



Here at the mic is Jake Schmeling (KB9ZOR) with Tom Nawrott (AA9XK) as his "logger". Other operators at this productive tent registering 529 contacts were Jim Albrinck (K9QLP), Ed Rate (AA9W), Vince Morano (KB9ZOT), Bob Krubsack (WQ9N), Keith Shilhavy (KY9P) and Tom Ruhlmann (W9IPR).



A truly outstanding performance of 924 contacts was turned in by Bob Truscotts team in the 10 & 40 meter CW tent using his FT1000 Mark 5 and an inverted V antenna. This was done under the watchful eye of the ORC Turkey and with other operators as Paul (KA9RPP) and Ray (W9KHH). Bob gives credit to the high contact count to the "Ed Frac" Electric Power Company who supplied uninterrupted clean power for the full 24 hours.



And the envy of the 20-meter tent was the 40-meter tent organized by Ted Schweitzer (KB9RLI). Shown here is Gabe Chido (WI9GC) at the "mic" of the FT1000MP donated by Tom (W9IPR). The radiator was a double Zepp fed from a Dentron antenna tuner of Ted's. Other operators helping to turn in a very impressive 516 contacts during the 24 hours were Rosie Maybee (KB9PZK), Cindy Douglas (KA9PZG), Ann Berg (KB9JHP), Stan Kaplan (WB9RQR) and Jake Schmiling (KB9ZOR).

"RAILROAD" MOBILE

By Jim Albrinck K9QLP

The morning of Monday, July 8, 2002, dawned with heat, humidity, and anticipation of a "dream" becoming "reality", a ride on the Great Circus Train. Being fortunate to become one of six operators honored by the West Allis Radio Amateur Club to operate from the Great Circus Train was a culmination of a wish to combine my love of "steam" railroading, Amateur Radio, and circus trains.

As a kid growing up in Cincinnati, the railroad "Gateway to the South", I lived near three major railroads (Pennsylvania, New York Central, and the Baltimore and Ohio). In addition, I didn't have to travel far to watch the Chesapeake and Ohio, Louisville and Nashville, the Southern, Norfolk and Western, and the Cincinnati Union Terminal Railway move about the city with transfers, passenger trains, and work trains. Many still had steam until I was in my early teens and the various styles of locomotives and their distinct whistles, not only told me when a train was coming, but the railroad engine that was pulling it. Steamers had a unique personality. Unlike die-

sels, steamers breathed, snorted, belched smoke, soot, cinders, and were impressive to watch. The circus train on 7/8 was pulled by an "Iron Horse" as described above. She(*) came from the Kissell Car Museum in Hartford, having recently been refurbished after standing on display for many years in Superior, WI. Number 1003 worked the SOO LINE for many years until retirement, and was saved from the scrap yard by people who wanted to share the past with new generations. The first thing I did upon reaching Horicon was to check out #1003 as it awaited the "Highball" command from the dispatcher. This "lady", built in 1913, is a beauty. With 8 tons of coal and 11,000 gallons of water in the tender, she was ready to go. The Engineer and Fireman told me that the engine consumes 170 pounds of coal and 125 gallons of water per mile. Two diesels rode behind her, but she was capable of pulling the 29 cars on her own, and did, even though the flatcars and stock car were 70 to 72 feet long instead of the 35 and 40 foot average length of other rail cars of the early 1900's. The reason for the "extra" length, I was told, was due to the fact that railroads billed by the car, not by weight. Circuses saw the opportunity and lengthened their cars.

Our operating accommodations were on the last passenger car on the train. It was a 1920's era observation coach reminiscent of the type used by politicians as they "whistle stopped" around their district. The signs posted above the lavatories read "DO NOT FLUSH WHILE TRAIN IS STANDING STILL". You guessed it, passenger cars of this era did not have holding tanks and everything was deposited on the tracks. The Strong people and Circus World people provided everything: water, coffee, juice, soft drinks, sweet rolls, donuts, muffins, chips, and Usinger's hot dogs. Delicious! Unlike the Schlitz days of sponsorship, no beer. We used an Icom 706 on the HF bands and an Icom dual band mobile for 2 meters. Operating frequencies on HF were 7240 and 14240. 146.55 was our two-meter frequency. Antennas consisted of a vertical mounted on the flat car directly behind us and a 5/8 wave 2-meter mag mount on the roof of the coach. The atmosphere was a circus inside and out. Clowns, bands, circus buffs, and interesting passengers. The noise was deafening at times. Thanks to Dave Knaus, N9QA and his excellent preplanning, we were told to bring a set of earphones for HF work. Thank goodness we did. Band conditions were lousy, especially on

40 meters, but the "cans" helped us to dig out the hard to read stations. Since the operating position was very cramped, one of us walked and listened to train talk over 161MHz while the other operated and logged. By taking turns, both operators had a chance to enjoy the ride and wave at the thousands of spectators who lined the route through Hartford, Slinger, Germantown, and the north side of Milwaukee. I don't recall seeing a frown on anyone's face as the train rolled by at a leisurely pace of 10 to 20 mph. Many had tears in their eyes, either from the smoke and soot, allergies, or the beauty and nostalgia of it all. Probably all of the above. We used two meters primarily in towns because HF became very noisy from power-line noise and other QRM sources. Many unique QSO's were had while I was operating: the West Allis ham in Montana operating mobile; the Florida ham who is a circus buff and had been waiting for 3 days to QSO the train; the circus enthusiasts in Allentown, PA and Cape Cod, MA who all wished "they were here", and the ham outside Washington, DC, in Virginia, who wanted to know about the steam locomotive. As a railroad "nut", I was pleased to accommodate him.

Yes, it was a memorable experience. Thanks again to the West Allis Radio Amateur Club, Dave, N9QA, Strong, and the Circus World Museum for the privilege. (*) Steam engine enthusiasts refer to the engines in the female gender. Wonder why?

Contesting

W9LO was again in the rankings. This time as third in the State with 704 contacts in the ARRL CW Sweepstakes this last November. Other ORC members listed were Ray Totzke (W9KHH) as ninth with 170 contacts and John (W9ISC) as fourteenth with 64 contacts.

Also, N9UUR (Gary Barqholz) was ninth in the state with his 72 contacts in the January VHF Contest.

- 8/10-11 Work All Europe DX Contest (CW)
MD-DC QSO contest (CW & SSB)
- 8/17-18 WW RTTY Contest
- 8/24-25 Ohio QSO Party (CW & SSB)
HW QSO Party (CW & SSB)
- 8/31-9/1 YO DX Contest (CW & SSB)

"SECTION NEWS," Contest Line Scores Moving From QST To WEB

From the ARRL Newsletter

Starting next January, "Section News" and contest line score results will appear on the ARRL Web site rather than in QST. The "Section News" Web sites--already in place--will provide the officials of each ARRL section "the capability of an up-to-date information resource that can be tailored to the needs of their section," the resolution said. The space freed up by relocating "Section News" will allow more in-depth coverage of general news, public service activities and "how-to" articles. Members unable to use the Web can request their section's reports in hard-copy format.

ARRL Receives Homeland Security Training Grant

From the ARRL Newsletter

The ARRL will receive a \$181,900 homeland security grant from the US government to train Amateur Radio operators in emergency communication. The League was among several dozen nonprofit organizations designated to receive some \$10.3 million in federal money to boost homeland defense volunteer programs. The grant, from the Corporation for National and Community Service special volunteer program, will provide free ARRL Amateur Radio Emergency Communications Course training to 5200 volunteers nationwide, starting in 2003. "ARRL is the national association for Amateur Radio and is the national leader in emergency communications by volunteers who operate their own equipment on their time at no cost to any government, organization, or corporation," said the July 19 announcement from Homeland Security Director Tom Ridge. The ARRL plans to revise and update the emergency communications curriculum to incorporate additional elements of emergency preparedness and homeland security. ARRL President Jim Haynie, W5JBP, said he was extremely pleased by the news. "This adds legitimacy to the public service work Amateur Radio has been doing for years," he said.

For Sale, Trade or ?

ICOM 736 – Great HF rig with electronic keyer, mike, manual and original box - \$480 – Contact Harry Frank, AA9SF at (262) 675-6056.

WB2MSV is now a silent key and his son is settling his estate. This includes an **FT657GX**, **ICOM EC-251A** and an **Ameritron ALS-500M**. These and other items may be seen at www.mattmilw.com.

Contact Matt Phillips at 414-352-6087

Kenwood TS520 station – Don Belstner (W9VSC) @ 262-377-0426

ICOM 745 transceiver – Ben (K9UZ) @ 262-242-6000

HT202X – 2 Mtr. HT – Leon (K9GCF) @ 262-377-1080

An N9UNR “Swiss Army Knife”. **Hewlett-Packard OfficeJet Model 610, Color Printer, Copier, Scanner, Fax machine** all in one. Small and compact, it works just fine. Color cartridge replaced late July. Includes docs, original drivers and also latest drivers on CD. Reason for selling: replaced with a later model (these are just great machines). \$150 or will consider a trade of some sort. Stan, WB9RQR, 262-284-9346.

Equipment Review

By Tom Ruhlmann (W9IPR)

I am trying to get my new ICOM 706 mobile on HF and really didn't want to cut a hole in the body of the 96 Buick to mount the antenna. First I tried a universal bumper strap mount for a ball/spring system. Forget it. The plastic bumper is not secure enough making the “strap mount” is useless. Then I reluctantly purchased a “Diamond” trunk lid lip mount at AES for \$69 – WOW. It seemed quite pricey and I was concerned that it was not robust enough to carry the Hustler antenna system. However, I have to admit that it was easy to install (complete with miniature co-ax) and seems quite secure with the 20 meter Hustler. I suggest you use a spring mount at the ball and mount it toward the top of the trunk lid but not so far forward that the antenna will strike the car roof when the trunk is opened. Also, adjust the antenna to lean toward the centerline of the car so it does not blow out into on-coming traffic. I also suggest use of the “quick disconnect” at the base since it makes it easy to remove the an-

tenna and place it in the trunk when entering parking garages or taking your spouse out to eat.

Tips and Tails

Need a small spring? Don't forget about the one in your ballpoint pen.

Can't find your car in the parking lot? Place a “clip-on flag” on that HF antenna for quick locating.

Need a “_” coil form? Try the barrel of a “High Lighter” – works great.

Upgrading to “General”

Following is a sample question now included in the General Class License question pool and copied from the ARRL Upgrade Manual.

G9C04

What is an advantage of downward sloping radials on a ground-plane antenna?

- A. It lowers the radiation angle.
- B. It brings the feed-point impedance closer to 300 ohms.
- C. It increases the radiation angle.
- D. It brings the feed-point impedance closer to 50 ohms.

Ans. D – Bending or sloping the radials downward to about a 45-degree angle will increase the impedance from approximately 35 ohms to approximately 50 ohms thus lowering the SWR.

G9C02

What is one advantage of using a random-wire antenna?

- A. It is more efficient than any other kind of antenna
- B. It will keep RF energy out of your station
- C. It doesn't need an impedance matching network
- D. It is a multiband antenna

Ans. D. A random-length wire antenna is often referred to as a random-wire antenna. It consists simply of a wire. A random-wire antenna can be of any length because an antenna tuner is used to match the impedances. It does not require a feed line because the single piece of wire serves as both a feed line and an antenna. It is

considered to be a multiband antenna, because the antenna tuner will match the impedances for several frequency bands. You may experience RF feedback in your station when using a random-length wire antenna.

All In a Mornings Work

By Cindy KA9PZG

I consider myself a "new kid on the block" when it comes to volunteering at the Annual Fish Day event in Port Washington. I can guarantee it takes a good group of hams to make that event run smoothly!

Each year our services as hams are needed to relay information between parade coordinators and participants. We help make sure floats and units are stationed in the right areas to assure their timely sendoff.

If units don't show up, the main coordinator needs to know this so other arrangements can be made to keep a good balance of entertainment in the parade line. Another critical area of need is the occasional communication between law enforcement and coordinators. We had an incident July 20th that required a police escort of a woman in her car from the parade staging area down to her husband (a doctor) at the piers downtown Port Washington. He was being paged for a medical emergency. We were able to quickly direct the officer to her location with little or no distraction to the event!

We also deal with holding back traffic from entering into the staging area, the most seemingly strenuous job that day. Since a number of streets are closed to through traffic during the parade, visitors don't know how to get around to avoid these problem areas. You can imagine how hard it is for us volunteer hams that aren't knowledgeable of the city's streets, either!

So, after a full, four hour work morning those weary operators hop in their vehicles and take **their spot** in the parade lineup! And then it's off to the Lakefront for a meal of Fish & Chips and drink, compliments of the Fish Day Committee!

(Thanks to all of you who volunteered this year for the 2002 Fish Day Parade!!)

Minutes of the July 10th, 2002 Meeting

By Nels Harvey, WA9JOB, Secretary

Call to order and introductions: The meeting was called to order at 7:32PM at the Grafton Senior Center by President Leon Rediske, K9GCF. Introduction of members and guests was made.

Events and Announcements:

Cathy Pohl (FISH), made final arrangements for the Club's participation in Fish Day. Skip, KA9DDN, was voted to be in charge as Head of the ORC contingent.

Cindy, KA9PZG, told us about the ad she placed in the Ozaukee newspaper, expressing thanks for all the River Cleanup helpers. She thanked the ORC helpers present for their help, as well.

Terry, KA9RFM, announced that he had some raffle tickets benefiting the model airplane group he is involved with.

Program:

Jack Hughes, K9JAC, explained the concepts behind IRLP, the Internet Radio Linking Project. He operates two repeaters capable of connecting to sites around the world by way of the Internet. The costs are reasonable, but systems do require access to a high speed Internet connection.

After the break, Stan held his usual auction, and then the business meeting was held.

Minutes: The minutes of the last meeting were accepted.

Treasurer's report: Dave, N9UNR, moved to accept, subject to audit, and Gary, W19M, seconded. The report passed by voice vote.

Repeater Report: The repeater Vice President, Dave, N9QA, reported that the link at Germantown had been off due to the power supply tripping out, possibly due to weather. Two new finals have been obtained, and will be placed in the 146.97 repeater's amplifier soon. The tubes were made in China.

Circus Train Report. Jim, K9QLP, had an opportunity to ride the Circus Train on July 8, 2002. He helped operate W9D, the Special Event call-sign for the train. They made 40 contacts on Monday. Vic, KB9UKE, took a shift on Sunday, July 7, 2002. The train was pulled by a stoker fed, coal fired 1913 Mikado class locomotive that recently was refurbished in Hartford, WI.

OZARES Report: None. Jon, KB9RHZ, was not present.

Newsletter Report: Tom, W9IPR, reports all listed Amateurs in the Cedarburg zip code area, were sent a mailing inviting them to our club meeting. So far, there haven't been any results from the effort. Tom is looking for a Special Events Editor for the Newsletter. He wants someone to report on events and contests in the Newsletter.

Old Business: There was no old business.

New Business:

The Corn Roast date has been set for August 17, 2002, starting before 11:00 A.M. The Club will supply the corn, and the meat to be cooked. Everyone is to bring the traditional dish to be passed.

Adjournment: The business meeting was adjourned at 9:18 P.M.

Next Meeting: The next meeting will be held on August 14, 2002, at the Grafton Senior Center.

Attendance: Nels, WA9JOB, Dave, N9UNR, Bernie, AA9CI, Tom, W9IPR, Gene, KB9VJP, Bob, W9LO, Brian, N9LOO, Terry, KA9RFM, Ray, W9KHH, Jim, K9QLP, Don, W9VSC, Dave, N9QA, Herb, WA9UVK, Paul, KB9WCC, Ed, AA9WW, Gary, WI9M, Jeff, KB9QQE, Gabe, WI9GC, Ted, KB9RLI, Ed, AA9W, Ted, KA9UCD, Jane, KB9SYI, Bob, N9NRK, Stan, WB9RQR, Leon, K9GCF, Skip, KA9DDN, Cindy, KA9PZG, Jim, N9WIU, Ted, KB9PQZ, Dick, WA9MME, Carol, KC9CBC, Ed, AA9GT, Todd, KC9BQA, Keith, KY9P, Steve, N9SFE, Jack, K9JAC, Ray, WD9HOD, and Cathy, FISH.

AGENDA

Aug. 14th, 2002

1. Call to order.
2. Introductions.
3. Announcements, Upcoming events, Etc.,
4. Program: Antenna Tuner Show and Tell
5. Fellowship Break
6. Auction.
7. Acceptance of Minutes as printed.
8. Treasurer's report – Gabe (WI9GC).
9. Repeater report – Dave (N9QA)
10. OZARES report – Jon (KB9RHZ).
11. Committee reports.
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, Aug. 14th

7:30 PM