



North Ottawa Amateur Radio Club

SPARK for JANUARY 2007

HAPPY NEW YEAR!

JANUARY 4 MAARC BATTERY PROGRAM

JANUARY 14 WINTER FIELD DAY

JANUARY 22 HARC CLASSES

JANUARY 27 NOARC HAM-IN-A-DAY CLASS

President	John Fischer ,KC8UNY	846-8998
Vice President:	Don Smith, N8HCS	846-1938
SPARK editor	Paul E. Zellar W8IQE	844-0807
Secretary	Roger Simmons N8RXC	
	Phyllis Simmons KB8NLN	846-3496
Treasurer	John Sundstrom N8YQD	847-4249
Activities Director	Vacant — volunteer needed!	

*The Muskegon Area Amateur Radio Council is pleased to present a special program on January 4, 2007, at the Norton Shores Public Library, 705 Seminole Rd, Norton Shores, Michigan. 7 p.m. sharp! The program will be presented by David Clow, CEO of Harding Energy, Inc., a world leader in rechargeable battery technology.

*From the ARRL's Contest Branch web site:

Winter Field Day -- all modes, sponsored by the Society for the Preservation of Amateur Radio (SPAR) from local noon Jan 13 to local noon Jan 14. Frequencies: 160-10 meters. Categories: SO, Two Op, Multi, Indoor, Outdoor, Home. Exchange: call sign, RS(T), category, local outside temperature. QSO points: 1 pt/QSO. Score: QSO points x modes operated on each band. For more information and bonus points: <http://www.spar-hams.org/contests/winterfd/index.php>. Logs due Feb 15 to winterfd@spar-hams.org.

*HAM RADIO CLASS COMING

Again the Holland Amateur radio club offers to the community a licensing class. It is designed for those who are new to the hobby and for those who want to up-grade their license to General. With a Technician license you can talk to others across the country and around the world (free), build electrical devices and antennas, as well as serve the community with communication skills.

WHEN: Beginning January 22 for nine Mondays.

WHERE: HOLLAND AMATEUR RADIO CLUB Technology and Training Center 280 E. 8th Street Holland

TIME: 7:00 until 9:15 p.m.

FEES: \$20 plus the cost of book for \$18.

CONTACT: Ed Heyboer

Phone: 616-772-4811

e-mail: kf8ev@arrl.net

*NOARC: This January 27 2007 at the Spring Lake Presbyterian Church starting at approximately 8:00 am to 2:00 pm with a break for lunch testing to start at about 2:00 pm this will be a tech class and testing for everything, ie; Tech, Gen, and Extra. The cost of the test is \$14.00, the cost of the Tech book is \$20.00. We are using the Gordon West book and have 6 books. If you need a book, contact KC8UNY John Fischer at kc8uny@arrl.net or 616 846 8998 leave a message we hope to get a lot of new hams or those who want to advance to the next class.

Treasurer's Report For January 2007 by John Sundstrom N8YQD

As of December 8th ,2006, the balances for the Chase/Bank One accounts are:

Bank One Checking	1,255.40
Bank One Savings	3,391.86
Sub Total	<hr/> 4,647.28

Grand Haven Community Fund 4,279.58 as of 9/30/2006

Total All accounts \$ 8,926.86

The December meeting was transformed into a Christmas Potluck. Held at the Middle School cafeteria a week early because of the holiday, it became a great meal spiced with pleasant conversations. N8YQD provided a delicious cake, KB8NLN usually brings her exceptional goodies, and this time they were extra special. Please notice the rave reviews for the sweets, thanks to the editor's sweet tooth, but the rest of the food was great, too, and there was plenty of it! Those that couldn't make it missed a good time.

I LEARNED ABOUT HAM RADIO FROM THAT

By W8IQE

With a Technician ticket in my pocket, I was anxious to get on the air. I had no equipment or a budget to purchase any. Through the Grand Haven Amateur Radio Club I was loaned a Red Cross owned Gonset Communicator for six meters. This was an AM transmitter/receiver with a 12 volt/120 volt power supply. It was the size of a small suitcase, and fairly heavy, it had a tunable receiver and a crystal socket for the transmitter. A homebrew ground plane antenna allowed me to reach a number of local hams and often the skip brought in stations from around the U.S. This was in 1956, at a time when all the new cars had 12 volt electrical systems. I didn't have a new car, so mine had a 6 volt battery. A second battery was mounted in the trunk and wired through a DPDT switch. In one position the second battery was in parallel with the car's battery for charging, in the other it was in series. This provided the 12 volts for the radio. The regular broadcast antenna worked pretty well, but one that could be cut for 54 inches was much better. Many of the hams used a "three ring halo" on a car top carrier, providing horizontal polarization and better range with beam equipped base stations.

Through a swap I acquired an RME VHF152A converter, which was a tunable device that converted 2, 6, and 10 meters to 7 Mhz. This was connected to my WW2 HF receiver, a BC342. I rebuilt an old 35 foot TV tower and mounted it on the roof of the house. I had a ground plane and a halo antenna on the tower so I could work both polarities. Joe Kolenic, W8ESZ, gave me a homebrew transmitter, built right out of the ARRL Handbook. It used three tubes, two 5763s as oscillator and multipliers, and a 6146 for the power amplifier. This was just the transmitter, however, with no power supply, VFO, or modulator. It used crystals of about 8 Mhz to multiply to the 50-54 Mhz output. I racked my brains to find a way to get this transmitter on the air. An old transformer from a junked TV provided the 6 volts for the filaments, and they lit up nicely. I obtained an old commercial power supply with 866Jr mercury vapor rectifier tubes that put out 750 volts. The tubes had a lovely purple glow when they were working. I discovered the hard way that 750 volts was too much for the 5763s, although it was perfect for the 6146. An old novice transmitter had a 300 volt supply, so that was used for the lower stages. On connecting everything up I realized that I needed to turn on the 300 volts before the 750, so the power amp had some drive. OK, I just had to remember the sequence, and reverse it for switching to receive. I didn't have a meter to measure the final plate current, which needed to be "dipped" to resonance. This was solved when I realized that off resonance the current was so high the plate of the 6146 turned cherry red. I tuned for minimum red. Now I needed to switch the antenna from transmit to receive, and another switch was used for this purpose.

(Continued on next page.)

***** **Net Control Schedule** *****

If you are unable to keep your appointment as Net Control, **please** arrange for a replacement.

NOTE: This information is also found on the NOARC Web site at [yahoo groups/w8cso/calendar](http://yahoo.groups/w8cso/calendar)

Jan 2	N8FQ	Joe Veldhuis
Jan 9	N8RXC/KB8NLN	Roger/Phyllis Simmons
Jan 16	N8LBG	Woody Alrich
Jan 23	W8IQE	Paul Zellar
Jan 30	Kc8UNY	John Fischer

Now I had to remember to place the antenna switch in the proper position before turning on the lower high voltage, then the higher voltage. This system would provide about 75 watts of RF to the antenna, but I still needed to modulate it. For 100% modulation, I needed about a 40 watt audio amplifier. Looking through my junk, I found another military surplus device, called a TG-10 Keyer. This had been built for code instruction, having a motor driven reel for punched paper tape going through an electric eye. The signal then went through a hefty audio amplifier. Aha! The amp used a pair of 6L6s in push-pull, providing the power level I needed. The problem was that it wasn't designed for a microphone input. That was all right, I used a telephone ear-piece for a dynamic microphone, connected it to a Heathkit Audio Signal Tracer, which was really just a high gain audio amplifier, and fed it into the TG-10. The output of the TG-10 was 4 ohms, designed for a loudspeaker. To modulate my transmitter, I needed a much higher impedance. Back to the junk box, and another TV set transformer. I connected the 4 ohm output of the TG-10 to the six volt winding of the transformer, and connected the high voltage winding in series with the 750 volt power to the transmitter. A CQ brought back a station in Kalamazoo, some 70 miles away. He helped me find the right audio adjustment that sounded right.

What I wound up with worked like this: with everything in receive and wanting to transmit, I needed to first switch the receiver to standby. The antenna switch could then be operated, then the lower high voltage, then the very high voltage. Now I was transmitting. When the transmission was complete, I had to turn off the very high voltage, then the lower high voltage, switch the antenna to receive, and turn the receiver back to "operate". The wrong sequence had dire results!

I just loved it when a contact asked me what rig was I using!

The Classified Section)

For Sale: Assortment of nice Zenith Transoceanic all band radios. Contact John Sundstrom , N8YQD

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Don Smith

1628 Franklin
Grand Haven, MI. 49417

n8hcs@arrl.net
616-638-6393



1 year Dues Renewal Form. Single \$25 Family \$30. Buy 3 years for \$70 and you get a Mi Tax credit of \$35 on your 2005 return. Please fill out mail to Box 44 Ferrysburg, MI 49409

Name _____ Call _____

Street Address _____

City _____ State _____ Zip _____

Phone Number _____ E-mail _____

W8CSO (NOARC) Repeater information: If the NOARC repeater goes down , use 145.490 simplex

145.490 (- offset) tone 94.8 main receiver ; Grand rapids link receiver tone 91.5

Codes : Time of day 400; DTMF Test 325; signal report 750

Phone patch Instructions:

* followed by phone number

to disconnect

6 + auto patch number to use your assigned auto patch number

911 calls Ottawa County Central Dispatch

912 call Muskegon County Dispatch

Club Net is every Tuesday night at 8PM. Net Controllers please note your assignment found on the calendar and be sure to get a substitute if you cannot take the net. Club Web Site <http://www.qsl.net/noarc/>. Site has information on Te Ne KE, club events and net schedules. All licensed amateurs are eligible for membership in the North Ottawa Amateur radio Club. Board meeting held 1 hour before meeting at meeting site. Annual dues are payable in December . 2007 Dues are \$ 25.00 individual and \$ 35.00 family or \$70 for 3 years. Please send dues to NOARC Box 44, Ferrysburg, MI 49409. Please keep the club Treasurer (sundstrj@gvsu.edu) informed as to your CURRENT e-mail address if you get the newsletter electronically or US mail address if receive it postal.

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North Ottawa Amateur Radio Club

SPARK for FEBRUARY 2007

CONGRATULATIONS TO THE NEW HAMS THAT MADE A SUCCESS OF NOARC'S HAM-IN-A-DAY CLASS!

Mark E. Stern, Bradley J. Fisher, James R. Miller and Denver J. Todd Jr.

COMING EVENTS

FEBRUARY 1 An expedition to hell!

FEBRUARY 22 NOARC MEETING (and Washington's Birthday)

MARCH 17 Marshall Hamfest

MARCH 22 SKYWARN TRAINING

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Activities Director	Vacant — volunteer needed!	

Feb 1. I thought you all needed an update on the Expedition to Hell (Michigan) where three hardy souls will brave the elements to generate a "signal from Hell." Yes, it's official, and Ed, AB8DF, Courtland, KA5S, and Hank, N8XX will activate the special event call N8H from the parking lot in the rear of the General Store in Hell, Michigan, on Saturday February 3 2007 beginning at approximately 1400Z and staying until approximately 2359Z.

Unless the NOAA weather forecast is completely wrong, we expect to see Hell frozen over, since the low temperature is predicted to be near 4° on that day, and the high is not supposed to reach 15°F.

KA5S and N8XX believe they've figured out how to operate Feld Hell (Hellschriber), which appears to be the preferred mode from that location. We'll be trying Feld Hell at the top of each odd hour, on 7.068-7.072, 14.075-14.082 and possibly 21.068-21.072 MHz. Other times look for us on the standard QRP frequencies in the 40, 20 and 15 Metre bands on CW and SSB. There's a 10-10 international 10 metre contest at the same time, so if 10 metres is open, we'll probably appear there.

I'd appreciate announcement of this activity on any local club reflectors and at club meetings, such as the one listed for 1 February. The Hellxpedition isn't nearly as tough as the expedition which will be discussed there, but the three of us who are going there hope to have a lot of fun.

73 de n8xx Hg

March 17. Hamfest 2007 at Marshall is just around the corner. It will be held on March 17th, 2007 at Marshall High School. Bring your family and friends to our Hamfest for a fun day out to see what is new on the market in radio equipment. Hope to see you on March 17th, 2007.

HAMFEST CHAIRMAN 2007 Billy Booth KD8CDS, 4 Cinderella Circle, Springfield, MI.
49015, Home Ph. (269)965-1415 (AFTER 4 PM)
Email: _SQJUMPER@AOL.COM (mailto:_SQJUMPER@AOL.COM)

March 22. SKYWARN training for Ottawa County will be March 22, 2007. This is the night that the NOARC meeting is scheduled.

73 John WB9JSR

Thank you to all the NOARC members who helped with the 2007 NOARC Ham-In-a-Day class and test. We had four people that came to the class. We went through the book with them and at 2:00pm we gave the test. All four are now Tech class operators. Hopefully next year or later this summer we can try to hold another class or just a test session for upgrades. KB8NLN, N8RXC,.N8FQ, KS8NS were a great help. 73,KC8UNY

Minutes of the North Ottawa Amateur Radio Club for Thursday, January 27th 2007

Seven cold members of the NOARC showed up at the White Pines Middle School for the monthly meeting.

President John Fischer called the meeting to order around 7:00 PM. An enthusiastic discussion was held regarding the future and plans of the emergency services of the County, State, and Federal Government.

Don Meyer advised of a request for assistance on February 17th for a 5K Race to be held in Grand Haven. Volunteers are requested to meet at the Department of Public Safety parking lot at 8:00 AM. The race will take place from approximately 9:00 AM til 10:00 AM.

There will be a training session for Skywarn Operations the third Thursday of March. The location has not been announced yet.

Girls on the Run 5K Race will take place on Saturday May 19th from 9:30 AM til 11:30 AM. We are looking for assistance .

The Snug Harbor Kick off to Spring 5K Race will "kick off " a week later. Same.

A discussion was held reference the Federal Government in co-operation with local governments forming response teams. The idea being to help neighbors in the event of disaster. More on this may be forthcoming.

Unless otherwise indicated, the next February meeting of NOARC will be held at the OCEC on Savidge St. in Spring Lake.

Craig Christilaw advised that Jack DenBraber WB8SOE is presently at Shore Haven Rest Home on Beacon St in Grand Haven in Room 38B. Visitors are welcome.

FLASH ! This just in ... The North Ottawa Amateur Radio Club held a one day Technician Class for the Element 2 FCC license preparation and examination. The session was held at and with the hospitality of the First Presbyterian Church of Spring Lake . Four candidates met at 8:00 AM and continued until after 3:00PM in the afternoon. Congratulations are due to Mark E. Stern, Bradley J. Fisher, James R. Miller and Denver J. Todd Jr. for successfully passing the examination. Welcome to the hobby gentlemen !

Looks like thats all the news for now, so we'll tie a ribbon on it for another month. Phyllis and I will be trying to ply the waters of the Atlantic for a couple months. Could someone volunteer to take the minutes for the duration?

Respectfully submitted, Phyllis and Roger Simmons

Some of you are aware that I write for the Grand Haven Tribune. And some of you are also aware that we have been doing a weekly "50 people who make a difference" series, which is winding down to the end.

I got to thinking that a fellow ham would make a great subject. Plus, we get to promote ham radio! The person must live - or at least work/volunteer - in the Tri-Cities area. Maybe someone who does a lot of emcomm work at local events? Organizes it? Does something to benefit mankind on HF nets? Don't respond here with a nomination....Please e-mail me at mbrooky@grandhaventribune.com with your nomination/suggestion.

Tnx! ---Mark, KE8FO

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FEB 13	W8IQE	PAUL ZELLAR
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* followed by phone number

to disconnect

6 + auto patch number to use your assigned auto patch number

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912 call Muskegon County Dispatch

Club Net is every Tuesday night at 8PM. Net Controllers please note your assignment found on the calendar and be sure to get a substitute if you cannot take the net. Club Web Site <http://www.qsl.net/noarc/>. Site has information on Te Ne KE, club events and net schedules. All licensed amateurs are eligible for membership in the North Ottawa Amateur radio Club. Board meeting held 1 hour before meeting at meeting site. Annual dues are payable in December . 2007 Dues are \$ 25.00 individual and \$ 35.00 family or \$70 for 3 years. Please send dues to NOARC Box 44, Ferrysburg, MI 49409. Please keep the club Treasurer (sundstrj@gvsu.edu) informed as to your CURRENT e-mail address if you get the newsletter electronically or US mail address if receive it postal.

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SPARK for MARCH 2007

THINK SPRING!

Don't forget Dayton, May 18, 19, and 20.

COMING EVENTS

MARCH 3	CPR Training
MARCH 15	Operator Class
MARCH 17	Marshall Hamfest
MARCH 22	Skywarn Training
MARCH 29	Net Control Class

President	John Fischer ,KC8UNY	846-8998
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Activities Director	Vacant — volunteer needed!	

March 3. CPR training will be conducted at Saint Patrick's at 9:00AM until 1:00PM by the American Red Cross.

March 15. 6:30 PM - 10:00 PM. If you've had the Ham in a Day class, you may want to take this to learn the practical aspects of Amateur Radio. If you plan to attend, send an email to Kim Karr at kkarr@kcraces.net.

March 17. Marshall (Michigan) Hamfest - 0800-1300 EST, Marshall High School, Marshall, Michigan
For more info see <http://www.w8df.com/hamfest.html>

March 22. SKYWARN training for Ottawa County will be March 22, 2007. This is the night that the NOARC meeting is scheduled. If you have any questions or need additional information contact: Chris Saddler 616-738-4052 csaddler@co.ottawa.mi.us or Bill Smith 616-738-4050 bsmith@co.ottawa.mi.us or of course you can contact me John Wehmer WB9JSR, Ottawa County EC, home1 616-847-6409 home2 616-604-0510 cell 616-502-4800 pager 800-218-4083 wb9jsr@arrl.net

March 29. 7:00 PM - 10:00 PM. A class will be held for Net Control Operator Training in the training room.

Comments: To help people become net control operators. We'll have both a lecture and hands on exercises. If you plan to attend, send an email to Kim Karr at kkarr@kcraces.net.

General: Calling all brass pounders! N8FQ announced the formation of a low speed CW net on Tuesday evenings at 8:30. The frequency is 28.395 Mhz.

Hi From South FLorida:

I did not get to Orlando until about 1:30 on Saturday. I saw Lou Meisch, Jim Walters & Glen Henkle. I missed contact with Roger & Phyllis Simmons and Ben Doctor who were also there. The hamfest was well attended and there were plenty of people selling stuff. I did not see any good deals (People were asking \$500 for a used Yaesu FT-100 or \$450 for a ICOM 706 plain--which is too high as far as I am concerned). I helped Fred Clements, N8EFP sell his 2m/70 CM vertical antenna at an indoor booth. The weather was about perfect--low 70's.

Regards, John Sundstrom de N8yQd

The much-anticipated Ottawa County SKYWARN SSTV image server on the air. You should hear it IDing every 10 minutes on 445.125 MHz FM. I have compiled a user's manual: <http://www.electroblog.com:8090/sstvwx.pdf> And a 3x5 command reference card: http://www.electroblog.com:8090/sstvwx_ref.pdf

Joe, N8FQ

On February 22 the monthly NOARC meeting was held at the Spring Lake EOC. Eight members and a visitor, Josh Carlisle KC8NHR attended. Don Meyers reported that the Ice Festival run went very well. He noted that there has been good cooperation with the Grand Haven Police Department. Don also reported that he had attended a training session for E-Team, a National and State of Michigan internet system for coordinating and logging emergency activities.

There was a discussion about the various race networks that have taken place for some years, and their value in preparing hams for emergency traffic situations. While on this subject the question was asked about whether the race nets were a part of NOARC. While NOARC members have made up the greater part of the helpers, they were not an official function. It was felt that the public service events should be specifically recognized as a NOARC effort. A motion was moved by W8IQE and seconded by N8FQ. It was passed unanimously.

KC8UNY announced that the TeNee Key sales had been good and he was going to assemble more for consignment at ToolMax. Also announced was the CPR training on the third of this month.

A discussion of the W8CSO web page and reflector brought up the fact that it requires regular house keeping to delete older material to free space for new. Also discussed was the possibility of setting up a W8CSO.org web site. Joe Veldhuis volunteered his services, upon which K8RRA moved that Joe be authorized to do this and coordinate with N8ARY, who has been valiantly holding the virtual fort. The motion was seconded by KB8ODB and passed unanimously.

All the Oreo cookies being devoured, the meeting was adjourned at 9:30.

I really miss Roger and Phyllis, our secretaries!

Respectfully submitted by Paul E. Zellar, W8IQE.

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Freeze Your B???. Off - 2007 N8H M/M QRP FIELD OPERATION FROM HELL, MICHIGAN

OPS AB8DF, KA5S, N8XX Power - QRP (of course, for FYBO) Location - Outside in Frozen Hell.:

Band Raw Q's Valid Q's Points SPC 40CW 30 30 60 19 20CW 15 15 30 9

TOTAL 45 45 90 28

90 QSO PTS 28 SPC Multiplier 6 Temp Multiplier 4 Field OP Multiplier

10000 Worked WQ7RP 70480 Total Claimed Score

Murphy struck early - one antenna halyard was tangled in a tree, which caused the 40 meter antenna height to be <30 feet instead of 50 feet. Then the rig wouldn't put power to the tuner, and after some sleuthing a broken coax was found and fixed. Also, alternate power from a generator wouldn't start at such a cold temperature, so we gave up and plugged into the AC mains. At least they have 110VAC in Hell!

We tried Feld Hell on 40 metres at 1900Z and 2100Z with no takers. (we thought the mode would be appropriate for the venue!) We knew the rig was working because we were making quite a few CW contacts, even with a low antenna. We didn't try 20 meters Feld Hell because of technical difficulties with one rig.

It was 2°F when we arrived in Hell, and never got above 13°F during the operation. You might say it was a cold day in Hell.:

The weather was getting blustery and snowy around 2100Z, so we decided to close up at 2200Z while it was still light.

Thanks to the Arizona ScQRPions for running a nice contest. There will be a longer writeup on the AzScQRPions web site. We hope to CU during FYBO 2008. Unless things change drastically, we'll be in Hell again,

and will have a much better idea of what is needed for such an operation.

72 from Ed, AB8DF, Cortland, KA5S, and Hank, N8XX

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SPARK for APRIL 2007



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Hi From South Florida:

I did not get to Orlando until about 1:30 on Saturday. I saw Lou Meisch, Jim Walters & Glen Henkle. I missed contact with Roger & Phyllis Simmons and Ben Doctor who were also there. The hamfest was well attended and there were plenty of people selling stuff. I did not see any good deals (People were asking \$500 for a used Yaesu FT-100 or \$450 for a ICOM 706 plain-- which is too high as far as I am concerned). I helped Fred Clements, N8EFP sell his 2m/70 CM vertical antenna at an indoor booth. The weather was about perfect--low 70's. Regards, John Sundstrom de N8yQd

The much-anticipated Ottawa County SKYWARN SSTV image server on the air. You should hear it IDing every 10 minutes on 445.125 MHz FM. I have compiled a user's manual: <http://www.electroblog.com:8090/sstvwvx.pdf> And a 3x5 command reference card: http://www.electroblog.com:8090/sstvwvx_ref.pdf Joe, N8FQ

April doings:

April 5, Thursday. MAARC program on D-Star

April 14, Saturday. Lowell Mini-swap

April 21, Saturday. River Bank Pre-Run April 21, Saturday. Milford Hamfest.

April 26, NOARC monthly meeting

Thursday, April 5th, 7:00 p.m. at the Muskegon Area Amateur Radio Council's cabin in the woods, located at 2888 Scenic Drive, Muskegon: Be there when Al Pepping, KV8X, presents our monthly program on the topic of D-Star digital repeaters. Al has been educating himself on this interesting new technology and we welcome anyone and everyone to come and listen to what he has learned. If you aren't familiar with the clubhouse location, Google works and so does our local .94 repeater for directions.

All, Its time again.. River Bank Run 2007! This sign up is for the main event.. Remember that if you sign up we will need you at a Pre-Race meeting the night before. We are also looking for a few people to ride bikes in to help cover the event. So if your in shape and you want to ride a bike let me know. Please go to this link to sign up. www.kcraces.net/rbr River Bank run requires lots and lots of people.. This is the BIG ONE for the year, 5 hours of controled chaos! 25,000 people and lots of fun! We need everyone, we do not care what club you belong to, ARRL affiliation or any other affiliations. All you need is a Tech License and be willing to give up your Friday Night / Saturday Morning for lots of Fun!!!! IF you have questions or to sign up for the smaller events please email me jnawrot@kcvrm.net

The Annual Milford Hamfest - Where: Milford High School, 2380 Milford Rd., Highland, Mi.48357 - Saturday, April 8, 2006, 8:00 am to 1:00 pm. Vendors will be allowed in at 6:00 am, Saturday. general public at 8:00 am.

Web site is http://www.qsl.net/w8ydk/milford_hamfest.htm Milford is about 120 miles from downtown Grand Rapids.

Since the meeting for March gave way to SKYWARN training, there are no March minutes, there was just some March Madness!

GET READY!

Hello, it might not feel like Spring Time is just around the corner but it will be here very soon, with Spring's arrival comes the 2007 Tulip Time Festival. As in the past the Amateur Radio Operators and the American Red Cross will be providing support along the parade routes during the three Tulip Time parades. Please email Dave Lamer WA8RSA directly at wa8rsa@charter.net if you're interested in working the parade line-up on Saturday. Thank you in advance! Best regards, Steve Vander Hill - N8UJD svanderhill@chartermi.net

***** Net Control Schedule *****

If you are unable to keep your appointment as Net Control, **please** arrange for a replacement.

NOTE: This information is also found on the NOARC Web site at yahoo groups/w8cso/calendar

APRIL3	KC8UNY	JOHN FISCHER
APRIL10	W8IQE	PAUL ZELLAR
APRIL 17	N8LBG	WOODY ALRICH
APRIL 24	N8YQD	JOHN SUNDSTROM
MAY 1	N8FQ	JOE VELDHUIS

April 2007 Treasurer's Report John Sundstrom N8YQD

Checking account (per Bank)..... 996.70
Saving account4,392.50
Subtotal in Chase Bank..... \$5,389.20 per march statement

Bills outstanding
Comtronco--repeater 377.27 phone & power

Recent revenue
Dues -Ross Gates N8GMY 25.00 new club member

Net balance 3/30/07 \$ 5,036.00

Grand Haven Community Fund \$ 4,529.29

Net all funds \$ 9,566.22

The Classified Section)

For Sale: Assortment of nice Zenith Transoceanic all band radios. Contact John Sundstrom , N8YQD


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www.marinetechnet

Don Smith

1628 Franklin
Grand Haven, MI. 49417

n8hcs@arrl.net
616-638-6393



1 year Dues Renewal Form. Single \$25 Family \$30. Buy 3 years for \$70 and you get a Mi Tax credit of \$35 on your 2005 return. Please fill out mail to Box 44 Ferrysburg, MI 49409

Name _____ Call _____

Street Address _____

City _____ State _____ Zip _____

Phone Number _____ E-mail _____

W8CSO (NOARC) Repeater information: If the NOARC repeater goes down , use 145.490 simplex

145.490 (- offset) tone 94.8 main receiver ; Grand rapids link receiver tone 91.5

Codes : Time of day 400; DTMF Test 325; signal report 750

Phone patch Instructions:

* followed by phone number

to disconnect

6 + auto patch number to use your assigned auto patch number

911 calls Ottawa County Central Dispatch

912 call Muskegon County Dispatch

Club Net is every Tuesday night at 8PM. Net Controllers please note your assignment found on the calendar and be sure to get a substitute if you cannot take the net. Club Web Site <http://www.qsl.net/noarc/>. Site has information on Te Ne KE, club events and net schedules. All licensed amateurs are eligible for membership in the North Ottawa Amateur radio Club. Board meeting held 1 hour before meeting at meeting site. Annual dues are payable in December . 2007 Dues are \$ 25.00 individual and \$ 35.00 family or \$70 for 3 years. Please send dues to NOARC Box 44, Ferrysburg, MI 49409. Please keep the club Treasurer (sundstrj@gvsu.edu) informed as to your CURRENT e-mail address if you get the newsletter electronically or US mail address if receive it postal.

North Ottawa Amateur Radio Club

Box 44

Ferrysburg, MI 49409

Postmaster: Return Requested



North Ottawa Amateur Radio Club

SPARK for MAY 2007



The wind changed antenna polarity at W8IQE. Some fun!

May 5, Saturday. Cadillac Amateur Radio and Computer Swap.

May 8, Holland Junior Run.

May 9, Wednesday and May 10 Thursday. Tulip Festival parade.

May 12, Saturday. The big Tulip Festival parade.

May 19, Saturday. Girls on the run.

May 28, Monday. Spring Lake Memorial Day Parade.

President	John Fischer ,KC8UNY	846-8998
Vice President:	Don Smith, N8HCS	846-1938
SPARK editor	Paul E. Zellar W8IQE	844-0807
Secretary	Roger Simmons N8RXC	
	Phyllis Simmons KB8NLN	846-3496
Treasurer	John Sundstrom N8YQD	847-4249
Activities Director	Vacant — volunteer needed!	

Spring was starting to spring on the evening of April 25th 2007 as the members of North Ottawa Amateur Radio Club gathered at the White Pines Middle School on Griffin Road in Grand Haven. President John Fischer called the meeting to order around 7:30. We all munched on Phyllis' cookies, apples and pretzels and sipped John Sundstroms coffee while the discussions began. John Sundstrom advised that he would be willing to drive to the Cadillac Hamfest on May 5th. He will be accompanied by Don Meyer.

"Girls on the run" a foot race to be run on May 19th is in need of volunteers to provide emergency communication services. Contact Don Meyer or Andrew Young to help. John Fischer said that the Snug Harbor five kilometer run is looking for help on May 26th. Further, the Spring Lake Memorial Day Parade will be able to use our communication skills on May 28th for their annual downtown event. Next was the discussion of the ARRL Field Day Event. This is planned to take place at Rycenga Park in Ferrysburg on June 23rd and 24th. More clarification will follow. Joe Veldhuis will man the digital operation station. George "Skip" VerDuin will attempt to contact an amateur satellite in orbit.

Paul Zellar told the group that he needed some willing hands to act as net control for the Tuesday Night Net. His objective is to get enough operators so no one would have to be called more than once in five weeks. Phyllis and Roger volunteered with Don Meyer.

Don Meyer is looking for a few interested amateurs to attend class on June 2nd from 8:00 AM to 4:30 PM with a view of forming emergency response teams. Training may include first aid and organization of light search, with damage assessment training. This will take place at the Grand Haven Department of Public Safety in Grand Haven.

There was discussion as to whether we participate in a special events station on Coast Guard Week or the National Light House Light-Ship Weekend that takes place a short time later. The Village of Spring Lake will need a simulated emergency test in September. There will be a damage assessment senario and it will be an opportunity to participate.

"Lucky" Bob Japinga was selected to draw the winning ticket on the fifty fifty draw. He reached in the container and pulled out his own number. Mmmm...

Somewhere around 8:30 Gordon Stockhill made a motion and seconded it to adjourn. All signified by promptly standing up and leaving the premises.

Respectfully submitted by Roger and Phyllis Simmons, N8RXC & KB8NLN

THIS SPACE IS AVAILABLE FOR HAPPENINGS, EXPERIENCES, OR FERVENT DESIRES OF GENERAL INTEREST TO THE NOARC MEMBERS! CONTACT THE EDITOR FOR ITS USE.

***** Net Control Schedule *****

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MAY 8	KC8UNY	JOHN FISCHER
MAY 15	W8IQE	PAUL ZELLAR
MAY 22	KB8ODB	DON MEYER
MAY 29	N8YQD	JOHN SUNDSTROM

April 2007 Treasurer's Report John Sundstrom N8YQD

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North Ottawa Amateur Radio Club



Gordon West and friends at Dayton.

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SPARK editor	Paul E. Zellar W8IQE	844-0807
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Treasurer	John Sundstrom N8YQD	847-4249
Activities Director	Vacant — volunteer needed!	

COMING EVENTS

JUNE 2. The annual IRA Hamfestival is this Saturday at the Hudsonville Fairgrounds.

<http://www.w8hvg.org/IRAfest2k.htm> Friday evening (1st) will be the annual "Road Kill

Chili" potluck. TI 147.16+(94.8Hz).

JUNE 9 is the spring lake heritage festival 5K run your help is needed . If you can help connect kc8uny John or Don kb8odb we will have the time and where we will meet later.

JUNE 23 Governor Granholm declared the week of June 23 as Amateur Radio Awareness Week. The official proclamation marking the week of June 23 has been released by the Governor's Office and sent to all Michigan Section Public Information Officers. Additionally, a downloadable copy is posted on the Michigan Section Web Page <http://www.arrl-mi.org/> Clubs and FD teams are encouraged to incorporate this document into their publicity arrangements for Field Day next month.

NOTICE: N8FQ/B is now running on 24.927 MHz, putting 5 watts into my 240 foot inverted vee. For now, it's just running on my Yaesu 857 with its built-in beacon mode, so if I am using the rig for something else, it'll be QRT, but it should be running most of the time. Plans are in the works to put together a dedicated rig. 73, de Joe N8FQ

June 2007 Treasurer's Report by N8YQD

as of 5/16/07 Bank shows:

Savings \$3,446.82

Checking 619.43

\$4,066.25

Community

Fund Balance 4,529.29

Total \$9,595.45

North Ottawa Amateur Radio Club Minutes of Meeting Thursday May 24

Fifteen enthusiastic members of NOARC met at the White Pines Middle School in Grand Haven. We started enjoying Phyllis' cookies and brownies as soon as we hit the doors of the school.

John Fischer, President, called the meeting to order at 7:35 PM. Members introduced themselves with their name and call signs. Then followed a discussion of Field Day activities. Field Day will be held at Rycenga Park this year. There will be a

GO-to station, allowing visitors to try their hand at it ; satellite and 15 - 80 meter and whatever anyone else desires to go with. Phyllis Simmons requested that the club furnish meat for the Saturday night family potluck. Request was granted. Field Day equipment will be operated on solar power, provided by Jim Wolter.

'Skip' VerDuin asked if the club had banners to use announcing the event.

We will likely have a boy scout in our midst, working on his radio merit badge.

Our guest for the evening was Chuck Stark, Vice-President of VESA, Volunteer Emergency Service Association, who presented to the NOARC Club, a check for \$50.00 for the repeater fund.

We were brought up to date on Te-Ne-Ke sales in Dayton and comments and tales of the convention week-end, by John Fischer. At the NOARC booth in Dayton, Phyllis and Roger met up with John and Dave Fischer, then stayed around long enough to finish selling off the remaining keys. I will use a quote from Lou Meich in saying that 'A good time was had by all'.

Craig Christilaw had the best offer of the evening for us. Boxes of QST magazines. Thanks, Craig,

The fifteen member meeting sort of drifted apart while waiting for Don Meyer and Tom VanderMel--around nine o'clock.

Respectfully submitted, Phyllis and Roger Simmons

***** **Net Control Schedule** *****

If you are unable to keep your appointment as Net Control, **please** arrange for a replacement.

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JUNE 5	KC8UNY	JOHN FISCHER
JUNE	N8FQ	JOE VELDHUIS
JUNE 19	N8LBG	ROGER SIMMONS
JUNE 26	N8YQD	JOHN SUNDSTROM
JULY 3	KB8NLN	PHYLLIS SIMMONS

OUR HAMVENTION 2007 DAYTON OHIO

By Phyllis & Roger Simmons

Note* The authors of this article take no responsibility for the veracity or accuracy of this report. Its just the way we remember it.

Phyllis and I arrived at the KOA Kampground on the afternoon of Friday, May 18th. We put up our two-room tent, complete with queen sized mattress, microwave, television, chairs and table. The Park was filled with hams from all over the country. It was one big antenna farm. The park offered tickets to a shuttle bus for the three day event for \$8.00 or \$3.00 per day. We opted to drive to town with our trusty suburban.

It was so cold that night we had comforters piled on top of us so thick that we couldn't roll over in bed. In the morning we ate breakfast at Bob Evans Restaurant. We parked in the mostly abandoned Salem Mall on Shiloh Springs Rd. Most of the stores were vacant except for Sears. The entire back parking lot of the mall was taken up by ham vehicles closely watched by private security officers. We locked the truck and walked the couple miles to Hara Arena, where the festivities took place. Thanks to Paul Zellar, we had tickets and walked in the front door.

Making out our ticket stubs with name and call signs was our first order of business. The stubs were collected by a crew of volunteers who promptly deposited them into a large drum. Exhibitors and manufacturer's representatives abounded in the three large arena areas. I was looking over a selection of current radio magazines being sold for a dollar each. A gentleman approached from the other side of the counter and asked if he could help me. I handed him three dollars and selected three magazines. "Have you read this one?" he asked, pointing to the magazine "CQ VHF Ham Radio above 50 MHz" with a six dollar and fifty cent sticker price on it. "No" I said, "I have a two meter HT and it's just about all I need above 50 MHz". He then proceeded to expound on the virtues of the magazine. He concluded with a statement that "I wrote the editorial, my name is Joe Lynch." I told him that was great and that I would consider buying it under those circumstances. "Here," he said, "take it". "I couldn't" I replied. "But I'll buy it for a dollar and I promise to read the editorial. Thank you" and we moved on.

Next up, The Yaesu exhibit. An associate stamped our tickets and issued us official Yaesu hats. The radios were of course wonderful. At the Kenwood Exhibit we obtained Kenwood Pins indicating the 2007 Dayton Hamcation on them. Nice souvenirs for the hat or jacket. Onward to nice looking ladies handing out flashing leds in a Tower Electronics logo sticker.

Making the rounds to other exhibits, we met and spoke with Nancy Kott. She is the editor of Radio World and North American Representative of the FISTS CW Club. World wide, there are about 9000 members of FISTS, 4500 of them in the US. ...I think we'll Join.

Walking by a booth, a strange looking character was dressed in a very large black graduation hat with a tassel. On his arm in large vertical letters was the word "ELMER". The character was no other than Gordon West in the flesh. He consented to posing for a photo with us. He was very gracious to talk with. He writes the books probably responsible for your last license upgrade. He was for ours!

The only other photograph we took was of Phyllis and a ham who made a miniature Yagi tower and mounted it on his helmet. He said it took him three days to make it.

The outside flea markets covered the entire parking lot outside of the Hara Arena. They were divided into Flea market East and Flea Market West. We walked for twenty minutes before finding John Fischer and the NOARC booth. Turned out to be parking squares number 4023,4024,4025 and 4026.

When John had to leave, Phyllis and I manned the booth and sold the last three Te-ne-keys. We picked up a couple turkey sandwiches for lunch and had apple pie and coffee with "Al" from the Holland ARC. Al later won a prize in the final drawings.

At 12:00 Noon on Sunday, Chairman Jim Nies called for everyone not involved in taking down the exhibits to be seated in the arena. Security enforced empty aisles. The Chairman acknowledged contributors and volunteers making the event possible. Icom, for example totaled more than \$27,000.00 in prizes. During the main event numbers were drawn for prizes and posted on televisions mounted in the halls surrounding the arena.

At 1:15 PM, the numbers were drawn for the unclaimed prizes. When the loud speaker called out the drawn number, the lucky recipient called out. Those seated around him also called out loudly so the announcer knew that that prize had been won. He then called out the next one. On the last 12 prizes, the winners were required to complete forms 1099 for income tax purposes, since all were worth more than \$600.00 dollars. Most of the thousands of people started to leave the arena, since the prizes would then be shipped to the last winners. Phyllis and I wanted to "carry out our prize in person". So we waited until the last dog was hung.

The last number was called out for the grand prize, worth \$8000.00. It was donated by Icom. Consisting of a complete D-Star repeater station with the latest analog to digital technology. Phyllis heard, I only half heard, the name John Fischer, KC8UNY. Our President of the North Ottawa Amateur Radio Club in Grand Haven Michigan. Wow!!

John had already left the Hamvention. Phyllis and I went to the prize booth and offered to take the D-Star to him. The committeeman declined our offer saying that John would have to submit the Form 1099 with his social security number on it. Oh well... It was 2:20 PM under a sunny afternoon sky. Phyllis and I left Dayton Ohio and closed out the Hamvention 2007. Next year?.... Who knows.

The Classified Section)

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Painter

1 year Dues Renewal Form. Single \$25 Family \$30. Buy 3 years for \$70 and you get a Mi Tax credit of \$35 on your 2005 return. Please fill out mail to Box 44 Ferrysburg, MI 49409

Name_____ Call _____

Street Address_____

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North Ottawa Amateur Radio Club

SPARK for JULY 2007



FUN, FOOD, AND FROLIC AT FIELD DAY 2007

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Vice President:	Don Smith, N8HCS	846-1938
SPARK editor	Paul E. Zellar W8IQE	844-0807
Secretary	Roger Simmons N8RXC	
	Phyllis Simmons KB8NLN	846-3496
Treasurer	John Sundstrom N8YQD	847-4249
Activities Director	Vacant — volunteer needed!	

COMING EVENTS

JULY 7, Mini swap at Holland

JULY 8, 7:30am Grand Haven Triathlon Festival 1.2mi swim, 56mi. bike, 13.1mi. Run—

1.5k swim, 40k bike, 10k run— 500m swim, 20k bike, 5k run

This event runs in the City of Grand Haven and down the lake shore to Holland. Help is needed.

JULY 14, Mini-Swap, circle drive in front of LARC ham shack, HWY M-21 East end of Lowell.

TI: 145.27-(94.8Hz) <http://www.w8lrc.org>

Treasurer's Report for July 2007 By N8YQD

Chase Bank:

as of 6/15/07

Checking Account 934.43

Savings 3487.70

4422.13

Grand Haven Community

Foundation (3/07) 4601.77

Total 9022.90

Summertime and the living's is easy. As the song goes. It was a fine time we had at Rycenga Park for the June meeting of NOARC. The purpose of the picnic meeting was to organize the area and determine what activities we will try during the annual Field Day. That and of course to eat hot dogs, brats, potato salad, cake, cookies, cans of pop and what coffee was left when Roger turned a corner a tad too sharp, tipping the coffee pot over on the floor of the back seat on the way to the park.

At first it didn't look like we would have much of a crowd. Phyllis and I unloaded the goodies for supper. A little after six, Joe Veldhuis appeared and began setting up his digital mode radio station on a picnic table under the pavilion roof.

At around quarter after the hour, hams began trickling in. At the appointed time of six thirty most of the gang appeared . At that time the coals were hot on the grill and the hot dogs were hot with the sizzling brats. We dug in. Twenty one heads chomped down food and the conversation quieted right down.

President John Fischer and Don Meyer began the meeting when the conversation level resumed. He asked for six laptops to log the station activities. Don demonstrated procedure in logging contacts with a new program called "Squirrel".

We plan to operate as a 3A unit with the club call sign of W8CSO. We anticipate a forty meter, twenty meter, eighty meter/fifteen meter, a GOTA station, VHF station and a satellite station

We packed up the left overs when the mosquitoes began to gang up on us. Each of us trying to remember what preparation we promised to do and bring with one day left before the main event.

Oh boy!, Oh boy its gonna be fun.! Respectfully submitted, Phyllis and Roger

P.S Field Day is June 23rd and June 24th, shouldn't it be called Field Days?

***** **Net Control Schedule** *****

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JULY 3	KB8NLN	PHYLLIS SIMMONS
July 10	KD8ODB	DON MEYERS
July 17	KC8UNY	JOHN FISCHER
July 24	N8RXC	ROGER SIMMONS
July 31	W8IQE	PAUL ZELLAR

The weather was fine. It was warm and sunny, with just a little breeze, not enough to ripple a flag. Phyllis and I jumped out of bed shortly after five thirty in the morning of June 23rd, 2007. Like Joe Veldhuis said " I just got all my radio stuff together and stuck it in the car". We did the same thing, with a check list. At seven thirty we pulled into the Rycenga Park gate and saw Mark Moss, Lou Meisch, Joe Veldhuis, John Fischer and a few others already working on antennas and organizing the compound. Lou threw his weighted line to unbelievable heights to raise high wire antennas. There was an eager air of anticipation as tents were raised, and a screened in room placed next to the pavilion.

John Fischer already had coffee brewing in a thirty cup maker. The egg casserole soon appeared, courtesy of Bonnie Schippers. The food was laid out cafeteria style on the lined up picnic tables. There was also bacon, sausages, fresh fruit, bananas, strawberries and cantaloupe. and cookies. Also, water, hot chocolate and your choice of canned pop. At the appointed hour of eight thirty, All gathered at the tables to partake breakfast.

John Sundstrom led a moment of silence remembering the silent keys, who died last year. A somber moment that touched us all.

Setting up of the six radio stations continued at an industrious pace. Paul Zeller and Jim Wolter planted enough solar panels to electrify the whole encampment. Don Meyer furnished the logging programs for the whole event.

Phyllis and I made a pizza run at Little Caesars on Robbins Road , Grand Haven, shortly before 11:30. In all, we delivered eight pizzas for lunch.

When two o'clock rolled around, radio traffic began in earnest. "CQ Field day, CQ Field day, CQ Field day, W8CSO calling CQ Field day". You could almost imagine operators from all over the United States and Canada calling, all at the same time. Lou Meisch changed one of his antennas right away. He had already put up eight or nine exotic species of antennas already.

We put up a screened in room for Joe Veldhuis and his digital VHF/UHF mode transceiver. His radio was connected to a laptop computer thru a TNC.,(terminal node ontroller). Over the entrance of his screened in room, we put an "Information here " sign. Joe made us point the arrow to the dining pavilion. There, Phyllis Simmons was busy cooking supper. Don Meyer brought in a portable smoker which came in very handy heating dinner and keeping food warm for later consumption.

It was impressive to watch Joe as he contacted stations all over the country. The colored messages scrolled down his computer screen and at the bottom of the screen you could see active transmissions in the shape of a "waterfall" .

Mark Moss mounted a military surplus portable tripod antenna , for Joes digital station. Then he moved to the "field" for his two and six meter station. He was pretty lonely during most of the contest. Asked if he had any comments about six meters, he said "Yeh, six meters is dead". Even so, he managed to get more than 33 contacts around the country.

Supper was served at six thirty. Chicken, beef chuck patties, and potluck supper. Salads, cookies, scalloped potatoes,beans and two kinds of cake . Put that with canned pop, coffee tea and water. No one came away from the table hungry. The club is fortunate to have more than its share of good cooks.

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Into the evening and night the contacts continued. Lou Meisch raised a broadband 80 meter dipole antenna constructed around 3" rings to look like a long tube. His first two attempts at contacts brought two out of state radio operators answering him. During the night, the park sprinkler system activated. Lou had puddles inside his tent, but fortunately no damage was done. Lou had prudently removed his radios.

President John Fischer and others, ran a hot twenty meter station in Lou Meisch's trailer. John Sundstrom racked up a contact in Greenland. During the night, between 11:45 PM and 1:30 AM Sunday, Don Smith and Don Meyer contacted one hundred and fifty stations. The contacts came so fast the two operators didn't even have to call CQ They just let the operators pile up . After 1:20 AM Don Meyer said " Don I can't even say the words anymore. Its time for you to transmit and I'll log."

Over at the satellite receiving station, "Skip" George Verduin fervently tried to contact one of the orbiting satellites. Hour after hour he pursued the orbiting radio stations. Some of them were going in excess of seventeen hundred miles per hour. An internet program gave the locations and orbits of the targets. Skip used a large protractor and a home made rotor with his home made multi element yagi antenna to aim at the satellites. Silence or static resembling the raster sound of a TV set after the station goes off the air was his only reward. Then sometime after nine o'clock in the evening, The static noise was heard again, then a beeping noise. We got excited right now and crowded around the receiver. several hams gathered to hear the new contact. The beeps got louder. Then someone looked around the crowd. Lou Meisch was making hissing and beeping noises in his hand held transceiver. He had programmed his radio to the same frequency as the satellite receiver.

The next morning Skips patience was rewarded with an actual contact. Sometime around 10:30 AM, Skips CQ resulted in a brief conversation with a 2A station out west on satellite VO52.

Gordon Stockhill, stalwart of the CW world, manned his 40 meter CW Station. It was located on the west side of the park, Gordon had his trailer and the weather permitted him to operate outside, beneath the shade of his "veranda". Jim Wolter gave a hand with amazing speed making the continuous wave sound like a machine gun spitting out messages.

Every one had his own plan for survival in the "wilderness" Phyllis and I flaked out in the back of our suburban, just before midnight, There was so much equipment in the truck, Phyllis was able to stretch out to sleep. On the other hand, I didn't have enough room to lay every thing flat on the bed. So I alternated between laying my legs flat on the bed and sitting up and laying down with my back flat and my legs in the air.

When two in the afternoon came around, most of us were ready to return to civilization. We found our equipment ,took down those beautiful antennas, repacked our vehicles and bid goodbye to Field Day for another year. Thanks to the named and unnamed helpful individuals at this event. Everyone gave one hundred and ten percent, I am sure that some worthy amateurs were inadvertently missed in my recollection of the things that happened here. For that omission, I apologize. All of us left with a sense of regret for leaving Field Day for the "real world". We also resolved to make ourselves better for the next year. Till then,

Respectfully submitted, Phyllis and Roger Simmons

THIS SPACE FOR RENT!

The Classified Section)

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Light emitting diode lights. Key chain, clip-on, pen size, 14 LED jumbo. How about a night light that will be bright enough to read by after being on for a year? Contact Paul Zellar, W8IQE

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* followed by phone number

t o disconnect

6 + auto patch number to use your assigned auto patch number

911 calls Ottawa County Central Dispatch

912 call Muskegon County Dispatch

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North Ottawa Amateur Radio Club

Box 44

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North Ottawa Amateur Radio Club

SPARK for August 2007

FUN, FOOD, AND FROLIC AT FIELD DAY 2007



The construction gang after raising KC8UNY's giant beam. Lou and Don seem to be pledging allegiance.

President	John Fischer ,KC8UNY	846-8998
Vice President:	Don Smith, N8HCS	846-1938
SPARK editor	Paul E. Zellar W8IQE	844-0807
Secretary	Roger Simmons N8RXC	
	Phyllis Simmons KB8NLN	846-3496
Treasurer	John Sundstrom N8YQD	847-4249
Activities Director	Vacant — volunteer needed!	

COMING EVENTS

August 13. The training portion of the MCECS meeting will be a field station demo/expo. Anyone with a field station please bring it along. We will be setting up at a nearby park right after the business part of the meeting. This is a great time to get new ideas from other hams and show the ideas you have setup in your station. Last year there were stations as simply as 2M FM voice in a tool box to stations with HF/vhf/uhf and packet capabilities. The more stations we have setup, the more we can all learn from each other and be better prepared for the needs of our community in the event of an emergency. Even if you don't have a field station please feel free to tag along. This is a fun event.

It is at 7:00PM at the Muskegon County emergency operations center on the corner of Harvey and Oak. It is across the street from Mercy/General Hospital. From US31 go east on Apple AVE. Turn left at first light (Plumbs on corner) follow around behind Plumbs store. Road will turn back to right, building is on right. Park in south lot, lower level. Look for antennas on cars. We will also be monitoring the 146.820 repeater.

Aug. 18 Trunk sales at Tool Max. 8:00 AM, \$5 per space.

August 23. Regular club meeting at White Pines School, 7:00 PM

Don't forget the weekly breakfast at the Idle Hour in Spring Lake, 8.00 AM

Treasurer's Report for July 2007 By N8YQD

Chase Bank:		Grand Haven Community	
as of 7/2007		Foundation beginning balance	4529.29
Prior checking balance	958.43	Investment gains	319.30
Less field Day food	-272.57	Less administrative fees	-22.84
Checking Account	685.86	-----	
Savings	3449.45	Balance as of 6/30/07	4825.75
-----		Total all funds as of 7/20/07	8961.06
	4135.31		

***** **Net Control Schedule** *****

If you are unable to keep your appointment as Net Control, **please** arrange for a replacement.

NOTE: This information is also found on the NOARC Web site at yahoo groups/w8cso/calendar

August

7 W8IQE PAUL ZELLAR
14 N8RXC ROGER SIMMONS
21 KC8UNY JOHN FISCHER
28 N8YQD JOHN SUNDSTROM

Paul Zellar and Ben Ennenga attended the annual EAA Fly-in at Oshkosh in July. Besides all the beautiful warbirds, antiques, home-builts, and just airplanes, it was noticed that their Ham radio event station was kept busy. Paul was particularly pleased to see that the EAA Museum not only had old airplanes, but also a collection of old aircraft radios.

Ben Doctor, Phyllis and Roger Simmons, Jerome Novotny , and Paul Zellar have been assembling printed circuit boards for low cost medical equipment at International Aid in Spring Lake. This is part of a program to help medical technicians in developing nations by providing test equipment for specialized troubleshooting.

500 wattmeters for electro-surgery units have already been assembled and delivered. The current project is a patient simulator for EKG machines. All the test equipment has a parts cost of \$5 or less.

JULY FOX HUNT

It was going on 7:00 in the evening of Thursday July 26th when Phyllis & I entered the car and headed for the White Pines Middle School in Grand Haven. The weather was warm and temperate, some mist hanging around the city. Thunderstorms were reported to be a possibility during the evening. None was in evidence now. At the parking lot on the north side of the school, a little group of four hams congregated. Soon, there were about a dozen or more

Antennas ranged from Andrew Youngs UHF yagi "TV" mounted on the back of his jeep to Lou Meisch's four vertical rotating doppler mounted on the roof of his vehicle, which was impressive. John Sundstrom carried a hand held smaller version of the jeep mounted yagi. There were other assorted models too numerous for me to remember. Phyllis Simmons carried a home made quarter wave loop with an attenuator hidden in a tuna can with a handle on it.

We turned on the two meter rigs and tuned in the "49" repeater for coordination. At least it started out that way. Skywarn came in and activated the repeater, so those of us with 70 Cm capability tuned 443.775. About this time Joe Veldhuis, "The Fox" issued forth with his test and then his first transmission of the hunt. We were barely organized in our suburban with Don Meyer, co-ordinating with President John Fischer, (Also hunt coordinator). Ross Gates admitted an affection for maps and drew lines of position on our board with a grease pencil. Phyllis held the loop antenna and rotated in circles attempting to obtain an aural null. My newly mounted car compass continuously pointed south east, (even to this day). I drove and substituted my calibrated eyeball for a compass.

Soon we were happily tooling down the road, going the speed limit for the five minutes between fox transmissions. John Fischer really helped out this year with a change in the warning. He gave us two minutes warning when the fox would transmit instead of the previous years one minute warning. All around Grand Haven every five minutes, The five or six teams pulled to an abrupt stop, jumped out of their cars or trucks, rotated their antennas, then sped off into the sunset for another five minutes.

Soon after the transmissions from the fox began, Joe Veldhuis started giving out GPS latitudes and longitudes. Thereby conceding to the pleas of the lost hams in their cars. There was some discussion that Joe was giving out different co-ordinates, but you couldn't prove that by me.

Eventually, Mark Derby was first to find the fox. Followed by Andrew Young and his partner. My efficient crew pulled in third. We found the fox parked in the parking lot of the Rosy Mound School. Finally John Sundstrom and his partner, Jim Miller were given the clue. I quote: " I've got a fine clue for you. I've got a real rosy spot to hide in." They found the fox and thus ended another fun filled evening with the North Ottawa Amateur Radio Club.

Respectfully submitted, Phyllis and Roger Simmons

THIS SPACE FOR RENT!

The Classified Section)

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Light emitting diode lights. Key chain, clip-on, pen size, 14 LED jumbo. How about a night light powered by three D cells that will be bright enough to read with after being left on for a year? Contact Paul Zellar, W8IQE

THIS SPACE FOR RENT!



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Street Address _____

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* followed by phone number

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6 + auto patch number to use your assigned auto patch number

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North Ottawa Amateur Radio Club

SPARK for September 2007

F

Sorry, no picture this month. I'd like to blame it on Lou, but I will take my lumps for it!

W8IQE

President	John Fischer ,KC8UNY	846-8998
Vice President:	Don Smith, N8HCS	846-1938
SPARK editor	Paul E. Zellar W8IQE	844-0807
Secretary	Roger Simmons N8RXC	
	Phyllis Simmons KB8NLN	846-3496
Treasurer	John Sundstrom N8YQD	847-4249
Activities Director	Vacant — volunteer needed!	

COMING EVENTS

Sept. 8 GRARA HAMFEST K.C. Fairgrounds, Lowell. NOARC has three tables

Sept. 24 The Holland Amateur Radio Club again offers a licensing class for Amateur Extra.

The class begins Monday September 24 and runs on the next 11 Monday nights. We'll meet from 7:15 until about 9:30 pm at the HARC training/tech center. The class fee is \$20.

If you want to sign up and want a book ordered for you at a discount, (\$18) contact Ed, KF8EV 616-772-4811 eheyboer@sbcglobal.net

Treasurer's Report for September By N8YQD

Chase Bank checking:

Grand Haven Community Fund	\$4,601.77
Checking Account	540.86
Savings	3,450.50

Total as of 8/27/07	\$8,593.13
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Phyllis, Roger, and Paul have been having more fun than they should on Thursday afternoons at International Aid.

***** **Net Control Schedule** *****

If you are unable to keep your appointment as Net Control, **please** arrange for a replacement.

NOTE: This information is also found on the NOARC Web site at yahoo groups/w8cso/calendar

September

4	KD8FCV	JIM MILLER
11	N8FQ	JOE VELDHUIS
18	KB8NLN	PHYLLIS SIMMONS
25	KB8ODB	DON MEYER

A new computer has been set up for the SSTV radar image server, far more powerful (not to mention stable) than the one it replaced. This extra computing horsepower has given us the ability to add an interesting feature: a store-and-forward repeater. Currently, the plan is to have this available for general use when there is no threatening weather present, then switch back to the radar mode when something is likely to happen (or /is/ happening).

Here's how it works:

1. You tune your rig to 445.125 MHz FM
2. Transmit a 1750 Hz tone (the "1750" button in MMSSTV, the musical note button in QSSTV)
3. If the repeater heard you, it will send a "K" in response. After you hear the "K", send your picture.
4. After the picture is finished, the repeater will retransmit it.

I just gave it a test by sending a picture of a chicken:

http://www.electroblog.com:8090/first_sstv_repeat.jpg

That was with 4 watts to a horizontal antenna from my QTH in Robinson township. Not too bad for a start...

So there you have it, enjoy!

-Joe, N8FQ

NOARC Club Meeting, August 23, 2007

August 23rd brought heavy rain while enroute to our club meeting so we, with passengers Charlie Osborn (KB8HU) and Mark Stern (N8MAZ), opted to use the back entrance of the Grand Haven Community Center. The Center is new and we were to celebrate in style, in the Woodbine Room. The "porch" covered drive kept three of us dry and upon entrance found that we needed the elevator to the first floor.

The meeting was started at 7:30 by President John Fischer and Vice President Don Smith. A motion was quickly proposed (Craig Christalaw, K8CRC) to begin with cake and ice cream; 2nd by 25 members. Motion denied.

Three of the club charter members, Charlie Osborn {KB8HU}, Greg Poel {W8GP} and Jim Wolter {W9BWC}, were in attendance. The NOARC club began August 27, 1982 with forty-nine members. Charlie told of repeater problems with a Detroit club being solved by using PL tones. The local repeater was in heavy demand, quiet only for hockey games, etc.

A question was raised as to who was the longest licensed amateur, in attendance. Answer: Jim Wolter, with fifty- two years.

Greg Poel brought pictures of the 1987 Field Day and John Sundstrom [N8YQD] brought a few copies of 1988 NOARC News. Lively discussion over these with a plate of birthday cake, made by Sally Sundstrom, made for an enjoyable evening. Thank you, Sally!

The meeting drifted apart around 9:00 P.M.

Respectfully submitted by secretaries; **Phyllis [KB8NLN] and Roger [N8RXC] Simmons**

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The Classified Section)

For Sale: Assortment of nice Zenith Transoceanic all band radios. Contact John Sundstrom , N8YQD

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OCTOBER

2 KC8UNY JOHN FISCHER
9 N8YQD JOHN SUNDSTROM
16 W8IQE PAUL ZELLAR
23 N8RXC ROGER SIMMONS
30 KB8ODB DON MEYERS
NOVEMBER 6 JOE VELDHUIS

October 2007 Treasurer's Report
By John Sundstrom-- N8YQD

Grand Haven Community Foundation-----	\$4,601.77
Chase Bank Checking	580.86
Chase Bank Savings	3,451.17

Total	\$8,633.80
-------	------------

At 7:25 in the evening, President John Fischer called the meeting to order at the White Pines Middle School, in Grand Haven. We introduced ourselves, from right to left with our names and call signs. John advised the line up for the Spring Lake Homecoming Parade would take place on Friday 6:00 PM at the Spring Lake Police Department EOC.

Treasurer John Sundstrom talked about dues. Next year the three year package will be \$70 or \$75 for a family. Checks should be made out to the North Ottawa Amateur Radio Club.

There was a question posed if anyone knew if the Echolink was working. Joe Veldhuis said that the Austin Texas link is working. John Fischer said a site in England is also working.

Phyllis Simmons asked if we are going to work on Te-Ne Keys. John Fischer said he is working on painting bases. Craig Christilaw said he would help drill the keys at Greg Schipper's house when he gets back from his nine day trip with Northwest Airline. We need to make more connectors. Boyd Mason may have more contact springs for the keys.

John Sundstrom told of the Holland Hamfest on October 20th.

John Wehmer presented Certificates of gratitude to members who helped with the Holland Tulip Festival.

It was mentioned that the IRLP was not working.

Congratulations are due to Jim Miller (KD8FVU). He has accepted the Chairmanship of the position of Activities Director.

A brief discussion took place of having a special events station at the Christmas Parade in Grand Haven this year. No definite plans were made.

"Lucky Dave Fischer" won the 50/50 drawing. Now you can have that new motor home Dave !

The highlight of the evening took place when Paul Zellar made a presentation on Troubleshooting Circuits. He outlined seven steps of logical methods to correct equipment failure. It was complete with anecdotes and interesting experiences.

At the end of his lecture, and after I had made copious notes, Paul handed out an Equipment Troubleshooting Guide which contained most of the material in his lecture.

We drank coffee, munched on cookies and sliced apples, courtesy of Phyllis Simmons.

The meeting ended when the discussions localized into small groups of two or three and we wandered off the premises around 8:55 PM.

Respectfully submitted, Phyllis & Roger Simmons

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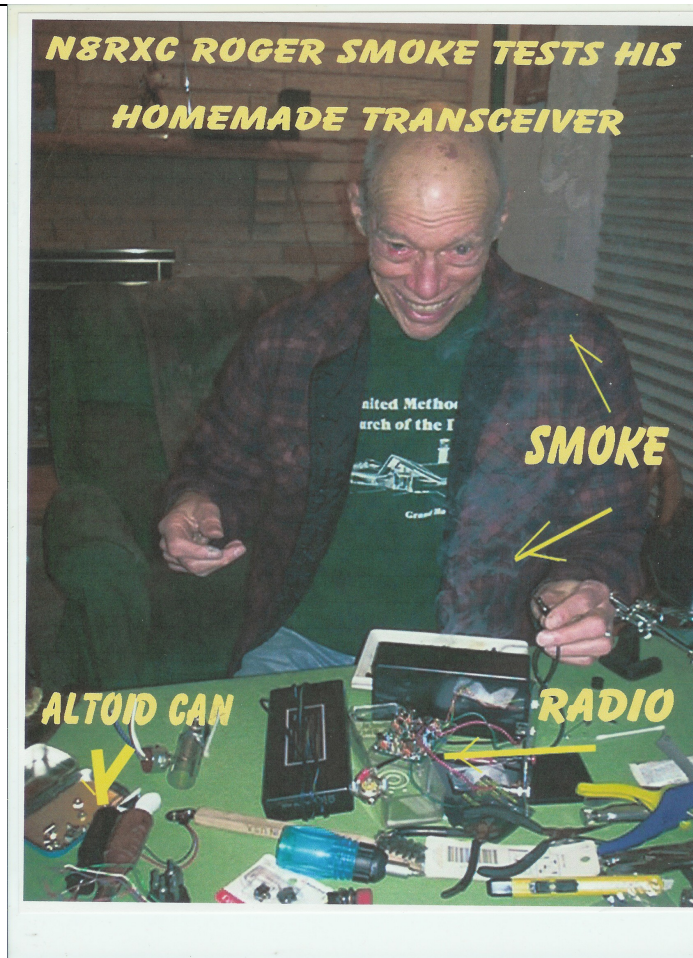
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North Ottawa Amateur Radio Club

SPARK for November 2007



Look out, QRPers, Roger is on the prow!

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SPARK editor	Paul E. Zellar W8IQE	844-0807
Secretaries	Roger Simmons N8RXC	
	Phyllis Simmons KB8NLN	846-3496
Treasurer	John Sundstrom N8YQD	847-4249
Activities Director	Jim Miller KD8FCV	

COMING EVENTS

November 17th Hoffmaster State Park is having a "Trail Run" at 8:45 in the morning

November 22 **HAPPY THANKSGIVING, EVERYONE!**

November 29 Because of Thanksgiving the club meeting will be held on this date.

EDITOR S NOTE: Events are a little skimpy this month. I probably have missed some that you know about. Please let me know of events that should be posted here for future issues!

W8IQE

******* Net Control Schedule *******

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November

4	KD8FCV	JIM MILLER
11	N8FQ	JOE VELDHUIS
18	KB8NLN	PHYLLIS SIMMONS
25	KB8ODB	DON MEYER

The Holland Swap Meet was great! There was a good crowd and many bargains to purchase. There was even some items sold by NOARC members. I know because I bought some! The Holland club always seems to put on a good show. These meetings are always a good time to see old friends and make new acquaintances.

November - a great mobile satellite month. Bob WB4AOR says November should be a great month for working Amateur Radio satellites from your Mobile FM rig. There are 7 satellites you can work from your mobile FM rig, including PCSAT-1 which should fully recover by this weekend and last for 2 or more weeks. So now is the time to get going with live satellite contacts via these easy FM satellites, or setting up a SATGATE (Igate).

DOWNLINK SATELLITE

145.825 ISS APRS digipeater, 145.825 PCSAT-1 (recovery expected 3 Nov)
145.825 ANDE-1 (re-entry expected next month), 435.225 GO-32 +/- 10 KHz and 9600 baud
435.300 AO-51 *FM Voice* +/- 10 KHz, 436.795 SO-50 *FM Voice* +/- 10 KHz
436.795 AO-27 *FM Voice* +/- 10 KHz, As you can see, there will be over 40 passes per day with 18 for the 1200 baud satellites, 6 per day for the 9600 baud GO32 and 18 for the voice birds.

All 1200 baud pass times are between about 6 AM to 1800 local sun time in the Northern Hemisphere.

GO-32 and AO-51 voice birds are in the morning and evening, AO-27 is in the afternoon. It is trivial to know when to operate these birds WITHOUT A PC. Please see the manual-tracking page: > <http://www.ew.usna.edu/~bruninga/MobileLEOtracking.html> The packet path on 145.825 is VIA ARISS for all three satellites. The path for GO-32 is VIA 4XTECH and uses two different uplinks: 145.85 for APRS software and messages. 145.93 for all Mic-E, D7 and D700 radios. That's more than one pass per hour on 145.825. Lots of contact potential from your mobile...

For APRS birds: <http://www.ew.usna.edu/~bruninga/pcsat.html>, <http://www.ew.usna.edu/~bruninga/iss-faq.html>
<http://www.ew.usna.edu/~bruninga/ande-ops.html>, <http://www.ew.usna.edu/~bruninga/GO32-ops.html>

For AMSAT birds: <http://www.amsat.org/amsat-new/satellites/status.php>,

For many of these satellites, you don't even need a tracking program. Just a slip of paper on the dashboard... See: > <http://www.ew.usna.edu/~bruninga/MobileLEOtracking.html>

> The best antenna is a 19.5" whip in the center of your roof. 5 dBi gain on the 2m uplink and almost 8 dBi gain for the very weak UHF downlink (above 25 degrees)... Watch for special event info. WB4APR, Bob
(From West Michigan Hams)

There was a full moon out six days before Halloween . It was seven thirty in the evening when President John Fischer called the meeting to order. He opened by having the members identify themselves by their names and call signs. All sixteen hams responded.

Craig Christilaw suggested that we have the Christmas Party at the Community Center in Grand Haven this year. After an affirmative discussion, Craig advised he would check the openings for a room on December 13th or alternatively 20th.

President Fischer told the group that Hoffmaster State Park is having a "Trail Run" on November 17th at 8:45 in the morning. They are looking for help from some west Michigan amateur radio operators .

Don Meyer requested, in installing a weather station at the Spring Lake EOC to be tied in with W8CSO's call sign in a digital mode. The station will be equipped with sensors for humidity, rain gauge snow levels and have a computer output. George "Skip" Verduin is working on a Linux based format connection to the State digital 2 meter Wi-fi computer system.

John Fischer announced that Bill King is leaving the job of Net Control for Sky-Warn. Ernie Lloyd has agreed to take over the function. Don Meyer said he could monitor the "82" repeater out of Muskegon along with the 440 MHz and the "49" repeater from his station in Central Dispatch.

President Fischer announced that Steve Vanderhill, (who was present at this meeting) has agreed to head the Ottawa County ARES EOC. Congratulations, Steve! You continue to be an excellent asset to amateur radio.

A brief discussion was held regarding some of the volunteer traffic director's experiences being rendered as one fingered salutes by passing motorists.

Lucky Don Meyer won the 50/50 drawing.

The highlight of the evening was an excellent presentation by Paul Zellar and Lou Meisch about antennas. Paul demonstrated connectors, including techniques for attaching coaxial cables. Lou brought an impressive display of commercial and home brewed antennas. The demonstration was complete with construction techniques.

Upon completion of the lecture, Gordon Stockhill motioned that "We show our appreciation to these fine gentlemen for their presentation and adjourn the meeting". The motion was seconded by Craig Christilaw. It was unanimously approved by an enthusiastic round of applause.

As soon as we took down the displays of antennas and loaded Lou's van, the members exited the building while talking among themselves. This was shortly after nine o'clock Eastern Standard Time.

Respectfully submitted, Phyllis and Roger Simmons

THIS SPACE FOR RENT!

The Classified Section)

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Light emitting diode lights. Key chain, clip-on, pen size, 14 LED jumbo. How about a night light that will be bright enough to read by after being on for a year? Contact Paul Zellar, W8IQE

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1 year Dues Renewal Form. Single \$25 Family \$30. Buy 3 years for \$70 and you get a Mi Tax credit of \$35 on your 2005 return. Please fill out mail to Box 44 Ferrysburg, MI 49409

Name _____ Call _____

Street Address _____

City _____ State _____ Zip _____

Phone Number _____ E-mail _____

W8CSO (NOARC) Repeater information: If the NOARC repeater goes down , use 145.490 simplex

145.490 (- offset) tone 94.8 main receiver ; Grand rapids link receiver tone 91.5

Codes : Time of day 400; DTMF Test 325; signal report 750

Phone patch Instructions:

* followed by phone number

to disconnect

6 + auto patch number to use your assigned auto patch number

911 calls Ottawa County Central Dispatch

912 call Muskegon County Dispatch

Club Net is every Tuesday night at 8PM. Net Controllers please note your assignment found on the calendar and be sure to get a substitute if you cannot take the net. Club Web Site <http://www.qsl.net/noarc/>. Site has information on Te Ne KE, club events and net schedules. All licensed amateurs are eligible for membership in the North Ottawa Amateur radio Club. Board meeting held 1 hour before meeting at meeting site. Annual dues are payable in December . 2007 Dues are \$ 25.00 individual and \$ 35.00 family or \$70 for 3 years. Please send dues to NOARC Box 44, Ferrysburg, MI 49409. Please keep the club Treasurer (sundstrj@gvsu.edu) informed as to your CURRENT e-mail address if you get the newsletter electronically or US mail address if receive it postal.

North Ottawa Amateur Radio Club

Box 44

Ferrysburg, MI 49409

Postmaster: Return Requested



North Ottawa Amateur Radio Club **SPARK for DECEMBER 2007**



This prize will be won by a drawing at the December meeting. It should make a Merry Christmas for someone!

President	John Fischer ,KC8UNY	846-8998
Vice President:	Don Smith, N8HCS	846-1938
SPARK editor	Paul E. Zellar W8IQE	844-0807
Secretary	Roger Simmons N8RXC	
	Phyllis Simmons KB8NLN	846-3496
Treasurer	John Sundstrom N8YQD	847-4249
Activities Director	Jim Miller KD8FCV	

COMING EVENTS

December 1 Holland Mini Swap

Jingle Bell Parade

December 13 NOARC Christmas Party!

December 16 Lowell Hamfest at Lowell H.S., 11700 Vergennes, Lowell. 9AM-noon.

145.270, - offset, 94.8pl

******* Net Control Schedule *******

If you are unable to keep your appointment as Net Control, **please** arrange for a replacement.

December

4 N8YQD JOHN SUNDSTROM

11 N8RXC ROGER SIMMONS

18 W8IQE PAUL ZELLAR

25 No Net! MERRY CHRISTMAS!!!

The night was cold and windy, even a little snow in the air, when President John Fischer called the meeting to order. We met in the cafeteria of the White Pine Middle School on Griffin St, Grand Haven. The room was draped with wire antennas and an air of anticipation hung like a spider's web. John requested the members to announce their call signs and names for the group.

All eleven sturdy members sounded off. We had already started on the coffee and cookies that Phyllis had baked.

John Sundstrom motioned that in as much as November is the month appointed for election of officers, for the next year, that we nominate the same officers for 2008. The officers were elected by unanimous acclaim. They are: President John Fischer, Vice President: Don Smith, Treasurer: John Sundstrom, Secretaries: Phyllis and Roger Simmons, News Letter Editor: Paul Zellar, Activities Director: Jim Miller. Congratulations lady and gentlemen.

John Sundstrom led a discussion of tax credits involved in using the Grand Haven Community Foundation with our collected dues.

Ben Docter was recently discharged from the hospital. He was suffering an electrical anomaly with his heart. Welcome back to the world Ben.

The upcoming Christmas Party for the club will be December 13th at the Community Center in Grand Haven. The event will take place at 6:30 PM and members are invited to bring their spouses or guests, a dish to pass and table service. Meat and coffee will be furnished. John Sundstrom proposed having a nice door prize for the party. All present agreed. John has subsequently purchased a Yeasu mobile (or base station) radio, with 65 Watts, 221 memories.

President Fischer told the club that the "Ham in a Day" Class will be held on January 26th 2008.

John advised that the Muskegon Amateur Radio Club has requested help with the Hoffmaster Trail Run on November 17th at 8:45 AM for the 10:00 O'clock run. Due to the rugged terrain, we were requested to meet in that extended time span.

The Jingle Bell Parade will be held on December 1st in Downtown Grand Haven volunteers are needed to appear at the Grand Haven Police Department Training Room at 5:00 PM.

Phyllis Simmons was the lucky fifty-fifty drawing winner.

The program was presented by three dedicated proficient and knowledgeable gentlemen: Joe Veldhuis, Ben Docter and George "Skip" Verduin. The program was outlined by "Skip" K8RRA. It will be included as a separate file with this report.

The programs were accompanied by hands on live demonstrations, radios and computers including antennas strung throughout the cafeteria.

Thanks for a great presentation!

Respectfully submitted; Phyllis and Roger Simmons

During the November meeting a handout from K8RRA, Skip, was received that explained a bit about digital operating modes. Here is a copy of that information:

NOARC (W8CSO) monthly meeting for November 2007 brings together those who have done digital with those who want to do digital in round table fashion. The topic of the night will focus on digital modes of communication. This event began with Paul, W8IQE and passed to phyllis KB8NLN on her stint as net host for the Tuesday evening of 9/18/07. The majority of interest expressed included digital mode experimentation in the near future. This round table is intended to demystify digital modes and provide enough information to help for a quick and straight forward implementation of the digital mode of choice.

There are no limits to the digital modes under discussion. The rsponses on net set a framework which may be expanded as wanted. The pre-meeting modes include:

MODE	PRESENTER	DEMO	PAPER
VHF 1200 baud Packet (DATA)	Skip-K8RRA	Portable station setup	MI-DRG map
UHF SSTV	Joe-N8FQ	WX Radar	
HF (VHF) Winlink 2k email	Ben-K8AR	Mail to/from K8RRA	Winlink map
TCP/IP Browsing &EMAIL	Skip-K8RRA	Portable station added	jnos & wiki
FAX IMAGES	Joe-N8FQ		
APRS	Joe-N8FQ		
RTTY	Joe-N8FQ		
HF Keyboard (PSK, etc.)	Joe-N8FQ		
G4FON &? Internet tools	Ben-K8AR		

Demonstrations were hands on for anyone who wanted the experience.

Here is something to do in the comfort of your shack if you want to hear what digital modes sound like on the air: Google the phrase amateur radio digital mode ‘sound samples”and you will get 76 thousand hits... Go for it! Here are a couple of sample web sites that will demonstrate the signal for many digital modes— there are over a hundred total, but I have not looked for duplicates:

[Http://www.kb9ukd.com/digital/](http://www.kb9ukd.com/digital/)

[Http://www.dzone.com/cgi-bin/dir/jump2.cgi?ID=12996](http://www.dzone.com/cgi-bin/dir/jump2.cgi?ID=12996)

[Http://www.wb8nut.com/digital.html](http://www.wb8nut.com/digital.html)

[Http://det.bi.ehu.es/~jtpjatae/sound.html](http://det.bi.ehu.es/~jtpjatae/sound.html)

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