

SPARK

the monthly newsletter of the

North Ottawa Amateur Radio Club

January 2012

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A great turnout – and a surprise guest – for the 2011 Christmas party! See Roger & Phyllis' report on the next page!

NOARC board of directors

President

Paul Zellar, W8IQE – president@w8cso.org – (616) 844-0847

Vice President

John Fischer, KC8UNY – vp@w8cso.org – (616) 402-0665

Secretaries

Roger & Phyllis Simmons, N8RXC & KB8NLN – secretary@w8cso.org – (616) 846-3496

Treasurer

John Sundstrom, N8YQD – treasurer@w8cso.org – (616) 847-4249

SPARK Editor

Joe Veldhuis, N8FQ – editor@w8cso.org – (616) 834-4989

Activities Director

**** VACANT ****

NOARC 2 meter repeater

W8CSO/R – 145.490 output, 144.890 input

Main RX: PL 94.8 – Grand Rapids RX: PL 91.5 – EchoLink: N8FQ-R #469574

Minutes of the December 2011 meeting

The party was supposed to start at 6:00pm on Thursday evening. Phyllis and I started by dropping off table ware, food stuffs, pop, coffee and tea, two pies and decorations for the whole meeting room around 5:30. Treasurer John Sundstrom and President Paul Zellar were also there getting the preparations for the festivities. Around six o'clock, members with their wives appeared with their individual contributions to the pot luck.

Soon we were gathered around the tables which were festooned with white table cloths and assorted Christmas bows, candle sticks, statuettes, etc. Families caught up on each others affairs and what had happened since the last meeting.

Jerry Brower, an amateur radio operator who just happened by in the library, looking for a book , walked into the party. He decided to stay and partake the repast with the club. Everyone made him welcome. He may even decide to attend a club meeting sometime.

Soon, someone called out to start eating. The food had been laid out cafeteria style along the wall. There followed a discussion as to who should be first in line to eat. Someone said it should be the oldest person present. Someone else said it should be the youngest. Seeing Russell Cox behind me with a yellow shirt on, I said it should be a person with a yellow shirt on. The rest of those present ignored my recommendation and started scooping up food from the table.

There was plenty of it there. Ham, scalloped potatoes, salad, hors d'oeuvres (or something like that), casseroles, beans, peach pie, coconut macaroons. cookies. coffee, tea, ginger ale, Pepsi and bottled water That is all I could eat (or remember.) For a while the room turned silent as we ate.

After a respectable time, Treasurer John Sundstrom opened up the time for the door prizes. Tickets were passed out to each person present. A like numbered ticket was put in a bowl. An unlikely person was selected to draw a winning ticket from the bowl. As winners were selected, the bowl was passed to another drawing person. The bowl was passed until all the door prizes were distributed. These consisted of ARRL calenders, ARRL publications, repeater directories and an antenna manual.

President Paul Zellar then came up with the surprise of the night. The drawings continued for LED flashlights that he had brought. Everyone came up with a prize or flashlight.

As the tables were cleaned, the guests picked up their winnings and left in an orderly fashion. Like Lou Meisch always says " A good time was had by by all". Merry Christmas and a big 73's to y'all.

Respectfully submitted: Phyllis & Roger Simmons

January 2012 treasurer's report

| | |
|---------------------------------------|----------|
| Checking account: November 30 balance | 1,755.40 |
| check John Sundstrom for ARRL books | -122.15 |
| Dues payment | 25.00 |
| ----- | |
| Balance December 26 | 1,658.25 |

A end of year balance of our Grand Haven Community fund will be included in the next report.

January 2012 calendar of events and net control schedule

Every Tuesday:

NOARC net/coffee at Russ' in Grand Haven
8:00 PM

Every Wednesday:

Breakfast at Idle Hour Restaurant in Spring Lake
7:00 AM

Every Saturday:

Breakfast at Vic's Restaurant in Spring Lake
7:00 AM

January 1:

Straight Key Night
All bands, 0000-2359z

January 15:

Hazel Park Hamfest – Hazel Park, MI
<http://hparc.org>

January 19:

NOARC monthly business meeting
Spring Lake District Library, 6:30 PM

NOARC net control schedule:

January 3: **Bev, KC8JWA**
January 10: **Roger and Phyllis, N8RXC/KB8NLN**
January 17: **Joe, N8FQ**
January 24: **Paul, W8IQE**
January 31: **John, N8YQD**

February 7: **Bev, KC8JWA**

February 14:

February 21: **Joe, N8FQ**

February 28:

Keep an eye on the events calendar on w8cso.org for net control openings, and e-mail me at editor@w8cso.org if you want to get on the list!

Membership roster

| Call | Last Name | City | State | Internet Address | 2011 | 2012 | 2013 |
|---------------|------------|--------------|-------|--|------|------|------|
| AB8CD | Anderson | Spring Lake | MI | ab8cd@arri.net | | | |
| KB8ODC | Camfield | Grand Haven | MI | | | | |
| K8CRC | Christilaw | Spring Lake | MI | craigchristilaw@sbcglobal.net | 1 | 1 | 1 |
| | Clive | Grand Haven | MI | | | | |
| wb0dgf | Cox | Spring Lake | MI | rgcox2@gmail.com | 1 | | |
| kc0ect | Cox | Spring Lake | MI | russ10cox@gmail.com | | 1 | |
| K8AR | Docter | Spring Lake | MI | k8ar@sbcglobal.net | 1 | 1 | |
| WB8SOE | DenBraber | Grand Haven | MI | wb8soe@juno.com | | | |
| KC5LNG | DeYoung | Grand haven | MI | ddeyoung@ameritech.net | | | |
| W9DBE/W9LBE | Ensign | Spring Lake | MI | eeгах1@gmail.com | 1 | 1 | 1 |
| KC8ZCR | Dood | Spring Lake | MI | gdood@netonecom.net | 1 | 1 | 1 |
| KC8UNY | Fischer | Grand Haven | MI | kc8uny@arri.org | 1 | | |
| | Freeman | Spring Lake | MI | | 1 | 1 | 1 |
| K8EXB | Furton | Grand Haven | MI | dfg@inbox.com | 1 | 1 | 1 |
| N8III | Fuller | Nunica | MI | | | | |
| N8GMY | Gates | Muskegon | MI | rossq52@gmail.com | 1 | 1 | 1 |
| kc8zep | Grzyb | Spring Lake | MI | mgrzyb@sbcglobal.net | | | |
| KF8VN | Groenleer | Spring Lake | MI | kf8vn@home.com | 1 | 1 | 1 |
| WA8MTJ | Hinkle | Ferrysburg | MI | | 1 | | |
| KC8OVS | Mackay | Grand Haven | MI | | | | |
| n8kyo | Meisch | Eustis | FL | | 1 | | |
| KB8ODB | Meyer | Ferrysburg | MI | kb8odb@sbcglobal.net | | | |
| w8jrm | Miller | Grand Haven | MI | | | | |
| KC8DEI | Moss | Grand Haven | MI | kc8dei@mmoss.org | | | |
| K8CCJ | Novotny | Muskegon | MI | 63olds@prodigy.net | | | |
| AB8EF | Platt | Grand Haven | MI | jplatt@rami.com | | | |
| KC8SKS | Schell | Grand Haven | MI | skyking@novagate.com | | | |
| KC8HXO | Schippers | Grand Haven | MI | kc8hxo@chartemi.net | | | |
| N8RXC / KB8NL | Simmons | Spring Lake | MI | prsimmons@novagate.com | 1 | 1 | 1 |
| N8HCS | Smith | Grand Haven | MI | donaldjr@ameritech.net | | | |
| K8MAZ | Stern | Spring Lake | MI | mes23@comcast.net | 1 | 1 | 1 |
| KA8UQT | Stockhill | Grand Haven | MI | Flashgordon1@earthlink.net | 1 | | |
| N8YQD | Sundstrom | Grand Haven | MI | sundstrj@gvsu.edu | 1 | 1 | 1 |
| NF8L | Tanis | Grand Haven | IN | rtanis@mac.com | 1 | | |
| KC8JWA | Traxler | Nunica | MI | kc8jwa@hotmail.com | | | |
| K8LLG | Tripp | Grand haven | MI | | 1 | | |
| n8UJD | Vanderhill | Holland | MI | | | | |
| KB8VEE | VanderMel | Fruitport | MI | kb8vee@comcast.net | | | |
| N8FQ | Veldhuis | Grand Haven | MI | jvn8fq@gmail.com | 1 | | |
| K8RRA | VerDuin | Grand Haven | MI | verduin@ameritech.net | | | |
| WB8JSR | Wehmer | West Olive | MI | wb9jsr@arri.net | | | |
| N8KCW | Whisman | Grand Haven | MI | whisman@novagate.net | | | |
| W9BWC | Wolter | Spring Lake | MI | wolterj@gvsu.edu | | | |
| KC8OJY | Wyant | Coopersville | MI | | 1 | | |
| N8ARY | Young | Grand Haven | MI | w8sco@n8ary.com | | | |
| W8IQE | Zellar | Spring Lake | MI | pzellal@sbcglobal.net | 1 | | |

If you don't see a "1" by your name in the 2012 column, your club membership has expired – make sure to mail in your dues! You can use the form on the next page.

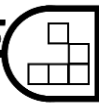
Swap 'n shop

For Sale: Zenith Trans-Oceanic all-band radios – John Sundstrom, N8YQD

For Sale: Textbooks on basic electronic theory, multimeters and oscilloscopes – Paul Zellar, W8IQE

Wanted: Good, working tubes – Jerome Novotny, K8CCJ - 231-206-1388

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616-502-3622



NOARC membership form

Dues:

Individual: \$25 yearly or \$70 for 3 years

Family: \$35 yearly or \$75 for 3 years

Name: _____ **Callsign:** _____

Address: _____

City: _____ **State:** _____ **Zip:** _____

Phone: _____ **E-mail:** _____

Make checks payable to **NOARC**

Mail form to:

NOARC

PO Box 976

Grand Haven, MI 49417

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February 2012



IN THIS ISSUE

Events calendar.....pg 2

Swap 'n Shop.....pg 3

Yep, it's January in Michigan!

The January club meeting was canceled due to weather and an expected low turnout. Check **w8cso.org** for updates!

NOARC board of directors

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8:00 PM

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7:00 AM

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7:00 AM

February 11:

Cherryland ARC Hamfest, Traverse City
<http://cherrylandarc.com>

Road race
Grand Haven Public Safety, 8:00 AM

February 18-19:

ARRL DX Contest - CW
Feb 18, 0000 UTC – Feb 19, 2359 UTC

February 23:

NOARC monthly business meeting
Spring Lake District Library, 6:30 PM

NOARC net control schedule:

February 7: **Bev, KC8JWA**

February 14: **Paul, W8IQE**

February 21: **Joe, N8FQ**

February 28: **Roger, WBØDGF**

March 6:

March 13: **Bev, KC8JWA**

March 20: **Joe, N8FQ**

March 27:

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
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City: _____ **State:** _____ **Zip:** _____

Phone: _____ **E-mail:** _____

Make checks payable to **NOARC**

Mail form to:

NOARC

PO Box 976

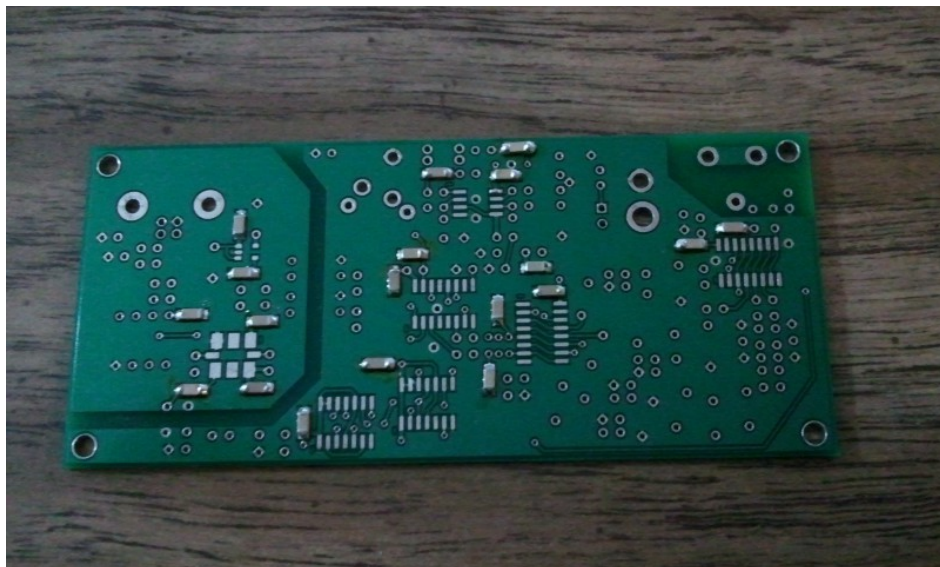
Grand Haven, MI 49417

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March 2012



A solution to the age-old problem of SMT soldering was the program for February's meeting. Read about it on page 2!

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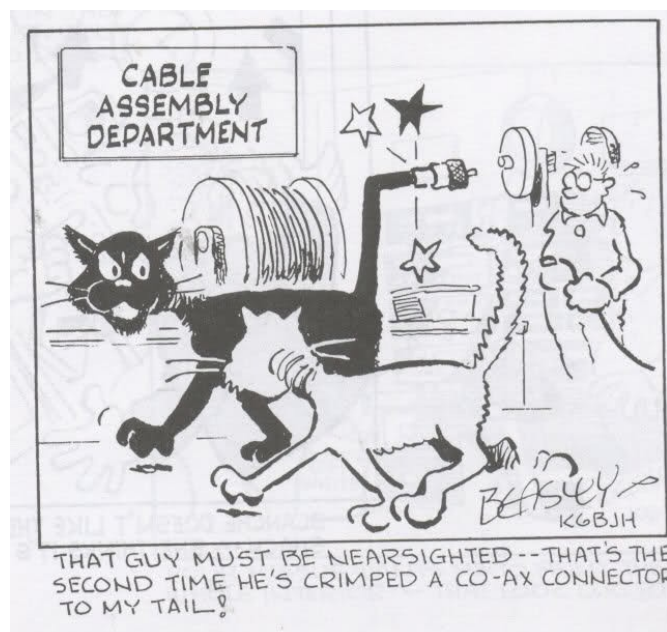
It was a cool evening, not bad for mid-winter, but not as warm as it had been in recent days, either. Shortly after 6:30 PM, a small group of stalwarts made their way to the Spring Lake District Library for what would amount to the February business meeting.

First on the scene was Joe, N8FQ, who began unpacking the necessary equipment for the evening's program. Paul, W8IQE walked in a few minutes later, followed by Jerome, K8CCJ and Alan, KC8SRS. As 7 PM came and went, we decided that no one else was going to show up. The decision was made to forgo the formal business portion of the meeting and get straight to Joe's presentation on reflow soldering.

For the demo, Joe brought in a SoftRock Ensemble RX II software-defined receiver kit which he'd bought nearly a year before and had yet to start working on, along with a tub of solder paste and a 500-watt heat gun. Some discussion took place as Joe demonstrated the reflow technique for soldering surface-mount components. Using a couple of toothpicks, a small dab of solder paste was placed on each of the circuit board's pads, then the components (0.01 μ F capacitors in this case) were adhered roughly in place. The heat gun was then directed at them for about a minute, long enough for the solder to flow. As the working temperature was reached, the solder drew itself neatly onto the pads, and the components centered themselves perfectly in place.

The demonstration concluded at about 7:50 PM, and the assembled crowd promptly disbursed.

-Joe, N8FQ



Meanwhile, in Florida...

From: Roger Simmons <rogersimmons6@gmail.com>
To: Joe Veldhuis <jvn8fq@gmail.com>
Subject: Thanks for the snow reports.
Date: Mon, 27 Feb 2012 13:14:21 -0500

Joe,

Here is what we've been doing as Snow Birds. You decide if it's worthy of the Spark.

It was four o'clock in the morning. It was dark in the storage room where Phyllis and I were sleeping. Some noise outside woke us both up. She soon had a flashlight in her hand and told me the time. Time to get up. A couple days ago, my sister Judy and brother in law told us that we were to receive a balloon ride in lieu of a birthday and Christmas present this year.

At four thirty, we departed the La Chateau Apartments Don & Judy's home, and headed south on US-1 from Vero Beach. It was dark and Judy, the driver, was the only one awake in the car. Sometime later, (don't ask me when) probably a half to forty minutes driving time, we pulled into the McDonalds parking lot in Port St. Lucie Florida. We staggered out of the car and into the restaurant. It was to be the meeting place between the High on You Balloon Company and ourselves. As I stood in line for service, (a cup of coffee), I noticed the guy in front of us had a "High on You Balloon tee shirt on. "Are you Rick?" I asked. " No, I'm Duane", he answered. " Rick will be here soon ". I picked up the tab for Duane's breakfast, (Two dollars and fifteen cents), hoping to make some brownie points. This crew would be handling the equipment with our lives in their hands. "Thanks" he said and walked out to his car to wait for the rest of the crew in the dark.

The High on You Balloon Company arrived. You knew this because it was written on the sides of the nine passenger van. Painted on the whole vehicle was a colorful picture of the balloon. On the rear, an extended platform containing the basket, balloon and apparatus used to make it float in the air. "Rick" Sommers, (not his real name, changed to protect the innocents), was the driver and pilot. Phyllis, Don and Judy, myself and three crew members boarded the van. Rick launched a helium filled yellow balloon. It wafted nearly straight up about a hundred feet then angled north west, toward the Atlantic Ocean. Perfect. Rick jumped into the van and drove for fifteen or twenty minutes in a south east direction. We arrived at an open field and the crew went to work

It was still dark out. They unfolded the balloon from the basket. There was nearly a hundred feet of it trailing the van. Rick tied a line to the rear of the van. The rest of the crew spread out the balloon as far as possible. Next two of them took a hoop at the base. While Rick tilted a fire breathing dragon, or so it seemed. A three foot blast of flame roared forth into the gaping mouth of the behemoth creature. It was impressive. In the still of a quiet dark morning, in the empty field, the large creature came to life. It rose up and crew members manned ropes to control it. I tried in vain to photograph the scene. It was still way too dark, but the sun was starting to brighten the eastern sky. When the craft was nearly vertical, the pilot boarded the basket and invited the rest of us to do so. I smiled at Don, 81 years old as he struggled to get in the basket. Then it was my turn. Not so funny when I tried it. Three

persons, who shall remain unknown, had to help me in. When the two ladies got on, we were ready.

It was a very small basket indeed. The five of us crowded into this tiny carriage, no more than four foot square. The rail was no higher. It was reinforced basket woven. There were four legs forming a framework for the powerful flame thrower. Rick pulled the ignition cord unleashing that loud flame again into the bowels of the balloon. It was dramatically beautiful. I was looking down when , all of a sudden, the ground silently drifted away. We were off and away. The view was spectacular.

The countryside drifted away as tiny cows and cars traversed the ground below us. Dawn snuck up on us as smoothly as our departure. My "station" was on a corner next to the control panel. I don't know what the other instrument was, but I recognized the altimeter. "Is that 700 feet" I asked, trying to impress the pilot and myself. "Naw", he said, " Its old. You have to add 200 feet to that. We're about 900 feet. I had my two meter hand held with me and in the dark crowded conditions of our basket, tried to contact another amateur radio operator. I couldn't find a repeater in my directory. So I tried the National Listening Frequency of 145.000 Mhz. No response so I tuned up and down the frequencies. I heard two hams having a QSO (conversation). They were speaking English. The other QSO was in Spanish. I didn't understand them. Neither responded to my balloon mobile pleas. In no time,(about 45 minutes) the sun was up. Our pilot started looking for a place to land. He spotted field in a residential subdivision. Aiming for the field, he called directions the ground crew. The van was also a chase car. The directions were given over what looked like, to me, a family radio, strapped to one of the four stanchions. As we dipped closer to the ground, the pilot alternately pulled the cords releasing hot air from the balloon and blowing more hot air from the flame thrower. It soon became obvious that we were going to miss the field in favor of the subdivision.

We descended nearly missing a light pole. " Face the direction of our drift. Bend your knees to form a shock absorber. Stay in the basket and hold on." He said. We came down, possibly three or four miles an hour, with a harder than expected thump. There was no spring in the basket. We had landed on a couples driveway. About six feet from someone's car. An Asian gentleman came out of his front door less than ten feet from our balloon. Seeing the surprised look on his face, we said "good morning." He good naturedly said "good morning".

Our ground crew dragged our balloon to the field we had aimed for and then to a paved street . We then disembarked from the basket. The ground crew collapsed the balloon back into the hundred foot strip of Dacron or what ever it is made of. They gathered it into bunches. About six foot sections were tied off with Velcro straps. The whole thing was then placed on everyone's right shoulders and marched to the basket where the pilot folded it back into the basket. We loaded into the van and drove to a nearby park. There, the crew and pilot laid out a table complete with Champaign, blueberry muffins and orange juice. The pilot made a nice toast being grateful for a trip to the sky and safe return to earth. We then packed up the van again and were driven back to the Mc Donald's , the restaurant we had started from.

Respectfully submitted;

Phyllis and Roger
KB8NLN N8RXC

March 2012 calendar of events and net control schedule

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8:00 PM

Every Wednesday:

Breakfast at Idle Hour Restaurant in Spring Lake
7:00 AM

Every Saturday:

Breakfast at Vic's Restaurant in Spring Lake
7:00 AM

March 3-4:

ARRL DX contest – phone
March 3, 0000 UTC – March 4, 2359 UTC

March 17:

Michigan Crossroads Hamfest, Marshall
<http://www.w8df.com/hamfest.html>

March 22:

Skywarn training, Fillmore St. Complex main conference room
12220 Fillmore St
7:00 PM – 9:30 PM

March 29:

NOARC monthly business meeting
Spring Lake District Library, 6:30 PM

NOARC net control schedule:

March 6: **Joe, N8FQ**
March 13: **Bev, KC8JWA**
March 20: **Paul, W8IQE**
March 27: **John, N8YQD**

Keep an eye on the events calendar on w8cso.org for net control openings, and e-mail me at editor@w8cso.org if you want to get on the list! We still need volunteers for April!

FCC Releases New Rules for 60 Meters

On November 18, the FCC released a *Report and Order* ([R&O](#)), defining new rules for the 60 meter (5 MHz) band. These rules are in response to a *Petition for Rulemaking* ([PRM](#)) filed by the ARRL more than five years ago and a June 2010 *Notice of Proposed Rulemaking* ([NPRM](#)). In the *R&O*, the FCC replaced one of the channels in the band, increased the maximum authorized power amateur stations may transmit in this band and authorized amateur stations to transmit three additional emission designators in the five channels in the 5330.6-5406.4 kHz band (60 meters).

The Amateur Radio Service in the United States has a secondary allocation on 60 meters. Only those amateurs who hold General, Advanced or Amateur Extra class licenses may operate on this band. Amateur stations must not cause harmful interference to -- and must accept interference from -- stations authorized by any administration in the fixed service, as well as mobile (except aeronautical mobile) stations authorized by the administrations of other countries.

Here is a summary of the changes. Please note that these changes will take effect **on March 5, 2012**.

- The frequency 5368.0 kHz (carrier frequency 5366.5 kHz) is withdrawn and a new frequency of 5358.5 kHz (carrier frequency 5357.0 kHz) is authorized.
- The effective radiated power limit in the 60 meter band is raised by 3 dB, from 50 W PEP to 100 W PEP, relative to a half-wave dipole. If another type of antenna is used, the station licensee must maintain a record of either the antenna manufacturer's data on the antenna gain or calculations of the antenna gain.
- Three additional emission types are authorized. **Data** (emission designator 2K80J2D, for example, PACTOR-III), **RTTY** (emission designator 60H0J2B, for example, PSK31) and **CW** (150HA1A, i.e. Morse telegraphy by means of on-off keying). For CW, the carrier frequency must be set to the center frequency. For data and RTTY the requirement to transmit "only on the five center frequencies specified" may be met by using the same practice as on USB, i.e. by setting the suppressed carrier frequency of the USB transmitter used to generate the J2D or J2B emission to the carrier frequency that is 1.5 kHz below the center frequency.

Automatic control on data and RTTY is not permitted; a control operator must be in a position to exercise either local or remote control over the transmitter. The FCC noted that "amateur operators must exercise care to limit the length of transmissions so as to avoid causing harmful interference to Federal stations." This is a very important caveat: If a Federal station requires amateurs to cease using a frequency, the amateur station must be able to do so without delay.

Read more:

<http://www.arrl.org/news/fcc-releases-new-rules-for-60-meters>

<http://www.arrl.org/news/arrl-publishes-new-guidelines-for-60-meters>


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Owner

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NOARC membership form

Dues:

Individual: \$25 yearly or \$70 for 3 years

Family: \$35 yearly or \$75 for 3 years

Name: _____ **Callsign:** _____

Address: _____

City: _____ **State:** _____ **Zip:** _____

Phone: _____ **E-mail:** _____

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PO Box 976

Grand Haven, MI 49417

SPARK

the monthly newsletter of the

North Ottawa Amateur Radio Club

April 2012

Warm weather has returned, and so have the public service events! See the calendar on page 3, and watch w8cso.org/calendar for the latest!

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NOARC board of directors

President

Paul Zellar, W8IQE – president@w8cso.org – (616) 844-0847

Vice President

John Fischer, KC8UNY – vp@w8cso.org – (616) 402-0665

Secretaries

Roger & Phyllis Simmons, N8RXC & KB8NLN – secretary@w8cso.org – (616) 846-3496

Treasurer

John Sundstrom, N8YQD – treasurer@w8cso.org – (616) 847-4249

SPARK Editor

Joe Veldhuis, N8FQ – editor@w8cso.org – (616) 834-4989

Activities Director

** VACANT **

NOARC 2 meter repeater

W8CSO/R – 145.490 output, 144.890 input

Main RX: PL 94.8 – Grand Rapids RX: PL 91.5 – EchoLink: N8FQ-R #469574

Minutes of the March 2012 meeting

At 6:30 p.m., the NOARC meeting was called to order by President Paul Zellar. The ten attendees chose to forgo roll call.

The subject of attracting more members was broached by Paul. The possibility of offering Ham-in-a-day class (thus getting immediate licensing) for youth in the Boy and Girl Scouts and the older groups, such as VFW, Eagles, etc. was discussed. John Sundstrom and Ross Gates will look into the Scouts.

Paul described and explained a Direction Finder transmitter that he made. Gordon Stockhill suggested that we all bring our Fox Hunt antennas/gear for fine tuning and fun to the next meeting. That will be April 26th and we will operate outdoors in the library area.

Our club has been selling the TE NE KE's, thanks to the generosity of it's inventor, Boyd Mason, NE8KE. In appreciation, the motion to award Life Membership to NOARC was made by Mark Stern; seconded by Roger Cox. This was unanimously approved. Discussion continued on TE NE KE: price; assembly of new design, and if kit form would be available or advisable.

John Sundstrom, Treasurer, reported a balance of \$1,543 in the bank and a balance of \$5,163 in the Grand Haven Community Foundation. Joe Veldhuis motioned that a \$210 dividend from the Foundation be used for TE NE KE parts. Seconded by Ross Gates. The club is also funded with our dues of \$25 a year; \$70 for three years.

Lowell Hamfest is April 7th., 8:00a.m. to 12 Noon, Where our club will have a table, to sell your radio goodies.

Don Meyer is looking for our help on April 14th for the Spring Lake Yacht Club regatta. This is traffic related, not water related. It begins early - 6:00 a.m. until w probably 1:00p.m.. Don is talking about doing it in shifts.

He also reminded us that we need not be a member of OCEC to attend a meeting at the Fillmore Complex on April 23rd, at 7:00 p.m.

The motion was made by Gordon Stockhill that the meeting adjourn, seconded by Phyllis Simmons. We did.

Respectfully submitted by,

Phyllis and Roger Simmons
Secretaries

April 2012 calendar of events and net control schedule

Every Tuesday:

NOARC net/coffee at Russ' in Grand Haven
8:00 PM

Every Wednesday:

Breakfast at Idle Hour Restaurant in Spring Lake
7:00 AM

Every Saturday:

Breakfast at Vic's Restaurant in Spring Lake
7:00 AM

April 7:

ARGYL hamfest, Lowell
<http://www.argyl.org>

April 14:

Lubbers' Cup
Briefing at comm trailer, Van Wagoner/Spring Lake Rd near the water tower, 6 AM

Ham-in-a-day class
Muskegon Community College, Stevenson Center, 8 AM – VE testing at 3 PM

April 26:

NOARC monthly business meeting
Spring Lake District Library, 6:30 PM

NOARC net control schedule:

April 3: **Bev, KC8JWA**
April 10: **Paul, W8IQE**
April 17: **Phyllis, KB8NLN**
April 24: **Joe, N8FQ**

Keep an eye on the events calendar on w8cso.org for net control openings, and e-mail me at editor@w8cso.org if you want to get on the list!

Guidelines for building your own Evacuation / Disaster Go Bag – By KB8QAP

If you need to leave your home, be ready to go as quickly as possible. Having a Go Bag in an accessible place ensures that you and your family are prepared for whatever situation arises.

Evacuation / Disaster Go Bag Guidelines

- Each member of your household should have his or her own Go Bag.
- Go Bags should be easy to carry and sturdy.
- Go Bags should be stored in an easily accessible location.
- Ideally, you should keep a Go Bag at your home, in your car, and at work.
- Go Bags should be prepared for any time of year.
- Go Bags should be updated every six months.

ITEMS NEEDED FOR YOUR EVACUATION / DISASTER GO BAG

- Bottled water
- Non-perishable food
- Manual can opener
- Flashlight
- Battery-operated AM/FM Radio
- VHF/UHF Hand Held Transceiver with charger
- Spare Antennas for Hand Held
- Repeater Directory
- Cellphone with charger
- Extra batteries (necessary types)
- Pocketknife
- Whistle
- Extra house and car keys
- Blanket
- Rain-gear
- Hat
- Gloves
- Protective eye wear
- Comfortable, sturdy shoes with puncture resistant soles if possible
- Warm clothes
- Prescription medication for a week, with copies of your prescriptions
- List of doctor(s) and phone numbers
- Small first-aid kit
- Extra pair of reading glasses or contact lenses
- Extra hearing aid(s) and batteries
- Toilet paper
- Plastic garbage bags
- Soap
- Toothbrush and toothpaste
- Copy of your communications plan
- Regional maps
- Paper, pens and tape – in case you need to leave a message somewhere
- Dust mask
- Cash – preferably in small amounts
- Coins for laundromat washing machines and/or pay phones
- Credit and debit cards
- Copies of important documents in a waterproof container (IDs, insurance information, proof of address, passports, etc.)
- Recent family photo for identification purposes – make sure everyone's face can be seen clearly
- Items for members of your family, especially children, seniors or people with functional needs, and pets.


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For Sale: Zenith Trans-Oceanic all-band radios – John Sundstrom, N8YQD

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May 2012



Thanks, Boyd!
Read all about it on page 2!

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Minutes of the April 2012 meeting

Around six in the evening, Craig Christilaw, John Sundstrom, Phyllis and Roger Simmons gathered at the Spring Lake District Library. The librarian unlocked the door to the conference room we were to use for the meeting. By six thirty, fifteen trusty members had gathered. Cake, brownies, cookies, coffee and hot water for tea were laid out for all to gorge themselves on.

President Paul Zellar called the meeting to order. John Sundstrom gave a run down of the upcoming hamfests including: Cadillac May 5Th, Hudsonville IRA June 2nd, Dayton Ohio May 18-19-20Th.

A discussion was had regarding entry of a facebook page for the club. There was no objection from those present and Beverly Traxler volunteered to be responsible for the project.

John Sundstrom reported selling six Te Ne Keys with remuneration by Pay Pal.

Congratulations to Don Meyer. He has assumed the position of Emergency Coordinator for Ottawa County Amateurs.

Next, Field Day locations were discussed. Various locations were mentioned, including Central Park in Grand Haven and Central Park in Spring Lake. John Fischer planned to investigate the possible interference of the power lines in Spring Lake Central Park.

As a result of a soldering demonstration at a previous NOARC meeting, a small hole was burned on one of the tables. The library agreed to pay for half of the damage, replacing the table. NOARC insurance will pay for the other half.

At this point of the meeting, President Zellar presented Boyd Mason with a certificate appointing Boyd with a full membership, for life, of the North Ottawa Amateur Radio Club. Craig Christilaw then tendered a gift certificate for two dinners at the Portabella Restaurant in Grand Haven.

We had a break in the action and scarfed down the cake. It was decorated with Boyd Mason's name on it. The rest of the above named treats were also consumed at that time.

Then we adjourned to the parking lot of the library. There we attempted to calibrate our direction finding antennas. President Zellar brought his electric car. It was rigged with a timer, answering phone messenger and a two meter transmitter to broadcast a "Fox Beacon". The known location was meant to allow participants a means of making corrections, to their direction finding antennas.

After that exercise, things kinda fell apart with regards to a formal meeting. We all departed around eight thirty.

Respectfully submitted, Phyllis and Roger Simmons

Treasurer's Report

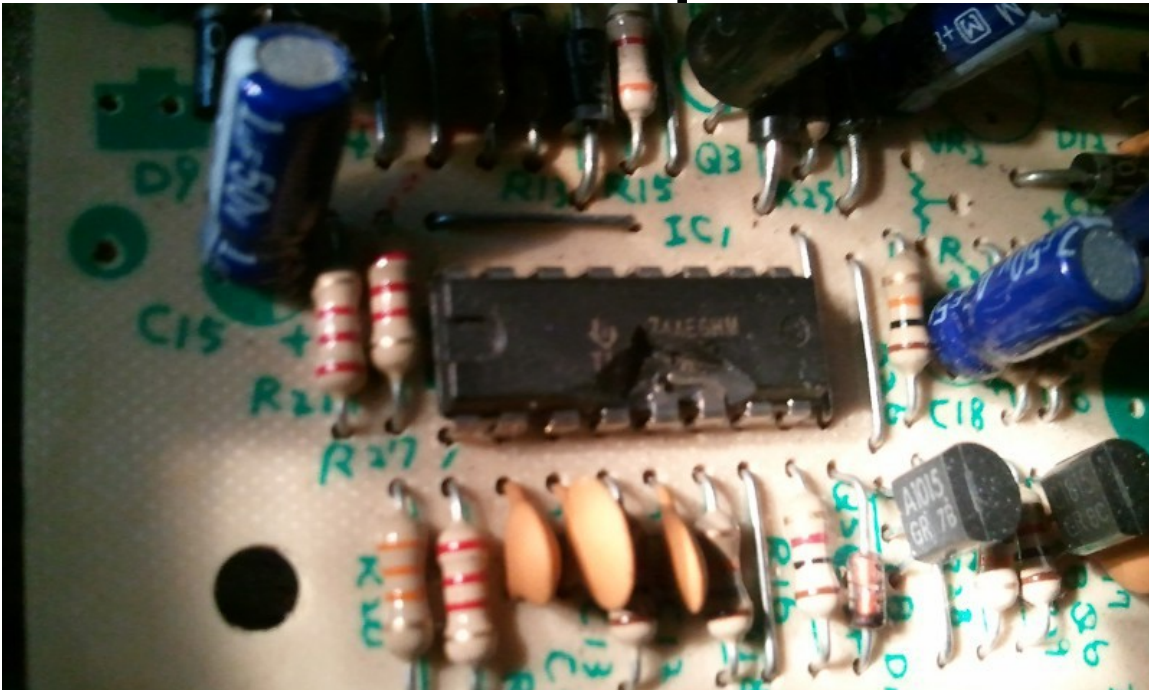
Checking activity:

| | | |
|---------------------------------|---------|----------|
| December 2011 | Balance | 1755.40 |
| Dues, K8AR | | 25.00 |
| Check-arrrl books (party gifts) | | -122.15 |
| Dues, Cox | | 25.00 |
| Dues 1/10/12 | | 45.00 |
| TE ne Ke sales via paypal | | 86.33 |
| Check- Comtronco-repeater | | - 246.00 |

Ending balance 3/22/2012 1,543.58
(Balance agrees with Chase bank)

Grand haven Comm Fund balance Mar 20 5,163.23

I think I see the problem...



Last year, Ernie, W8EL from Holland gave me an old switching power supply which died after being shorted out during Tulip Time a few years prior. He suspected that one of the rectifiers may have been burnt out, but hadn't had time to dig into it. A brief examination revealed this "disintegrated circuit" on the main board. Replacing it was all it took to bring the PSU back to life, and it remains in service to this day!

May 2012 calendar of events and net control schedule

Every Tuesday:

NOARC net/coffee at Russ' in Grand Haven
8:00 PM

Every Wednesday:

Breakfast at Idle Hour Restaurant in Spring Lake
7:00 AM

Every Saturday:

Breakfast at Vic's Restaurant in Spring Lake
7:00 AM

May 5:

Cadillac Hamfest

<http://www.wexaukeearc.org/hamfest2012.html>

May 5-12:

Tulip Time, Holland

May 9: Volksparade

May 10: Kinderparade

May 12: Muzeikparade

Briefings at Tulip Time HQ, 74 W 8th St

May 24:

NOARC monthly business meeting

Spring Lake District Library, 6:30 PM

May 26:

Kick-off to Summer Run

Grand Haven Public Safety, 7:45 AM

NOARC net control schedule:

May 1: **Bev, KC8JWA**

May 8: **Paul, W8IQE**

May 15: **John, N8YQD**

May 22: **Bev, KC8JWA**

May 29: **Joe, N8FQ**

Keep an eye on the events calendar on w8cso.org for net control openings, and e-mail me at editor@w8cso.org if you want to get on the list!


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June 2012

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That time of year again

Hot, sunny days mean parades, races and QRP outings!

Above: Jeff, N8RWS and Jeff, KB8QAP set up a station at Helder Park in Holland.

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Minutes of the May 2012 meeting

On May 24th at 1836 hrs, President Paul Zellar called the meeting to order. Located in the east conference room of the Spring Lake Library, nine members listened as John Sundstrom told the group that ten Te Ne Keys had been sold. He said that there was \$1965.00 in the treasury. Further, John has developed a possible itinerary for meetings thru October. It is as follows:

June 21st: meet at the Field Day site for a hot dog meal.

July meeting: a Fox Hunt possibly in the Spring Lake Area.

August meeting: QRP in the park.

September meeting: Chinese handheld radio show-and-tell

October: John Fischer may have a program on DXing

Don Meyer next requested volunteers for the weekend of May 26th. Grand Haven Department of Public Safety has requested our assistance with a 5k race, "Kick off to Summer". Operators were to meet at GHPS at 7:00 am. On Memorial Day, the Spring Lake Ferrysburg Police Department has requested our assistance for the Spring Lake Memorial Day Parade. Hams are to meet at 9:00 am at the Spring Lake OCEC for a 10:00 o'clock parade.

Field Day 2012 is June 23rd and 24th. This years event will be held at the Spring Lake Central Park, 700 Block of Savage St. (behind Ace Hardware). As mentioned above, On Thursday June 21st the NOARC meeting will be a hot dog meal. We will plan the set up of our stations and their locations.

On Saturday, June 23rd we will have breakfast at the park at 8:00 am. Saturday evening we plan a Potluck Dinner at 6:00pm. Please bring a dish to pass and your "significant other". Meat, drink and table ware will be available. Sunday morning breakfast will be provided at 8:00am.

At seven o'clock, the meeting broke for refreshments by Phyllis Simmons. She had baked cookies, white brownies, sliced apples were available, as were pretzels, coffee and tea.

Next, President Paul Zellar made an excellent presentation on the history of the early radio. He included CW keys, early pen tapes made by Samuel Morse, dry cell batteries, telephone amplifiers and oscillators. His presentation concluded with a dissertation on early soldering history and techniques. The meeting closed around 8:15.

Respectfully submitted, Phyllis and Roger Simmons

May 2012 Treasurer's Report

Starting balance 3/22/2012 1,543.58
(Balance agrees with Chase bank)

Deposits:

| | |
|--------------------------------------|---------|
| Dues, Meyer,Zellar, RCox & Stockhill | +100.00 |
| Te ne Ke sales (net) | 78.77 |
| Te ne Ke Sales at Lowell | 50.00 |
| GH Community fund dividend | 210.00 |
| 6 te ne ke sales (net) | 222.19 |

Checks:

| | |
|------------------------|--------|
| Wexaukee Hamfest table | -15.00 |
| IRA Hamfest (3 tables) | 24.00 |
| Hays Co—Club liability | 200.00 |

Ending balance as of May 24, 2012 1965.54

| | |
|--|----------|
| Grand haven Comm Fund balance 12/31/11 | 5,163.23 |
| Gains for first quarter 2012 | 521.97 |
| Ending balance as of 03/31/12 | 5,695.29 |

Tulip Time Muzeikparade



The grand finale to this year's Tulip Time festival in Holland faced a lot of issues – logistical and meteorological – but was ultimately a success. The weather was cool, with on-and-off rain showers throughout the day. Although not the most pleasant conditions for a parade, it kept the medical incidents to a minimum.

Above: Mike Mitchell of the Red Cross briefs the med teams. Hams visible in the picture are Jeff KB8QAP, Denny N8CTT, John KC8UNY, Chris KC8RQT, Don KB8ODB, Alan NV8A, Tom K8TB, Ross N8GMY and at least 2 others mixed into the crowd, identified by their bright yellow hats. Not pictured is Joe, N8FQ, who was holding the camera.

Club liability insurance certificate

| ACORD <small>25</small> CERTIFICATE OF LIABILITY INSURANCE | | | | | | DATE (MM/DD/YY) 05/02/2012 | |
|---|-------------------|---|----------------------|--|--|---|--|
| PRODUCER Hays Affinity Group 1400 Renaissance Drive, Suite 300 Park Ridge, IL 60068 PHONE NO. 847-939-8300 | | | | THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. | | | |
| INSURED Renewal of Policy #: RHC-9167802-00 North Ottawa Amateur Radio Club P. O. Box 44 Ferrysburg, MI 49409 Attn: John Sundstrom Customer ID #: 201106 | | | | INSURERS AFFORDING COVERAGE | | NAIC # | |
| | | | | INSURER A: | The Hanover Insurance Group | | |
| | | | | INSURER B: | | | |
| | | | | INSURER C: | | | |
| | | | | INSURER D: | | | |
| | | | | INSURER E: | | | |
| COVERAGES | | | | | | | |
| <small>THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.</small> | | | | | | | |
| INSR LTR | ADDL INSRD | TYPE OF INSURANCE | POLICY NUMBER | POLICY EFFECTIVE DATE (MM/DD/YY) | POLICY EXPIRATION DATE (MM/DD/YY) | LIMITS | |
| A | | GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC | RHC-9167802-01 | 06/01/12 | 06/01/13 | EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$100,000 MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS-COMP/OP AGG \$1,000,000 | |
| | | AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS | | | | COMBINED SINGLE LIMIT (Ea Accident) BODILY INJURY (Per Person) BODILY INJURY (Per Accident) PROPERTY DAMAGE (Per Accident) | |
| | | GARAGE LIABILITY <input type="checkbox"/> ANY AUTO | | | | AUTO ONLY - EA ACCIDENT OTHER THAN EA ACC AUTO ONLY: AGG | |
| | | EXCESS/UMBRELLA LIABILITY <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE DEDUCTIBLE RETENTION | | | | EACH OCCURRENCE AGGREGATE | |
| | | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISION BELOW | | | | <input type="checkbox"/> WC STATU-TORY LIMITS <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT | |
| | | EXCESS/UMBRELLA LIABILITY | | | | EACH OCCURRENCE AGGREGATE | |
| <small>DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS</small> | | | | | | | |
| CERTIFICATE HOLDER | | ADDITIONAL INSURED; INSURER LETTER: | | CANCELLATION | | | |
| Proof of Coverage | | | | SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES. AUTHORIZED SIGNATURE  | | | |

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NOARC net/coffee at Russ' in Grand Haven
8:00 PM

Every Wednesday:

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7:00 AM

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7:00 AM

June 2:

IRA Hamfest, Hudsonville
<http://www.w8ira.org>

June 16:

Spring Lake Heritage Festival 5K
Briefing: 7 AM, Spring Lake EOC

June 21:

NOARC Field Day site survey
Spring Lake Central Park, 6:00 PM

June 28:

CERT meeting
Fillmore EOC training room, 7:00 PM

NOARC net control schedule:

June 5: **Bev, KC8JWA**
June 12: **John, N8YQD**
June 19: **Bev, KC8JWA**
June 26: **Bev, KC8JWA**

No, that's not a mistake – Bev took all but one net this month, because no one else stepped up. July and August are still wide open, so e-mail me at editor@w8cso.org if you want to get on the list!

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FIELD DAY!

Read all about the latest iteration of this yearly tradition on page 2!

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Minutes of the June 2012 meeting **and Field Day**

Thursday evening June 21st, around six o'clock, we gathered at Central Park in Spring Lake. The purpose of the meet was to enjoy a "hot dog dinner and plan for the up coming Field Day. Phyllis and I got there early to start a charcoal fire in the barbecue pit. She served up hot dogs, brats, potato salad, brownies, chips, pop, coffee, tea, water and water melon.

After dinner, the group headed to the center of the park and planned out the location of the stations and solar panels we would use to power the radios. The same computer logging system was to be used as last year's Field Day.

When it started to get dark, the group of fourteen members dissolved into the night.

FIELD DAY

Six am came early on Saturday the 23rd. Phyllis and I finished loading the Suburban with the two room tent, rugs, radio equipment, antennas, and food. We hit the park around six thirty. Shortly after our arrival, Lou Meisch showed up with his Roadtrek. Mark Stern appeared with the clubs unofficial mascot, a large beautiful German Shepherd named "Leib". At 7:45 am Phyllis picked up McDonalds breakfast biscuits, oatmeal and fruit with coffee, tea , hot chocolate and rolls ..The cook was hindered by having to move her operation to a second pavilion. There was no electricity at the first one. One by one amateur radio operators showed up until breakfast was served at 8:00 am.

As soon as breakfast was consumed, we scattered about the park. Paul Zellar brought in his solar panels with the help of Don Meyer and his trailer. Paul had made battery chargers for each of the four radio stations who were to participate in the exercise. Lou Meisch and Alan Groneler began raising antennas. This in itself was a sight to see. Lou accurately threw wire antennas over the highest trees possible for good transmissions. John Sundstrom set up shop in an RV. Joe Veldhuis started digital operations in the park pavilion. John Fischer worked out of two "easy ups" . Lou Meisch brought back his Roadtdrek and I , with the help of the rest of the gang put up a two room tent. (The hardest thing I faced was dragging four golf cart batteries from home to the park and locate them in the tent. Thanks to Roger Cox).

At 2 pm, transmissions and receivers hummed to life. CW filled the air with phone operation. Casual strollers in the park, kids and bicyclists wandered nearby. Some were bold enough to ask what the dickens was going on. John Sundstrom ran digital Psk 31. He actually had a pile up on his computer, but managed to capture two out of three contacts before the third one got away.

At noon Phyllis produced lunch primarily consisting of pizza, water melon, cookies. Then it was back the radios. All afternoon the sounds continued. The weather was warm and sunny. Very pleasant out.

The Village of Spring Lake President, County Emergency Manager and a representative of the Village Council appeared. The six stations were pretty impressive. Glen Henkle, Bill Franks and Randy Stano, Boyd Mason, old members of NOARC stopped in to observe.

At six o'clock in the evening, family members appeared with the food for a potluck dinner. We ate well. Dedicated Gordon Stockhill continued CW operations without stopping for dinner. Operators continued thru the night.

After supper, a drawing was held for a new Baofeng handheld 5 watt radio. Lucky Alan Groneler won it. Congratulations Al.

Contacts were made on 6, 15, 20, 40, and 80 meters. The batteries which had been charged all day by the solar panels continued to provide power all night. Some hams went home to bed for a few hours. Some chose to stay in the park at their stations all night.

Contacts continued into the afternoon. By two o'clock, most of us were ready to give up for another year. When we broke camp, more than five hundred contacts had been made. Most of them were CW and digital in nature. Like Lou Meisch says "A good time was had by all."

Apologies for any errors of omission in this report. Phyllis was busy with cooking and I was busy trying to log CW for Mark Stern.

Respectfully submitted; Phyllis and Roger Simmons

July 2012 Treasurer's Report

Starting balance 5/24/2012: 1,965.54

Deposits:

| | |
|----------------------|--------|
| Dues, Wyant on 5/30 | +25.00 |
| Dues, Henkle on 6/24 | 20.00 |

Paypal Credits & debits:

| | |
|------------------------|---------|
| Dues, Veldhuis net | + 67.67 |
| Key sale, no base, net | + 36.00 |
| Baofeng HT Radio | - 48.68 |

| | | |
|-----------------|---------|-------|
| Sub total | + 54.99 | 54.99 |
|-----------------|---------|-------|

| | |
|------------------------------------|----------|
| Ending balance as of June 25, 2012 | 2,065.53 |
|------------------------------------|----------|

(Balance agrees with Chase bank)

Grand haven Comm Fund balance 05/31/12 5,695.29



Above: a shot from the June 21 Field Day site survey meeting

July 2012 calendar of events and net control schedule

Every Tuesday:

NOARC net/coffee at Russ' in Grand Haven
8:00 PM

Every Wednesday:

Breakfast at Idle Hour Restaurant in Spring Lake
7:00 AM

Every Saturday:

Breakfast at Vic's Restaurant in Spring Lake
7:00 AM

July 4:

Ferrysburg Fourth of July parade
8:00 AM – 12:00 PM

July 8:

Grand Haven triathlon
7:30 AM – 1:00 PM

July 14:

QRP in the park, Helder Park, Holland
3:00 PM – dusk

July 26:

NOARC foxhunt
Time/location TBD

CERT meeting, Fillmore EOC
7:00 PM

July 28:

CMARC Hamfest, Lansing
<http://www.centralmiarc.com>

NOARC net control schedule:

July 3: **Joe, N8FQ**

July 10: **Bev, KC8JWA**

July 17: **Roger, WB0DGF**

July 24: **John, N8YQD**

July 31: **John, N8YQD**

Swap 'n shop

For Sale: Zenith Trans-Oceanic all-band radios – John Sundstrom, N8YQD

For Sale: Textbooks on basic electronic theory, multimeters and oscilloscopes – Paul Zellar, W8IQE

Wanted: Good, working tubes – Jerome Novotny, K8CCJ – 231-206-1388



NOARC membership form

Dues:

Individual: \$25 yearly or \$70 for 3 years

Family: \$35 yearly or \$75 for 3 years

Name: _____ **Callsign:** _____

Address: _____

City: _____ **State:** _____ **Zip:** _____

Phone: _____ **E-mail:** _____

Make checks payable to **NOARC**

Mail form to:

NOARC

PO Box 976

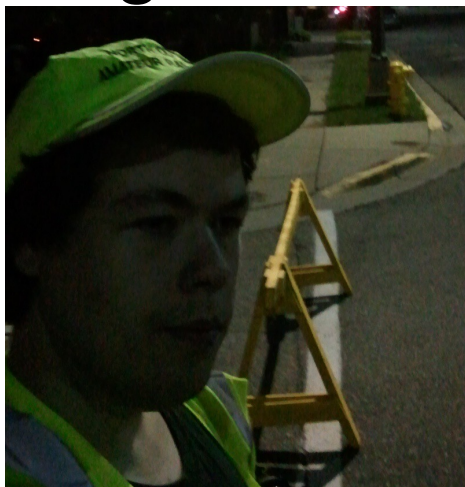
Grand Haven, MI 49417

SPARK

the monthly newsletter of the

North Ottawa Amateur Radio Club

August 2012



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Another Coast Guard Festival in the books

Despite intense daytime heat and ominous overnight forecasts, NOARC and the Grand Haven Department of Public Safety have once again brought the yearly event to a spectacular, yet safe, finish! Thanks to everyone who helped out!

NOARC board of directors

President

Paul Zellar, W8IQE – president@w8cso.org – (616) 844-0847

Vice President

John Fischer, KC8UNY – vp@w8cso.org – (616) 402-0665

Secretaries

Roger & Phyllis Simmons, N8RXC & KB8NLN – secretary@w8cso.org – (616) 846-3496

Treasurer

John Sundstrom, N8YQD – treasurer@w8cso.org – (616) 847-4249

SPARK Editor

Joe Veldhuis, N8FQ – editor@w8cso.org – (616) 834-4989

Activities Director

**** VACANT ****

NOARC 2 meter repeater

W8CSO/R – 145.490 output, 144.890 input

Main RX: PL 94.8 – Grand Rapids RX: PL 91.5 – EchoLink: N8FQ-R #469574

Report from the 2012 NOARC Fox Hunt

Around 6:30 on the evening of July 26th, a small group of dedicated core members of NOARC, met in the parking lot, across the street from the Spring Lake Library. The Church and Exchange location was the beginning of the evenings program, a "Fox Hunt". President Paul Zellar, recently moved to Sparta Michigan, was to be the designated fox. For the uninitiated, a fox hunt consists of a member, usually the one who found the last fox. The fox is given a short amount of time to "hide" (in plain sight). At the appointed time, The fox transmits for thirty to sixty seconds. This occurs every five minutes, with a two minute warning from the coordinator of the hunt. We were faced with the problem, of which of the five attendees, (not including Marks beautiful German shepherd "Leibe") would do the honor. Turned out that John Fischer became the fox and time coordinator.

So Mark Stern, Leibe, Ben Docter, Phyllis and Roger piled into the Simmons Suburban and set out on the chase. John had us going for thirty or forty minutes. This is a small town for such an activity. The boundaries were the Spring Lake Village on the south side of Savidge (M104), and west side of Lake St. Ben Docter came up short with a direction finding antenna. He did surprising well using his finger as an antenna. Or was it a car key, Ben?

We had a little rain, Liebe had her chance to pursue ducks, and we all kicked ourselves for passing the fox so close, so many times. Another good job, John! It was a fun evening.

Since that evening, the Coast Guard Festival has come and gone. The five and ten K races and the Coast Guard Parade were well supported by the NOARC club members.

The next meeting will be August 23rd at 6:30 PM at William Ferry Park in Ferrysburg. It will be a QRP session. Bring your mosquito dope and what ever rig you want to play with. Phyllis will bring the brownies.

Respectfully submitted, Phyllis and Roger Simmons

August 2012 Treasurer's Report

| | |
|---|----------|
| Starting balance 6/25/2012 | 2,065.54 |
| Deposits: | |
| Dues, Novotny | +20.00 |
| Key sale | +48.00 |
| Checks: | |
| Phyllis Simmons Field day food | 238.95 |
| USPS Box rent | 94.00 |
| Ending balance as of July 29, 2012 | 1,800.57 |
| (Balance agrees with Chase bank) | |
| Grand Haven Community Foundation balance 07/01/12 | 5,285.93 |



Above: John, KC8UNY sets up the command post for the Ferrysburg 4th of July parade, one of the numerous events NOARC helped out with this month. In the background, Lou, N8KYO looks to be preparing for some photography of his own...

August 2012 calendar of events and net control schedule

Every Tuesday:

NOARC net/coffee at Russ' in Grand Haven
8:00 PM

Every Wednesday:

Breakfast at Idle Hour Restaurant in Spring Lake
7:00 AM

Every Saturday:

Breakfast at Vic's Restaurant in Spring Lake
7:00 AM

August 13:

HARC monthly meeting
Ottawa Red Cross, James St, Holland
7:00 PM

August 18:

Lapeer County ARA Swap & Shop
<http://www.w8lap.com>

August 23:

NOARC QRP In The Park
William Ferry Park, Ferrysburg, 6:15 PM

CERT meeting, Fillmore EOC
7:00 PM

August 25:

Owosso Swap & Trunk Sale
<http://www.w8qqq.org>

NOARC net control schedule:

August 7: **Roger, N8RXC**
August 14: **Roger, WB0DGF**
August 21: **Joe, N8FQ**
August 28: **Bev, KC8JWA**

Swap 'n shop

For Sale: Zenith Trans-Oceanic all-band radios – John Sundstrom, N8YQD

For Sale: Textbooks on basic electronic theory, multimeters and oscilloscopes – Paul Zellar, W8IQE

Wanted: Good, working tubes – Jerome Novotny, K8CCJ – 231-206-1388



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SPARK

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North Ottawa Amateur Radio Club

September 2012



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Read all about NOARC's annual QRP In The Park outing on page 2!

NOARC board of directors

Acting President

John Fischer, KC8UNY – president@w8cso.org – (616) 402-0665

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**** VACANT ****

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W8CSO/R – 145.490 output, 144.890 input

Main RX: PL 94.8 – Grand Rapids RX: PL 91.5 – EchoLink: N8FQ-R #469574

Report from the August 2012 meeting

The August Meeting of NOARC was held at Wm Ferry Park in Ferrysburg, at 6:30 in the evening. The intent was for members to bring in their QRP radios and try to contact anyone possible. For the uninitiated, QRP means low power transmission, usually five watts or less. Ten amateur radio operators found their way to the park.

Shortly before 6:30, hard core hams began erecting antennas. People in the park were intrigued at the sight of Lou Meisch heaving chain links, at unbelievable heights above the park trees. The sight of others pulling on ropes and wires up to the tops of oaks and pines, made for interesting conversations. On an interesting side note, Ben Docter had a small lead weighted bag, four or five inches long, with a ring in the top. It was used by the phone company to mount wires.

Phyllis Simmons brought her famous brownies. She set up shop in the pavilion. There was coffee and tea for all. Some surprised casual walkers in the park, declined an invitation to partake of the goodies.

Mark Stern brought the NOARC mascot. A beautiful German Shepherd named "Lieb".

The group set up four stations. Mark worked 20 meters, using a vertical antenna and contacted Spring Hill, Florida. John Sundstrom threw a plastic bottle into a nearby tree and attached the other end of his wire, to his radio. He contacted KC9PTD in Somonauk, Illinois and NW8E in Redford, Michigan. Ben Docter worked WP4L in Adjuntas, Puerto Rico. Roger Cox used a dipole antenna to make two Florida contacts and one in Chile.

Last of all, Roger Simmons brought a military surplus twenty foot vertical tower. It was constructed of four foot sections with a base, a "top hat" and guy ropes, complete with stakes. It turned out to be completely useless during the present meeting, but it was a lot of fun erecting. Roger also brought a "slinky antenna" (You know made from the same wire as the toy that walks down stairs by themselves). John Fischer, Don Meyer, Lou Meisch and anyone else who was not otherwise occupied at the time, attempted to mount the strange thing. The best we could do was to make it resonate at the aircraft frequencies.

When the sun went down, participants began taking the antennas down. A bicyclist cruising the path hooked herself up with a rope lead. She was not injured and smiling apologized. She said she hoped that she had not pulled out any "radio wires". No damage done, she pedaled away with her companion.

When all was cleaned up and packed back in the cars, we departed without formal closing ceremonies. Like Lou Meisch says: " A good time was had by all".

Respectfully submitted: Phyllis and Roger Simmons

A little electronics history

Soldering, a means of using a melted metal to join with another metal when it cools. While popular for joining two or more conductors for an electrical connection, it has been used for centuries to join metals for jewelry, plumbing, and many other purposes. It is different from welding in that it does not melt the parent metal, since the solder has a lower melting point.

Pure lead can work, but it has been found that adding tin changes the temperatures for the melting and solidifying points, bringing them closer together. This reduces the time between the two phases and the likelihood of cracking, or crystallizing. For plumbing, a 50/50 ratio of lead and tin is common, but for electrical use 60/40 is the most common, with 63/37 the very best.

Clean surfaces are a must for a good joint, and a way of improving the cleanliness is to use a chemical that reacts with the heat to remove corrosion. For plumbing, an acid is used, but this is better for pipe than wire. For electrical use, rosin made from pine pitch is standard. These fluxes, as they are called, may be applied from a jar or solder may be purchased with it in a core.

In the old days, much soldering was done with a soldering copper instead of an open flame. This used a heavy copper point with a wire and wood handle, the copper being heated by a flame. The copper would hold its heat long enough to do quite a bit of soldering. In the 1950's this method was still in use by telephone cable splicers. It had the added advantage of being able to keep the open flame outside a manhole where there could be combustible gases. Some brilliant person discovered that an electrical heating element could be installed around an iron holder for the copper point, making a soldering iron.

Besides having clean surfaces, a good practice in making solder joints is to rock or move the tip while making the joint before backing off to allow it to harden.

For centuries messages were delivered by relay, having a line of men to each carry it a short distance. The pony express is a well-known example. In the early 1800s it took months for a letter to travel large distances. Samuel Morse realized that a message could be sent electrically by using a system of short or long pulses of current through a momentary switch (In those days, switches were called keys) to operate a device called the Morse Inker. This used a reel of paper tape with a wind-up motor that moved the tape under a pen. An electro-magnet brought the pen down when current was applied, making a short or long mark on the paper tape. A clerk would then write the letter that matched the combinations of dots and dashes. The tape would be pasted to a sheet of paper and delivered to the addressee.

The inker had a problem of the pen getting clogged up, and cleaning it was a daily chore. After some time on the job, the clerks found they could interpret the sounds the inker made and just wrote the messages out. Management, of course, threatened to fire the operators who did not receive messages in the prescribed manner. Finally they were convinced that the method was cheaper than maintaining the inker, and it was replaced by just a noisy electromagnet called a sounder.

It was found that as the distance between the keyer and the sounder increased, higher

voltages were required, making a practical limit to the range. A sensitive, low current electromagnet could be used that operated a switch contact. This switch operated a sounder, more than doubling the distance that could be covered. By using the switch to replace the sending key, the message could be sent on for another long distance, and the operation could be repeated as many times as needed. There was now no limit to the distance the system could cover. The electromagnet was operating like a relay, and the name stuck.

Around 1900, batteries were made of multiple cells that used metal plates immersed in an acid electrolyte. This worked well for commercial stationary purposes, but they were needed great care to keep them working and safe from spills. A man had invented a toy that required an electrical current, but he realized that his toy would not sell very well if children had to use these wet cells. He came up with the idea of soaking an electrolyte in a material, making a paste. One of the plates was made of zinc, shaped in a cylinder with a bottom, which also provided the container. The other plate was made up of a carbon rod placed in the center of the paste, with the top sealed by an insulating material. Since there could be no spillage, he called the device a dry cell. Sales of his toys went wild. One day he approached a friend and asked him if he would like to go into the business of manufacturing these dry cells. He simply wanted to concentrate on his toys, but the dry cells were a necessary nuisance. His friend accepted the offer and developed a company that he aptly called Eveready. The first man's name was Lionel.

An amplifier is a device that uses a small input that produces a large output. If some of the output is fed back to the input in the correct phase, the amplifier will oscillate. In the late 1800s Bell had invented the telephone. This used a microphone that contained a capsule of finely ground carbon. Sound reaching a diaphragm attached to the capsule would vibrate it, changing its resistance. A current flowing through the carbon would then change along with the sound. When connected in series with an electromagnet wound around a permanent magnet, the resulting magnetic field would move a metal diaphragm, reproducing the sound. If the resulting sound was fed back to the microphone, it would then oscillate, demonstrating that the sound of the output was greater than the sound of the input.

Thanks to Paul, W8IQE for this interesting little writeup!

September 2012 Treasurer's Report

| | |
|--------------------------------|----------|
| Starting balance 7/29/2012 | 1,800.57 |
| Deposits: none | |
| Checks: | |
| Bank, new checks | 18.95 |
| Ending balance as of 8/25/2012 | 1,781.62 |

Grand Haven Community Foundation balance 5,285.93

September 2012 calendar of events and net control schedule

Every Tuesday:

NOARC net/coffee at Russ' in Grand Haven
8:00 PM

Every Wednesday:

Breakfast at Idle Hour Restaurant in Spring Lake
7:00 AM

Every Saturday:

Breakfast at Vic's Restaurant in Spring Lake
7:00 AM

September 8:

GRAHamfest, Grand Rapids
<http://www.grahamfest.org>

September 10:

HARC monthly meeting
Ottawa Red Cross, James St, Holland
7:00 PM

September 16:

Adrian Hamfest
<http://www.w8tqe.com/hamfest.htm>

September 27:

NOARC monthly meeting
Spring Lake District Library
6:30 PM

September 29:

Oktoberfest Marathon
Old Boys Brewhouse, Spring Lake

NOARC net control schedule:

September 4: **John, N8YQD**
September 11: **Joe, N8FQ**
September 18: **Bev, KC8JWA**
September 25: **John, KC8UNY**

Swap 'n shop

For Sale: Zenith Trans-Oceanic all-band radios – John Sundstrom, N8YQD

For Sale: Textbooks on basic electronic theory, multimeters and oscilloscopes – Paul Zellar, W8IQE

Wanted: Good, working tubes – Jerome Novotny, K8CCJ – 231-206-1388



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SPARK

October 2012

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Swap 'n Shop.....pg 5

There's a new hamfest in the area! The Muskegon group have picked up where the Holland club left off, and are holding a hamfest on **October 13th**. NOARC has reserved some table space, so bring your gear!

This month's club meeting will be one worth showing up for, too – we're offering **CPR/AED training** to all club members! Thanks to John, N8YQD for setting this up – and to Robert DuShane for teaching it!

This meeting will be on **October 18th**, a week earlier than usual.

NOARC board of directors

Acting President

John Fischer, KC8UNY – president@w8cso.org – (616) 402-0665

Vice President

** VACANT **

Secretaries

Roger & Phyllis Simmons, N8RXC & KB8NLN – secretary@w8cso.org – (616) 846-3496

Treasurer

John Sundstrom, N8YQD – treasurer@w8cso.org – (616) 847-4249

SPARK Editor

Joe Veldhuis, N8FQ – editor@w8cso.org – (616) 834-4989

Activities Director

** VACANT **

NOARC 2 meter repeater

W8CSO/R – 145.490 output, 144.890 input

Main RX: PL 94.8 – Grand Rapids RX: PL 91.5 – EchoLink: N8FQ-R #469574

Minutes of the September 2012 meeting

September 27 brought thirteen members to the Spring Lake Library for the monthly NOARC meeting. President John Fischer called the meeting to order with roll call and a couple of announcements. First, we salute our young friend, nine year old Simon Furton, KD8TFE, on successfully passing his Technician exam. Up coming Hamfests are: Muskegon, on October 13, from 8:00 - 12:00, at Fellowship Reform Church, 4200 Apple Ave. Six dollars at the door. Kalamazoo fest is on the following day, October 14. No details available.

Treasurer John Sundstrom reports \$1800 in the bank [report in the paper], with 23 paid memberships.

The program for the evening: Cheap Chinese Radio Owner Reports.

John Sundstrom reported on his Baofeng UV5R, which operates on VHF, UHF and a good FM radio. Also sports a flashlight, dual band and lithium - ion batteries which runs through a week-end of use. He cautions that the radio was made to operate commercial, beyond amateur rules capabilities. He found that the antenna was less than desirable. Price range of \$42.

Next up, the Wouxun, presented by Joe Veldhuis. The price was \$100 and believed to have better RF performance than the Baofeng. It features call sign display, dual bands, FM radio, flashlight and lithium - ion battery. The radio is difficult to set up without the program cable and software that came with it. Joe demonstrated the software program of the radio via cable to his laptop.

And last but not least, the Quanshang, purchased by Ben Docter for \$105. It had no programming software, so Ben studied the instructions, carefully wrote down the steps that finally worked for him. He also reports that it is sturdy, having dropped it on the floor.

Conclusion reached. They [Chinese radios] are cheap, difficult to program, sturdy, and reliable.

Coffee, cookies, pretzels and brownies were enjoyed by all.

Eight-fifteen rolled around [closing time] and Gordon Stockhill made the motion that we adjourn, seconded by John Sundstrom. So we did.

Respectfully submitted by:
Phyllis and Roger Simmons

October 2012 Treasurer's Report

| | |
|----------------------------------|----------|
| Starting balance 8/25/2012 | 1,781.62 |
| Deposits: | |
| Dues, Meish | 25.00 |
| Hamfest sale | 3.00 |
| Checks: | |
| GRARA hamfest | 20.00 |
| Muskegon Hamfest | 21.00 |
| Ending balance as of 9/30/ 2012 | 1,781.62 |
| (Balance agrees with Chase bank) | |

Grand Haven Community Foundation balance 5,285.93

John also adds this note on the upcoming club meeting:

NOARC has contracted with Robert Dushane to conduct a CPR course. At the end of the 1 hour course students will receive a certificate indicating they are certified to perform CPR. The instructor will also review the use of the AED defibrillator. Be sure to attend the meeting and get this valuable training. All members in good standing are eligible (or—pay your dues at the meeting).

October 2012 calendar of events and net control schedule

Every Tuesday:

NOARC net/coffee at Russ' in Grand Haven
8:00 PM

Every Wednesday:

Breakfast at Idle Hour Restaurant in Spring Lake
7:00 AM

Every Saturday:

Breakfast at Vic's Restaurant in Spring Lake
7:00 AM

October 6:

Eastown Fallfest 5K
Grand Haven Public Safety, 8:30 AM

October 13:

Muskegon Color Tour Hamfest
4200 E Apple Ave, Muskegon
<http://www.mcecs.net/Hamfest.htm>

October 14:

SEWFARS Swapfest, Hubertus, WI
<http://www.sewfars.com>

October 18:

NOARC monthly meeting
Spring Lake District Library
6:30 PM

October 21:

Kalamazoo Hamfest
<http://www.kalamazoohamfest.com>

NOARC net control schedule:

October 2: **Joe, N8FQ**
October 9: **John, N8YQD**
October 16: **Bev, KC8JWA**
October 23: **Bev, KC8JWA**
October 30: **Roger, N8RXC**

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When giving mouth-to-mouth to a baby, be careful not to rip their face off. This and other notes on page 2!

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Main RX: PL 94.8 – Grand Rapids RX: PL 91.5 – EchoLink: N8FQ-R #469574

Minutes of the October 2012 meeting

At around six o'clock, ten members of the North Ottawa Amateur Radio Club gathered at the Spring Lake District Library. Phyllis Simmons brought forth cookies, brownies, sliced apples (for the diabetics of the crowd), coffee and tea.

John Sundstrom started the meeting with announcements. There will be a "show and tell" at the next meeting on November 29th. You are asked to bring anything of interest to the meeting. (This should be interesting). Our share in the Grand Haven Community Foundation is doing well: We have \$5,556.07. Our checking account has 1,925.62. Don Meyer advised that the next planned community assistance program will be the annual "Jingle Bell Parade" held the first weekend in December. John then introduced the presenter for the evening program; Robert Dushane.

Robert Dushane is the head Certified CPR Instructor for North Ottawa Hospital. He teaches first responders, doctors, nurses and other personnel in both CPR and Automatic External Defibrillator administration. He brought enough CPR training mannequins, a baby CPR trainer and an AED to practice with.

The class was divided so that each member had a partner. One by one we got down and dirty on the floor and were talked through the procedure of cardio pulmonary resuscitation. When the proper amount of pressure was applied to the dummies, an audio click could be heard. When thirty clicks were heard, the teams changed . Everyone had a chance to practice.

Then we moved to the table at the front of the room. Mr. Dushane brought out the AED and explained its operation. We had an opportunity to properly apply the electric pads to a training model and apply shock.

Almost before we knew it, certification cards were passed out. Congratulations to the ten hams who can feel a little more confident about encountering a victim of cardiac arrest.

Sometime around 8:07 pm, the meeting broke up. Phyllis and Roger made off with what cookies and brownies were left.

Respectfully submitted: Phyllis and Roger Simmons

November 2012 Treasurer's Report

| | |
|--|----------|
| Starting balance 9/25/2012 | 1,768.62 |
| Deposits: | |
| Dues, k8ar | 25.00 |
| Key sales | 157.00 |
| Checks: | |
| Robert DuShane CPR | 250.00 |
| Ending balance as of 9/30/ 2012 | 1,700.62 |
| (Balance agrees with Chase bank) | |
| Grand Haven Community Foundation balance | 5,556.07 |

More pictures from October's CPR training



Ben, K8AR prepares to practice CPR on a training mannequin. The bags contained knee pads, but that didn't do much to quell the creaking and groaning that accompanied each change of places.



Our instructor demonstrates rescue breathing using a mask.

November 2012 calendar of events and net control schedule

Every Tuesday:

NOARC net/coffee at Russ' in Grand Haven
8:00 PM

Every Wednesday:

Breakfast at Idle Hour Restaurant in Spring Lake
7:00 AM

Every Saturday:

Breakfast at Vic's Restaurant in Spring Lake
7:00 AM

November 3:

Milwaukee Repeater Club Hamfest
<http://www.mrc91.org>

November 12:

Holland ARC monthly meeting
Ottawa County Red Cross, James St, Holland
7:00 PM

November 17:

Fort Wayne Hamfest and Computer Expo
<http://www.fortwaynehamfest.com>

November 24:

Evansville, IN Hamfest
<http://w9ear.org/hamfest.htm>

November 29:

NOARC monthly meeting
Spring Lake District Library
6:30 PM

NOARC net control schedule:

At time of publication, no net control assignments have been made.
Please check <http://www.w8cso.org/calendar> for up-to-date info!

Swap 'n shop

For Sale: Zenith Trans-Oceanic all-band radios – John Sundstrom, N8YQD

For Sale: Textbooks on basic electronic theory, multimeters and oscilloscopes – Paul Zellar, W8IQE

Wanted: Good, working tubes – Jerome Novotny, K8CCJ – 231-206-1388



NOARC membership form

Dues:

Individual: \$25 yearly or \$70 for 3 years

Family: \$35 yearly or \$75 for 3 years

Name: _____ **Callsign:** _____

Address: _____

City: _____ **State:** _____ **Zip:** _____

Phone: _____ **E-mail:** _____

Make checks payable to **NOARC**

Mail form to:

NOARC

PO Box 976

Grand Haven, MI 49417

SPARK

the monthly newsletter of the

North Ottawa Amateur Radio Club

December 2012



The “Baghdad Battery” - 4000 years old and it still holds a charge! Read about this and other displays on page 2!

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| Swap 'n Shop.....pg 6 |

NOARC board of directors

Acting President

John Fischer, KC8UNY – president@w8cso.org – (616) 402-0665

Vice President

** VACANT **

Secretaries

Roger & Phyllis Simmons, N8RXC & KB8NLN – secretary@w8cso.org – (616) 846-3496

Treasurer

John Sundstrom, N8YQD – treasurer@w8cso.org – (616) 847-4249

SPARK Editor

Joe Veldhuis, N8FQ – editor@w8cso.org – (616) 834-4989

Activities Director

** VACANT **

NOARC 2 meter repeater

W8CSO/R – 145.490 output, 144.890 input

Main RX: PL 94.8 – Grand Rapids RX: PL 91.5 – EchoLink: N8FQ-R #469574

Minutes of the November 2012 meeting

The November meeting of the NOARC took place on November 29th at the Spring Lake District Library, in the conference room, at 6:30 pm.

Phyllis Simmons brought in her famous brownies, pretzels, apples, tea and coffee. We didn't wait for the meeting to start before digging in to the goodies.

John Sundstrom started the meeting with the annual election of officers. By unanimous consent, the same officers were elected for another term. The exceptions to this was the recruiting of John Fischer to replace President Paul Zellar, who moved to Sparta. Don Meyer was elected Vice President. John Sundstrom remains Treasurer. Co- Secretaries are Phyllis and Roger Simmons. The Activities Chairman/ Chairwoman remains vacant. (Although, John Sundstrom has been doing an outstanding job lately).

John advised that there have been complaints regarding transmission and reception of the 2 meter repeater lately. It will be taken out of service during the week of December 9th, for maintenance. During this time, those desiring to use the repeater should use the 70 cm repeater on a frequency of 443.775 , positive offset of 5 Mhz . Subaudible tone (PL) of 94.8 This is the same PL tone as the 2 meter repeater. We will try to have the Tuesday night net as usual on 70 cm., if the 2 meter is not available.

Vice President Don Meyer requested volunteers for the Jingle Bell Parade in Grand Haven on Saturday December 1st. Hams should meet at the Department of Public Safety at 5:15 pm for briefing. The parade begins at 6:00 pm. Don also discussed the relationship between OCEC and ARES.

The next NOARC meeting will be a Christmas Party. Held at the Spring Lake Library beginning at 6:00 pm, You are asked to bring a dish to pass and your place setting. Ham will be furnished.

In other news: Joe Veldhuis predicted that there will be no winter this year.

John Sundstrom reported 19 keys being sold this year. One or two were purchased with Pay Pal. The keys cost \$38.00 or \$48.00 with a base on them. He praised the efforts of Craig Christilaw in his precision and continued dedication in constructing the Te Ne Ke.

The evenings program consisted of members bringing various items of interest to the group. Among those members, Joe Veldhuis brought a combination stand and Blue Tooth keyboard for his smart phone.

John Sundstrom brought in his portable tube operated multiband radio.

Jerome Novotny brought in miniature transistor radios, a " Baghdad" style battery and a continuity checker that his father had constructed.

Gordon Stockhill brought in an authentic 1951 code keyer which he had used in the Navy.

Mark Stern brought in and described a large assortment of code keys. In all, nine code keys were viewed and demonstrated during the meeting.

Sometime after eight and before eight thirty, Gordon Stockhill made a motion to adjourn. The motion was seconded by Ross Gates. Those in attendance casually vacated the premises.

December 2012 Treasurer's Report

| | |
|----------------------------------|----------|
| Starting balance 9/25/2012 | 1,700.62 |
| Deposits: | |
| Key sales 11/1 | 122.50 |
| Key sale 11/9 | 43.00 |
| Ending balance as of 11/28/ 2012 | 1,866.12 |
| (Balance agrees with Chase bank) | |

Grand Haven Community Foundation balance 5,556.07



Mark K8MAZ's attack dog, Leib, rests after eating all of Phyllis KB8NLN's snacks.

More pictures from the November meeting



John N8YQD's first Zenith Trans-Oceanic shortwave receiver. He swears it was working just before the meeting, but an attempted demonstration ended in disappointment. Most likely the batteries went dead.

Mark K8MAZ's collection of straight keys and code oscillators. These range from a cheap J-38 to a high-quality, Swedish-made key.



The meeting was attended by (in roughly left-to-right order) Ross N8GMY, John KC8UNY, John N8YQD, Phyllis KB8NLN, Tom KC8OJY, Ruth KD8HRC, Don KB8ODB, Roger N8RXC, Gordon KA8UQT, Andy N8HUB, Mark K8MAZ and Joe N8FQ (not pictured).

December 2012 calendar of events and net control schedule

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8:00 PM

Every Wednesday:

Breakfast at Idle Hour Restaurant in Spring Lake
7:00 AM

Every Saturday:

Breakfast at Vic's Restaurant in Spring Lake
7:00 AM

December 20:

NOARC christmas party
Spring Lake District Library
6:30 PM

NOARC net control schedule:

December 4: **John, N8YQD**
December 11: **Roger, N8RXC**
December 18: **Bev, KC8JWA**
December 25: **Joe, N8FQ**

Swap 'n shop

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