



North Ottawa Amateur Radio Club

SPARK for NOVEMBER 2008



THE ELECTRIC MOBILE

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Activities Director	Jim Miller W8JRM	

COMING EVENTS

NOVEMBER

- 1 Holland Mini-swap
- 26 NOARC club meeting

******* 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)

November

- 4 N8YQD JOHN SUNDSTROM
- 11 KD8FCV JIM MILLER
- 18 KC8UNY JOHN FISCHER
- 25 W8IQE PAUL ZELLAR

SEPTEMBER MEETING MINUTES

A little after seven in the evening, Phyllis, Mark Stern and Roger arrived, (in the dark) with a load of two kinds of cookies, brownies and apples, at the White Pines Middle School Cafeteria. All present gathered around tables catching up on current events. At seven fifteen, Treasurer John Sundstrom called the meeting to order. He acted on behalf of President John Fischer, who was unable to attend this evening.

We were saddened to hear of the death of John Fischer's mother in law on October 21st.

John Sundstrom followed up on Craig Christilaw 's suggestion that we attempt to improve the location of our meeting place. He has booked a room at the Spring Lake Library for next months meeting. This will be November 26th at 7:00 PM. The room has been booked from 6:30 to 8:30 pm.

The Christmas Party has tentatively been set for December 17th at 6:00 pm. There was talk of obtaining another door prize this year. "Skip" George Verduin has requested a permanent room at the Grand Haven Community Center. This might allow for a meeting place and equipment and material storage. More on that in the future.

Phyllis Simmons suggested a TE-NE-KE production meeting as an activity project. The present cost of a TE-NE-KE is \$45.00, post paid \$50.00, Paul Zellar advised he would be in favor of such a meeting if the project were properly organized and the parts were ready to be assembled. He volunteered to make a jig for the TE-NE-KE head, so the necessary drilled holes could be uniform.

Next up, Phyllis Simmons won the 50/50 drawing. Previously, Mark Stern had obtained a winning ticket for her. This night, she obtained a ticket for Mark and he got hers for her. She won again. I know it was an honest drawing because I sat next to John Sundstrom when he pulled the ticket.

Paul Zellar then gave an excellent presentation about electric cars. He mentioned that people have been making electric cars for a long time. It may be possible to buy a " kit for \$10,000.00, not including batteries. Paul then outlined the steps he took in creating his own vehicle, from removing the old engine to installing the speed controller and eight golf cart batteries in the unit. He then demonstrated the car in action. It was silent and very impressive. Maybe he could be talked into doing an article for the Spark or include a picture.

The meeting ended informally in the parking lot, where the demonstration took place. The rest of us members wishing that we could thumb our noses at gas stations like Paul Zellar.

Next month, Jim Miller has agreed to give us some tips on "hostage survival".

Respectively submitted, Phyllis & Roger Simmons

The Classified Section)

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

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

Following is a list of the items (W8LLA) John VanKuiken (Phone 616-842-2329) has for sale:

- | | | |
|---|--|--------------|
| 1 | 811 Ameritron amplifier, 160-10 meters, 1250 watts SSB | \$549.99 |
| 1 | I-com IC-02AT hand held 2 meters with ICB P-4 | |
| | ICBP-4 batteries and BC-35 fast charger | \$ 69.95 |
| 1 | Palomar Engineers RX noise bridge | \$ 15.95 |
| 1 | MFJ Versa tuner III, MFJ962C, 80-10 meters | \$174.95 |
| 1 | Palamar PT-340 tuner-tuner, 80-10 meters | \$ 29.95 |
| 1 | B & W 550A 5-position coax antenna switch | \$ 29.95 |
| 1 | Hy-Gain Tri Band beam, 10-15-20 meters; You take it down from tower, you own it. | |
| | | FREE |
| 3 | Low-pass filters | \$29.95 each |

NOTE: Above prices are negotiable.

ELECTRIC CAR INFORMATION by Paul E. Zellar, W8IQE

Converting a car to electric requires an electric motor to replace the gas engine, an adapter to mount the motor on the transmission, and another adapter to mount the flywheel/clutch assembly onto the motor shaft.

Also needed are a speed controller with a "potbox" that will connect to the accelerator pedal linkage, a contactor to turn the power on and off, the batteries with their mounts, and a charger. Useful but not required is a DC to DC converter to keep the auxiliary 12 Volt battery charged from the main battery. The cables are usually welding wire of 00 size.

Check out these suppliers: electroauto.com offers books, Convert It for \$25 +\$5 s&h, and the conversion manuals for their Voltsrabbit or Voltsporsche. A universal conversion kit sells for \$6425 + \$215 s&h, Voltsrabbit kit is \$9995 + \$215 s&h . Voltsporsche kit is \$12545 +\$600 s&h.

Evparts.com has kits for a Geo Metro/Sprint for \$7855, deluxe for \$10150. They also have one for an S10 truck for \$8000, or \$9000 deluxe. Expect to provide the car, labor and the batteries are not included!

Most suppliers recommend a minimum of 96 Volts for the drive system. My choice of 48 Volts was made because I had a motor for that voltage. The motors included in the kits sell for about \$1800.

My car began life as a 1992 Toyota Paseo, a sporty version of the Tercel. While it will go faster, I have not exceeded 45 MPH with it as yet. Just as in a gasoline car, higher speeds and accelerations reduce the range. The car has a range of 25 to 30 miles if the current is held down. I try to drive it so the current is under 100 Amps, usually I can keep it about 75. Climbing hills and accelerating, of course, demand more, especially if the speed is kept up. Golf cart batteries should deliver 75 Amps for over an hour. Mine are rated for 105 minutes at that current.

My cost of construction took about \$2000, plus about \$1000 in parts I had from the junk box. I did not keep track of the time spent on it, but estimate it at well over 100 hours.

The payoff is the cost of electricity versus the cost of gasoline. My best estimate is that at present fuel prices the car delivers the equivalent of about 200 miles per gallon.

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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 _____

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**

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

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.gsl.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.

Postmaster: Return Requested

Ferrysburg, MI 49409

Box 44

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