



THE HERTZIAN HERALD



Vol 29 Issue 11

NOVEMBER 2006

The Prez SEZ
Will be back next month
Have a Great Thanksgiving

The November MCRCA program is "Construction Night".

It will involve everyone in the construction of a portable antenna that all can use on both 145 and 440 MHz. Known as a J-pole, this antenna offers some gain over the antenna normally used on a hand held and it can be carried almost anywhere. We expect to demonstrate how this antenna can be enclosed in a PVC pipe to make an effective and simple fixed station antenna as well. All material will be provided by the club, so just be there and be ready to assemble one of these simple and effective portable antennas.

2-meter J-Pole from bicycle safety flag

© 1999, John S. Allen, AA1EP

The antenna as installed on the author's home-built tandem. The stoker is the author's son Jacob, 3 1/2 years old when the photo was taken. Father, son and the photographer, Jacob's proud Mom, had just completed the League of American Bicyclists national quarter century (25 mile) ride together for the second year in a row.



Photo by Elisse Ghitelman, N1TNM

November Index

November program	p.1
J Pole Antenna	p.1
Birthdays	p.1
Oct Minutes	p.2
Safety quiz	p.2
Off the Kuf	p.3
Tech Trivia	p.4
DX Events	p.5
October quiz answers	p.6
November puzzle	p.6

November Happy Birthday

- 2 Dale Williams WA8EFK
- 2 Richard MONDRO, W8FQT
- 4 Don Torrance KC8EHC
- 13 Randle Pierce WD8QKQ
- 17 Walter Gunstrum W8GHZ
- 29 Scott VanDaele KB8UNZ
- 30 Dave Baran KC8RQH



December

- 3 Tim Rehahn KC8ZTI
- 4 Paul Trouten W8PI
- 12 Russell Joly KB8VMA
- 12 Tom O'Rourke N9EDG
- 14 Fred VanDaele KA8EBI
- 18 Otto Uecker WS8G
- 21 Tom Jenkins WA8VDC
- 24 Diana Lindner KB8VIU
- 27 Fred Lux WD8ITZ
- 29 Peter Forgacs KC8AZZ



MCRCA Meeting Minutes for October 20, 2005

Meeting called to order at 7:38 pm, by Olimpio
Varsogea WB8SEZ

Pledge of Allegiance

Introductions: one new license KD8CDP Gordie
and no guests.

MINUTES: No minutes from September meeting at
EMD.

TREASURER REPORT: Motion by Larry KB8AIZ,
supported by Wes KC8SKP, to approve the
treasurer's report as passed out to the
membership. Approved.

HAMFEST REPORT: WE NEED A CHAIRMAN.

FIELD DAY: Dale reported that in our class 2A in
Michigan: W8MRM Motor City Radio Club was
highest with a score of 6604. We ranked fourth
with a score of 5034. Over all in Michigan USECA
was highest, running class 11AB with 159
participants and a score of 11,010 points. Motor
City was sixth in over all and Monroe was eleventh
in over all. We did pretty darn good with only
thirteen participants. June is only six months
away.

DX REPORT: Olimpio reported, "yes, it's out there
but hard to hear."

FUTURE PROGRAMS: **Nov:** Construction Night.

Dec: Xmas Auction. **Jan:** Active Attenuator
Construction.

TESTING: was cancelled, next session in
December.

ARPSC: Larry KB8AIZ asked, if you are using
packet radio please let Larry know what Freq. and
Call sign you are using, send to kb8aiz@arrl.net
he is putting something together for the section
emergency coordinator.

RRRA: Bob KC8QHN read a wonderful speech
telling all about the repeater systems and their
appropriate use. If you use these repeaters please
join the RRRA and help support them.

OLD BUSINESS: None

NEW BUSINESS: None

ANNOUNCEMENT: At our December meeting Stan
Briggs will demonstrate an active attenuator kit he

has designed for fox or DF hunting, and at our
January meeting he will do a construction bee.
Stan supplies a kit containing all the parts. All you
need is a soldering iron. The kits will cost \$20
which is a very good deal for all the work he puts
into getting all the parts together. Fox hunting is
very fun and exciting and the Motor City club has
one every month in the summer. I would like to
start something in Monroe for our club and you
will need this piece of equipment. Fred KA8EBI
BREAK

PROGRAM: Annual Junque Auction (very small)

DOOR PRIZE DRAWING: Rich N8YQW, Larry
KB8AIZ and Wes KC8SKP

50/50 DRAWING: Howard KC8JJE.

ADJOURNED: 7:57 pm

ATTENDANCE: 19

Fred KA8EBI
Dale WA8EFK
Larry KB8AIZ
Richard N8YQW
Wes KC8SKP
Martin KB8TMJ
Bill WB8JAI
Bernie K8VLT
Howard KC8JJE
Gordon KD8CDP

Brenda KB8KQC
Neil KA8PQH
Diana KB8VIU
Keith K8YKD
Olimpio WB8SEZ
Bob KC8QHN
Chris KC8UFV
Bill KC8KFY
Mike KD8BUS



Perhaps you sent a lovely card.
Or sat quietly in a chair.
Perhaps you sent a funeral spray
If so we saw it there.
Perhaps you spoke the kindest words.
As any friend could say.
Perhaps you were not there at all.
Just thought of us that day.
Whatever you did to console our hearts.
We thank you so much whatever the part.

The Keaty Family

Which best identifies the flashpoint of a
Class 1A liquid?

- A. Above 73 degrees Fahrenheit=20
- B. Below 73 degrees Fahrenheit=20
- C. Above 100 degrees Fahrenheit=20
- D. Below 100 degrees Fahrenheit=20

A. R. P. S. C. NEWS
(Off The KUF)
by N8KUF

First on the list this month is that a round of thanks is due to a number of people who helped out with public service communications events.

The fourth annual Custer Run took place on Saturday October 8th. Helping at that event were Ray K8HEP, Olimpio WB8SEZ, Tim KC8ZTI, Mike KD8BUS, Gordy KD8CDP (new ham - Ed.), Jerry WB7RUM, Dale WA8EFK, and Bill WB8JAI. The event was event free (does that make sense???) and I felt that the communications were the best I can remember in a while. Remember that these events are training for us, and we should strive to "train like we operate (during an emergency), and to operate like we train".

Thanks also to everyone who made this year's spook patrol such a success. Helping out were Rita WB8FBG, Dale WA8EFK, Larry KB8AIZ, Dianna KB8VIU, Bill WB8JAI, Fred KA8EBI, and Brenda KB8KQC. Over the 2 hour period, we managed to put in 90.6 miles of patrolling (I didn't think it was possible to find that many miles in Dundee).

Last but not least, thanks to those who took part in this year's Simulated Emergency Test (SET) which took place for us on Oct. 8th. It was a small exercise, but one with some very specific goals that we managed to accomplish. Communications were established at all 4 of our central communications posts, those being the Monroe County EOC, Monroe County Central Dispatch, Mercy Memorial Hospital EOC, and the Monroe County Chapter American Red Cross. We verified both repeater access and simplex communications, and also verified HF and Digital (packet) communications capabilities as part of the exercise. Some areas for improvement were identified and we'll be pursuing actions to improve / correct those items (that is a large part of why we exercise in the first place). Thanks to Jerry WB7RUM, Tim KC8ZTI, Mike KD8BUS, Gordy KD8CDP, Olimpio WB8SEZ, and Dale WA8EFK for taking part. I'd also like to recognize the County EMD for coming in on a day off to grant us access to the facility, and to Mercy Memorial Hospital staff for working with us to gain access to that facility as well.

As much as I hate to admit it, winter really is arriving quickly. While blizzards and ice dam flooding don't happen every year, any winter storm could result in the need for emergency communications. Power and phone outages, possibly for extended periods, are not uncommon during this season. Please keep an ear tuned to the 146.72 repeater (442.825 repeat-ers or 146.46 simplex as backups) should any of these situations threaten. Whenever severe weather approaches, please keep an ear tuned to the radio for emergency net activity and check in if possible (it keeps the net control station from getting lonely). If you feel that the situation warrants a net and one is not in progress, by all means get the ball rolling. I guarantee that if you start a net, someone will be there to join in and the EC or an Assistant EC will be there to help or take over as soon as they can (make a phone call to be sure someone is aware of the situation). As much as I would like to, I haven't yet figured a way to be available 24 hours a day.

Even during moderate conditions, one should monitor the repeater as much as possible and be prepared to obtain assistance for stranded motorists or accident victims. If you are at the scene, first ask the person if they would like assistance (some may not for various reasons). If they request assistance, BE SURE that help is on the way, then BE SURE to let the victim know. If unaware, he/she may risk a potentially hazardous walk to the nearest phone (which could be miles in the country).

Be sure that the flashlight batteries are fresh and ready for extended use. If you have battery backup for your radio equipment, make sure it is freshly charged. If you have a generator, make sure you have an ample supply of gas to keep the thing running (hint - most gas pumps don't work without electricity), assuming you can get it started (hint - now's the time to check). The secret is to stay prepared. The question, after all, is not if the worst will happen but when.

73,
Mike Karmol - N8KUF
EC / RO Monroe
County



Safety quiz = The correct answer is B. Below 73 Fahrenheit

**TECH TRIVIA No. 33:
More Troubleshooting Tips
26 Jun, 2000 (first published)**



Here are ten more troubleshooting tips to add to the ones we published a few months ago. As before, send me your favorite tips and

we'll do another ten in a few more months.

1. When troubleshooting a printed circuit board, shine a light on the bottom and view the circuit from the top. This will let you see the circuit tracks and allow access to lead wires for your test clips.

2. Metal transistor cases and heat-sink tabs are nearly always connected to the collector, and provide easy-to-probe spots for checking voltages.

3. If a confusing or noisy trace appears on the oscilloscope, switch the trigger source to AC LINE. If the trace stabilizes, the noise is AC-line related.

4. Solderless breadboards are often ruined by forcing thick leads from 1-watt resistors or big capacitors into them. Later, when an IC pin is inserted into the same hole, the contact is sprung and makes intermittent contact. Solder an inch of No. 22 wire to the ends of those fat leads to avoid damaging your \$35 proto-board.

5. Flexing often causes Oscilloscope probes and coaxial test leads to open-circuit at one end -- but which end? Touch the center pin of the connector to an oscilloscope's vertical input or a DVM on AC-Volts. The intact end will pick up quite a bit of AC line noise; the broken end, almost none.

6. A wooden toothpick is useful for keeping pc-board holes clear of solder while heating them.

7. You say you need to measure a 30-Mohm resistor, but your DVM only goes up to 20 Mohm? First measure a nominal 18-Mohm resistor (call it R_a), then place it in parallel with the unknown (R_x). The unknown can be calculated from the Product-Over-The-Difference formula:

$$R_x = R_a \times R_{tot} / (R_a - R_{tot}).$$

For example, if $R_a = 18.13$ Mohm and $R_{tot} = 11.47$ Mohm, then $R_x = 31.22$ Mohm.

8. You can often determine power supply current without breaking any wires by measuring the peak-to-peak ripple voltage across a filter capacitor on a oscilloscope. Where t is the discharge time between charging pulses, calculate

$$I = C \times V_{p-p} / t.$$

For example, if a 40-uF cap has 2 V p-p ripple and discharge time is 8 ms, $I = 10$ mA.

9. Is the zener conducting? Zener diodes above 8 V produce a white noise of 5 to 20 mV p-p when conducting. If a sensitive Oscilloscope on AC coupling doesn't show the noise, it's a good bet the zener isn't conducting.

10. Of course you can check a silicon diode by looking for high resistance one way and low resistance the other way on an ohmmeter. But high-voltage diodes (above 1 kV) usually consist of several silicon diodes in series internally, so the forward voltage required to get the "low" reading will likely be higher than the ohmmeter's test voltage, and you'll get a high reading both ways. Use a 9-V battery in series with the meter on the DCV range to check HV diodes.

Until next month - 73 de Dan, K8JWR
dmetzger@monroe.lib.mi.us

*** 4 2 5 D X N E W S ***

575

Edited by I1JQJ

Direttore Responsabile I2VGV

PERIOD CALL

till 06/11 VK9XD & VK9XG: Christmas I. (OC-002) * by
VK2CZ & W0YG
till 07/11 J48RT: Thassos Island (EU-174)
till 08/11 DU1/IV3IYH: Palawan Island (OC-128)
till 08/11 J3: Grenada (NA-024) * by SP9PT and SP9BQJ
till 08/11 HC8/EA9CP and HC8/EA1BT: Galapagos
(SA-004)
till 08/11 SV8/HA6KNX,HA6NL,HA7PL, HA7JJS, HA6PS:
Thassos (EU-174)
till 08/11 YO/F6AJA: Romania
**till 09/11 IO1ALP: special call (XX Olympic Winter
Games)**
**till 09/11 IO1BIA: special call (XX Olympic Winter
Games)**
**till 09/11 IO1BOB: special call (XX Olympic Winter
Games)**
**till 09/11 IO1CRO: special call (XX Olympic Winter
Games)**
**till 09/11 IO1CUR: special call (XX Olympic Winter
Games)**
**10/11-09/12 IO1FRE: special call (XX Olympic
Winter Games)**
**10/11-09/12 IO1FSK: special call (XX Olympic
Winter Games)**
**10/11-09/12 IO1HOC: special call (XX Olympic
Winter Games)**
**10/11-09/12 IO1JUM: special call (XX Olympic
Winter Games)**
**10/11-09/12 IO1LUG: special call (XX Olympic
Winter Games)**
till 10/11 TO5S: Les Saintes (NA-114), Guadeloupe * by Fs
till 10/11 XU7TAS: Koh Tas (AS-133) * by ON4AJV and
ON6TZ
till 16/11 5B/DL7AFS and 5B/DJ7ZG: Cyprus (AS-004)
till 16/11 J37LR: Grenada * by VE3EBN
till 17/11 5H1HS: Zanzibar Island
(AF-032) * by DL7VSN
till 20/11 TM4ORA: special event station (France)
till 24/11 DU#/IV3IYH: Philippines
till 28/11 GB4RN: special call*by G3LIK
till 28/11 VC3O: special call * by VE3AT
till November HF0POL: Henryk Arctowski
Base (SP-01; AN-010)
till November KC4/W1MRQ: McMurdo Station
(K-09; AN-011)
till November JW: Bear Island (EU-027) * by LA2TOA
till November P29NI: D'Entrecasteaux Islands (OC-116) *
by G3KHZ
till 01/12 A35BO: Tonga * by HB9FBO
till 13/12 World Tour by OH1VR and OH3SR
till 15/12 R1ANC: Vostok station (UA-10) * by UA1PAC
till 31/12 4N35CW: special event station
till 31/12 9A10KC: special event station
till 31/12 EI05CCC: special event call
till 31/12 HA200CVM: special event call

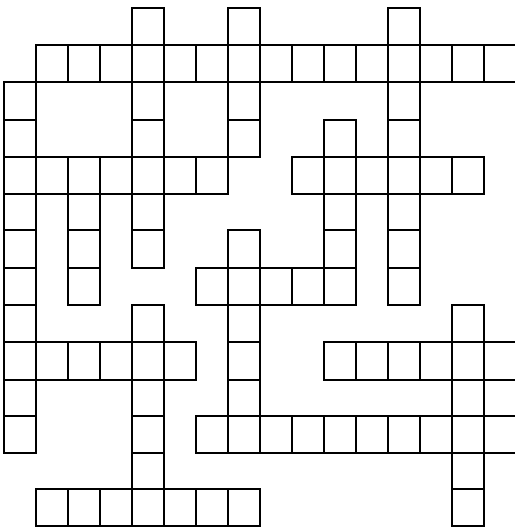
till 31/12 HA80IARU: special event station
till 31/12 HSOAR: special contest call
till 31/12 HS0T: special call
till 31/12 IR7LH/p: Italian lighthouses * by IK7JWX
till 31/12 U7SCT: special station
till 31/12 LZ8IARU. special event station
till 31/12 OE50: special event prefix(Austria)
till 31/12 OL200BA: special event station
till 31/12 OO: special prefix (Belgium)
till 31/12 YT310SKY, YZ610SKY, 4O310SKY:
special stations
till 31/12 YU15ARDF and 4N15ARDF:
special calls
till 31/12 ZS75PTA: special call
till December FY/F5IRO and FY/F8xxx
(F0CRS): French Guyana
till December XQ3/IQ6CC:Chile*by IZ6BRN
till Feb 2066 IIOAMZS: Mario Zucchelli
Station (I-01) * by IK5DHM
till February ZS100RI: special station
till March R1ANT: Mirny base (UA-07), Antarctica * by
RW1AI
till April R1ANN and RU3HD/ANT: Novolazarevskaya
(UA-08, AN-016)
till March 2007 T68G: Afghanistan * by LA5IIA
till ?? LU1ZA: "Orcadas del Sur" (LU-14; AN-008)
till ?? LU1ZD: "General San Martin" (LU-11; AN-016)
till ?? LU1ZI: "Teniente Jubany" (LU-15; AN-010)
till ?? LU1ZV:"Esperanza"(LU-06, AN-016)
till ?? LU4ZS: "Vicecomodoro Marambio" (LU-03; AN-013)
till ??YA/IZ1CCK/P:Afghanistan*by IZ1BWB
01/11-14/11 EX/ES1FB and EX/ES1RA: Kirgiztan
from 05/11 DX0ST: Sarangani Island (OC-175) * by
4F2KWT
05/11-11/11 H40HL: Nendo Island (OC-100), Temotu
Province * by HLs
05/11-06/11 J48JJ and J48PS: Thassos Island (EU-174)
05/11-19/11 KH7U/5 and KH6ND/KH5: Palmyra (OC-085)
05/11-06/11 YL/OZ5IPA: Latvia
06/11-20/11 TL:Central Africa * by IV3OWC
07/11-21/11 VK9CG: Cocos Keeling (OC-003) * by W0YG
08/11-21/11 VK9CG: Cocos-Keeling (OC-003) * by W0YG
09/11-18/11 FS/F5AHO: St Martin (NA-105) and
Tintamarre (NA-199)
09/11-15/11 HC4/EA1BT: Cojimies Islands (SA-056)
09/11-15/11 HC4/EA9CP: Ecuador
09/11-07/12 TXOP: Mayotte (AF-027) * by F6AUS
10/11-30/11 9K2/PA5CW: Kuwait
11/11-13/11 ID9/IW9GUR, /IW9EJP, /IW9HLM,
IT9CVO: Lipari (EU-017)
11/11-13/11 JA1EGG/1: Mikura Island (AS-008)
11/11-02/12 S79WU Praslin Island (AF-024) * by 6HWU
12/11-13/11 HE1G: Paquis Lighthouse
14/11-19/11 V6A: Pohnpei (OC-010) * by JA7HMZ (V63DX)
15/11-28/11 R1MVW and R1MVC: Malyj Vysotskij
(EU-117)
16/11-26/11 A61/SP9MRO: Dubai, UAE
17/11-18/11 V73KJ, V73JY, V73VE: Majuro Island
(OC-029) * by JAs
18/11-28/11 3B8/OM2TW, /OM3PC, /OM5AW,
/OM5RW: Mauritius (AF-049)
18/11-03/12 A52CDX: Bhutan * by F2VX, F9DK, G0LMX
and F5LMJ

***** 4 2 5 D X N E W S *****

continued

- 18/11-20/11 TP1CE: Council of Europe (France)
- 19/11-24/11 V63JQ, V63JY, V63VE: Pohnpei (OC-010) * by JAs
- 20/11-25/11 T88YU and T88LY: Palau (OC-009) * by JQ2GYU and JJ2VLY
- 21/11-02/12 HK0: San Andres (NA-033) * by DK8FD
- 22/11-28/11 FP: St Pierre & Miq.***
AC8W, K8AQM, K8DD, K8GL, K8MM, W8IQ
- 23/11-18/12 5H1CM: Zanzibar Island (AF-032) * by DL7CM
- 23/11-14/12 PZ5WP, PZ5PA, PZ5C: Suriname * by PA3EWP and PA2R
- 23/11-28/11 V26K: Antigua (NA-100) * by AA3B
- 23/11-26/11 V47CJ: St. Kitts & Nevis (NA-104) * by AB2RF
- 24/11-28/11 HS0T: Ko Lanta Yai (AS-053)
- 25/11-28/11 KH2/JA3PPH and KH2/JA3EGZ: Guam (OC-026)
- 26/11-11/12 PA2000N: special call
- 26/11-10/12 TM5OBA: special event station (France)
- 28/11-09/12 4S7PAG: Sri Lanka (AS-003) * by F5PAC
- November 5T0ID: Mauritania * by ON6ID
- November CN2DH: Morocco * by ON6ID

What you would find at a Hamfest



- | | | |
|-------------|---------------------|-------------|
| WIRE | TUBE | KEYER |
| BUYER | JUNQUE | COFFEE |
| HOTDOG | TOWERS | VENDOR |
| RADIOS | NAMETAG | ANTENNA |
| FRIENDS | ANTIQUES | TRUNK SALES |
| BOAT ANCHOR | WHERE DID U FIND IT | |

HAMFEST – UPCOMING
 Ft Wayne, IN Nov 19th 146.88-
 L’Anse Creuse Dec 4th 147.08+
 Lowell Dec 18th 146.62 – pl = 94.8

October quiz

Each section describes a word. How many hints will you need to guess the word?

- A. 1. A length of measurement (meter)
- 2. A time measurement
- 3. An instrument used to trouble shoot a circuit.
- B. 1. To pay a bill in full (foot)
- 2. An Extremity
- 3. A length measurement
- C. 1. Specialized button in a computer Program (radio)
- 2. A brand of wagon
- 3. Used to listen to sounds sent thru the ‘ether’
- D. 1. The lens of a microscope are fitted into this (tube)
- 2. A hollow cylinder
- 3. Used in radios before transistors
- E. 1. The first person singular verb (AM)
- 2. Early part of the day
- 3. Control of a transmission by power instead of frequency

(Definitions mostly from Webster’s dictionary)

Name _____ Call _____
 Address _____ Phone _____
 City, State, Zip _____
 Email _____
 Program I’d like to see _____
 Interests _____ DX _____ Contests _____ UHF/VHF _____ Nets _____ ARPSC _____
 Yes, I would like to join MCRCA. Dues Regular \$10.00
 Additional Family members \$5.00 each Amount Paid _____
 I would also like to join the River Raisin Repeater Association
 RRRRA Dues \$15.00 each. Amount Paid to RRRRA _____
 Send to: MCRCA, PO Box 237, Monroe, MI 48161
 MCRCA membership form. RRRRA will be forwarded to RRRRA.

Active Attenuator Construction Project By Stan Briggs, K8SB

Radio Direction Finding (RDF) in Amateur Radio is both a competition and a valuable skill. RDF is used to find sources of interference to any form of wireless electronic communications, including broadcast and two-way radio, television, and telephones. It is also used to track missing or stolen cars and other property. Search and rescue workers use it to find persons in distress. Emergency Locator Transmitters in downed aircraft are tracked with RDF techniques. I have used RDF techniques to track down interference to several Amateur repeaters. I have even used RDF equipment to locate frogs with radio collars for my daughter's U. C. Berkeley biology project in the California Serras. (But that is another story!)

A fun way to gain skill in RDF is to participate in hidden transmitter hunts. (Fox hunts). Many radio clubs around the world hold hunts on a regular basis. Most hunts now days are held on VHF amateur bands. Fairly simple equipment can be employed with quite good results. A handheld transceiver and a 3 or 4 element yagi antenna will work well. One problem however is that when one gets within a mile or so of the transmitter with an antenna that has any gain at all the signal is so strong that one can't determine anymore which direction the signal is coming from.

One approach is to make use of a passive attenuator constructed using switches and resistor networks. The problem with these devices is that one reaches a point where the signal bypasses the attenuator and goes right into the receiver directly. A very practical way around this problem is to make use of what is referred to as an active

attenuator. The active attenuator makes use of the heterodyne principle to shift the frequency of the hidden transmitter to another frequency which is tunable by the receiver. The strength of the shifted signal is controlled by the amount of oscillator injection in the active attenuator.

I designed an active attenuator which makes use of a crystal controlled oscillator module to serve as a club construction project for the Motor City Radio Club last spring. Twenty two were successfully constructed and many were used this summer during MCRC's monthly fox hunts. I also used my prototype twice to track down interference to the 147.24 MHz repeater.

I have been asked to present the active attenuator project construction session for the Monroe Club. We will be holding it on January 19, 2006. The kit parts I will provide consists of all of the required components including an etched and drilled printed circuit board, metal box, BNC connectors, switch, knob oscillator module, pot, resistors, diode, voltage regulator and capacitors. Each participant will need to provide a 9 volt transistor battery. The cost for each kit is \$20.00. A semi-kit consisting of only the printed circuit board and the oscillator module will be available for \$10.00. The kits must be ordered by the end of the December club meeting so that the parts can be ordered in time for the January 19 session.

I am going to visit the December club meeting to present a brief demonstration of the unit. I hope to see you there.

Order Blank is on last page of this newsletter.

Subject Elmer Callsign Telephone

Antennas Dale WA8EFK (734) 529-3232

Code Practice Nick AF8CS (734) 269-2302

Contests

County Hunting

Nick AF8CS (734) 269-2302

DXCC Awards

Olimpio WB8SEZ (734) 241-2897

Rag Chewers Club

Tom N8OSC (734) 847-6549

WAS (Worked All States)

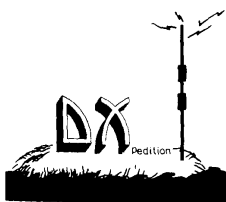
Nick AF8CS

(734) 269-2302

DX (Long - Distance Contacts)

Olimpio WB8SEZ

(734) 241-2897



FM Dale WA8EFK (734) 529-3232

Homebrew (Do It Yourself)

Keith K8YKD

(734) 847-8607



License Testing

Paul W8PI

(734) 854-2224

Public Service

Mike N8KUF (734) 847-4648

Technical Questions & Electronics

Dan K8JWR (734) 856-3678

Traffic (Message Handling)

Tom N8OSC (734) 847-6549

Tube Radios

Paul W8PI (734) 854-2224

Our local Monroe County Repeaters are:

Input Output
 146.12 - 146.72
 223.18 - 224.78
 449.55 - 444.55
 447.825 - 442.825



MCRCA meetings are on the 3rd Thursday of the month at the American Red Cross Bldg on N. Dixie (near I-75). 7PM for goodies and eyeball QSO's. Meeting at 7:30.

ARPSC net meets Monday Evening at 9PM on the 146.72 machine courtesy of the River Raisin Repeater Association.

Out of County Testing Sessions

Wyandotte, usually first Saturday of odd numbered months. Call 313-676-6284.

Ann Arbor, changed to new day, Call Clay 313-662-6663

Maumee, 2nd Saturday of month

Motor City 313-676-6284

Arrow 313-663-4625

Hazel Park 248-399-7970

L'anse Creuse 810-294-1567

Oak Park 248-642-3608

Classes

Toledo Brian 419-385-5624

Toledo - Doug - No Code Tech 419-882-7860

Motor City Gary 734-671-5135

Practice Tests

Test yourself with an on-line site that grades your tests immediately. Visit www.wvara.org and follow the link. *ARRL Letter Vol 19, No 5.*

MCRCA 2004

Standing Committee Appointments:

Club Station: W8JDY, Trustee

DX Net: WB8SEZ, Manager

Field Day: KA8NCR, Chair

Finance: W8PI, Chair

KA8EBI, WA8EFK

Hamfest: HELP - someone please take over

Hertzian Herald: WB8FBG, Editor

Historian: AF8CS

Public Relations: WD8ITZ

Amateur Radio Examinations Monroe, MI

Monroe County Radio Communications Association

Amateur Radio examinations are held the 3rd Saturday
of every even numbered month at:

American Red Cross Chapter Bldg.

1645 North Dixie Highway
Monroe, MI 48162

Walk-ins
are always
welcome

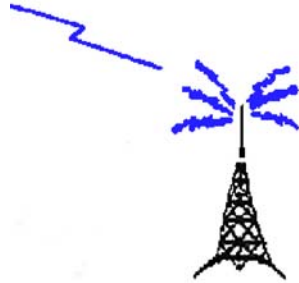
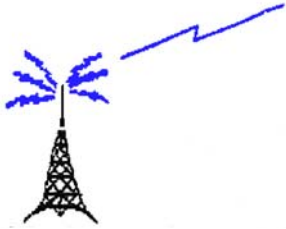
2005

Dec 17

2006

Feb 18

April 15



President: Olimpio Varsogea WB8SEZ

Vice-President: Bob Imber KC8QHN

Secretary: Fred VanDaele KA8EBI

Treasurer: Brenda VanDaele KB8KQC

Director 1: Otto Uecker W8JDY

Director 2: Tim Rehahn KC8ZTI

Director 3: Paul Trouten W8PI

TESTING BEGINS PROMPTLY AT 9:00 AM

Applicants are expected to have all forms filled out and
be ready to take tests at that time. Coffee and
doughnuts are available at 8:30 AM.

For more information or to make reservations, call Paul Trouten -
W8PI at 734-854-2224 (Please call ahead)

Monroe County Radio
Communications Association
P.O. Box 237
Monroe, MI. 48161-0237

Make an antenna night

Active Attenuator Project Kit Order Form

Name_____Call_____

Telephone Number: _____

Please reserve for me:

Quant:___ Active Attenuator Kit @ \$20.00 ea

Quant:___ Active Attenuator Semi-kit @ 10.00 ea

Signed: _____

Date Paid:_____

Please fill out and give to Fred KASEBI