

W8LAP/r
146.620 - 100Hz
442.750 + Open
www.w8lap.com



WAVEGUIDE



Lapeer County Amateur Radio Association

March

Published Monthly by the Lapeer County Amateur Radio Association

2008

*The next regular meeting will be held on
Tuesday, March 11 —7:30 p.m.
at the Lapeer County Central Dispatch Center (911)
2332 W. Genesee Street in the basement.*

The Prez Sez:

March 29 is the next amateur radio testing at the Lapeer 911 center. The test starts at 9 am. The cost is \$14. Bring your license and any CSCE, and copies of them. Pre-registration is not required. We would like to know if anyone is coming. Bob, N8NE

The Sec'y Sez:

Due to the weather in February, there are no minutes to print this month.

The Treasurer Sez:

Greetings to one and all. The days are getting longer and it is staying light much longer, so I guess we can start looking towards spring. I for one have been enjoying the sunny days we have been having in between snow storms. With the coming of spring we must remember that Operation Care will start in a couple of months. Op-Care is the single most important fund raiser for the club coffers, and thanks to the donations we are able to keep the dues to a more than reasonable amount. I beg of you that you spend at least an hour of your time to take a time slot and enjoy the fellowship out at the rest area.

February is a very expensive month, as the two insurance policy come due for the year. Our liability insurance is over two hundred dollars, and the property insurance is very close to two hundred dollars also. So when they come due it makes your treasurer feel real good that we have the money set aside to pay for them.

The other bills were just the normal electric and phone for the repeaters.

Hope to see you all at the meeting on March 11, 2008
73 Bill Miller KD8VP

The Trustee Sez:

Hello to everyone. The 440 repeater is back up and running, but with a new twist. In order to overcome the noise problem we were experiencing, I had to initiate a PL input tone on the repeater. You will have to program in 123 Hz. tone in order to access the 440 repeater. It has been back running with the tone for several weeks now and has not had a problem since. I did not want to put the tone on it as the type of controller utilized does not allow me to put a voice message on it telling everyone to use

the 123 Hz tone. But unfortunately that is the only way that we can keep it from being interfered with.

Please spread the word that the 442.750+ repeater is now accessed with 123 Hz input tone.

Please use the repeaters!!!!

73 Bill Miller KD8VP Trustee

The EC Sez

S.A.T.E.R.N. – What is it?

No, it is not one of the planets. The Salvation Army Team Emergency Radio Network (SATERN) was developed to enhance the use of Amateur Radio in Emergency Disaster Services (EDS) for the Salvation Army. The purpose of the group is to acquire and train personnel skilled in emergency communication and message handling who will support the Salvation Army in local, regional, national and international disaster situations. Any licensed Amateur Radio Operator is eligible to serve as a volunteer member of the SATERN team. Many SATERN members also participate in other communications groups such as ARES, ARPSC, RACES and local amateur clubs.

In June of 1988 Major Patrick McPherson WW9E (SATERN National Director) and 3 other hams organized SATERN. Today besides the United States SATERN has links in Australia, Canada, Mexico, Great Britain and Russia. Members have provided communications support starting with the 1990 Plainview Illinois Tornado in 2 major floods, 10 hurricanes, 1997 Los Angeles Earthquake, terrorist attacks in Oklahoma City, the Pentagon and World Trade Center and the 2004 Haitian Coup. SATERN members assist in Emergency Disaster Services by:

- handling Health and Welfare inquiries
- providing communication support to mobile units such as canteens and
- co-coordinating delivery of emergency supplies.

For example during Super Bowl XL members shadowed the Salvation Army IC, the Logistics and Operations

The Lapeer County Emergency Services Sez:

See the Skywarn flyer attached below.....PLEASE NOTE THE NEW LOCATION THIS YEAR. Due to some scheduling conflicts, we are having to relocate our event to Imlay City High School this year, please help spread the word. Thanks
Mary Stikeleather

From the mailbag:

Build Something!

A couple of years ago, a group of us were talking on the club repeater, and the talk got around to building stuff. One of the guys said, "You can't really build anything anymore." I almost fell out of my chair. That's simply not true. Heathkit may be just a fond memory, but there are still many companies out there selling kits that are not only fun to build, but are useful additions to the ham shack.

Here are a couple of sources:

* **Elecraft** (www.elecraft.com). In my mind, Elecraft has

Section Chiefs and manned 5 canteens with 2 meter HTs stationed throughout Downtown Detroit area. The Net Control Base Station coordinated the members via local repeaters. The Base Station also maintained contact with Lansing EOC via HF antenna mounted on the SATERN mobile 100 ft crank up tower. The Lansing EOC coordinated the HF Emergency Net maintaining contact with 5 surrounding states and the Ontario EOCs which were on alert from two hours before and during the game. SATERN members logged over 169 man hours during the 3 days before and the day of the game.

Training is provided in net procedures, traffic handling, Introduction to Emergency Disaster Services and Incident Command. Members have participated in Salvation Army workshops for: CPR/AED, First Aid, Canteen Safety, Food Handling Safety, Driver Safety, Critical Incident Stress Management, C.E.R.T. and EDS Conferences. Members also participate in local, county, regional and national exercises as well as Field Day, the Simulated Emergency Test (SET) and Special Events Stations.

SATERN members meet monthly (September thru June) at either Mt Clemens Corps or Eastern Michigan Divisional Headquarters in Southfield. Metropolitan Detroit SATERN also provides weekly Monday night 2 meter nets using the USECA (7:30 PM) and RADAR (9 PM) repeaters. The National HF net meets Monday thru Friday on 14265 KHz SSB 1500Z. (See www.saturn.org for more complete net listings and future information on SATERN.)
Ann-Marie Ruder K8AMR SATERN Team Leader

QRP Club. My current General Class students are going to build the DC40A kit (\$40) as an exercise in building and as a way to learn about how radios work.

Below are some other companies whose kits have good reputations, but with which I have no personal experience:

- * Small Wonder Labs (www.smallwonderlabs.com)
- * Wilderness Radio (www.fix.net/~jparker/wild.html)
- * Milestone Technologies (www.mtechnologies.com)
- * Almost All Digital Electronics (www.aade.com/index.html)
- * FAR Circuits (www.farcircuits.net)
- * Jackson Harbor (home.att.net/~jacksonharbor/ham.htm)
- * QRPme (www.qrpme.com/)
- * Linear Amp UK (www.linamp.co.uk)

QRP clubs are also a good source of cool kits. The problem with QRP clubs is that they order parts only for a very short run of kits. Once they sell out, the kits are no longer available. Even so, here are some clubs that are worth checking out:

- * American QRP Club (www.amgrp.org)
- * Four State QRP Club (4sqrp.com/kits/kits.htm)

* NORTEX (www.kk5na.com/nortex.htm)

Ready to rock and roll? Here are a couple websites that you might want to check out before you dive in:

- * Electronic Construction from A to Z (www.mtechnologies.com/building/atoz.htm). This site includes a page that lists all the tools you'll need to become a successful kit builder.
- * Crystal Sets to Sideband: A Guide to Building an Amateur Radio Station (www.gsl.net/k3pd/book.html). This site not only discusses kit building, but also radio theory.
- * The Art of Kit Building (www2.netnitco.net/users/wt9w/kit%20building.html)

I hope that I've whetted your appetite for building a kit or two. They're a lot of fun to build, and you really do get a rush from operating a radio or using a piece of test equipment that you built yourself.

What have you built lately? Let Dan know. Email him at cwgeek@kb6nu.com.
[and don't forget to let the Waveguide editor know!]

And with the idea of building things, comes this article from Joel W8UY

A Field-Expedient Hardware-Store 70 cm FM Simplex Gain Antenna

Joel R. Stanley WU8Y

Parts List:

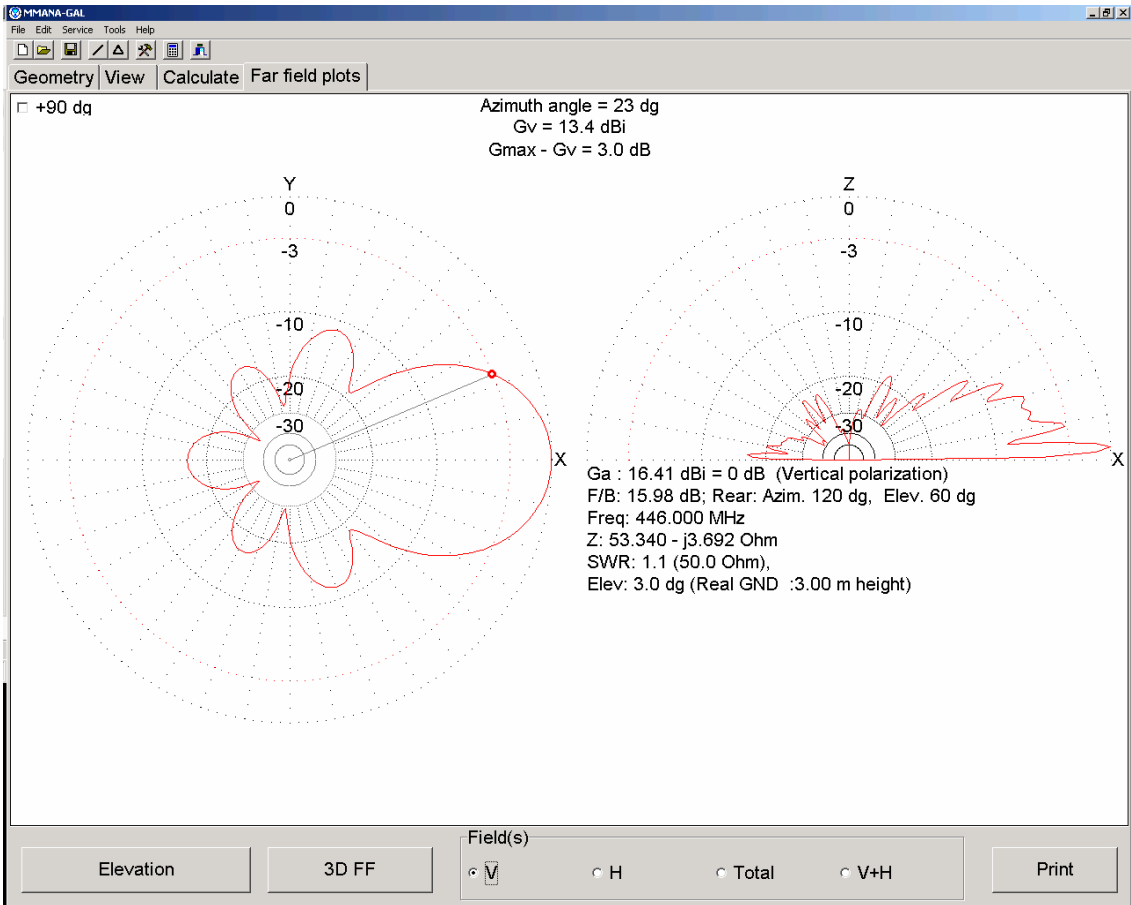
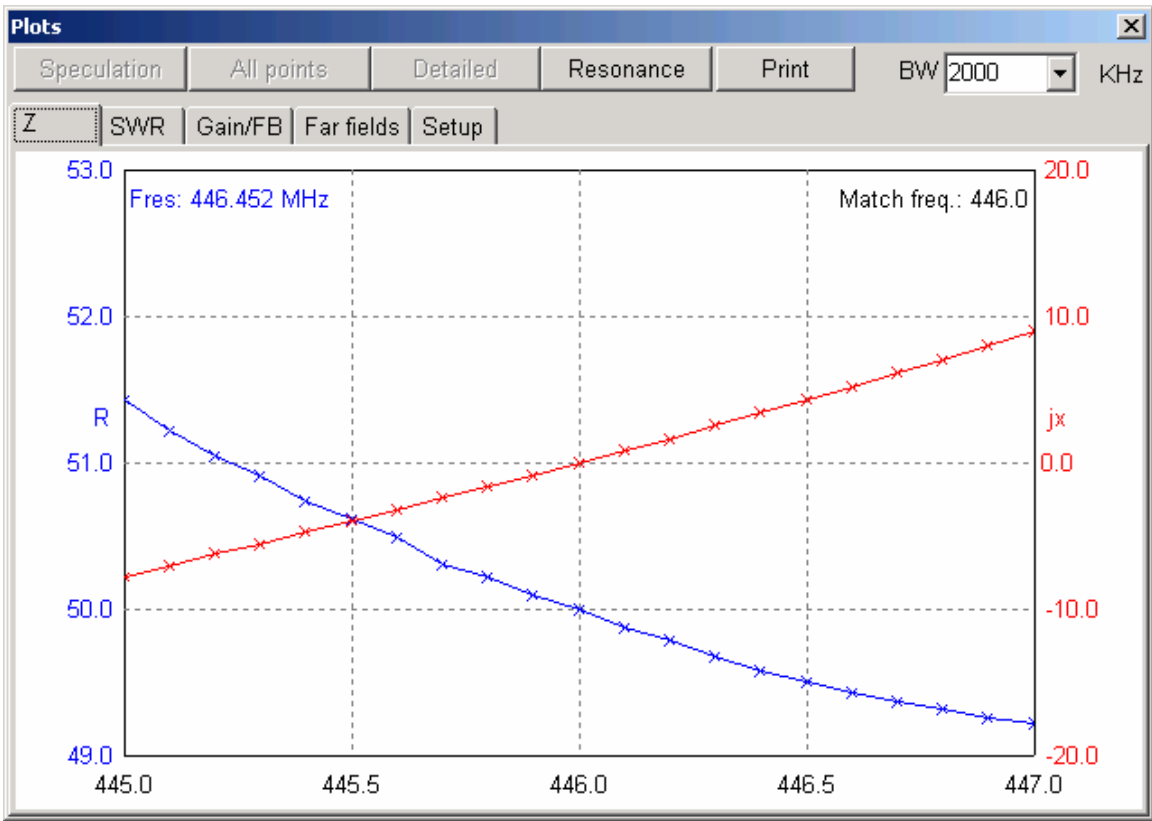
- ½" square, 36" length, wooden dowel
- 4 x ¼" diameter, 36" length wooden dowels
- 17 feet 22 AWG wire
- 20 feet RG-58 coax, with a plug of your choice (UHF, BNC, N) installed on one end
- Plastic or wooden painter's pole or PVC pipe, to use as a mast.

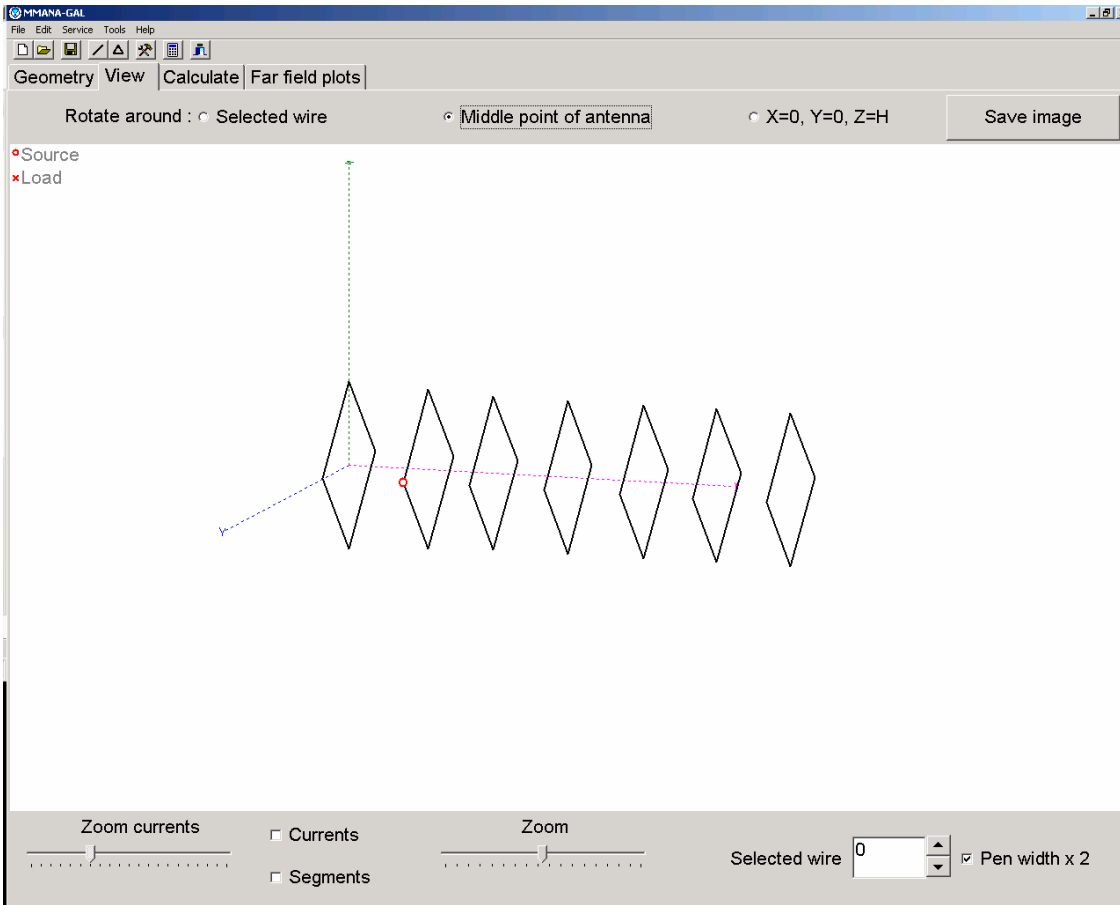
Cut dowels of the following lengths from the ¼" dowel stock: 2 x 10 ¼"; 2 x 9 13/16"; 10 x 9 7/16". The reflector will use the 10 ¼" length dowels; the driven element the 9 13/16" length dowels, and the directors the 9 7/16" dowels.

Mark the square dowel boom with a stripe or pencil mark all the way around at the following distances from one end: 4, 9 1/16, 13 1/8, 17 7/8, 22 ¾, 27 3/8, and 32 inches. On one side of the boom, make marks 1/8" back towards the end, from the stripes; on the next side, make similar marks 1/8" from the stripe towards the other end. Using a ¼" drill, drill straight through the boom from the middle of one flat side to the other flat side. Insert one set of dowels and center them within the boom; it should now look like a wooden Yagi. Now, drill through the boom and elements from the perpendicular direction and insert those elements, giving a more classical quad appearance. Give the first set of dowels a little twist, locking them together. Using a file, notch both ends of each dowel making a groove for the antenna wires.

Wire lengths, not including soldering overlap: reflector, 2 feet, 5 1/16"; driven element, 2 feet, 3 11/16"; all directors, 2 feet, 2 5/8". Cutting and stripping an extra ¼" on each end ought to be sufficient overlap. Wrap the wire on the end of the four dowels at its position, using electrical tape to hold it taut while you twist the ends together and solder the loop closed. For the driven element, solder the center conductor to one end and the shield to the other end of the wire loop, making sure the attachment is made at the end of one dowel, not in the middle between dowels. Use electrical tape to affix the feed point to the dowel and provide a little weather resistance.

Put the top of the mast against the boom just on the driven element side of director 2. Ensure that the feed-point is on a horizontal support before using plastic removable cable-ties to attach the mast to the director 2 spreader.





Understanding HF Radio Propagation Forecasts

From http://www.n0hr.com/radio_propagation.htm

Ham Radio operators, shortwave radio enthusiasts often talk about propagation index numbers, the status of the solar cycle and geomagnetic conditions. Why? What do the numbers mean? On many ham radio frequencies, especially on HF, these factors determine whether worldwide contacts can be made with very little effort (low power and a modest antenna) or radio blackout conditions exist (no contacts possible). The following information, adapted from NOAA, can be helpful in these numbers.

The National Oceanic and Atmospheric Administration (NOAA) uses WWV and WWVH to broadcast geophysical alert messages that provide information about solar terrestrial conditions. Geophysical alerts are broadcast from WWV at 18 minutes after the hour and from WWVH at 45 minutes after the hour. The messages are less than 45 seconds in length and are routinely updated every 3 hours (typically at 0000, 0300, 0600, 0900, 1200, 1500, 1800, and 2100 UTC). Updates are more frequent when activity warrants.

The geophysical alerts provide information about the current and predicted solar terrestrial conditions found useful for long distance HF radio communications and other applications. The alerts use a standardized format and terminology that requires some explanation. The terms used in the announcements are defined below:

Solar flux is a measurement of the intensity of solar radio emissions with a wavelength of 10.7 cm (a frequency of about 2800 MHz). The daily solar flux measurement is recorded at 2000 UTC by the Dominion Radio Astrophysical Observatory of the Canadian National Research Council located at

Penticton, B.C., Canada. The value broadcast is in solar flux units that range from a theoretical minimum of about 50 to numbers larger than 300. During the early part of the 11-year *sunspot cycle*, the flux numbers are low; but they rise and fall as the cycle proceeds. The numbers will remain high for extended periods around sunspot maximum.

The A and K indices are a measurement of the behavior of the **magnetic field** in and around the Earth. The *K index* uses a scale from 0 to 9 to measure the change in the horizontal component of the geomagnetic field. A new K index is determined and added to the broadcast every 3 hours based on magnetometer measurements made at the Table Mountain Observatory, north of Boulder, Colorado, or an alternate middle latitude observatory. The *A index* is a daily value on a scale from 0 to 400 to express the range of disturbance of the geomagnetic field. It is obtained by converting and averaging the eight, 3-hour K index values. An **estimate** of the A index is first announced at 2100 UTC, based on 7 measurements and 1 estimated value. At 0000 UTC, the announced A index consists entirely of known measurements, and the word “estimated” is dropped from the announcement.

Space Weather describes the conditions in space that affect earth and its technological systems. Space weather is a consequence of the behavior of the sun, the nature of Earth’s magnetic field and atmosphere, and our location in the solar system.

Space Weather storms observed and expected are characterized using the NOAA Space Weather scales. The abbreviated table below shows the levels of activity that are included in the announcements and the associated terminology. The descriptor used to identify observed or expected conditions is the maximum level reached or predicted. The [NOAA Space Weather Scales](#) are further described on the Space Environment Center web site.

NOAA Space Weather Scales			
Geomagnetic Storms	Solar Radiation Storms	Radio Blackouts	Descriptor
G5	S5	R5	Extreme
G4	S4	R4	Severe
G3	S3	R3	Strong
G2	S2	R2	Moderate
G1	S1	R1	Minor

This newsletter is being edited under severe conditions. The outdoor temperature on March 2, 2008 at 10:20 AM is a chilling 60 degrees and the wind chill appears to be about 60 degrees. The location is Ocean City, MD and in spite of the weather we will try to get this newsletter, and the March issue, out in a timely manner. I hope the club will actively pursue the remote receive site and not let it slip away due to apathy. It would be another story if the club could not afford a first class repeater operation!

Upcoming Swaps...

Toledo Hamfest	Mar 16 2008	8:00 am	Lucas County Recreation Center, 2901 Key St, Maumee, OH	http://www.tmrahamradio.org/hamfest.htm
Michigan Crossroads Hamfest	Mar 15 2007	8:00 am	Marshall High School, 701 North Marshall Avenue Marshall MI	146.660- 146.52 http://www.w8df.com

Upcoming DX

Feb 13 – 18 - Look for your ole editor from the country of Suriname in South America using the call PZ5DD. The other operators going along are Stan AC8W / PZ5WW, Jim KB8TXZ / PZ5TX and Jay W5JAY / PZ5AY. All bands 160 through 6 meters and all modes. QSL PZ5DD and PZ5WW to K8DD and PZ5TX & PZ5AY to their home calls.

And now One way to find when & where the DX is operating! ***DX Packet Cluster***

The **WA8DX** Spider Packet Cluster node is available on **144.970**. At present **WA8DX** is receiving DX info via

K8SMC in Jackson or N8NM in Waterford.

This is a tool you can use to build your DXCC total, see where people are working stations on both HF and VHF, and even pass messages.

Use your TNC to connect in the command mode and use **C WA8DX** as the command. Once connected you will get a welcome screen that asks for info. You should start to see DX spots right away.

You can also connect via the internet. Telnet to **wa8dx.servebeer.com** use port **7300**

Although you can stay connected indefinitely, if you decide to disconnect, type **b** or **bye** and you will be logged out.

You can view an online version of a users manual at: www.wd1l.net/DXSpider/usermanual_en.html

Remember...DX Is!

The Dayton Hamvention is coming –



May 16, 17, & 18, 2008

QRP-ARCI has a block of rooms at a reduced price at the Holiday Inn in Fairborn, OH. Check the details at rooms.qrparci.org or contact Hank K8DD at the next meeting or 810 721 0708

Lapeer County Amateur Radio Association

P.O. Box 12
Hadley, MI 48440-0012

Officers

President, Bob Beswetherick, N8NE . 810-653-3856
Secretary, Flo Haack KC8CAB 810-793-2606

Vice-Pres., Chris Azelton, KC8TWL..810-245-0073
Treasurer, Bill Miller, KD8VP.....810-797-5329

Committees & Appointees.

Club Founder.....Hollis Hayes, W8ACD
Club Historian.....Bill Hetchler, KC8SHI
Skywarn Coordinator.....Pete Headrick KB8RSG
Field Day Chairman.....Bill Miller, KD8VP
Two Meter Net Mgr.....Charlie Whipp, KC8JBK
Public Information Officer...

Club Call TrusteeW8LAP.....Bill Miller, KD8VP
VE Coordinator.....Al Wilson, N8NPR
Swap & Shop Chairperson.....Bill Miller, KD8VP
Meeting Refreshments.....Bill Miller, KD8VP
Newsletter Editor.....Hank Kohl, K8DD

ARES Repeater Nets

Monday at 9:00 PM on 146.620-
Thursday at 9:00 PM on 442.750+
Mon—Sat at 9:30 PM on 147.300+

Meetings

LCARA meetings are held on the second Tuesday of each month in the Lapeer County Central Dispatch Center (911), 2332 W. Genesee St, Lapeer MI at 7:30 p.m. local time.

Board of Directors' monthly meetings are held on the first Tuesday of each month at Tim Horton's at 7:30PM (Check on the W8LAP repeaters).

Newsletter

Items for the newsletter may be called to the Editor at 810-721-0708, sent by Mail (Box 88, Attica, MI 48412), or as an ASCII or Word to k8dd@arrl.net The deadline for submissions is the 20th of each month.

Volunteer Exam Session:

The next ARRL Volunteer Exam (VE) session will be **Mar 8, 2008** at 10:00 a.m. in the 2nd floor meeting room at the Port Huron Branch of the St. Clair County Library, 210 McMorran Blvd, Port Huron, MI.

Walk-ins are welcome for the 2008 Volunteer Examinations.

Bring picture ID, the original and a copy of your present license and the original of any Certificate of Successful Completion (CSC) you may hold.

The current fee is \$14.00.

This year we will be sending the schedule to area clubs, school districts and posting at the Radio Shacks.

The remaining 2008 sessions will be:

Mar 8 Apr 12 May 10

Jun 14 Jul 12 Aug 9 Sep 13

Oct 11 Nov 8 Dec 13

For further information call Bob Herbert, K8WMW, at 982-1561 or k8wmw@arrl.net

For Sale For Sale For Sale For Sale:

I want to buy your old ham/electronic/tube gear. I'm particularly looking for the Heathkit Mohawk that I built and sold to Dave Burch four decades ago.

Contact Mike, AA8K, at: stepsisters@comcast.net or 810-987-8873

For Sale

HW-8 Handbook—covers HW-7, 8 & 9 \$15

Ten Tec Construction boxes sold out!

K7QO Code Course CD \$ FREE

COM port boards, ISA, 2 ports \$3.00 ea

100' Rohn 45 tower with antennas, house, large garage, dipoles, vertical & wire antennas. Will not split. \$negotiable.

Contact Hank K8DD at k8dd@k8dd.com or 810-721-0708

Be Radio-Active Participate

Know Your FCC Rulemaking Process

By Dan Romanchik, KB6NU

Around Christmastime, a furor arose over a petition to change the rules regarding the use of digital modes. The petition number is RM-11392. You can find it on the FCC website by going to http://gullfoss2.fcc.gov/prod/ecfs/comsrch_v2.cgi and entering the petition number in the Proceeding text box. The petition will be the highest numbered document returned.

While the petition is interesting in and of itself, what's more interesting is how some hams got all excited about this petition. Many thought that rules changes were imminent, and they urged everyone to rush right over to the FCC website and comment. While it's a good thing for hams to be vigilant about proposed rule changes, this petition was nowhere near being turned into a rule.

On the Web page, "FCC Rulemaking Process" (<http://www.fcc.gov/rules.html>), the FCC describes the four steps that occur before a petition is translated into rules changes:

1. Notice of Inquiry (NOI). During this phase, they gather comments on the petition.
2. Notice of Proposed Rulemaking (NPRM). If they determine that a petition has merit, they move to this stage. These are the rules changes that the FCC itself proposes to make, based on the petition and the comments received.
3. Further Notice of Proposed Rulemaking (FNPRM). Changes may be made to the NPRM after receiving comments on the NPRM.

4. Report & Order (R&O). The R&O is the document containing the rules changes or an explanation of why no rules changes are being made at this time.

At the time when everyone was getting excited about this, there was no NPRM in the list of documents relating to RM-11392. The petition was filed on 3/27/07, released for comments on 8/28/07, and the first comment wasn't entered until 11/20/07. Only two other comments were entered until all the recent publicity. This particular petition is still a long way from becoming a Part 97 rule, and if I had to guess, I'd say that it will never even get to the NPRM stage.

Don't get me wrong. I am not saying that it isn't important to read and comment on petitions. But before you get your knickers in a twist over a particular petition or proposal, you need to know where it is in the process. This process can be excruciatingly slow sometimes, but slow is not always a bad thing. By not rushing petitions through the rulemaking process, the FCC ensures that it gets comments from all concerned and that all those who are interested in an issue can take their time to draft a really cogent comment.

When he's not scanning the FCC website or eHam.net for the latest ham radio controversy, KB6NU works CW and PSK on the HF bands and blogs about ham radio at www.kb6nu.com. You can reach him by e-mail at cwgeek@kb6nu.com.

N2CQ QRP CONTEST CALENDAR

March 2008

80 METER FOXHUNT (CW) *** QRP Contest ***
Each Tuesday to Mar 25
9 PM to 10:29 PM Eastern Time USA
Info: <http://www.qrpfoxhunt.org/>

40 METER FOXHUNT (CW) *** QRP Contest ***
Each Thursday to March 27
9 PM to 10:29 PM Eastern Time USA
Info: <http://www.qrpfoxhunt.org/>

Adventure Radio Spartan Sprint (CW) ... QRP Contest!

EST: Mar 3, 9 PM to 11 PM (First Monday each month)

UTC: Mar 4, 0200z to 0400z

Rules: <http://arsgrp.pbwiki.com:80/Spartan+Sprints>

Daylight saving starts Mar 9 - 0200 AM

Oklahoma QSO Party (CW/Digital/Phone) ... QRP Category

Mar 8, 1400z to Mar 9, 0200z and

Mar 9, 1300z to Mar 9, 1900z

Rules: <http://www.okdx.org>

AGCW QRP Contest (CW) ... QRP/QRPP Category

Mar 8, 1400z to 2000z

Rules: <http://www.agcw.org/?Contests>

Elecraft QSO Party (CW/SSB/Dig) ... QRP Category

Mar 8, 1500z to Mar 9, 1500z

Rules: <http://www.elecraft.com>

Second Class Operator's Club Marathon Sprint (CW) .. QRP Contest!

Mar 8, 1800z to 2400z

Rules: <http://www.qsl.net/soc/contests.htm>

Idaho QSO Party (Ph/CW/Dig) ... QRP Category

Mar 8, 1900z to Mar 9, 1900z

Rules: http://www.nt4tt.com/main_page_link/nt4tt.htm

North American Sprint (RTTY) ... QRP Category

Mar 9, 0000z to 0400z

Rules: <http://www.ncjweb.com/sprinrules.php>

SKCC Weekend Sprint (Straight Key CW) ... QRP Category

Mar 9, 0000z to 2400z

Rules: <http://www.skccgroup.com/sprint/wes/wknd-sprint-rules.html>

UBA (Belgian) Spring Contest (CW-80m) ... QRP Category

Mar 9, 0700z to 1100z

Rules: http://www.uba.be/hf_contests/rules_en.html#

Wisconsin QSO Party (CW/SSB)... QRP Category

Mar 9, 1800z to Mar 10, 0100z

Rules: <http://www.warac.org/index.htm>

SKCC Sprint (Straight Key CW) ... QRP Awards

Mar 12, 0000z to 0200z

Rules: <http://skccgroup.com/sprint/sprint-rules.htm>

Ten-Ten Mobile QSO Party (CW/SSB) ... QRP Category

Mar 15, 0001z to 2359z

Rules: <http://www.ten-ten.org/calendar.html>

Russian DX Contest (SSB/CW) ... QRP Category

Mar 15, 1200z to Mar 16, 1200z

Rules: <http://www.rdx.org/asp/pages/rulesg.asp>

Virginia QSO Party (CW/SSB/Dig) ... QRP Category

Mar 15, 1800z to Mar 17, 0200z

Rules: http://www.qsl.net/sterling/VA_QSO_Party/QSOParty.htm

QRP ARCI HF Grid Square Sprint (CW) *** QRP Contest ***

Mar 16, 1500z to 1800z

Rules: <http://www.qrparci.org>

RUN FOR THE BACON (CW) *** QRP CONTEST ***

EDT: Mar 16, 9 PM to 11 PM

UTC: Mar 17, 0100z 0300z

Rules: <http://fpgrp.net:80/fpqrprun.php>

AGCW VHF/UHF Contest (CW) ... QRP Category

Mar 15, 1600z to 2100z

Rules: <http://www.agcw.org/?Contests>

NAQCC Straight Key/Bug Sprint *** QRP CONTEST! ***

EDT: Mar 19, 8:30 PM to 10:30 PM

UTC: Mar 20, 0030z to 0230z

Rules: <http://www.arm-tek.net/~yoel/contests.html>

BARTG Spring RTTY Contest

Mar 22, 0200z to Mar 24, 0200z

Rules: <http://www.bartg.org.uk/contests.htm>

Spring QRP Homebrewer Sprint (CW/PSK31) ... QRP Contest!!!!

UTC: Mar 24, 0000z to 0359z

EDT: Mar 23, 8PM to Midnight EDT)

Rules: <http://www.njgrp.org/data/qrphomebrewersprint.html>

Low Power Spring Sprint (CW) ... QRP Category

Mar 24, 1400z to 2000z

Rules: <http://www.sk3bg.se/contest/lpsrspr.htm>

CQ World-Wide WPX Contest (SSB) ... QRP Category

Mar 29, 0000z to Mar 30, 2359z

Rules: <http://www.cq-amateur-radio.com/awards.html>

MQFD Monthly Sprint (CW/PH/Digital) *** QRP Contest ***

Mar 29, 1800z to 2200z

Rules: <http://w2agn.net/mqfdsprint.html>

Thanks to SM3CER, WA7BNM, N0AX(ARRL), N2APB, WB3AAL and others
for assistance in compiling this calendar.

If you wish to subscribe to the Calendar,
send an e-mail to N2CQ@[ARRL.Net](mailto:N2CQ@ARRL.Net)

Please forward the contest info you sponsor to N2CQ@[ARRL.NET](mailto:N2CQ@ARRL.NET) and
we will post it and give it more publicity.

Anyone may use this "N2CQ QRP Contest Calendar" for your website,
newsletter, e-mail list or other media as you choose.

(Include a credit to the source of this material of course.)

72 de

Ken Newman - N2CQ

N2CQ QRP Contest Calendar Links:

<http://www.n3epa.org/Pages/Contest/contest.htm>

<http://www.amgrp.org/contesting/contesting.html>

2008 Skywarn Class

(a.k.a. Tornado)



They DO happen HERE



Hadley 2007



SPONSORED BY:

*Lapeer County Office of Emergency Mgmt Lapeer County
Amateur Radio Association
National Weather Service*

**IMLAY CITY
HIGH SCHOOL
AUDITORIUM**

1001 Norlin Drive, Imlay City

NOTE NEW LOCATION



**Thursday
April 3, 2008**

at

7:00 P.M.



FREE

**and Open
to the Public**



**Pre-Registration
Required:**

www.lapeercountyemd.org

Skywarn Training

- Skywarn spotter training sessions are held to train individuals on how to accurately observe such weather phenomena as wall clouds, funnel clouds, tornadoes, shelf clouds associated with squall lines, and clouds that resemble funnel clouds and tornadoes but really aren't.
- In addition, topics covered during Skywarn training are:
 - the role of the spotter, the NWS and emergency services;
 - a recap of significant weather events during 2007;
 - the necessary atmospheric conditions for thunderstorm development;
 - tornado classifications;
 - severe weather safety tips;
 - severe weather terms used in National Weather Service products;
 - what to report to the National Weather Service; and,
 - how to report information to the National Weather Service.
- Skywarn training presentations usually last around two hours, with a scheduled break included.
- Skywarn spotters are essential to the National Weather Service, law enforcement and fire officials, and emergency managers. Among other things, spotters:
 - provide valuable information on the severity of thunderstorms;
 - allow downstream communities to understand the severity of thunderstorms moving toward them; and,
 - allow the National Weather Service to gather information which helps verify the warnings it issues.
- Those who volunteer to be Skywarn spotters offer a valuable service. At a minimum, it is asked that Skywarn volunteers review procedures by attending a Skywarn spotter training session every two years.
- Spotter training is open to members of the general public, law enforcement, fire officials, and amateur radio operators, among others. We look forward to your participation in Skywarn!

2006-2007 L.C.A.R.A. MEMBERSHIP APPLICATION

PLEASE PRINT:

CALL SIGN: _____ NAME: _____

ADDRESS: _____

CITY ,STATE, AND ZIP: _____

PHONE : _____ LICENSE CLASS: _____

SKYWARN NO.: _____ RACES NO: _____

ARES MEMBER YES ___ NO ___ E-MAIL ADD.: _____

ARE YOU AN A.R.R.L. MEMBER: YES ___ NO ___

L.C.A.R.A. MEMBERSHIP IS \$12.00 PER YEAR, RENEWABLE EACH YEAR ON **OCTOBER. 1ST**. FAMILY MEMBERSHIP \$20.00. ASSOCIATE MEMBERSHIP \$4.00. IF YOU WISH AN AUTODIAL NUMBER FOR THE REPEATER THERE IS AN ADDITIONAL \$3.00 CHARGE. Financing available.

Lapeer County Amateur Radio Association

P.O. Box 12

Hadley, MI 48440-0012