

W8LAP

www.w8lap.com



LCARA Waveguide



May Published Monthly by The Lapeer County Amateur Radio Association 2004

Upcoming Swap & Shops

Saturday, May 1 —Cadillac Wexaukee ARC 42nd Annual Amateur Radio & Computer Swap, Cadillac Jr. HS, Info: Brian, KC8TXT 231.743.6860

Friday, Saturday, Sunday, May 14, 15, 16 — Dayton Hamvention

Sunday, May 30 —Amherstberg, ON Amherstburg R.C. 2nd Annual Swap. Recreation Center, corner Victoria & Richmond Streets. Free admission, tables \$5 va3trl@rac.ca talk-in 145.290- or 146.52 simplex.

Sunday, June 20 —Monroe Monroe Hamfest & Computer Show, County Fairgrounds, M-50 at Raisonville Rd. Tables, trunk sales. [Http://www.mcrca.org](http://www.mcrca.org) Info: 734.242.9487

*This month's Meeting is
Tuesday, May 11th—7:30 p.m.
At the Lapeer County Central
Dispatch Center (911) at 2332 W.
Genesee Street in the basement*

The Treas Sez

Bill Miller, KD8VP

I wish to say Hi to everyone reading this news letter. As treasurer I only need to state that the LCARA treasury has not had any unpredictable, or out of the ordinary hits this past month. Expenses are normal.

As a member speaking to all other members, I wish to remind everyone that the coming season is going to be very busy, and the need for membership participation will be heavy. First on the list will be the Memorial Day Operation Care, next will be ARRL Field Day (an event dear to my heart), July has another Operation Care, August is the month of the Swap and Shop, and September will be the final Operation Care. And these are just the scheduled events. As you can see times are going to be busy. Most of these events, I agree bring money into the coffers of the Club, but do you realize that they are providing a public service?

Operation Care is a service that we are privileged to provide to the traveling public that gives them an opportunity to rest for a while and perhaps partake of some refreshments. This does save lives! It is fun too.

The Swap and Shop gives us an opportunity to put on an

The Treas Sez (Continued on page 3)

The Prez Sez

Josh Long, N8CFS

The month of May signals the beginning of the Lapeer County Amateur Radio Association's public service season. Recall that one of the five purposes for the Amateur Radio Service, as defined in Part 97 of the FCC regulations, is to provide a public service: "recognition and enhancement of the value of the amateur service to the public as a voluntary noncommercial communication service, particularly with respect to providing emergency communications." If possible, please participate in as many of the various upcoming public service events as possible. Operation Care is coming up over the Memorial Day weekend.

In early June there is the Simulated Emergency Test up in Clifford. The SET is a **critical** event for county amateurs. This is our opportunity to participate in a disaster drill, coordinated by the county FEMA emergency coordinator Mary Stikeleather, alongside the various local public safety departments. Last year there was a very low turn-out for this event; as I recall, 6-7 hams participated in this event last year. The SET only lasts for a few hours on a Saturday morning. Please participate this year and help to show that the amateur radio service in Lapeer

The Prez Sez (Continued on page 3)

The VP Sez

Bill Hetchler, KC8SHI

In the words of one of my friends "times fun when you're having flies" or boy the months are rapidly passing by. Here it is May already and time for the season for the "Operation Care" activities again. I trust you all are going to our club web site and signing up for at least one 3-hour shift per holiday weekend.

Also we are having trouble getting different people to run our weekly nets. It isn't hard and is really a lot of fun. It would help if each club member would take a turn, as it is also practice for when we do have an emergency in our area and a net has to

The VP Sez (Continued on page 3)

Contents

The Prez, VP Treas Sez	P 1
Calendar	P 5
Club Page	P 2
DX & Contesting	P 6
For Sale	P 4
Lapeer County OEM	P 7
Minutes	P 3
News from ARRL	P 4
Radio Shack News	P 6
Scramble	P 5



**Lapeer County Amateur
Radio Association**

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

Officers

President, Josh Long, N8CFS.....810-724-6790
Vice-President, Bill Hetchler KC8SHI 810-667-1497
Secretary, Therese Long, KC8PEZ..810-724-6790
Treasurer, Bill Miller, KD8VP.....810-797-5329

Committees & Appointees.

Club Founder.....Hollis Hayes, W8ACD
Club Call Trustee W8LAP.....Jim Boyer, KD8YX
VE Coordinator.....Al Wilson, N8NPR
Swap & Shop Chairperson.....Bill Miller, KD8VP
Field Day Chairman.....Bill Miller, KD8VP
Meeting Refreshments.....Bill Miller, KD8VP
Two Meter Net Mgr.....Jim Boyer, KD8YX
Newsletter Editor.....Hank Kohl, K8DD
Club Historian.....Bill Hetchler, KC8SHI
Public Information Officer...Bill Hetchler, KC8SHI

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

Newsletter

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

"Sometimes I think war is God's way of teaching us
geography." - Paul Rodriguez
The same could be said for Ham Radio.

Show your club colors

The following items, all with the LCARA logo, are available
to members. Your name and callsign could be included at
no extra charge.

- Tee shirts.....\$12.00
- Sweat shirts, hooded.....\$30.00
- Sweat shirts, long sleeve without hood.....\$18.00
- Golf shirts, grey, yellow or white.....\$19.00
- Nylon jacket, windbreaker.....\$45.00
- Heavier poplin jacket, flannel lined, quilted.....\$83.00

For XXL add \$2.00 For XXXL add \$3.00

Add MI sales tax for all items.

Call Flo Haack, KC8CAB , or contact her at any club meeting
to place your order.

LCARA's Video Library

The club has a number of video tapes available for
use by members at no charge. If you would like to
borrow one or more of the tapes, contact the
president, at any club meeting.

Titles presently available:

- Getting Started in Ham Radio
- Getting Started in DXing
- Getting Started in Packet Radio
- Getting Started in Amateur Satellites
- Getting Started in Contesting

Tapes may be retained by the borrower for one
month and must be returned at the following
month's meeting.

Board of Directors Meeting

The Directors' monthly meetings are held on the
first Tuesday of each month at the BK Lounge at
7:30PM as needed (announced on the W8LAP
repeaters). **All club members are urged to
attend.**

Contributors to this newsletter:

Josh, N8CFS Bill, KC8SHI Therese, KC8PEZ
Bill, KD8VP Mary Stikeleather

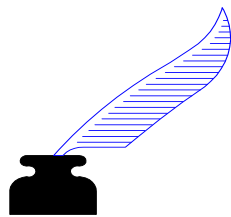
Your name and call should be here!

While in Imlay City, support your local Radio Shack store




LCARA Site Sponcer:
Hillcraft Electronics
1831 S. Cedar Street
Imlay City, MI 48444
Phone: 810-721-8030

**LCARA Monthly Meeting
Minutes
Lapeer County Central
Dispatch Center (911).**



The meeting was called to order at 7:35 PM by Josh N8CFS with the pledge of allegiance and introductions. There was a visitor, Tim KG8ES and a new member, Erwin Kwiotek N8WQZ.

Hospital/SK Reports: Denny from Dentronics is recovering from a stroke. The club will send a get well card.

Awards/Upgrades: none

President's Report: given by Josh N8CFS. The Constitution vote is over; only two ballots were submitted. All Constitution revisions were therefore accepted. Josh discussed BPL, which will affect many more organizations than just amateur radio.

VP/Historian/PIO's Report: presented by Bill KC8SHI. Bill asked for members to volunteer on May 1st at the Frankenmuth MS Society's Walk. Contact Bill for more info. The walk begins at 9AM. Bill is also getting quotes for a plaque for the family of Charlie Conley. He hopes to have it sent by the next meeting.

Secretary's Report: read by Therese KC8PEZ. Minutes accepted with two revisions.

Treasurer's Report: given by Bill KD8VP. Accepted as presented.

EC/Trustee's Report: given by Jim KD8YX. Jim thanked all those who participated in Skywarn training this year. Jim reported that he called the National Weather Service in regard to Skywarn numbers. The NWS asked him to continue with the numbers. The Abbottsville Training Simulator will be April 23-24 at the Lapeer County Ed Tech. There is still room for more at the workshop. Call Mary @ 667-0242 if interested. There is a 4/16 deadline. Jim asked members to use the repeater! As soon as the ground is dry, Jim will put up the new antenna.

Old Business:

Volunteers are needed for the Memorial Day Operation C.A.R.E. Sign-up by emailing kc8pez@yahoo.com. The MI QSO party is this weekend. See Waveguide for more information.

New Business:

There is a for sale section in the Waveguide. It is free to advertise items for sale. Ads are run for two months.

There was a discussion of the June 5th Simulated Emergency Test. This year's test will simulate a terrorist attack in Clifford. Please mark your calendars! Many ham operators will be needed. This is our club's main opportunity to show the county that we are a valuable resource.

Check out the new and improved club website at www.w8lap.com.

The 50/50 was won by Charlie Whipp KC8JBK.

The meeting was adjourned at 8:45PM by Josh N8CFS.

This space is where you could have submitted something. Tell us about:

- What DX did you work?
- What interesting QSO did you have recently?
- Did you try a different antenna? Did it work?
- Did another ham you know do something to qualify for "here's your sign"? (the stoopid sign—and we won't publish your call or name!)
- Rumors

Most any format is fine—Text file, Word file, hand written, typed or verbal over the phone. See page 2 for Newsletter contact information!

(Continued from page 1) The Prez Sez

County stands ready to assist in times of emergency.

On May 29th the club sponsors a VE session at the county 911 dispatch center. Testing, as usual, begins at 9 AM. Be sure to bring any appropriate CSCEs or previous licenses if you plan on upgrading, along with the test fee of \$12. This is a great opportunity to pass the element 1/CW test!

Of course, Dayton is coming up in just a few weeks. By the time this is published, I will have attended the Cadillac Hamfest and hopefully will have disbursed a large number of our swap flyers there. Have a great month de N8CFS.

(Continued from page 1) The Treas Sez

event that draws Hams from all around the community. They get together buy, sell, swap stories, and just generally have a good time. It's a fun time.

Field Day is another fun time, where Hams from all over the world compete in an event designed to test our emergency preparedness, by turning it into somewhat of a contest to see how many contacts we can make with other hams, and for those who have never participated it really is fun and exciting.

All that said I wish to remind everyone that it is your club and you make it what it is and will be.

PARTICIPATE

Thank You and 73 Bill KD8VP

(Continued from page 1) The VP Sez

be run. If you don't have a script to follow don't worry. All one has to do is identify the net being run and identify yourself by your call-sign as net control and give people a chance to check in. After one takes check-ins then go back to the top; of the list and let each one share what they have for the net. At the end just count the number of check-ins and multiply them by the number of minutes the net ran and give the information to KD8YX.

The 2 meter net is Monday at 9pm and the 440 net is Thursday at 9pm. I hope that more will get involved. Be sure and check elsewhere in the newsletter for future events that you can participate in.

73 Bill KC8SHI

Did you ever wonder what "they" do when "they" go out to a thing called Field Day the fourth weekend in June? Down there in Lapeer on the east end of town in that park? In trailers. In tents. Under dining tarps. It's some emergency preparedness, contest thing. They use radios on all bands and talk all over. Am I missing something by not going to it?

ARRL & SPAM

ARRL Great Lakes Division Director: James Weaver, K8JE, asks for your opinion about SPAM And the ARRL forwarding service that is available to ARRL members

1. Do you currently use <yourcall>@arrl.net as an E-mail address through the ARRL forwarding service? (Yes or No, please.)
2. Would you use the ARRL forwarding service if there was a fee of as much as \$5/year charged to pay for having a SPAM filter added? (Yes or No, please.)

Email your reply to Jim at: k8je@arrl.org

I have heard from several hams that SPAM should be the responsibility of the e-mail user. Generally speaking an e-mail user will get SPAM based on where they have been, who or where they have left their e-mail address. Usually it is because they did not realize what would happen when they tell every web site they visit their e-mail address when it asks for it. There are a couple of good things to try to eliminate or at least limit SPAM.

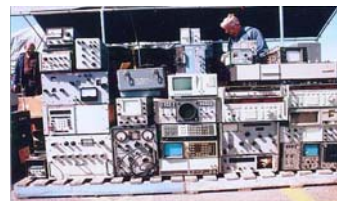
1. Get a SPAM eliminator program—you can get them for free or you can pay for them. But if you need one, it's worth the price you pay for a good one.
2. Sign up for a webmail address like hotmail.com, net-scape.net, etc. Use that address for websites that ask for your email address. (except banking, credit cards and the LCARA Waveguide!)
3. If everything fails (or you are very very frugal and don't want to pay for a SPAM program) change your email address. For example: Change from k8dd@lapeer.com to k8dd1@lapeer.com

We could go the same route with PopUp Filters and anti-virus programs User responsibility But enough of the computer stuff But before we go back to Ham Radio Where did the term SPAM originate? See Page 7

Be RadioActive— Participate!

If you have an e-mail address and would like the Waveguide via e-mail, let Bill KD8VP (kd8vp@juno.com) and Hank K8DD (k8dd@arrl.net) know and it will happen. This can help save postage and printing for the club....And the pictures will look better!

For



Sale

This is a great place to sell what you don't need, give away what you don't need or look for what you can't live with out. Ads will be run for 2 months.

=====

Wanted: Articles, stories, pictures, facts, fables, witticisms or what-have -you for the Waveguide. If you have something that you think will be of interest to the LCARA membership, please get it to the Editor. See Page 3 for contact information.

For Sale: all items are in good working condition. Talk to me on the -62 repeater, or see me at WMPC (no phone calls, please)

Set of ham-sticks: 75, 40, 20,15, 10.....\$90
MFJ DSP audio filter.....\$110
MFJ pocket CW reader.....\$30
LDG AT-11 automatic antenna tuner.....\$110
Radio Shack frequency counter.....\$35
Radio Shack DSP audio filter.....\$30
Al Smiley K8NOV

For Sale: Garmin GPS 45 GPS receiver. Operational, but could be cleaned. Includes a copy of the manual. \$45 or trade for Icom IC-02AT or similar HT

For Sale: MFJ-1278B multi-mode TNC. Includes manual, power adapter, and various cables. \$50 or trade for Icom IC-02AT or similar HT
Contact Josh, N8CFS 810-724-6790

For almost Free: Several sections of aluminum tower that were cut apart—probably 50 ft total.

For almost Free: Big 8' C-band satellite dish, LNA thing, receiver, direction motors, spare board for receiver.

For almost Free: 1/2 inch CATV aluminum hard line, no jacket—couple hundred feet

For almost Free: 7/8 inch CATV aluminum hard line, no jacket—probably a couple hundred feet.

Looking to get a case of Pepsi for each!

Contact Hank, K8DD 810-721-0708

For Sale: Cushcraft X7 Big Thunder tri-band beam with X-740 40 meter add on used but like new \$500 obo.

Two Cushcraft 13B2-13 element two meter beams with PD-2 Power Divider stacker kit \$250 obo.

Cushcraft A430-11S 11 element 440 MHz uhf beam like new \$50

TH-6-DXX tri-band beam needs tender loving care, but is salvageable, \$30 obo.

Four sections 10 foot long , unknown brand tower with rotor plate and bushing plate very good condition \$50 obo.

Seven sections 8 foot long, Heights aluminum amateur radio tower, has rotor and bushing plates, bottom section starts at 16 inches \$200 obo.

Contact Bill Miller kd8vp at kd8vp@juno.com or 810.797.5329

Free coffee for anyone who finds the other mistake in this issue of the Waveguide.

MMO I D A R Y R N E H C O L L I N S D U
W O X U M N A D D T U H V G W I R V K K F
S N R W T S M O M K I C F Y N K O X C V E
R Z T R V J E O M U M X A L J K G C A Z W
E I E G O B R W F J X Q Y P V A X M H L O
T U N T L W I N J I U A J P T E Z E S A R
F S T E I R T E V P E M A U Y I C T O N L
A S E A Y I R K L S J L E S V Q T T I O D
R W C L S P O Q U M I P U P M J O E D I R
C B M W Q J N J Z N K C T M J W M Y A T A
I U D X B N A Q C B V N P A L O Q A R A D
L G H O G S L O Q H Z Y Q G H C H F I N I
L T G S J A P R W B H E S S P E M A T J O
A M F F Y N H R A B Y O Y I M M L L F N L
H W B A Q M A D N A L R U M M A H L S P A
E T N A R W O B H Z I Y O F P A T C O M B
K B S O C C Q C E M U L T I E L M A C R S
W E X A S V E R I L N R D K R O C I D L E
U L I E M B P L S T Q J L U T W T T U M G
Y N R V I R Z H E Q T I K H T A E H M O W
U Y N I A G Y H S C D Q N O S N H O J F E

The World Scramble

Radio Manufacturers
past and present

ALINCO	HYGAIN
ALPHA	ICOM
AMECO	KENWOOD
AMERITRON	LAFAYETTE
AMPSUPPLY	MFJ
COLLINS	MORROW
EFJOHNSON	MULTIELMAC
ELDICO	NATIONAL
ELECRAFT	PATCOM
HALLICRAFTERS	RADIOSHACK
HAMMURLAND	TENTEC
HEATHKIT	WORLDRADIOLABS
HENRYRADIO	YAESU

May 2004

If your e-mail address changes please let KD8VP and K8DD know so you get club email!

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3 ARES Net 146.62 9 PM	4	5	6 ARES Net 442.750 9PM	7	8
9	10 ARES Net 146.62 9 PM	11 LCARA Meeting	12	13 ARES Net 442.750 9PM	14 Dayton Hamvention	15 Dayton Hamvention
16 Dayton Hamvention	17 ARES Net 146.62 9 PM	18	19	20 ARES Net 442.750 9PM	21	22
23	24 ARES Net 146.62 9 PM	25	26	27 ARES Net 442.750 9PM	28	29
30	31 ARES Net 146.62 9 PM					



HillCraft Electronics 888-520-2002
Just North of I-69 on Van Dyke (M-53)
In the Farmer Jack Plaza

SPECIAL Through Jun 31, 2004

- On any small parts (the 270 series Radio Shack Part numbers **20% discount!** with your LCARA membership card ~or~ proof of Amateur Radio License.

Need a new HT (or a spare HT)?

Special:

HTX-400 70cm 200mW (int. batt.) 1W (ext. batt.) HT
\$129.00 (Limited Quantities)

We also Recycle rechargeable batteries here at the store - any kind up to two pounds of sealed cell. Let's keep the ground water safe for future generations.

We now can order Diamond Antennas and accessories.

Check with us for your wireless networking needs and High Speed internet!

How do you know whether to watch TV or work DX? And if it is Work DX—which band? Is it going to be good on 20M, 10M or do you want to start listening on 6m and above? This will explain it!



WWV Broadcasts explained

The Geophysical Alert Broadcasts consist of three primary sections to describe the Solar-terrestrial environment: The most current information, then a summary of activity for the past 24 hours, and finally a forecast for the next 24 hours. The actual wording of each section of the broadcast is explained below with a brief description of what is being reported. Similar wording is also used in other broadcasts, so the WWV example is relevant to other reports too.

Current Information

'Solar-terrestrial indices for (UTC Date) follow: Solar flux (number) and (estimated) Boulder A index (number). Repeat, solar flux (number) and (estimated) Boulder A index (number). The Boulder K index at (UTC time) on (UTC Date) was (number) repeat (number).'

Since the final A index is not available until 0000 UTC, the word 'estimated' is used for the 1800 and 2100 UTC announcements.

Solar Flux

Solar Flux is a measurement of the intensity of solar radio emissions at a frequency of 2800 MHz made using a radio telescope located in Ottawa, Canada. Known

also as the 10.7 cm flux (the wavelength of the radio signals at 2800 MHz), this solar radio emission has been shown to be proportional to sunspot activity. In addition, the level of the sun's ultraviolet and X-ray emissions is primarily responsible for causing ionization in the earth's upper atmosphere. It is these emissions which produce the ionized 'layers' involved in propagating shortwave radio signals over long distances.

The solar flux number reported in the broadcast is in solar flux units (s. f. u.) and is recorded daily at Ottawa at 1700 UTC to be forwarded to the SESC. Solar flux readings range from a theoretical minimum of approximately 67 to actually-observed numbers greater than 300. Low solar flux numbers dominate during the lower portions of the 11-year sunspot cycle, rising as the cycle proceeds with the average solar flux a fairly reliable indicator of the cycle's long-term behavior. 1 s. f. u. = 10-22Watts/meter² Hz = 104 jansky.

A Index

The A Index is an averaged quantitative measure of geomagnetic activity derived from a series of physical measurements. Magnetometers measure differences between the current orientation of the magnetosphere and compare it to what it would be under 'quiet' geomagnetic conditions.

But there is more to understanding the meaning of the Boulder A index reported in the Geophysical Alert Broadcasts. The Boulder A index in the announcement is the 24 hour A index derived from the eight 3-hour K indices recorded at Boulder. The first estimate of the Boulder A index is at 1800 UTC. This estimate is made using the six observed Boulder K indices available at that time (0000 to 1800 UTC) and the SESC forecaster's best prediction for the remaining two K indices. To make those predictions, SESC forecasters examine present trends and other geomagnetic indicators. At 2100 UTC, the next observed Boulder K index is measured and the estimated A index is reevaluated and updated if necessary. At 0000 UTC, the eighth and last Boulder K index is measured and the actual Boulder A index is produced. For the 0000 UTC announcement and all subsequent announcements the word 'estimated' is dropped and the actual Boulder A index is used.

The underlying concept of the A index is to provide a longer-term picture of geomagnetic activity using measurements **averaged** either over some time frame or from a range of stations over the globe (or both). Numbers presented as A indices are the result of a several-step process: first, a magnetometer reading is taken to produce a K index for that station (see *K IN-DEX below*); the K index is adjusted for the station's geographical location to produce an **a index** (no typographical error here, it is a small case 'a') for that 3-hour period; and finally a collection of a indices is averaged to produce an overall A index for the timeframe or region of interest.

A and **a** indices range in value from 0 to 400 and are derived from K-indices based on the table of equivalents shown in the APPENDIX.

(Continued on page 7)

(Continued from page 6)

K Index

The K index is the result of a 3-hourly magnetometer measurement comparing the current geomagnetic field orientation and intensity to what it would have been under geomagnetically 'quiet' conditions. K index measurements are made at sites throughout the globe and each is carefully adjusted for the geomagnetic characteristics of its locality. The scale used is quasi logarithmic, increasing as the geomagnetic field becomes more disturbed. K indices range in value from 0 to 9.

In the Geophysical Alert Broadcasts, the K index used is usually derived from magnetometer measurements made at the Table Mountain Observatory located just north of Boulder, Colorado. Every 3 hours new K indices are determined and the broadcasts are updated.

Conditions for the Past 24 hours

'Solar-terrestrial conditions for the last 24 hours follow:

Solar activity was (Very low, Low, Moderate, High, or Very high), the geomagnetic field was (Quiet, Unsettled, Active, Minor storm, Major storm, Severe storm).'

Where did the term SPAM originate? From [Oreilly's website](#): "Obviously, in the context of the Internet, spam doesn't refer to the tasty canned meat produced by [Hormel Foods](#). How did it come to mean bulk messages? The genesis of this meaning can be found in a Monty Python's Flying Circus sketch in which a customer in a restaurant asks what's on the menu. The waitress tells him, "Well, there's egg and bacon; egg, sausage, and bacon; egg and spam; egg, bacon, and spam; egg, bacon, sausage, spam; spam, bacon, sausage, and spam; spam, egg, spam, spam, bacon, and spam; spam, sausage, spam, spam, spam, bacon, spam, tomato, and spam; spam, spam, spam, egg, and spam" (and so on). Then a chorus of Vikings begins chanting "Spam, spam, spam, spam; lovely spam, wonderful spam." The first Internet use of the word originated in Internet chat rooms and on multiplayer Internet adventure games called MUDs (multiuser dungeons). According to Jennifer Smith, author of the Frequently Asked Questions (FAQ) list for the rec.games.mud newsgroup hierarchy, a few delinquents would "say" the same message again and again in a chat room, filling the screen in the process, and other people would call these messages "spam." It was just like the song in the Monty Python skit--senseless repetition. From flooding someone's screen with repeated words to flooding someone's mailbox or a newsgroup with repeated messages seemed to be a natural

FULL SCALE MOCK DISASTER EXERCISE IS SET FOR SATURDAY, JUNE 5, 2004 DOWNTOWN CLIFFORD

Listen to your two meter radio

Please see the attached Work Plan.

If anyone from LCARA would like to attend any of these, we would love to have you.

With a New Training Grant Awarded (\$90,900.00) to Lapeer County, you will see several trainings being offered, over the next year, to All our emergency response disciplines:

1. Emergency Response to Terrorism
2. Incident Response to Terrorist Bombings
3. Managing Civil Actions in Threat Incidents
4. WMD Radiological/Nuclear Awareness
5. WMD Crime Scene Management for Emergency Responders
6. CBRNE Defensive Operations
7. Unified Incident Command System

Watch for more details later this summer.

Mirror, Mirror on the Wall

Before you leave for the next Hamfest or Swap & Shop Take a look at this site and then take a look in the mirror!

<http://www.hamsexy.com/>

Please!

The Way It Was

In the days of old,
When ops were bold,
And sidebands not invented,
The word would pass
By pounding brass
And all were well contented.

Anon.

2004-2005 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.

Lapeer County Amateur

Radio Association

P.O. Box 12

Hadley, MI 48440-0012