



Upcoming Swap & Shops

Sep 6 — Grayling, MI wa8sco@arrl.net 989.344.8607
Sep 6, 7 — Findlay, OH Great Lakes Division Convention
 www.findlayradioclub.org kanga@bright.net 419.423.4604
Sep 13 —GrandRapids ARA www.w8dc.org/swap.htm
 hamfest@w8dc.org 616.458.9029
Sep 14 — Adrian, MI Lenawee County Fairgrounds,
 Adrian MI www.w8tqe.com k8jvw@arrl.net 517.263.5407
Oct 5— South Bend Regional Hamfest Elkhart County
 Fairgrounds Goshen IN
Oct 12— 21st Annual Kalamazoo Hamfest Kalamazoo
 County Fairgrounds Lake St. off Bus. 94, Kalamazoo
Oct 26 — USECA Hamfest, Warren, MI http://
 www.qsl.net/

*This month's Meeting is
 Tuesday, September 9th—7:30 p.m.
 At the Lapeer County Central Dispatch
 Center (911) at 2332 W. Genesee Street*

The President's Ramblings

Josh Long, N8CFS

August was a big month for the Lapeer County Amateur Radio Association. Two of our biggest events of the year went very well: the swap and Operation Care.

Thanks for all who came out and helped to make the 2003 LCARA Swap a success! I am sure that Bill KD8VP will give a breakdown of the various statistics at the next meeting. There seemed to be an excellent selection of radio equipment for sale (everything from old Collins equipment to military gear to a Kenwood TS-2000). Particular thanks should be given to the wife of our former president, Charlie Conley. She donated most of Charlie's gear to the club. These items were sold at the swap and the proceeds came to over \$800. And, as always, Flo, Ed, and family did a first-rate job in the kitchen. Thanks to all for the great job!

As I write this column, Operation Care is wrapping up. I checked the sign-up sheet when I was out at the rest area yesterday and it appeared that about 20 different individuals donated some of their time to come out and participate. A big thank you to Ed W8NCJ for coordinating the Labor Day Operation Care! Once again Frank K8MFK

President's Ramblings (Continued on page 3)

FCC INVITES COMMENTS ON SIX MORSE CODE-RELATED PETITIONS

The FCC has invited public comments on six separate Morse code-related petitions for rule making, some of which would altogether eliminate Element 1, the 5 WPM Morse test, from the Amateur Service rules (Part 97).

World Radiocommunication Conference 2003 (WRC-03) made optional the requirement to prove the ability to send and receive Morse signals to operate below 30 MHz.

A petition from Peter M. Beauregard, K11I, designated RM-10781, would give all Technician licensees current Novice/Tech Plus CW privileges on 80, 40, 15 and 10 meters and limited phone and image privileges on 80, 40 and 10 meters. Beauregard said the CW privileges would "encourage Technician class licensees to upgrade to General" by giving them a "practice area." He has proposed new Tech phone/image privileges on 3850-3900 kHz and

7225-7300 kHz. His petition would not eliminate Element 1, however.

Pete V. Coppola, KG4QDZ, and family--Tina Coppola, KG4YUM, and Pete A. Coppola, KG4QDY--have asked the FCC to eliminate Element 1 from the rules. The Coppolas' petition, designated RM-10782, would grant Tech Plus HF privileges to current Technician licensees. It also would retain the current CW-only subbands. The Coppolas asked the FCC to make the change effective immediately on a provisional basis.

Kiernan K. Holliday, WA6BJH, has asked the FCC simply to "remove all requirements for knowledge of Morse code" from the Amateur Service rules. Holliday said there is less reason to require Morse code in the Amateur Service today. In his petition, designated RM-10783, Holliday also said the code requirement limits the ability of handicapped individuals to get ham tickets. "The Commission's policy should be to encourage the use of Amateur Radio," he said.

Dale Reich, K8AD, petitioned the FCC to delete Element 1 for General class applicants but keep it in place for Extra class

Morse Code (Continued on page 7)

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- P 6 For Sale**
- P 7 Morse Code news**
- P 8 From Lapeer Office of Emerg. Mgmt**



**Lapeer County Amateur
Radio Association**
P.O. Box 12
Hadley, MI 48440-0012

Officers

President, xxxxxxxxxx.....### ###
Vice-President, Josh Long, N8CFS...810-724-6790
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 (810)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.

**DX is! QRP is! CW is!
Contesting is! Ragchewing is!
Don't just sit there Do something!**

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.....\$15.00
Sweat shirts, hooded.....\$30.00
Sweat shirts, long sleeve without hood.....\$18.00
Golf shirts, grey, yellow or white.....\$19.00
Nylon jacket, windbreaker.....\$35.00
Heavier poplin jacket, flannel lined, quilted.....\$85.00

Sizes available to XXL at the prices listed above.

For each "X" above XL, add \$2.00.

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 ARRL Therese KC8PEZ
Mary Stikeleather

Your name and call should be here!

Contents of this newsletter are the property of Lapeer
County Amateur Radio Association and any inference to
any living persons are purely coincidental Maybe.

While in Imlay City, support your local Radio Shack store



 **RadioShack**
AUTHORIZED RADIO SHACK DEALER

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

**LCARA Monthly Meeting
August 12, 2003
Lapeer County Central Dispatch
Center (911).**

The meeting was opened at 7:30 PM by Josh N8CFS, interim president, with introductions. Dave NR8S was a visitor. Bill KC8SHI was welcomed back after his surgery. Gordon Pollard N8GTS passed away recently. There were no awards/upgrades. Rich KC8HFA got a new call sign: N8DEW.

President/VP's Report: given by Josh N8CFS. Josh officially announced that Ken AB8PM had resigned. Josh is acting president until elections are held in September.

Secretary's Report: given by Therese KC8PEZ. There were no official minutes from the last meeting, because there was no formal business meeting in July due to low attendance.

Treasurer's Report: given by Bill KD8VP. Motion passed to accept as read.

EC/Trustee's Report: given by Jim KD8YX. The Michigan State Police will be offering free emergency communications courses available to amateurs. The repeater is still pausing when it identifies. Information on how to run SkyWarn/RACES nets can be found in the radio room at the EOC.

PIO Report: by Bill KC8SHI. Bill has the Swap advertised on WJRT/WMPC/WNEM Ch.5, The Flint Journal, The County Press and will try to get the Swap in the LA View.

Old Business:

Bill KD8VP reported that LCARA's Field Day logs were accepted by the ARRL.

New Business:

Nominations of officers were held. Nominations were as follows: President – Joshua Long N8CFS; Vice-President – Bill Hetchler KC8SHI; Secretary – Therese Long KC8PEZ; Treasurer – Bill Miller KD8VP; Repeater Trustee – Jim Boyer KD8YX. All nominations were seconded and were accepted by the nominees.

Josh requested that someone take charge of the Labor Day Operation C.A.R.E. Ed W8NCJ volunteered for this position, and Therese 55 KC8PEZ volunteered to be his assistant. Dick KC8VHA volunteered to pull the trailer.

Swap: There was a Swap meeting two weeks ago.

Minutes Continued on page 4)

**Read this
If you read nothing else
Read this**

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
- Opposing views—always looking for opposing views.

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

Be RadioActive— Participate!

Quote for Page 2!

"When I die, I want to die like my grandfather who died peacefully in his sleep. Not screaming like all the passengers in his car." - Author Unknown

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

(Continued from page 1) President's Rambling

of Port Huron kept us apprised of the traffic situation on the Blue Water Bridges. Thus concludes the last Operation Care project of the 2003 season.

Onto the month of September. The repeater workday is coming up. Officer elections will be held at the next meeting to be held on September 9th. Check the minutes of the last meeting found elsewhere in the newsletter for the list of those nominated for the next fiscal year. There has been some discussion about the repeater controller and how it seems to identify itself too frequently, among other things. Our repeater trustee, Jim KD8YX is looking into obtaining a new controller and having our old one refurbished.

That is all for this month. I hope to see you at the meeting on the 9th and at the repeater workday if you can make it!

Having trouble opening the Waveguide on-line?

Here is some advice to try if you are having trouble reading the Waveguide via email...For those who have IE and have trouble opening the Newsletter, check to see if you have the identified box "unchecked".

- Open Outlook Express
- Click Tools, Options
- Click Security Tab
- Remove check mark from box

Do not allow attachments to be saved or opened that could be potentially a virus

- Click Apply, OK

If anyone is concerned about doing this, they can apply this ONLY for getting the Waveguide, then return to the original setting.

Also go to www.adobe.com and download the latest Adobe Reader, which is available at no cost! The Waveguide is made with Adobe 5.0.

The Waveguide is also archived (that means back issues are stored) at <http://www.qsl.net/k8dd/waveguide>

(Continued from page 3) *Minutes*

Charlie KC8JBK is going to be in charge of Security; KD8VP is responsible for ticket sales; Flo KC8CAB is in charge of the kitchen/refreshment stand; Hank K8DD will be coordinating the VE session; and KC8LVL ordered pop for the stand. As of now, we have 34 reservations for the swap.

Volunteers are needed Sept. 6 to help at our Repeater Maintenance Day. Volunteers are also needed for the Lapeer Regional Hospital Run/Walk For Your Life on Sept. 28.

There will be a Swap Critique Meeting at Crampton Park on August 26, 7:30 PM.

The 50/50 was won by John KC8VOW.

The meeting was closed by Josh N8CFS at 8:51 PM.

Submitted by Therese Long, KC8PEZ, secretary

Things to think about

How come we choose from just two people for President and fifty for Miss America?

Did you ever realize that the Roman Numerals for 40 are XL?

There's always a lot to be thankful for if you take time to look for it. For example I am sitting here thinking how nice it is that wrinkles don't hurt.

September 2003

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1 ARES Net 146.62 9PM	2	3	4 ARES Net 442.750 9PM	5	6 AA DX SSB NA CW Sprint
7 Grandparent Day	8 ARES Net 146.62 9PM	9 LCARA Meeting	10 Full Moon	11 ARES Net 442.750 9PM	12	13 VHF QSO NA SSB Sprint
14	15 ARES Net 146.62 9PM	16	17 W1AW Qualifying Run	18 ARES Net 442.750 9PM	19	20 UHF QSO
21	22 ARES Net 146.62 9PM	23	24	25 ARES Net 442.750 9PM	26	27 CQ WW RTTY
28	29 ARES Net 146.62 9PM	30				

DX and Contest News / Press Releases



Data entry is finished for all paper logs for Field Day so that the staff can start dealing with the over 1000 Field Day emails, including duplicate submissions. Gene W3ZZ visited HQ to discuss the VHF contest write-ups and spent the day looking at additional options that might be included in the write-ups, working out ways to coordinate with additional authors, and discussing ways to get some of the write-ups on to a more regional basis. (Thanks, Dan N1ND)

Get ready for printing those stacks of contest QSLs! BV QSL software from DF3CB is free and available at <http://www.df3cb.com/bv/index.html>. It can print right on the cards. If you have a printer with a stack feed option, such as the Epson Stylus 860, you can load a heap of cards and print away. (Thanks, Matt K7BG and Jim AD1C) For those of us near the less seismically stable parts of the globe, a neat article on predicting earthquakes has been published at http://science.nasa.gov/headlines/y2003/11aug_earthquakes.htm. The graphics are outstanding. Worth a read. (Thanks, Ed N7NVP)

The free-ware XLZIZL spreadsheet from Dan AC6LA handles every kind of transmission line, transformers, lumped components, and calculates all you might want to know, as well as plotting Smith Charts. This is quite a spreadsheet! It will read files of frequency/resistance/reactance, such as those generated by antenna modeling programs. This allows you to model your entire antenna/transmission line/tuner system. It's available at <http://www.qsl.net/ac6la/xlzizl.html>. (Thanks, Jim W6RMK) Another excellent package of free-ware is the antenna and transmission line analysis programs by Reg Edwards G4FGQ. These run under DOS and are available for downloading at <http://www.btinternet.com/~g4fgq.regp/>. The latest version of another package of tools, HAMCALC, can now be found on the CQ magazine Web site, <http://www.cq-amateur-radio.com>. (Thanks, Ron W2IOL)

At last! A full and complete program to determine True North! Ron W2IOL (w2iol@arrl.net) also contributes a freeware DOS program that calculates antenna bearing (true & magnetic), distance (using the WGS-84 ellipsoid as default), latitude & longitude & grid. Pick this one up at <http://home.earthlink.net/~rcmcc>. No word on what version of plastic owl is required.

From ARRL Contest Rate Sheet for August 27, 2003



HillCraft Electronics 888-520-2002
Just North of I-69 on Van Dyke (M-53)

**Compact Dual-Band 144/440MHz
Transceiver with Built-In NOAA Weather Alert and
8-Point Compass**



\$269.99

HTX-200
2M / 70CM 200
mW handheld
transceiver.
Closeout
\$99.00

HTX-200

Features:

- Dual-frequency display dual band, 2M/70cm, 5 watt amateur radio HT
- Broadband receiver 108-174 and 420-512MHz with 100-channel memory
- Radio includes electronic compass and is compatible with Weather Receive and SAME Weather Alert
- CTCSS encode/decode
- Illuminated 16-key DTFM
- Multiple scan modes
- Power-out 5W on 2M, 4.5W on 70cm with external 13.8VDC or 4.2W on 2M, 3.2W on 70cm with 1200mAh lithium-ion battery pack (included) H/M/L power settings, battery voltage meter, 7
- Includes empty battery shell; accepts 4 "AA" batteries

This is your spot!

News reports, upgrades, achievements, rumors, humorous events, questions, sound off, what DX have you worked?, or any reports. Send anything you have to the editor (see page 2) in any form—handwritten, typed, ASCII file, email, disk, chipped in stone, or by packet radio (144.970 WA8DX—do a SEND K8DD).

Join the ARRL!

ARRL is the national membership association for Amateur Radio operators.

The seed for Amateur Radio was planted in the 1890s, when Guglielmo Marconi began his experiments in wireless telegraphy. Soon he was joined by dozens, then hundreds, of others who were enthusiastic about sending and receiving messages through the air--some with a commercial interest, but others solely out of a love for this new communications medium. The United States government began licensing Amateur Radio operators in 1912.

For more information contact the ARRL at: 225 Main Street,
Newington CT 06111-1494
Voice: 860-594-0200
E-mail: hq@arrl.org or Internet: <http://www.arrl.org/>

The eternal question

"Wow, why is this PC running so slow?"

Is your machine running slowly? Maybe it runs OK sometimes and other times it's whacked out. It could be that some software inserted itself into your Windows XP computer's startup routine. Remember that not all startup programs show up in the Startup folder in the Start menu. Some run from the Registry. David Soloman created a great tool called AutoRuns that tells you everything that starts automatically. Armed with this info, you can take the machete to some of those errant startup programs!

<http://www.winxpnews.com/rd/rd.cfm?id=030812TI-Autorun>

From *WinXP News™ Tue Aug 12, 2003, Vol 3-32, Issue 88*

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

Support

Amateur Radio

Join the Lapeer County Amateur Radio Association and the American Radio Relay League. Have your voice heard both locally and nationally.



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 — Code tapes—Pass your code test and get a code license before CW are no longer required. Cheap! 555-1212

For Sale —Dual band 144/430 mobile antenna (ICOM AH-32) with Larson Magnetic Mount type PO-MM with feedline. Drake 100W low pass filter Archer SWR Bridge Archer Ni-CAD battery charger Heathkit mobile tuning meter
Contact George, WC8X, 810-987-4261 for details and prices.

For Sale —12V Power Supply Kit (Proceeds to MI-QRP Club) need to supply meter and case \$20.00
Contact Stan, AC8W, 810-364-6674

The Old Radio Scramble

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

- | | |
|--------------------|----------------|
| AmpSupply | |
| AtwaterKent | |
| CentralElectronics | |
| Collins | HenryRadio |
| Dentron | Mosley |
| EFJohnson | MultiElmac |
| GemQuad | National |
| Gonset | Philco |
| Gotham | WalterAshe |
| Hallicrafters | WorldRadioLabs |
| Hammurland | |
| HarveyWells | |
| Heathkit | |

Page 6 Quote
 "If life was fair, Elvis would be alive and all the impersonators would be dead." - Johnny Carson

Morse Code Requirement

One ham's view

It's heating up on the air. It's heating up on the internet reflectors. It has a lot of hams heated up! It even heated up a soldering gun, once the wires were tightly twisted. What will the lack of a Morse Code requirement for HF operation do to Amateur Radio as we know it? Here is a visual editorial that we received via e-mail this week.



Alfred has been heard preparing for HF operation on several repeaters. In preparation for the big DX antenna array he is putting up Alfred has just ordered coaxial cable from the new Cable and Wire division of **Godzilla Manufacturing** in Tongzanoiexdale, MI over in mid-western Michigan that claims to have +3DB per hundred feet attenuation up to 147.39 MHz. He is a true believer.

Will our friend Alfred become the backbone of the SSB bands? The Waveguide would like to hear your viewpoints on this subject. Send your comments, writings, ramblings, flames, opinions, to the Waveguide editor The ones that do not contain words heard on 75 meters between 3850 and 3900 KHz will appear in the October Waveguide (and the County Press's *Sound Off* if you include your name, address, phone number and three pieces of picture ID).

It doesn't matter which side you are on If you don't reply to the FCC, the ARRL (the Division Director and the Vice director) to let them know your feelings on the subject, Alfred (above, in the picture) may be getting on some kind of meter band on SSB with no code requirement. But if he doesn't reply to the FCC and / or the ARRLhe may be right back on 30MHz and above! Comments?

(Continued from page 1) Morse Code

applicants. Under Reich's scheme, "no-code" Techs wanting HF privileges would have to upgrade to General first. Reich's petition is designated RM-10784.

Eric Ward, NOHHS, seeks immediate elimination of "proficiency in telegraphy using Morse code." The "immediate removal of the telegraphy requirement from Amateur Radio licensing is appropriate and clearly in the public interest," Ward contended in his petition, designated RM-10785.

In a detailed, nine-page petition, the National Conference of Volunteer Examiner Coordinators (NCVEC) is calling on the FCC to delete Element 1 and give "Tech Plus" privileges to current Technician licensees. The NCVEC also asked the FCC to "take expedited action" to allow volunteer examiner coordinators (VECs) to discontinue administering Element 1 "as soon as possible."

"The Amateur Service community suffers from the loss to its ranks of a large number of potentially excellent operators who are turned away because of the CW requirement," the NCVEC petition said.

The organization, the umbrella group for the 14 VECs in the US, said there's "no longer any reasonable justification for requiring an applicant to demonstrate this antiquated skill," and that most applicants never use Morse after they pass the test. The NCVEC petition is designated RM-10787.

The ARRL-VEC abstained from voting on the NCVEC's petition question when it came up during the NCVEC's July 25 meeting in Pennsylvania. At its own July meeting in Connecticut, the ARRL Board of Directors affirmed its interest in reviewing members' input on the Morse issue as well as on other possible revisions to Part 97 arising from WRC-03. The Board's current position is to retain the Morse requirement for HF access.

Two more recently filed petitions--one from No Code International and another from two amateur licensees--are expected to be put on public notice in the near future.

Interested parties may file comments on any or all of these petitions using the FCC's Electronic Comment Filing System (ECFS) <<http://www.fcc.gov/cgb/ecfs/>>, which also permits users to view the petitions and all comments on file. There is a 30-day comment window.

To file a comment, click on "Submit a Filing" under "ECFS Main Links." In the "Proceeding" field, type the full RM number, including the hyphen, and complete the required fields. "RM" must be in capital letters, and you must include the hyphen between "RM" and the five-digit number. You may type your remarks into a form or attach a file. ECFS also accepts comments in active proceedings via e-mail, per instructions on the ECFS page.

While a Morse code exam element remains on the books in the US, Canada and elsewhere, a handful of countries--including Switzerland, Belgium, the UK, Germany, Norway and the Netherlands--already have moved to drop their Morse requirements. Austria and New Zealand are expected to do so soon.

From *The ARRL Letter*, Vol 22, No 34

TURN AROUND DON'T DROWN™

Each year, more deaths occur due to flooding than from any other thunderstorm related hazard. Why? The main reason is people underestimate the force and power of water. Many of the deaths occur in automobiles as they are swept downstream. Of these drownings, many are preventable, but too many people continue to drive around the barriers that warn you the road is flooded.

Whether you are driving or walking, if you come to a flooded road, **Turn Around Don't Drown™** You will not know the depth of the water nor will you know the condition of the road under the water.



Follow these safety rules:

- Monitor the NOAA Weather Radio, or your favorite news source for vital weather related information.
- If flooding occurs, get to higher ground. Get out of areas subject to flooding. This includes dips, low spots, canyons, washes etc.
- Avoid areas already flooded, especially if the water is flowing fast. Do not attempt to cross flowing streams.

Turn Around Don't Drown™

- Road beds may be washed out under flood waters. NEVER drive through flooded roadways. **Turn Around Don't Drown™** If your vehicle is suddenly caught in rising water, leave it immediately and seek higherground.
 - Do not camp or park your vehicle along streams and washes, particularly during threatening conditions.
- Be especially cautious at night when it is harder to recognize flood dangers.**

Flash Floods

Except for heat related fatalities, more deaths occur from flooding than any other hazard. Why? Most people fail to realize the power of water. For example, six inches of fast-moving flood water can knock you off your feet.

While the number of fatalities can vary dramatically with weather conditions from year to year, the national 30-year average for flood deaths is 127. That compares with a 30-year average of 73 deaths for lightning, 65 for tornadoes and 16 for hurricanes. National Weather Service data also shows:

- Nearly half of all flash flood fatalities are vehicle-related,
- The majority of victims are males, and
- Flood deaths affect all age groups.

Most flash floods are caused by slow moving thunderstorms, thunderstorms that move repeatedly over the same area or heavy rains from tropical storms and hurricanes. These floods can develop within minutes or hours depending on the intensity and duration of the rain, the topography, soil conditions and ground cover.

Flash floods can roll boulders, tear out trees, destroy buildings and bridges, and scour out new channels. Rapidly rising water can reach heights of 30 feet or more. Furthermore, flash flood-producing rains can also trigger catastrophic mud slides.

Occasionally, floating debris or ice can accumulate at a natural or man-made obstruction and restrict the flow of water. Water held back by the ice jam or debris dam can cause flooding upstream. Subsequent flash flooding can occur downstream if the obstruction should suddenly release. Safety information can be obtained at the [Low Water Crossing Page](http://www.nws.noaa.gov/oh/tt2/xwater/). (<http://www.nws.noaa.gov/oh/tt2/xwater/>)

Mary Stikeleather, PEM Lapeer County Office of Emergency Management

2002-2003 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