



Central Michigan Amateur Radio Club
 Lansing Civil Defense Repeater Association
 P O BOX 27321
 LANSING MI 48909

The Scope

April 2003



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Homeland Security

Do you remember the look on President George W. Bush's face when his Chief of Staff, Andrew Card alerted him with the news that a second jumbo jet had crashed into the World Trade Center, and that the "Homeland" was under attack?

His countenance in that moment exemplified the heart & soul of America. Profound sadness, fear, anger and perhaps above all a sense of violation overwhelmed the fabric of our Nation.

In a moment, "The Good Old Days", were gone. The unimaginable had become a reality, and the "Homeland", our extended family of United States citizens had been violated. Our innocence & sense of

security had been viciously destroyed.

However, in the midst of unequaled grief, ruin and rage the "Homeland" not only survived, but thrived.

Even though the seeds of many family members had been sown in violence and hatred, we began reaping a bountiful crop, as our National pride blossomed.

Months after 9/11, our sense of honor & brotherhood reached a peak when our boys began to invade and destroy the heart of al Qaida in Afghanistan. U.S. Flags were proudly displayed by everyone in our family.

Although our Nation is vast in space and number, we experienced a season of

togetherness, like never before. And we began to study in earnest the security of our "Homeland".

New laws, regulations, agency's, divisions, departments and procedures came to fruition seemingly overnight. Our family was driven to reach new heights of preparedness. We mitigated every possible scenario. There would be no rest until all the bags were checked and every loophole filled!

We now live in the ground swell of our efforts to once again feel secure, remain free and leave this family intact for all future generations of Americans. (cont'd on page 3)

Amateur Radios and Technology

Have you ever looked around and wondered where in the world is technology going to take us next and where does Amateur Radio fit into the whole picture of technology?

If you go to any Swaps, Club meetings or any type of gathering of Hams, it seems that this topic has a way of rearing up and

being talked about by someone either formally or just as a topic of conversation.

Everyone has their own ideas on what Amateur Radio is all about; some feel it is for DXing, some feel the bands are for contesting others feel digital is the only way to go.

There are those who feel that it should be used for emergency communications and traffic handling because after all, isn't that what we were given our privileges to do? There are some who feel that it should be a family thing so that you can stay in touch with the spouse or kids and find out how (cont'd on page 2)

Michigan Ham Fests for April

April 5—Milford ARC
<http://www.qsl.net/w8ydk>
Contact: Rose Mary Moore, KC8NQJ
 1383 Sylvan Drive
 Hartland, MI 48353
 Phone: 810-632-5174

CMARC BOARD MEMBER CONTACT

| | | | | |
|----------------|--------|----------------|--------------------|-------------------|
| "Bruce" Rainey | KC8ODP | (517) 627-9118 | kc8odp@arrl.net | President |
| Tom Shaver | KC8NJK | (517) 651-6694 | kc8njk@arrl.net | Vice President |
| Dick McGuire | KI8C | (517) 782-1430 | dickki8c@juno.com | Secretary |
| Randy Stortz | KC8LXV | (517) 393-0634 | rstortz387@msn.com | Treasurer |
| Clint Hannahs | KC8EHR | (517) 882-1799 | kc8ehr@arrl.net | Director |
| Gregg Mulder | WB8LZG | (517) 646-6257 | | Director |
| Kevin Mulder | KC8QZE | (517) 646-6257 | | Under 22 Director |
| John Ingraham | NG8L | (517) 484-8027 | ng8l@arrl.net | Membership Chair |

LCDRA BOARD MEMBER CONTACT INFORMATION

| | | | |
|----------------|--------|----------------|-----------------|
| Dan Harger | W8BCI | (517) 882-8784 | w8bci@juno.com |
| "Bruce" Rainey | KC8ODP | (517) 627-9118 | kc8odp@arrl.net |
| Don Rickerd | W8BQD | (517) 339-8496 | |
| Dennis Boone | KB8ZQZ | (517) 337-0857 | drb@msu.edu |
| Troy Creed | W8TCC | (517) 323-6358 | w8tcc@arrl.net |
| Hal Bell | W8LAY | (517) 484-0962 | |
| Scott Newfer | W8SRN | (517) 381-8148 | |



Amateur Radios and Technology

(cont'd from page 1)

they are doing.

Can we say that any or all of these are not correct in their thoughts and/or opinions? I personally think not.

Amateur Radio is all of these things and more. Do you have to have the "Latest and greatest" to get on the air; of course not. Do you have to use all of the bands that are available to you; of course not again.

We all have our own thoughts and ideas as to what we want to do, how much of it and what methods we want to try. Now where does all of this fit into the previous paragraph?

There is something for everyone out there and there is always something that Amateur Radio will fit into.

How many cell phones would there be if Hams had not developed the technology to get it there; how much television could

you watch if some "old timer" hadn't messed around; how about just plain old broadcast radio stations? It was started by some "old timer sitting behind that old crystal rig" who decided that there were things that should be put out there for the general public.

Today it is not some "old timer" who maintains your repeater or keeps your radio going. There's a new generation of Amateurs who are working within the companies who are developing this "new" technology.

How about the TV networks? Any idea how many Hams work behind the scenes, in booths, maintenance and development of the equipment used today? You don't see their call-signs plastered on TV, but they are there. Amateur Radio is fulfilling the demand for "technologically oriented" people in today's world.

The same interests in electronic theory, principals and technology that are needed in all of these "wonderful new things" are the same things that draw someone to become a Ham. Does all of this mean that we can leave the "Defense of the Bands" up to these

people and that those folks who are working within these areas are the only ones who need to do anything? No way does that leave a majority of the hams to "play" and do as they want.

If you enjoy talking on the repeater or HF or via digital or whatever it is that you are into doing, you need to support the programs and those people who are actively involved in the "Big Picture".

When the FCC asks for an opinion do not feel that the ARRL is the only one that has any real say and that my "vote" does not count, because it does. By expressing your thoughts to the Leadership in Michigan, Great Lakes Division and ARRL, you are showing that you care and that you feel a part of Amateur Radio.

Do your part the next time they ask for an opinion, please don't just blow it off as not counting.

John Freeman, N8ZE, ASM, Special Projects
Monthly Michigan Section News
Summary, March 7, 2003

Homeland Security

(cont'd from page 1)

The cost of freedom has always been high. Family members in the past have given the "last full measure" on hundreds of battlefields, from sea to shining sea.

And today the need for this family, "our family" to rise up and overcome this enemy, terrorism, has never been greater. The unseen adversary today, still lurks about in many forms... Considering them all, there is one that is most frightening. One that requires our diligence and perseverance as never before... I speak of the war on "Apathy".

Please don't misinterpret... The tidal wave of initiative continues... Nationally, we have spent, are spending and will continue to spend billions of dollars securing the "Homeland". BioPort Corp. alone has spent over 1.5 million dollars

since we were attacked on security upgrades, new procedures, plans and increased the production of vaccine to meet strategic needs.

However, the United States of America does not belong to the government or companies. Our "Homeland" and the security therein, belongs to each and every one of us!

Oh, I agree, it is fun to cheer for the home team, sing the fight song and wave the flag when we are emotionally involved and the teams are on the field. Unfortunately, the outcome on game day is only a reflection of the preparation that takes place during the week. And the dollars spent are only a factor in our present and future security.

As a member of this team/family, we all have a contribution to make. It will only be through millions of small offerings, seeds sown in the soil of pa-

triotism that our "Homeland" will be truly secure!

It is quite possible that you will never be called upon to lead a charge to overpower a hand full of terrorists, serve our Nation on the field of battle in Afghanistan, or become a hero rescuing victims in need. However, there is no question, but that you are being called upon today to be vigilant, prepared and always on the alert for the moment when the unseen enemy becomes visible to you.

On July 16th, 2002, President Bush said, "Our enemy is smart and resolute. We are smarter and more resolute. We will prevail against all who believe they can stand in the way of America's commitment to freedom, liberty, and our way of life."

Tom Shaver
CMARC



FCC housekeeping changes in Amateur Service rules

The FCC made some minor changes in the Part 97 Amateur Service rules as a result of decisions at past World Radio communication conferences.

In a wide-ranging Report and Order released March 3 that affects several radio services, the FCC has removed 97.401(b) and international footnote 5.120 from the Amateur Service rules.

The section references International Telecommunication Union (ITU) Resolution 640, which invited administrations to provide for the needs of international disaster communications and for the needs of emergency communications within their national regulations using certain amateur

bands. Resolution 640 was deleted at WRC-97, and footnote 5.120 at WRC-2000.

"We do not think this will have an impact on the Amateur Service emergency communications because Sections 97.111(a)(1) and 97.101© of our Rules allow amateur stations to communicate with foreign stations in disaster areas, making the provisions based on the former ITU Resolution No. 640 unnecessary," the FCC said in the RO&O in ET Docket 02-16.

Those sections permit transmissions necessary to exchange messages with other stations in the amateur service, unless an administration objects and require control operators at all times and on all frequencies to

give priority to stations providing emergency communications.

ARRL Headquarters
Newington CT March 6, 2003

Dating The Job

When you paint a room, write the date, the brand of paint and color used in pencil under the switch plate. That way later on, you can check right in the room to see how long it's been since the room was painted and what paint was used.

Central Michigan Amateur Radio Club Minutes of the Meeting (March 7, 2003)

The meeting was brought to order by club president Bruce Rainey (KC8ODP) at 7:45 p.m.

Members

28 members were present at the meeting.

Visitors

8 visitors were present.

Introductions

The following visitors were introduced:

- Jim Hannahs (KC8QWH)
- Virginia Hannahs
- Tammy Aves
- Doug Aves
- Jason Heyland
- Lowell Heyland
- Evelyn Sitterson (new Scope editor)
- Dorothy Gaffney (mother of Bernie Gaffney, N8PVZ)

New Members

None

Upgrades and New Licenses

None

Announcements

- Dick McGuire read the minutes from the previous meeting. The minutes for the February meeting were approved as submitted. Moved by Mike Rhew (KC8DBP) and seconded by Bernie Gaffney (N8PVZ). Don Tillitson (WB8NUS) had a correction for the January minutes; a computer had been donated FROM the Red Cross, not to.
- The treasurer's report was approved as published in Scope. Moved by Don Cote (KD8BD) and seconded by Randy Stortz (K8VY). Bruce Rainey (KC8ODP) would like to track interest income as a separate item.

- Bruce had a birthday on March 5 but can't seem to remember how old he was.
- Gregg Mulder (WB8IZG) commented that the latest Scope was "very well done." The editor, Evelyn Sitterson, is being encouraged to enter a contest for newsletters.
- John Ingraham (NG8L, Membership Chairman) and Evelyn Sitterson will firm up the distribution list, so that members with e-mail addresses will receive Scope via e-mail and not by snail mail. The approved budget will reflect this with a reduced expenditure for mailings.
- Per tonight's board meeting, unpaid members will not receive Scope after the January issue. Paid-up members not receiving Scope should inform John and Evelyn.
- Coral Gables will not be available on the second Saturday in May, for the Ladies' Night. It is available on the first Saturday, but that is the day after the usual CMARC meeting. Menu and price will be the same as last year. Don Cote (KD8BD) moved that we cancel this year's May meeting in favor of Ladies' night on the first Saturday. Seconded by Dick McGuire (KI8C) and passed.
- The website coordinator would like help with the websites. Because of the size of the effort, individual people will maintain the websites.
- Evelyn Sitterson would like articles but needs them by the 10th of each month.

- There were no deaths or illnesses to report.

Old Business

- Don Cote reported that "the Dons" have narrowed the vest down to two designs. Quantities of 25 will either \$7.99 or \$6.64, depending on design. Don Cote moved that the club purchase one of each design. Seconded by Gregg Mulder (WB8LZG) and passed.
- Clint Hannahs (KC8EHR) needs two more volunteers to head stations and other Field Day committees. One should head food. Scott Tickner (W8ATT) will head an hf station. Field Day will be on June 28th and 29th. Bruce announced the new Class F operation, which will occur at Emergency Operation Centers. Operation will take place at the usual scout camp.
- Clint Hannahs needs assistant ECs.
- Clint also announced Advanced Skywarn training on April 5th, 10 a.m. to 3:30 p.m., at LCC Dart Auditorium. Everything, including parking, is free, by pre-registration would be appreciated.
- Clint outlined the need to be prepared, because of the current world situation.
- Gregg Mulder worked Illinois on his low-power transistor rig.
- Science Day at Meridian Mall has been cancelled for this year.

New Business

- Russ Fitzgerald (N8FZ) would like to share ideas with person(s)

who knew Mark Humphreys.

The fund now has a balance of \$400. Bruce Rainey would like ideas on how to perpetuate the fund. The club will send letters of appreciation.

- Don Tillitson (WB8NUS) announced names who need to be added to the list of silent keys.
- Bernie Gaffney (N8PVZ) announced the Michigan QSO Party.
- Bruce announced that March 31 is the deadline for receiving nominations for the Hiram Percy Maxim Award.
- Bruce Rainey reminded us that CMARC receives \$15 for each new ARRL member.
- Directories are still available at \$2 each.
- March 15 is the deadline for Pam Denomme (KB8PSF) to receive Ziegenbein nominations.

Scott Tickner (W8ATT) moved to adjourn. Seconded by Don Cote (KD8BD) at 8:47 p.m.

After a break, Rob Dale (N8GSK, Channel 6 Meteorologist) gave a presentation on weather forecasting.

Test Your Tires!

Having a flat beside a busy highway is dangerous and inconvenient, so make sure you replace your tires when needed. A quick way to see if you're ready for a new set of tires is to insert a penny into the tread. If you can't cover the top of Lincoln's head inside the tread, make tracks to the tire store.

Central Michigan Amateur Radio Club **Minutes of the Board Meeting March 7, 2003**

The meeting was brought to order by club president Bruce Rainey (KC8ODP) at 7:05 p.m.

The following board members were present for the meeting:

Bruce Rainey (KC8ODP)
President

Randy Stortz (K8VY)
Treasurer
Dick McGuire (K18C)
Secretary
Gregg Mulder (WB8LZG)
Director
Clint Hannahs (KC8EHR)
Director
Kevin Mulder (KC8QZE)
Director

Bruce read minutes from the last (February) board meeting.

The following budget items were discussed at tonight's board meeting:

- Science Day at Meridian Mall has been cancelled until further notice, because of the death of the sponsor. This eliminates the need for the planned \$50 expenditure.
- \$200 for Field Day
- \$600 for Scope. (Most copies are e-mailed now.) Evelyn Sitterton (Scope Editor) will touch base with Randy Stortz and John Ingraham (Membership Chairman) to make sure the distribution list is accurate. Because of reduced mailing volume, we did not renew the bulk mailing permit. Members who fail to renew will not receive Scope (e-mail or snail mail) after the January issue.

- \$275 for Ladies' Night
- Bruce would also like to keep a numbered receipt book at the Red Cross, so that anybody here can write a receipt for any money received.
- We need to be able to track income from the CD.
- The Humphreys Fund has \$400
- \$100 for cards and flowers, including silent key donations. Bruce's wife has software which can make cards.
- \$150 for checking account fees
- Randy Stortz will notify the board if a budget limit is about to be exceeded.

Website is being worked on by Greg Warner. It should be fast and easy to read.

Russ Fitzgerald will discuss Humphreys fund with family. We also should find a way to perpetuate the fund.

Concerning a joint effort between the Lansing Hamfair and the Kalamazoo Hamfest, Gregg Mulder has been unable to reach the hams in Kalamazoo. Dick McGuire will discuss CMARC's desires when he meets with hams in Kalamazoo on March 8. Dick will use the words in the printed agenda.

Board members liked the new Scope.

Meeting was adjourned at 7:40.

CENTRAL MICHIGAN AMATEUR RADIO
CLUB
TREASURER'S REPORT
March 20, 2003

Account Balances
As of March 20, 2003

ASSETS:

Cash & Bank Accounts

| | |
|-----------------------------------|------------------|
| Mich Nat'l Bank Checking | \$ 1,066.78 |
| Mark & Marilyn Humphreys' Fund | <u>\$ 445.00</u> |
| TOTAL Cash & Bank Accts | \$1,511.78 |

Other Assets:

| | |
|--------------------------------|----------------|
| Comerica Bank \$1,000.00 CD | \$1,515.22 |
| Interest due CMARC | <u>\$ 2.55</u> |
| CD Total worth to date | \$ 1,517.77 |

| | |
|-----------------------------------|------------------|
| Mark & Marilyn Humphreys' Fund | <u>\$ 445.00</u> |
| TOTAL ASSETS: | \$1,962.77 |

LIABILITIES: \$0.00

TOTAL NET WORTH \$ 3,029.55

Income & Expenses
February 24 to March 24, 2003

INCOME:

| | |
|----------------------------------|-----------------|
| Dues | \$ 70.00 |
| Donations | \$ 1.50 |
| Directory sales | \$ 5.00 |
| Mark & Marilyn Humphreys Fund | <u>\$ 45.00</u> |
| TOTAL INCOME: | \$121.50 |

EXPENSES:

| | |
|-------------------------------------|----------------|
| Flowers/Mark & Marilyn Humphreys | \$ 49.77 |
| Scope | \$ 18.02 |
| Service Charges, Bank Checking | \$ 10.00 |
| ARRL bureau cost | <u>\$ 4.00</u> |
| TOTAL EXPENSES: | \$ 81.79 |

TOTAL NET PROFIT: \$39.71

Transferred from Checking to
US Postal Deposit Account \$ 0.00

Respectfully Submitted by:

Randall Stortz, K8VY
Treasurer

The six meter net

The six meter net is held each Sunday at 9:00PM on 52.525 (as well as 147.28 and 444.575).

Most evenings, 52.49 is a popular simplex frequency here in the area.

There are a number of guys using it from Eaton Rapids and Charlotte. Usually between the hours of 7 and 10:00 PM you can find somebody there.

Another popular frequency is 52.54, which is used mainly by people around the Jackson and Coldwater areas.

50.125 USB is the national calling frequency for SSB, and this is where a majority of the "DX" can be found. We haven't really had any significant band openings lately.

Although on Christmas day it did open up to the East Coast, into

New York, New Jersey, etc. Later in the day it was open to the south into Texas, Florida, Georgia, etc. On Christmas Eve, there was a big opening into South America, but I missed that one.

There are two nice repeaters in the area. 51.70 is in Holt with a PL of 192.8. Also, 51.62 is in Jackson, PL 100.0. The Jackson repeater is Chris WD8EEQ's new repeater.

Just an overview:

| | |
|--------|-----------------------------------|
| 50.110 | International DX Calling Freq |
| 50.125 | National SSB Simplex Calling Freq |
| 50.40 | National AM Simplex Calling Freq |
| 52.525 | National FM Simplex Calling Freq |
| 52.49 | Secondary FM Simplex Calling Freq |

73—Dan W8MMQ



From the Editor

Spring is almost upon us. Green is starting to show among the brown drab of winter. Life is starting anew.

I feel that way too. This newsletter is a wonderful new beginning for me, not only as an editor but also as a Ham. Yes, I am studying to get my ticket. Watch here for further updates.

There was an error in Bruce Rainey's bio last month. The error reads "*Frances, my wife, and I share three daughters and a son, five step-children, four grandchildren and seven step-grandchildren.*"

It should read: "*I have three daughters, a son, four grandchildren and five stepchildren. Frances, my wife, has one daughter, two sons and three grandchildren.*"

Your Scope is coming along great but it really needs more articles about CMARC/LCDRA member activities and interests. Please submit articles (with pictures, if possible) to me or a board member. Thank you.

Well, back to studying for my ticket. Hope everyone is enjoying the beautiful weather.

President's Corner



Wow! Where does the time go? It will be April soon and four months down for your new Board. We have a lot yet to get accomplished but we will certainly need the help of each one of you.

We got off to a great start with increasing attendance each month and great programs. I am sure Tom has another great program lined up for us but I guess you will have to hear it from him, hi-hi.

I cannot say enough about the apparent renewed interest in our Club and its activities. But, remember, it is your Club. Your Officers will do their best I am sure, but much of the Club's successes depend greatly on the membership and its willingness to become and stay involved. We are off to a great start. Let's keep up the momentum!

So, what has been happening lately? Well, the Club has successfully renewed its Special Service Club status for two more years. Our revamped

newsletter, the Scope, has received several noteworthy compliments from senior members of the Club and from the ARRL Michigan Section leadership. Kudos to Evelyn. Keep up the good work.

By the way, Evelyn, when are you going to take that test and get your ticket? Isn't she doing well to not even be a ham yet? Oh, did I say she wasn't a ham. Well, I meant to say she is not an amateur radio operator yet; not that she is not a ham.

Oh well, enough of that stuff, what I really want to ask is that we all help her as much as possible. We look forward to Evelyn entering our Scope in the upcoming Michigan Section contest being sponsored by Debbie Kirbride in August (using June and July's newsletters). So, keeping that in mind, be sure and give Evelyn lots of good stuff to include in the Scope during that period.

The Humphreys fund is growing and initial indications from the oversight committee is that the money could be used for educational purposes for both new and aspiring hams to helping experienced hams toward upgrades or improvement of their abilities. Contributions are still in order. Keep your pennies and dollars coming.

As I write this, the war in Iraq appears to be beginning. With that, we should all remember one of basic reasons for the existence of our hobby is to serve as the civilian communications backup for communications facilities in this country and to offer assistance where possible on an international basis. Please read your copy of Part 97 and bone up on what we are allowed to do, what not and how we are expected to operate in times of emergency. Be sure you are ready to do your part.

73s—Bruce Rainey, KC8ODP

Recent Silent Keys

Stu Brooks
John Hodgkin
Paul Nelson
Mike Sterling

W8BV (K8AVR)
W8KSR
K8PUU
WA9QGY

For Sale

1995 Jimmy 2 door; 6 cyl 4.3 vortex motor. New tires, front end tie-rod, exhaust, brakes. No leaks AM/FM Stereo/CD Player with removable face. Car Alarm. 116,000 miles. Push button 4 wheel drive. Loaded. Great Shape \$7,000. Kc8ehr@netzero.net

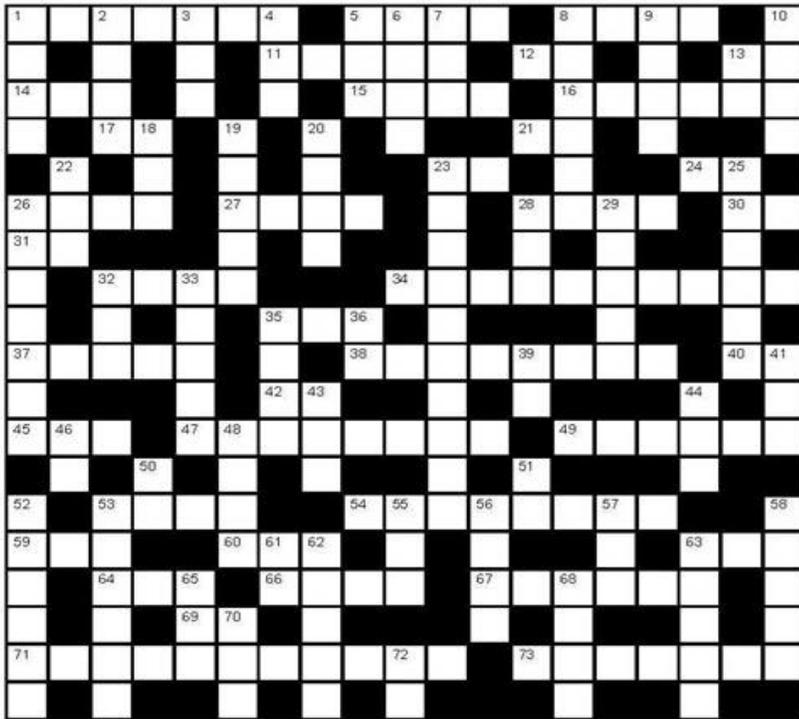
Radio Shack HTX-100 10 meter radio; excellent shape. New mic. \$130. Kc8ehr@netzero.net

Yaesu CPU2500R 2 meter radio. 25 watts. 4 memories. Touch tone mike. Owners manual and service manual. No tones installed. Original shipping box. None smoker. Oldie but goodie. \$50.00 Currin Skutt W8FSZ Phone 989-291-3811

Radio Shack HTX-200. 2 meter hand held. Like new hardly used. All the whistles and bells. Power adapter from RS. Antenna adapter. Original shipping box. As new \$70.00 Currin Skutt W8FSZ Phone 989-291-3811

The Amateur Radio Crossword Puzzler

By H. Ward Silver, N0AX



Erratum

The clue for 61 Down is incorrect, leading the puzzle solver to enter "IT", but this won't work with the correct solution for 60 Across. 61 Down should be completed as "AT" -

19. 6-meters is this type of band
 20. Flexible portable antenna
 22. Techs get ... privileges above 50 MHz
 23. Dissipation of signal in the ionosphere
 25. Unattended station to observe propagation
 26. Rapid change in amplitude
 28. Make the highest score
 29. Over
 32. Tunes a radio (abbr.)
 33. Type of polarization that is lossy
 35. Micro-micro
 36. Number (abbr.)
 39. End of message (CW abbr.)
 41. DX means signals that go ...
 43. Ready to copy (CW abbr.)
 44. Type of synchronous satellite
 46. Intercept Point (abbr.)
 48. Trajectory of radio waves
 50. Appended to new Extra class call signs
 51. Measure of acidity
 52. Squeezes
 53. Millionth of a meter
 55. Top card
 56. Round microwave antenna
 57. Laughing out loud (abbr.)
 58. Covering that lets air through
 61. Information Technology (abbr.)
 62. Channel in the atmosphere
 63. Violent weather
 65. Microwave connector (abbr.)
 68. Curly laugh
 70. Manager (abbr.)
 72. Pipe thickness (abbr.)

Answers on page

Across

1. Logarithmic ratio
 5. Slang for satellite
 8. Satellite configuration
 11. Thermal disturbance
 12. After Stop
 13. Transverse Mode (abbr.)
 14. Also
 15. Type of cell phone protocol (abbr.)
 16. Spare
 17. Phoned home
 21. Laughing state (abbr.)
 23. Two-axis rotator (with 30 across)
 24. Abbreviation for 1 Across
 26. Solar energy
 27. Work these squares
 28. CW and SSB are-signal modes
 30. Other half of 23 across
 31. Telephone (abbr.)
 32. Award for grid chasers
 34. 2-1/4 second round trip
 35. Sensitive type of diode detector
 37. Slang for atmospheric propagation
 38. Full duplex relay
 40. Noise figure (abbr.)
 42. General call
 45. Slang for radio

47. Occasional E-layer propagation

49. From outer space
 53. Change from solid to liquid
 54. Small, portable FM radio
 59. Interference from radio (abbr.)
 60. Previously possessed
 63. Thyristor (abbr.)
 64. Old abbreviation for Hertz
 66. Adjust a transmitter
 67. Illuminated by the sun
 69. Millimeter (abbr.)
 71. Methods and paths for radio waves
 73. Polar zone in the ionosphere

Down

1. Nobody on the band
 2. Morse invented this
 3. Type of coax connector
 4. Microwave amplifier (abbr.)
 5. Smallest unit of information
 6. High-speed telephone data service (abbr.)
 7. Deepest type of sleep (abbr.)
 8. Operating from a car
 9. Rubber antenna
 10. Analog cell phone system (abbr.)
 13. Terminal Unit (abbr.)
 18. Thanks (CW abbr.)

SkyWarn Training

Sponsored by the Ingham County-Amateur Radio Public Service Corps.

FREE ADMISSION

April 5th 2003
10:00 am-3:30 pm
Lansing Community College
Dart Auditorium

Clint Hannahs - KC8EHR -
Ingham County / City of Lansing E.C. (30 Minutes)

- How Does Amateur Radio fit in with Emergency Communications
- Local uses of EMWIN

Zim Zoss
Battle Creek Emergency Director (30 Minutes)

- EMWIN and Emergency Management Communications

Break (10 Minutes)

Ernie Ustuno
National Weather Service (45 Minutes)

- Severe Weather : Damage Assessment

Lunch (from Noon to 1:00pm)

Kaz Fujita
MSU Professor, son of Ted Fujita (30 Minutes)

- The legend of "Mr. Tornado"

Break (15 Minutes)

Mike Heathfield
National Weather Service (2 Hours)

- Skywarn Training

Pre-Registration is NOT required but Appreciated
If anyone has any questions, they are to contact me.

Clint Hannahs - KC8EHR
(H) 517-882-1799
(P) 517-232-2828

Protecting Valuable Records

Many of us assume that floods, storms, hurricanes or other disasters will always happen to someone else. Many people dislike the thoughts about death and consequently postpone taking care of family papers. Protecting family papers is just one part of being prepared to deal with natural disasters.

An up-to-date household inventory is a very valuable resource. When making the inventory, do not overlook tools stored in the garage, lawn furniture or food in the freezer. You may want to include a video or photographs of your inventory. An accurate inventory will help you determine if you have enough insurance to cover the contents of your home. Keep the inventory current.

Additional copies of valuable records lists should be in the care of a lawyer, the administrator of wills, business associates or trusted family members residing outside of your home. The need for greater care of valuable papers increases as your estate size and family size increase, and as family goals and life patterns become more complex.

Table 1 is a list of valuable papers that need to be in a safe deposit box, especially during a disaster such as a hurricane. Table 2 is a list of valuable papers that need to be in your possession at home at all times in a water-proof, fire-proof locked box.

Table 1. Valuable papers to keep in your **safe deposit box**

- Stocks, records and bond certificates
- Property records, deeds, title and/or leases
- Household inventory
- Contracts (including promissory notes)

- A copy of your will (his and hers)
- Auto title
- Birth certificates
- Death certificates
- Marriage certificates
- Divorce decrees
- Social Security cards
- Government savings bonds
- Important receipts and bills of sale
- List of insurance policies
- Automobile bill of sale
- Military service records
- Copyrights and patents
- Adoption papers
- Custody papers
- Passports
- Citizenship papers
- Religious records
- Income tax returns
- Retirement Papers

Table 2. Valuable papers to keep at **home** in a safe place

- Advisor's names and addresses
- Guarantees and warranties
- Educational records
- Employee benefits
- Health records
- Insurance policies
- Loan payment books
- Copies of birth and marriage certificates
- Driver's license numbers
- Copies of income tax returns
- Appliance manuals
- Current bank balances
- Rental property records

Safe deposit records and inventory of item

April 2003

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|-----|-----|-----|-----|-----|-----|-----|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | | | |

The Lansing VE Team, sponsored by the Central Michigan ARC, will be having an additional licensing exam session on Sunday March 30, 2003 at 12:00 .

This is in addition to our normal session that we hold every 2nd Saturday of odd numbered months.

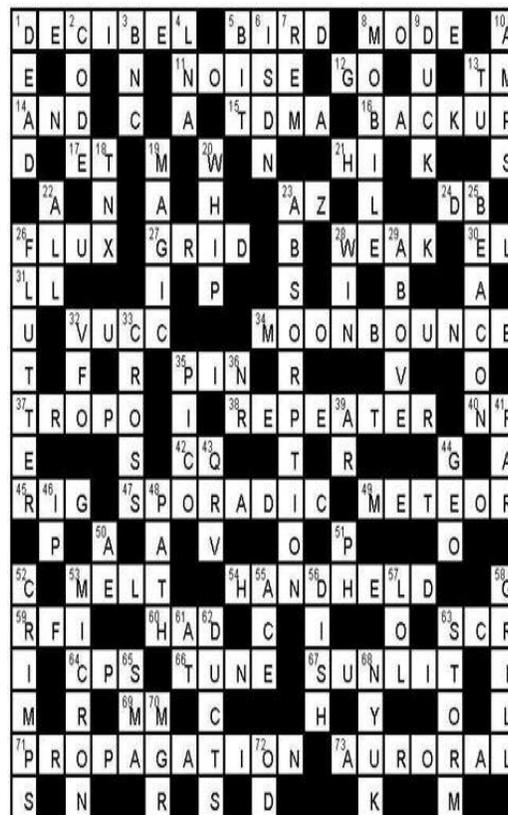
This session was scheduled to coordinate with the end of the ham radio class in St. Johns.

The session is open to anyone, walk-ins will be accepted.

Call N8VYS Joe Denomme (517 589 5263) for I.D. requirements and other details.

The exams will be held at the Krop-schot Room at the Lansing Red Cross.

Larry Nordeen N8VEN



April Schedule of Events

- Apr 4 CMARC Meeting**
Red Cross Bldg
Lansing
7:30 p.m.
- Apr 5 539 Breakfast**
Copper Skillet
Cuby Jack's
6527 S. Cedar
Lansing
8:00 a.m.
- Apr 5 Skywarn Training**
LCC—10:00 am
- Apr 26 QCWA Breakfast**
Corner Kitchen
Mt. Hope/Pennsylvania
Lansing
8:00 a.m.
- Apr 26 Mothers March (of Dimes)**

Birthdays

- Apr 7 Richard McQuire
K18C
- Apr 8 John Shaner
KC8RMF
- Apr 21 Kenneth Norton
KC8OIL
- Apr 22 Kenneth W. Hull
WR8S
- Apr 30 Joseph Oranchak
WA4KPQ

Anniversaries

- Apr 9 Sandy & Scott Tickner
- Apr 27 Peter W. Lycos

Stainless-Steel Surfaces Need A Quick Spiff Up?

If the steel or metal kitchen appliances look dull, bring back that shine by using full-strength household vinegar applied to a sponge. This is a wonderful way to remove hard-water buildup.

What Is RACES?

Founded in 1952, the Radio Amateur Civil Emergency Service (RACES) is a public service provided by a reserve (volunteer) communications group within government agencies in times of extraordinary need.

During periods of RACES activation, certified unpaid personnel are called upon to perform many tasks for the government agencies they serve. Although the exact nature of each activation will be different, the common thread is communications.

The Federal Emergency Management Agency (FEMA) provides planning guidance and technical assistance for establishing a RACES organization at the state and local government level. A comprehensive RACES manual, *Guidance for Radio Amateur Civil Emergency Service*, is available on the FEMA Web site <<http://www.fema.gov/library/civilpg.shtm>>.

The Federal Communications Commission (FCC) is responsible for the regulation of RACES operations.

RACES is administrated by a local, county, or state civil defense agency responsible for disaster services. This civil defense agency is typically an emergency services or emergency management organization, sometimes within another agency such as police or fire.

RACES is a function of the agency's Auxiliary Communications Service (ACS), sometimes known as DCS (Disaster Communications Service), ECS (Emergency Communications Service), ARPSC (Amateur Radio Public Service Corps), etc. Many ACS units identify themselves solely as RACES organizations, even though their communications functions and activities typically go beyond the restrictions of RACES operations. Other

ACS units combine government RACES and non-government ARES (Amateur Radio Emergency Service) activities and identify themselves as ARES/RACES organizations.

Yet other ACS units who use amateur radio for emergency government communications identify themselves solely as ARES organizations, whether or not they activate under FCC RACES Rules.

The Amateur Radio Regulations, Part 97, Subpart E, §97.407, were created by the FCC to describe RACES operations in detail. Although no longer issued or renewable, RACES station licenses were issued in the past by the FCC to government agencies for RACES operations. The agencies may continue to conduct RACES operations without these licenses, using primary or club call signs.

ACS, in its RACES and other reserve emergency communications functions, provides a pool of emergency communications personnel that can be called upon in time of need. ACS/RACES groups across the country prepare themselves for the inevitable day when they will be called upon. When a local, county, or state government agency activates its ACS unit, that unit will use its communications resources (RACES, if necessary) to meet whatever need that agency has.

Traditional RACES operations involve emergency message handling on Amateur Radio Service frequencies. These operations typically involve messages between critical locations such as hospitals, emergency services, emergency shelters, and any other locations where communication is needed. These communications are handled in any

mode available, with 2 meters FM being the most prevalent. During time of war, when the President exercises his War Emergency Powers,

RACES might become the only communications allowed via amateur radio, using specific amateur frequencies set aside for wartime RACES use. ACS provides greater flexibility than RACES for non-wartime emergencies, on any amateur frequency designated in the local, county, or state ACS (or RACES) plan. Activating under the FCC's restrictive RACES Rules is not always necessary when using Amateur Radio Service frequencies for emergency communications.

For example, ACS communicators may need to communicate with ARES or other radio amateurs who are not government-certified to operate in a RACES net. ACS personnel also might become involved in non-amateur public-safety or other government communications, Emergency Operations Center (EOC) staffing, and emergency equipment repair.

Whatever need arises, trained ACS personnel are ready and prepared to help, via RACES or other means. ACS/RACES groups develop and maintain their communications ability by training throughout the year with special exercises and public-service events. When that fateful day occurs, ACS/RACES will be there to meet the challenge.

To join ACS or RACES and to be able to participate in RACES and other government emergency communications activities, contact your local, county, or state ACS Officer or RACES Radio Officer or Coordinator.

Remember America's Heroes

Central Michigan Amateur Radio Club
Lansing Civil Defense Repeater Association
P O BOX 27321
LANSING MI 48909

www.qsl.net/cmarc
80 Years of Service to Our Community!
www.qsl.net/lcdra



**The SCOPE
April 2003**

Address or Email change? Please make corrections on this page and mail to:

John Ingraham/NG8L, Membership Chairman
2807 Greenbriar Avenue
Lansing, MI 48912
Or email changes to: NG8L@arrl.net

CMARC— Full membership: \$10 per year.
Associate membership: \$5 per year.

Please make check or money order payable to CMARC and mail to: John Ingraham/NG8L, Membership Chairman, 2807 Greenbriar Avenue, Lansing MI 48912.

Name: _____ Call: _____

Address: _____

City: _____ State _____ Zip _____

Phone: () _____ License Class: _____

ARRL Member? Yes No

Email SCOPE? Yes No

Email Address: _____

Birthday: _____

Wedding Anniversary: _____

As a licensed Amateur, you can sign up today as a FULL member of CMARC. You will have voting rights as well as an annual subscription to the SCOPE. As an ASSOCIATE, you have an annual subscription to the SCOPE, but no voting rights.

LCDRA— Membership: \$15 per year (January to January)
Additional family members: \$7.50 per person

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City: _____ State _____ Zip _____

Phone: () _____ License Class: _____

ARRL Member? Yes No

Email SCOPE? Yes No

Email Address: _____

Birthday: _____

Wedding Anniversary: _____

Use of the repeater does not REQUIRE membership, but your support is GREATLY appreciated.