



Central Michigan Amateur Radio Club

THE SCOPE



Lansing Civil Defense Repeater Association

www.qsl.net/cmarc Serving Our Community Since 1921 December 1999

We're On the Move!

Make plans to attend now, because you won't want to miss out! By an overwhelming majority, the Boards of both **CMARC** and **LCDRA** voted to accept **The Summit** as our new **HamFair2000** site.

Plans were announced at the recent **CMARC** meeting and a quorum of both Club Boards attended to vote on the move, as well as the membership of **CMARC**. The plans were also unveiled to **LCDRA** members at its special November meeting and accepted with enthusiasm.

In his address to **CMARC** members, **ARRL** Division Vice Director, George Race (WB8BGY), praised the Club for its direction and dedication to making HamFair99 a success. "I like the things I see," Race said with a broad smile. "You're doing something right, because few Clubs have done what you have." Of course, everyone smiled at that.

LCDRA Treasurer, Dan Harger (W8BCI) and **CMARC** President, Erv (W8ERV) were making plans to put a deposit on the building so we can move forward with plans and begin

contacting vendors immediately.

For those that are not familiar with **The Summit**, please take time to drive out to it, or at least past it. It is located at 9410 Davis Hwy., in Dimondale. At Lansing Rd. and I-96, exit 98B, it offers easy access from the freeway and a central location for those travelling outside the Greater Lansing area.

Featuring 177,000 total square feet, this building offers amenities such as a complete concession area, rooms for VE testing and Forums and an elevator for those who cannot climb the stairs. It is also accessible to wheelchairs.

We are planning to utilize Field House #2, a 23,000 sq. ft. arena, more than suitable for HamFair. It features easy access and drive in unloading for the major vendors, plenty of electrical access and is expandable to more than 54,000 sq. ft., should we grow into it. (A nice thought!)

Please make plans to attend the meeting in December for an update. We will make **HamFair2000** something we can all be **VERY** proud of!

Nominations Sought, Elections Scheduled for December 3rd Meeting

In accordance with the **CMARC** ByLaws, this article shall serve as notice to all **FULL CMARC** members that, at the next regular meeting, scheduled for Friday 12/3/99, nominations shall be accepted for three (3) regular Board positions, as well as one (1) Under 22 position.

Those wishing to serve on the Board of the Central Michigan Amateur Radio Club for the year 2000 should make plans to attend the meeting and tell us who you are.

Further nominations shall be sought and accepted at the December meeting of the Central Michigan Amateur Radio Club, immediately followed by an election of said officers. Term of office is two years for the regular Board positions and one year for the Under 22 position.

Nominated at the November 5, 1999 meeting were: Julie McLain (KB8ZXR), J. Ervin Bates (W8ERV) and Chuck McNease (N8CM) to fill the three two year Board positions. Joe Denomme (N8VYS) was nominated, but declined due to work responsibilities.

In addition, Tyler Head (KC8LWG) was nominated to fill the Under 22 position. Term of that office is one year.

Elections will immediately follow nominations at December's meeting and our beloved Secretary will announce the winners at that time.

National Ham News

All National Ham News Courtesy of The ARRL Letter

ARRL Board of Directors' Election Results

The ARRL Great Lakes Division will have a new Director and Vice Director in January, and there are new faces in division leadership positions in the Dakota, Midwest and Pacific divisions.

The ARRL Committee of Tellers for the election of Directors and Vice Directors for the 2000-2002 and 2000-2003 terms met at ARRL Headquarters November 19 to open and tally ballots submitted by ARRL members in the affected divisions. Balloting for Director occurred in the Great Lakes and Midwest Divisions. Balloting for Vice Director took place in the Atlantic, Great Lakes, and Pacific Divisions.

In the Great Lakes Division George Race, WB8BGY, of Albion, Michigan, was the victor in a three-way race to again serve as Director. The tally showed Race—the current Great Lakes Vice Director—nosing out current Great Lakes Director Dave Coons, WT8W, by 101 votes—1700 to 1599. Challenger Murray Scott, KE8UM, garnered 1302 votes.

In 1995, Race—the Great Lakes Vice Director since 1990—assumed the Director's position when former Director Al Severson, AB8P, now a Silent Key, resigned. In 1997, Race was defeated for election to the Director's post by Joe Falcone, N8TI. Falcone resigned just three months into his term, elevating then-Vice Director Coons to Director. Race subsequently was named to again serve as Vice Director. Earlier this year he filed nomination papers seeking to regain the top job in the Division.

Gary Johnston, KI4LA, of Covington, Kentucky, will be the new Great Lakes Vice Director. He defeated Lawrence Solak, WD8MPV, 2498 to 2010. Race and Johnston will serve three-year terms.

In the Midwest Division Robert W. Walstrom, W0EJ, of Cedar Rapids, Iowa, defeated John Seals, WR0R, 2050 to 766,

for a three-year term as Director. Walstrom—an ARRL Life Member—will replace retiring Director Lew Gordon, K4VX.

In the Atlantic Division, incumbent Vice Director Bernie Fuller, N3EFN, of Saegertown, Pennsylvania, beat back a challenge from John Buchanan, KW3X. The vote was 3047 to 2038. Fuller will serve a three-year term.

In the Pacific Division race for Vice Director, Robert Vallio, W6RGG, of Castro Valley, California, won a three-way race over Jettie Hill, W6RFF, and John Ronan, III, K3ZJJ. Vallio polled 1278 votes to 1186 for Hill and 1155 for Ronan. An ARRL Life Member, Vallio—who's currently East Bay Section Manager—will serve a two-year term.

Several candidates were unopposed and were declared elected. They include incumbent Directors Kay Craigie, WT3P (Atlantic), Rick Roderick, K5UR (Delta), and Frank Butler, W4RH (Southeastern) and incumbent Vice Directors Bruce Frahm, K0BJ (Midwest) and Evelyn Gauzens, W4WYR (Southeastern).

Incumbent Directors Tod Olson, K0TO (Dakota) and Brad Wyatt, K6WR (Pacific), also decided not to seek re-election. Incumbent Vice Directors Jay Bellows, K0QB (Dakota), and James Maxwell, W6CF (Pacific), will move up to Director in their respective divisions. Newcomer Twila Greenheck, N0JPH, of Shoreview, Minnesota, was unopposed to become the Dakota Division's new Vice Director.

Terms of office for all successful candidates begin at noon January 1, 2000.

Indian Amateurs Aid After Cyclone

Hams in India were able to play a critical role in providing emergency communication from the eastern state of Orissa, struck by a destructive "super cyclone" in late October. The storm resulted in tens of thousands of deaths, left many more homeless, and created food and water

shortages. Troops have been sent into the affection regions, and the US has pledged \$2.1 million in emergency food and shelter aid.

Calcutta VHF Amateur Radio Society Secretary Indranil Majumdar, VU2KFR, an ARRL member, reports teams of amateurs from all over India responded to the disaster. The Calcutta club set up an Amateur Radio Control Room at the shack he shares with his brother, Horey, VU2HFR, running a Drake TR4 transceiver into a three-element beam on 20 and 40 meters. At one point, a dozen Calcutta hams were staffing the facility around the clock.

"This is the first time the whole of India has to come to know and appreciate ham radio," VU2KFR said. He said ham radio provided the initial communication link between the stricken state and the rest of the country.

On November 7, a group of five Calcutta hams took off for the Jajpur District in Orissa in a Land Rover-type vehicle equipped with HF mobile equipment. "The communication was done from the mobile with a dipole fitted like an inverted Vee on the car roof," Majumdar said. The transceiver in the car was a 15-W homebrew SSB rig that the club had put together.

"The entire communication in the state is being maintained by hams—except for some satellite phones that are operating now and then and facing battery problems," Majumdar said. The disaster communications team has since returned from Orissa as telephone and satellite phone service became available.

Majumdar said the teams handled message traffic relating to emergency food, clothing, and medical needs, road conditions, and health-and-welfare. Similar fixed facilities were set up in other Indian cities—including New Delhi and Hyderabad—and linked via HF.

Majumdar says a group of hams from the National Institute of Amateur Radio in

(National Ham News Continued)

Hyderabad also went to Orissa and set up emergency control rooms in Bhubhaneswar, Jajpur and Paradip. Other stations subsequently were set up in other affected cities with VHF and HF capabilities. VU2KFR says VHF links were being used to regional traffic within and between states. There are no repeaters. The hams are using what he called "human relay."

Majumdar estimated that 50 hams in all were participating in the disaster communication effort using their own or borrowed equipment.

One Jajpur official praised the Amateur Radio efforts. In a letter to Calcutta VHF ARS President Dipak Mitra, VU2DPM, District Magistrate R. Balakrishnan said the radio links were helpful in monitoring the spread of disease and in damage assessment efforts. "I am of the view that the concept of ham radio should be popularized and more and more such groups need to be encouraged," he wrote.

Amateur Restructuring Details Possible By Year's End

Knowledgeable sources in Washington say the amateur license restructuring issue has moved to the front burner at the FCC, and a Report and Order could be released before the end of 1999.

The Amateur Radio community has been awaiting license restructuring—known officially as the 1998 Biennial Regulatory Review of Part 97 (WT Docket 98-143)—for nearly one year now. While no one has mentioned a hard-and-fast date to wrap up the long-awaited proceeding, reports from several sources suggest that the R&O draft is in its final stages and could be complete within a month or so.

During a recent visit to top FCC officials in Washington, League officials pressed again for early action on the license restructuring rulemaking. They were assured that the issue was not

stalled and that the Wireless Telecommunications Bureau was "working very actively" to move restructuring along.

Whatever its final form—and no one has hinted at that—license restructuring poses significant implications for Amateur Radio and its future direction and growth. On August 10, 1998, the FCC proposed to phase out the Novice and Technician Plus licenses, leaving just four amateur license classes in place—Technician, General, Advanced, and Extra. The Commission also asked the amateur community to express its opinions on Morse code requirements for licensing and testing, but offered no specific recommendations.

At its July 1998 meeting, the ARRL Board of Directors—attempting to get the jump on restructuring—issued its own plan to restyle Amateur Radio. Among other details, the ARRL plan also calls for four license classes and for "refarming" Novice/Tech Plus subbands to provide additional spectrum for higher-class operators. Under the League plan, the Technician license remains unchanged, and the General becomes the entry-level ticket to HF operation. The ARRL proposed Morse code requirements of 5 WPM for General and 12 WPM for Advanced and Extra class.

The restructuring debate generated more than 2200 comments to the FCC, many of them from individual amateurs. Once the FCC approves the Report & Order, a Public Notice will be issued, and the actual R&O will be released probably within a few days.

Hams Will Get To Help NASA With Space Experiment

If all goes well, Amateur Radio operators will get a chance to contribute to a NASA satellite project by recording the data.

The Plasma Experiment Satellite Test—or PEST—at NASA's Marshall Space

Flight Center will ride on the Joint Air Force-Weber State University Satellite, or JAWSAT, according to project scientist Nobie Stone. The launch is set for no earlier than December 2. The primary payload will be the US Air Force Academy's Falconsat. JAWSAT will serve as a bus for several deployable payloads and the attached PEST experiment. The telemetry stream from JAWSAT—which includes data from PEST—will be transmitted on amateur frequencies. "Hams will be able to obtain data that characterizes certain aspects of the ionosphere above the D, E, and F layers where most of their signals are reflected," said PEST Project Manager Fred Berry, WA4IWY. "We're going to publish the data format in terms that everyone can understand." Data from PEST will be using either a G3RUH modem or a GMSK modem. Data rates should be as high as 38.4 kb/s. Data will be transmitted on 437.175 MHz or 2403.2 MHz. NASA will publish instructions for sending in data so the PEST team can use it. "It's an experiment," Berry said. "We're hoping that high school and college kids will get involved and learn something about the ionosphere and radio propagation."

Deployable payloads aboard JAWSAT are the Orbiting Picosat Automatic Launcher—or OPAL—and ASUSAT provided by Arizona State University. ASUSAT itself will contain amateur packet hardware and a 2-meter/70-cm FM voice repeater. OPAL will release three tiny picosats—one of them, StenSat—will have a crossband repeater aboard that will operate much like the popular AO-27 satellite.

After JAWSAT reaches its desired polar orbit at 700 km (420 mi) altitude, it will be about two weeks before PEST is first powered on. PEST will acquire data for at least a two-month period. For more information, visit http://science.nasa.gov/newhome/headlines/ast04nov99_1.htm. —NASA SpaceScience News

LCDRA MEETING OCTOBER 21, 1999

At 7:34 p.m., Clint/KC8EHR called the meeting to order. The following officers and directors were present: Clint/KC8EHR, Scott/W8SRN, Don/WB8NUS, and Hal/WA8LAY. Don/KB8RAD and Don/N8XME were excused. The following members were also present: Bob/K8NNZ, Bob/N8TNT, John/AA8LF, Don/W8BQD, Jan/KC8BFK, Dan/W8BCI, Jim/KA8DDQ, Forrest/N8PWO, Hazel/K8KSX, Bernie/N8PVZ, Bill/KB8TTS, Dick/W8SFA, and Roger/KC8CGH. Additionally, Erv/W8ERV, Central Michigan Amateur Radio Club's President and renewing LCDRA member, and Joyce Clark were also present. There were no new calls or vanity call signs.

Old Business

First, Scott/W8SRN read the minutes from the Association's last meeting in August. Erv/W8ERV moved to accept the minutes with Bernie/N8PVZ seconding. Motion carried.

Next, Don/WB8NUS gave the treasurer's and hamfair report. As of 1:00 p.m., Don reported that the association had expenses of \$3,018.18 against income of \$5,388.41. Our checkbook contained \$9,945.75 along with \$132.45 in cash and a \$28.76 uncashed check giving the organization a balance of \$10,106.99 before sending CMARC its part of the hamfair profits. Regarding the hamfair, Don opined that it was the best one that the two organizations have put on in the last 4 years. We sold 426 tickets, 34 trunk sales, and 67 tables for a total receipt of \$5,477.12. Less our preliminary expenses of \$3,239.11, the two organizations split a profit of \$2,278.32 or \$1,143.66 each. Additionally, Don reported that the kitchen did the best it has ever done by bringing in a profit of \$222.20. Forrest/N8PWO moved to accept the reports and Bill/KB8TTS seconded. Motion carried.

New Business

First, Clint/KC8EHR called for nomina-

tions of the association's officers for the next year. Erv/W8ERV nominated, with Bill/KB8TTS seconding, Clint/KC8EHR for president. Clint/KC8EHR nominated, with Scott/W8SRN seconding, Dan/W8BCI for vice-president. Clint/KC8EHR nominated, with Julie/KB8ZXR seconding, Scott/W8SRN for secretary. Erv/W8ERV nominated, with Bill/KB8TTS seconding, Don/KB8RAD for director. Also, Clint/KC8EHR, with Bernie/N8PVZ seconding, Hal/WA8LAY for director. When it was learned that Don/N8XME desired a director's slot with Don/KB8RAD being vice-president, Dan/W8BCI offered to be the treasurer with Don/N8XME being the vice-president. Clint/KC8EHR so moved with Scott/W8SRN as a second. Thus, Erv/W8ERV moved to close the nomination process with Bernie/N8PVZ seconding. As a result, the following officers were elected unanimously:

President = Clint/KC8EHR;

Vice-president = Dan/W8BCI or Don/N8XME;

Secretary = Scott/W8SRN;

Treasurer = Dan/W8BCI or Don/N8XME;

Directors = Don/KB8RAD and Hal/WA8LAY.

Clint/KC8EHR reported that Lansing EC was a go. Tom Shaver will purchase 2 2-meter radios, 2 HF radios, and 1 dual band 2-meter/70 cm radio for the amateur volunteers. Bob/N8TNT, Erv/W8ERV, Clint/KC8EHR, Jim/KA8DDQ, Dennis/KB8ZQZ all volunteered to set up the new equipment. Furthermore, this set up needs to be done by December 31, 1999 as Tom wants 20 volunteers standing by to man the new facility and other key areas. Similarly, Red Cross will have 4 shelters on standby.

In this vein, John/AA8LF inquired whether the 145.39, which will be the main communication frequency in the event of a Y2K disaster, was sufficiently independent to work in the event of a power failure. Jim/KA8DDQ reported

that the radios had battery backup utilizing recently tested/approved 68 amp-hour NiCads. Because the batteries charged off the radio's power supply, Clint/KC8EHR offered to have Tom Shaver file a request to have our equipment hooked up to FEMA's generator located at the site. As a back up to this plan, the association decided that it would be an excellent idea to purchase our own backup generator. Erv/W8ERV moved and Bill/KB8TTS seconded a plan to have Dan/W8BCI purchase a 1 to 2 kilowatt generator as soon as possible. Motion carried unanimously.

Erv/W8ERV thanked everyone for participating in the hamfair. However, he stated that it is time to move it to another facility in order to allow the fair to grow. Erv/W8ERV reported that he and Bill/KB8TTS have already contacted Okemos, Mason, and East Lansing high schools to see how much they would be, but the schools told them that they would not even think of scheduling anything until late August. In contrast, Holt high school stated that it would rent the gym, choir room, and provide food for \$116 per hour. The school stated that it could not guarantee a slot, but it would at least pencil us in. Erv/W8ERV compared this price to \$3,000 plus \$15 per table at the Holiday Inn and \$3,500 plus table charges at the Sheraton. After much discussion, Dan/W8BCI moved and Forrest/N8PWO seconded a plan to allow Erv/W8ERV and Bill/KB8TTS to explore new sites on the association's behalf.

In order to prepare for Y2K and to discuss the hamfair situation, Julie/KB8ZXR moved that the association hold a special meeting in November and Bill/KB8TTS seconded. The association unanimously agreed to meet on November 18th at 7:30 p.m. at our regular place.

Forrest/N8PWO reported that Ingham County RACES was now meeting the third Monday of the month at the sheriff's department in Mason. On the other Mondays, the organization will hold a net on 146.58 simplex.

(LCDRA Meeting Minutes Con't...)

Roger/KC8CGH thanked all the hams in the area for making the Jamboree on the Air a great success. Roger reported that his scout troop had a great time and many of the boys wanted to get their licenses or at least join a local club until they do get one.

Last, but not least, after Dan/W8BCI won the 50/50 raffle, Erv/W8ERV moved to end the meeting. Bernie/N8PVZ seconded the motion. Motion carried.

Respectfully submitted,

Scott R. Newfer/W8SRN

Secretary

CMARC BOARD MEETING

November 5, 1999

President Erv/W8ERV brought the Board meeting to order at 7:36 p.m. All Board members were present except for the Under 21 Director, Judd/KC8IRG.

President Erv asked LCDRA'S Board to attend our meeting so that together, we could make some decisions regarding Ham Fair 2000. Attending the meeting were Treasurer Dan/W8BCI, Secretary Scott/W8SRN, Directors Hal/WB8LAY and Don/KB8RAD. President Clint/KC8EHR and Vice President Don/N8XME were unable to join us. Also sitting in on the Board meeting were Chuck/N8CM and George Race/WB8BGY (ARRL Great Lakes Division Vice-Director), who was our guest speaker for the evening.

President Erv's main topic of discussion for tonight's Board meeting was a possible new location that had been found for Ham Fair 2000. President Erv had addressed the LCDRA meeting of October 21 with the results of this year's Ham Fair and made the suggestion that we should consider finding a larger place for next year. After a discussion, and with the general consensus of those attending the LCDRA meeting that we did need a larger location, a suggestion was made

that the Summit be checked into as being a possibility. Therefore, CMARC's President Erv and Director Bill/KB8TTS (along with LCDRA's Old Treasurer Don/WB8NUS and their newly elected Treasurer Dan/W8BCI) visited the Summit to see if it would meet our needs.

Here is what they found: (1.) CMARC and LCDRA spent approximately \$3,400 putting on Ham Fair '99 at the Ingham County Fair Grounds Community Building. At the Summit, we would spend roughly \$4,000 to put on Ham Fair 2000. (2.) The Community Building was 1,500 square feet. The Summit has 2,300+ square feet, over 500 parking spaces, a full concession area, easy access off Interstate 96 (near the corner of Lansing Rd. and Creyts Rd.), as well as rooms for Forums and VE testing.

A motion was made by Bill/KB8TTS to move the Ham Fair to the Summit. It was seconded by John/N8LLC and approved.

Other things discussed were: (1.) The much needed yearly servicing of the duplicator. (2.) Plans for housing the duplicator at Erv's home now that he has been approved as the new Scope Editor (see the October minutes). (3.) The deadline for all submissions to the Scope, which is the 15th of each month. Anything received after that date will be put in the next month's Scope. You may e-mail your submissions to Erv at w8erv@arrl.net. (4.) A returned sympathy card marked "unable to deliver". As we have no other address, it was thrown away. (5.) The Treasurer's receipt of a \$60 bill for flowers. He said that we were only supposed to be spending \$30-35 on them. The Secretary said she had been told \$50, but will now order flowers in the \$30-35 range. And (6.) A special LCDRA meeting that had been called for Nov. 18th. LCDRA's Treasurer, Dan/W8BCI said they were trying to get another location for it, as the Meridan Township Hall is booked for that evening.

With the conclusion of the business at hand, a motion was made by Erv/W8ERV

to adjourn. It was seconded by Bill/KB8TTS and approved. The meeting adjourned at 8 p.m.

Julie McLain/KB8ZXR-Secretary

CMARC MEETING

November 5, 1999

President Erv/W8ERV brought the meeting to order at 8:06 p.m. There were 31 members present and 1 visitor, Jeremy Sevrey/KC8EIA (Don/WB8NUS and Mary Lou's grandson).

NEW LICENSES AND UPGRADES: There were no new licenses, however, Rodney Ball/KC8HGF upgraded to General. Congratulations, Rodney!!

ANNOUNCEMENTS: (1.) On Saturday, November 6th, starting at 4 p.m. and Sunday, November 7th is the Sweepstakes contest. If you need forms, please see Don Devendorf/W8EGI after the meeting.

(2.) On Monday, November 8th, at 7 p.m. is a RACES meeting at the Ingham County Sheriff Department.

(3.) On Thursday, December 23rd, at 7 p.m., the Shiawassee Amateur Radio Association will be having their VE testing session. Their sessions are held at the Corunna Red Cross, 704 W. Corunna Ave., in Corunna. Registration is at 6:30 p.m. Contact Mark Mowery/AA8TC at (517) 743-6176 if you have any questions. Talk-in is 147.020.

(4.) On Friday night, December 31st through Saturday morning, January 1st, AMATEUR RADIO VOLUNTEERS ARE NEEDED FOR Y2K! Clint Hannahs/KC8EHR (the new EC for Ingham County) and Tom Shaver (the Lansing Emergency Preparedness Director and the Lansing Fire Department Spokesman) are looking for Ham Radio operators who have some source of emergency backup power (HT's, batteries, generator, or solar power). The volunteers need not be RACES certified, but only willing to monitor a specified frequency for instructions in case their ser-

vices are required to provide emergency communications for the Police or Fire departments, etc., as the result of that nasty Y2K bug! Since no one knows for sure if Y2K will really cause problems or not, the volunteers will only be on standby. If you are interested in helping, you need to contact Clint/KC8EHR and be put on the list. You may reach him by phone at 882-1799 or by e-mail KC8EHR@arrl.net .

INTERESTING DX CONTACTS:

No one had any except for Erv. His many contacts include Belgium, Guernsey, Chili, American Samoa, Hawaii, Portugal, and Madeira Island.

CARDS AND FLOWERS REPORT:

Get-Well cards were sent to Beverly Blakeslee (an Associate member who was hospitalized for pneumonia), and Marion Stoner/W8VWY (a Life member who was hospitalized with heart problems). Wedding congratulations were sent to Dennis/KB8ZQZ and Suzanne Boone who were married on October 2nd.

OLD BUSINESS: A motion to accept the Secretary's report as printed in the Scope was made by Currin/W8FSZ. It was seconded by Don/KB8RAD and approved. The Treasurer's report was received late and not printed in the Scope. It will be printed in the December Scope and voted on at the December meeting.

NEW BUSINESS: Erv, at the suggestion of the Secretary, said it was nice seeing Don/WB8NUS sitting in the front of the room for a change! We are accustomed to seeing Don, who was LCDRA's Treasurer, sitting in the back at each meeting and taking dues for those wanting to become LCDRA members. Erv explained that, after 27 years of being active on the Board of LCDRA and CMARC, Don has retired! Everyone gave Don a round of applause and Erv thanked him for the many years he served LCDRA and CMARC. Erv also mentioned that even with Don retiring, he still visited the new location being looked at for Ham Fair 2000, took measurements,

and laid out a floor plan. **Thanks, Don, for all your help and for always being there! You are the greatest!**

Don/WB8NUS gave us the Treasurer's report for Ham Fair '99. He said he had received a phone bill today, which had not been figured in, as well as a credit of \$9 for a can of unopened coffee sold after the Swap. However, this is what it looks like as of today (Nov. 5th). Our total profit is \$2,087.32, which will be divided equally by CMARC and LCDRA. That means each group gets \$1,143.66!! Don also reported that the food concession profit this year was \$223.20 compared to \$40 last year. He said this was the most profitable Ham Fair we have had in the last 4 years! Erv then thanked all who volunteered their time and energy in making Ham Fair '99 the huge success that it was!

Erv told the membership that after he received the preliminary results of Ham Fair '99 and realized that we have out-grown our current location, he decided to attend the October 21st LCDRA meeting to see what they thought about moving to a larger location. With overwhelming support from the LCDRA group, Erv and Bill/KB8TTS went out and found the "Summit", which is located at Lansing Rd. and Interstate 96 (exit 98B). The area we are looking at is 23,000 sq. ft. in size, which is roughly 4 times more that we had in Mason (approx. 5,400 sq. ft.). There is ample parking with over 500 parking spots. There is a concession area that "they" operate, rooms for Forums and VE exams, and an elevator. The vendors will be able to drive into the building to unload/load their merchandise. Erv said an estimated figure for holding Ham Fair 2000 at the Summit would be \$4,000 (compared to \$3,400 for '99). The sum is broken down as follows: (1.) The Field House costs \$1,500 for the one-day event. (2.) \$1,260 for 200 tables w/chairs if we set them up. (3.) \$500 for Door prizes. (4.) \$150 for Insurance. And (5.) \$25 an hour times two rooms (one for VE test-

ing and one for Forums).

According to a preliminary estimate, Ham Fair 2000, if held at the Summit, would have 220 tables with 12-foot aisles compared to this year's 67 tables and 4-foot aisles. We had 38 trunk sales this year, but there will be no trunk sales at the Summit — all vendors must buy a table. A tentative idea for prices is as follows: Tables would go for \$10.50 each in advance and \$12.50 at the door. Admission tickets would be \$5 in advance and \$6 at the door. The Holiday Inn also has a deal with the Summit in which they only charge \$68/night for a room, so if the vendors want to come early and get a good night's rest before they set up in the morning, they can.

Following a discussion, Bill/KB8ZRE made a motion that we put a deposit on the Summit for Ham Fair 2000. It was seconded by Mike/KC8DBP and approved.

Don/KB8RAD made a motion that we open the floor for nominations in preparation for the December elections. It was seconded by John/N8LLC and approved. The three 2-year Director positions that are up for grabs are: Erv/W8ERV, Julie/KB8ZXR and Joe/N8VYS. Also being vacated at year's end is the 1-year position for the Under 22 Director, Judd/KC8IRG.

Erv introduced Tyler Head/KC8LWG, who has expressed interest in running for the Under 22 Directorship. Currin/W8FSZ then nominated Tyler, seconded by Bernie/N8PVZ. There were no other nominations for the Under 22 Directorship so Currin made a motion that the Under 22 nominations be closed. It was seconded by Don/KB8RAD and approved. Don/W8BQD nominated Erv for the Board again and he accepted. Bernie nominated Julie/KB8ZXR and she accepted. Currin nominated Joe but he refused, as he will not be able to attend the meetings due to other commitments. Erv nominated Chuck/N8CM, who has expressed interest in serving on the Board,

(CMARC Meeting Minutes Con't...)

and he accepted. As no one else was interested in running, and there were no other nominations, a motion was made by Currin to close the nominations until the December meeting. It was seconded and approved.

Bill/KB8ZRE gave us a report on the results of JOTA (the Boy Scouts "Jamboree On The Air"). He said that 63 Boy Scouts showed up for JOTA and that 35 of them had earned their Radio Merit Badge. By earning these badges, they have most of what they need to get their Technician Class Amateur Radio license. Bill said that the majority of the Amateurs that helped out this year were from CMARC. They were Mike/KC8DBP, Rod/KC8HGF, Pam/KB8PSF, Joe/N8VYS, John/K8XD, Cary/KC8JKA, Roger/KC8CGH, Larry/N8VEN, Jaymes/KC8DJH, and John/AA8LF. Pam/KB8PSF added that they were the largest JOTA in Michigan.

DRAWING WINNERS: The drawing winners were: Erv/W8ERV, who chose 2 tickets to the Fort Wayne Ham Fair (he and Bill/KB8TTS are going so they can talk to the vendors regarding our Ham Fair 2000.); Dan/W8BCI, who chose a toolbox; and Roy/N8GAQ, who won a smoke detector and a flashlight.

BREAK: We took a small break and got to eat delicious fudge cookies (with chocolate chips and walnuts) that John/N8LLC's wife, Karen, made... and boy were they GOOD!! We also sold 11 cans of pop that were leftover from Ham Fair and the money was given to LCDRA's new Treasurer, Dan/W8BCI, so it could be counted in the Ham Fair totals.

George Race/WB8BGY, ARRL Great Lakes Division Vice-Director, who was our guest speaker for the evening, presented certificates from the National Weather Bureau to several Club members who took part in a Safety Fair. They were: Don Tillitson/WB8NUS, Jeremy Sevrey/KC8EIA, Bill Cote/WD8NYW, Phil Dowker/KC8FXS, and Mike Sanders/KC8FCA.

George praised CMARC and LCDRA for their fantastic success with Ham Fair '99. He said it was really great to see that we actually grew and made a nice profit, what with so many swaps having to be closed down these days due to lack of volunteers and poor attendance. He said he thought our idea to move to a larger location was a good one and wished us well. George then gave us a rundown on the many things ARRL has been doing for Amateur Radio lately. As usual, it was very interesting. Afterwards, he gave us a chance to ask questions and discuss some of the topics he covered. George is a very popular speaker at CMARC, and his visits with us are always welcomed. Several members wished George well on his nomination for the Great Lakes Directorship position.

A motion was made by Currin/W8FSZ to adjourn. It was seconded by Bernie/N8PVZ and approved. The meeting adjourned at 9:48 p.m.

Julie McLain/KB8ZXR-Secretary

THANKS TO YOU... WE DID IT!!!

Because of YOU... Ham Fair '99 was a BIG success!! Just in case you haven't heard, this was the BEST Ham Fair we have had in 4 years! Our total profit of \$2,087.32, divided equally by CMARC and LCDRA, means that each group gets \$1,143.66. The kitchen crew will be proud to know that we made a profit of \$223.20 this year on the food concession compared to last year's \$40. The President and Board of CMARC wish to thank everyone that volunteered their time and energy in working on Ham Fair '99. They were: Jane/KC8FSK; Joyce Clark; Forrest/N8PWD; Coleen/KC8BOD; Scott/N8YRN; JoAnn Defeyter; Mary Lou Tillitson; Don/WB8NUS; Jessica Migrant; Jeremy/KC8EIA; Phil/KC8FXS; Tyler/KC8LWG; Julie/KB8ZXR; Don/KB8RAD; Erv/W8ERV;

John/N8LLC; Pam/KB8PSF; Joe/N8VYS; Randy/KC8IHV; Juan/N8YQR; Scott/W8SRN; Clint/KC8EHR; and Bill/KB8PQP. (These names were taken directly off the Ham Fair sign-in sheet, so if your name is not listed, please let the Secretary know and she will publish your name in the December minutes. We want everyone to know you helped and that your work is appreciated!)

We also wish to thank all those who donated gifts to the Ladies Table, and special thanks go to Donna Enfield, who is Don/WB8NUS and Mary Lou's daughter. Donna, who works at Christian's Greenhouse, sold us a lot of nice things at a really great price and we really appreciate all she has done for our Club. She is also the one who grows the "Ladies Night Banquet" plants each year that are given to the ladies that evening to take home.

Thirty-three people left the Ham Fair with a smile, as they were door prize winners. The happiest of them all was Mike Perez/N8OUN, who won the Grand Prize (an Alinco 2m HT). Mike had just left the Fair when his ticket was drawn, and a call was made on a local repeater to give him the good news. He immediately headed back to claim his prize (obviously quite happy to use it as an excuse to postpone mowing his lawn!). With him were his wife, Esther/N8OUM and their 10-year-old daughter, Elizabeth. Mike said he was giving the HT to Elizabeth, who is studying "Riding the Airwaves with Alpha and Zulu". She hopes to get her license soon so she can begin using her new HT for talking and NOT just listening. Congratulations Mike and Elizabeth! Once again, THANK YOU, all that were involved, for making Ham Fair '99 such a huge success!!

Julie McLain/KB8ZXR-Secretary

Local & Special Interest News

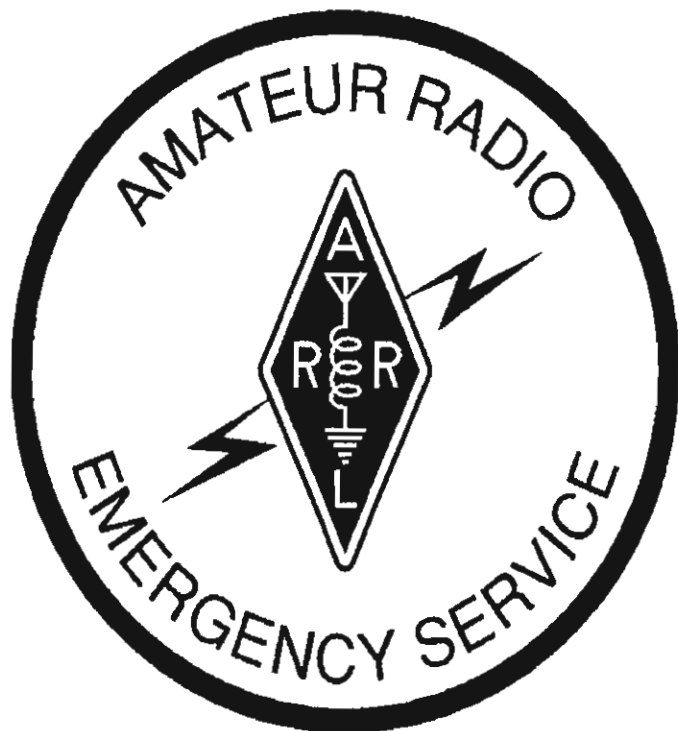
The Secret is OUT!

Well, one of CMARC's best-kept secrets is out and the word has finally spread throughout the greater Lansing area... our VE Team is ready, willing, and available on a REGULAR bimonthly schedule (odd months) to do their utmost in providing testing for those wanting to earn their Ham Radio license, or upgrade an existing one.

Now that it has become common knowledge that we are testing consistently at a regular time and location, the number in attendance has been steadily growing. We had our largest turnout yet this year on November 13th, with eleven people showing up to test, and five of those earning their licenses! All in all, it was a very successful session. CONGRATULATIONS go to Sue Motz, who earned her Novice license; Alice Mailhot, who earned her Technician; Bill Hamilton, who got his Technician Plus; Steven Campos, who scored his Technician; and last but certainly not least, Tom Shaver (the Lansing Emergency Preparedness Director), who earned his Technician Class license!! Two others of those testing passed some element towards their Amateur license or an upgrade. They were Rod Dean, who passed his Novice written; and Erv Bates/W8ERV, who passed his Advance written.

Once again, a big "THANK YOU" goes out to VE Liaison Larry Nordeen/N8VEN, and the Volunteer Examiners on his team, who made this all possible. They were Don McLain/KB8RAD, John LaRock/K8XD, Joe Denomme/N8VYS, and Gus Kouklis/K8KU. Also in attendance, as non-VE helper, was Julie McLain/KB8ZXR.

Julie McLain/KB8ZXR-Secretary



BIRTHDAYS & ANNIVERSARIES

- 11 – Russ Fitzgerald/N8FZ's 38th Bday!
- 13 – William Torrence/KC8ALL's 51st Bday!
- 17 – Jack Wiswasser/WA8IAL's 63rd Bday!
- 18 – Ralph Chapman/WA8NHD and Wife's 46th Anniv.!
- 20 – John Kelly/AA8LF's 43rd Bday!
- 20 – John McEnhill/KB8LBT's 57th Bday!
- 21 – Bill/WD8NYW and Gloria Cote's 8th Anniv.!
- 24 – Tom Tabler/W8WZH and Wife's 8th Anniv.!
- 27 – Charles Stahl/N8DWI and Wife's 51st Anniv.!
- 30 – Bob Benko/N8TNT's 32nd Bday!
- 30 – Bill Russell/WA8RZJ's 63rd Bday!

The Little Red Hen

One Summer day the little Red Hen found a grain of wheat. "A grain of wheat!" said the little Red Hen to herself. "I will plant it."

She asked the goose: "Will you help me plant this grain of wheat?" "Not I!" said the goose.

She asked the cat: "Will you help me plant this grain of wheat?" "Not I!" said the cat.

She asked the pig: "Will you help me plant this grain of wheat?" "Not I!" said the pig.

She asked the rabbit: "Will you help me plant this grain of wheat?" "Not I!" said the rabbit.

"Then I will plant it myself," said the little Red Hen. And she did. Soon the wheat grew tall, and the little Red Hen knew it was time to reap it.

"Who will help me reap the wheat?" she asked.

"Not I!" said the goose.

"Not I!" said the cat.

"Not I!" said the pig.

"Not I!" said the rabbit.

"Then I will reap it myself," said the little Red Hen. And she did. She reaped the wheat, and it was ready to be taken to the mill and made into flour.

"Who will help me carry the wheat to the mill?" she asked.

"Not I!" said the goose.

"Not I!" said the cat.

"Not I!" said the pig.

"Not I!" said the rabbit.

"Then I will carry it myself," said the little Red Hen. And she did. She carried the wheat to the mill, and the miller made it into flour. When she got home, she asked, "Who will help me make the flour into dough?"

"Not I!" said the goose.

"Not I!" said the cat.

"Not I!" said the pig.

"Not I!" said the rabbit.

"Then I will make the dough myself," said the little Red Hen. And she did. Soon the bread was ready to go into the oven.

"Who will help me bake the bread?" said the little Red Hen.

"Not I!" said the goose.

"Not I!" said the cat.

"Not I!" said the pig.

"Not I!" said the rabbit.

"Then I will bake it myself," said the little Red Hen. And she did. After the loaf had been taken from the oven it was set on the window sill to cool.

"And now," said the little Red Hen, "who will help me eat the bread?"

"I will!" said the duck.

"I will!" said the goose.

"I will!" said the cat.

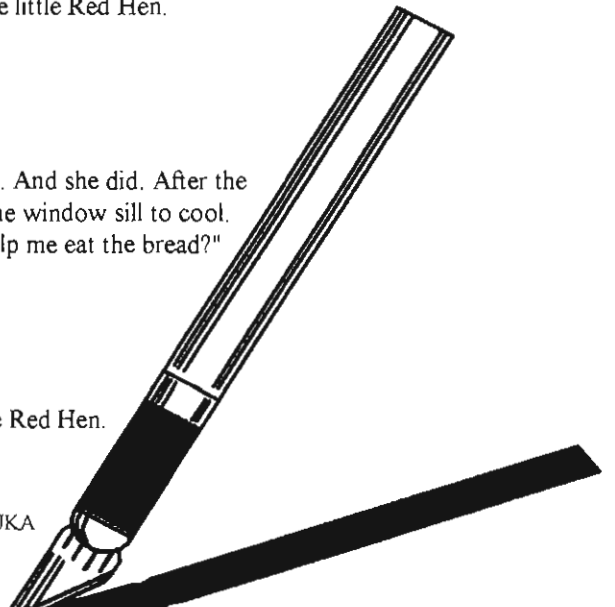
"I will!" said the pig.

"No, I will eat it myself!" said the little Red Hen.

And she did.

~Author Unknown~

Submitted by Cary M. Britten-KC8JKA



Central Michigan Amateur Radio Club Treasurer's Report

Account Balances as of October 1, 1999

ASSETS:

Cash & Bank Accounts	
Mich. Nat'l Bank Checking	\$715.38
USPS Postal Deposit	<u>\$270.74</u>
TOTAL Cash & Bank Accounts	\$986.08

Other Assets

Comerica Bank CD	<u>\$1,291.53</u>
TOTAL ASSETS:	\$2,277.61

LIABILITIES: \$0.00

TOTAL NET WORTH: \$2,277.61

Income & Expenses: September 10-October 1, 1999

INCOME

Coffee Fund	\$7.38
Dues	\$30.00
Directories	<u>\$0.00</u>
TOTAL INCOME:	\$37.38

EXPENSES:

SCOPE Mailing	\$0.00
HamFair Fliers Mailed	\$107.33
Club Meeting Food	\$31.51
John Crawford-Supplies	\$7.41
State of Michigan-NonProfit Filing	\$10.00
Service Charge	<u>\$0.00</u>
TOTAL EXPENSES	\$156.25
TOTAL NET INCOME	\$(118.87)

Respectfully Submitted,
Joseph Denomme-N8VYS, Treasurer

Central Michigan Amateur Radio Club Treasurer's Report

Account Balances as of November 5, 1999

ASSETS:

Cash & Bank Accounts	
Mich. Nat'l Bank Checking	\$637.16
Undeposited Funds	\$43.00
USPS Postal Deposit	<u>\$224.42</u>
TOTAL Cash & Bank Accounts	\$904.58

Other Assets

Comerica Bank CD	<u>\$1,291.53</u>
TOTAL ASSETS:	\$2,196.11

LIABILITIES: \$0.00

TOTAL NET WORTH: \$2,196.11

Income & Expenses: October 1-November 5, 1999

INCOME

Coffee Fund	\$0.00
Dues	\$50.00
Directories	<u>\$0.00</u>
TOTAL INCOME:	\$50.00

EXPENSES:

SCOPE Mailing	\$46.32
Supplies-Door Prize Tickets	\$7.00
Flowers-Jim "Cheech" Miller	\$65.72
John Crawford-Supplies	\$7.41
Service Charge	<u>\$12.46</u>
TOTAL EXPENSES	\$131.50
TOTAL NET INCOME	\$(81.50)

Respectfully Submitted,
Joseph Denomme-N8VYS, Treasurer

The '99 CMARC Board

The Y2K LCDRA Board

The SCOPE is published by the CENTRAL MICHIGAN AMATEUR RADIO CLUB in association with the LANSING CIVIL DEFENSE REPEATER ASSOCIATION.

Our CMARC Officers:

Pres: J. Ervin Bates-W8ERV ph: (517) 676-2710
 Vice Pres: John Crawford-N8LLC ph: (517) 393-2336
 Sec: Julie McLain-KB8ZXR ph: (517) 694-0812
 Treasurer: Joe Denomme-N8VYS ph: (517) 589-5263
 Dir: Don McLain-KB8RAD ph: (517) 694-0812
 Dir: Bill Mathews-KB8TTS ph: (517) 394-1198
 Under 22: Jud Gunderson-KC8IRG ph: (517) 321-7759
 Cards & Flowers Chmn.: Julie McLain ph: (517) 694-0812
 Membership Chmn.: John Ingraham-NG8L ph: (517) 484-8027
 Meetings: 1st. Friday of every month at the Red Cross, Lansing Chapter, 1800 E. Grand River at 8pm.
 Club Calls: W8MAA & W8PLP
 QSL & Awards Mgr.: Don DeFeyer-KC8CY
 Scope Editor: Cary M. Britton-KC8JKA email: KC8JKA@att.net
 Deadline for articles: 15th. of month.

Our LCDRA Officers:

Pres: Clint Hannahs-KC8EHR ph: (517) 882-1799
 Vice Pres: Don Clark-N8XME ph: (517) 669-4586
 Sec: Scott Newfer-W8SRN ph: (517) 381-8148
 Treasurer: Dan Harger-W8BCL ph: (517) 882-8784
 Dir: Hal Bell-W8LAY ph: (517) 484-0962
 Dir: Don McLain-KB8RAD ph: (517) 694-0812
 Repeater Trustee: Dennis Boone-KB8ZQZ
 LCDRA Call: WB8CQM
 Meetings: Bi-Monthly on the 3rd. Thursday at 7:30pm. at the Meridian Township Service Center, 2100 Gaylord C. Smith Court, Okemos

For Your Consideration...

The Holiday Season is upon us once again and it's time to reflect on 1999 and what it has meant to us. Not only as Amateur Radio Operators, but as people in general.

How many times have you heard the old axiom, "Where has the year gone?" We are allotted 365 days a year. Within those days, we are given 24 hours, with which we do what we will. In the final analysis, we will be judged (one way or another) by what we did with those 24 hours in each of those 365 days.

We are members of a great Hobby and active in community-based education, as well as service to those who need us. From SKYWARN, to RACES, assisting a motorist in distress, or aiding the American Red Cross when needed, ours is a truly unique way of life.. Regardless of age, race, creed, etc., our license class is earned.....and with that comes the respect of knowing we DID earn it. You can be eight or eighty, but if you are an Extra, you are afforded the privileges of that class.

We've worked hard for the last two years. We've tried to make a difference with those 11,480 hours. A NOTICEABLE difference at that. I can tell you, with all assurance, that we have succeeded. We are seeing new, younger faces coming into the group, willing to roll up their sleeves and get as dirty as those who have come before us. It's exciting, but the work is only beginning.

The year 2000 promises fantastic things for the Central Michigan Amateur Radio Club and we look forward to being a part of it. HamFair2000 comes to The Summit, in Lansing, promising a huge return on investment as we show other Clubs, "How It's Done!". Project 2000 will kick off early next year, as well as the celebration of our 50th Anniversary of ARRL affiliation. As if that weren't enough, In 2001, CMARC celebrates 80 years in the Greater Lansing area. Let's have fun, what do you say?

God Bless and keep you this Christmas Season and let's also remember WHY we celebrate.

Merry Christmas es 73, *Ernie*



Classifieds & Special Announcements

Lansing V.E. 2000 Test Dates

Testing is held at the Lansing America Red Cross, in the Kropschot Room
at 1800 E. Grand River; Lansing, MI 48909

Pre-registration starts at 9:30am and testing starts at 10:00am for the following dates:

VE Team's local contact is Joe Denommee-N8VYS at (517) 589-5263

1999 CMARC MEETING DATES

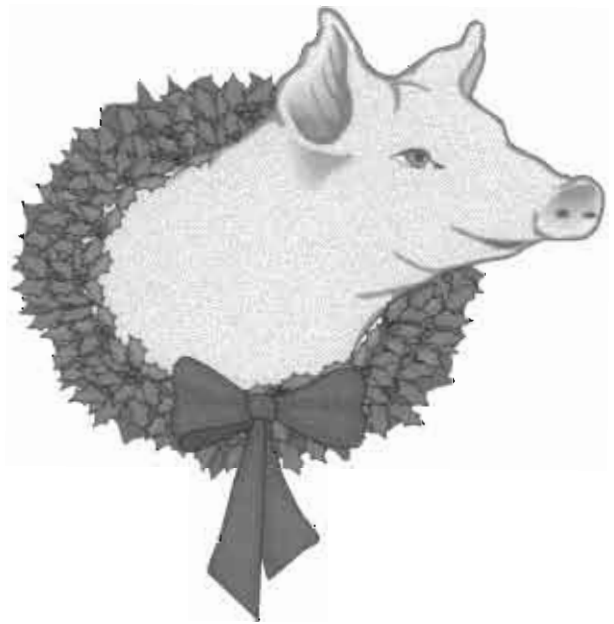
December 3rd - Nominations
Continue & Election of officers.
CHRISTMAS PARTY!

LCDRA MEETING

The next LCDRA meeting will be held at 7:30 p.m. on December 16th. The meeting will again be held at the Meridian Township Service Center located at 2100 Gaylord C. Smith Court in Okemos. The talk-in frequency will be 145.39 with a 100-Hz PL. Hope to see you there!

Corunna VE Testing

On the 4th Thursday of the month
at the Red Cross in Corunna, MI
(except for July, Nov. & Dec.)
Call in frequency is 147.020 +



For Sale

Radio Shack 2 meter handheld, HTX 202, 2 spare NiCd battery packs, used very little, still in the box with manual, \$150.

Radio Shack General Coverage receiver DX 394, similar in size and shape to the PRO-2035 scanner, \$135, in box with manual.

Azden, 6 meter handheld with brand new spare battery pack, box and manual included \$250.

Alinco DR 430 UHF FM transceiver with Motorola AC power supply, \$300.

All items are in excellent condition, contact WA8QJE, Ed Hude at 517-676-2241, weekdays between 9am-11am, or weekends 9am-7pm.

COMPUTER WORDS

BY WA8LAY

Word list



ATOM	ION
CIRCUIT	MATH
COLOR	METER
COMPLEX	METRIC
CURRENT	MOLECULE
DENSITY	OHM
ELECTRONIC	PARALLEL
EMF	POWER
ENERGY	PRINTED
FIELD	SERIES
FLUX	THEORY
FUSE	VOLT
	WIRE

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





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Central Michigan Amateur Radio Club

THE SCOPE

Lansing Civil Defense Repeater Association

Serving Our Community Since 1921

