



Central Michigan Amateur Radio Club

# THE SCOPE



Lansing Civil Defense Repeater Association

www.qsl.net/cmarc Serving Our Community Since 1927 May 1999

## FCC ISSUES

### STRENGTHENED SCANNER RECEIVER RULES

The FCC has amended its rules to strengthen existing prohibitions on scanning receivers that can receive cellular telephone transmissions. While the new rules contain specific exemptions for the Amateur Service, they will have important ramifications for the manufacture of new Amateur Radio equipment that scans frequencies outside the ham bands.

The new rules--released March 31 in a Report and Order--broaden the definition of a scanning receiver to include receivers that automatically switch among two or more frequencies between 30 and 960 MHz that can stop at and receive a detected signal. Still exempted are receivers designed solely for operation as a part of a licensed station. In response to an ARRL request, the FCC clarified that the rules do not apply to Amateur Service receivers unless they cover frequencies outside the ham bands.

The FCC also widened its definition of "test equipment" exempted from the cellular reception restriction. The adopted definition defines test equipment by function, rather than by end user as proposed, thus permitting sale to the general public.

Receivers that allow reception of cellular frequencies because of their poor image response would be illegal under the new rules. As it proposed, the Commission adopted a 38 dB rejection standard for signals in the cellular bands "for any frequency to which the receiver can be tuned."

The FCC abandoned a proposal to require manufacturers to limit reception of cellular service frequencies by "direct pickup" through the cabinet. The FCC also backed away from a proposal that could have required epoxy potting and nonremovable components to prevent scanner modification. The League had argued that this could raise the cost of buying and repairing equipment and could preclude ham gear modification for CAP and MARS or for experimental purposes.

The FCC adopted a more generalized requirement that receivers be designed so that tuning, control circuits, and filtering be inaccessible, and that any attempted modifications render the receiver inoperative. *ARRL Newsletter April 9, 1999*

## SOLAR UPDATE

Solar savant Tad Cook, K7VVV, Seattle, Washington, reports: Solar activity perked up a little bit this week, with average solar flux rising almost 15 points to 118.9 and average sunspot numbers up over 40 points to 89.6. The reporting week (Thursday through Wednesday) began with unsettled geomagnetic conditions, and a planetary A index of 14. One year ago the average sunspot numbers were 89.4, about what they were this week, and average solar flux was 121.8, 10 points higher than this week.

K6UJ wrote to ask about A and K indices and what they mean. This is a frequently asked question. The K index is updated every three hours, and you can hear the latest number on WWV at 18 minutes after the hour, or hear it any time by telephone at 303-497-3235. The K index is a measure of geomagnetic instability, and the higher the number, the greater is the absorption of radio signals, especially over polar paths. A one point change in K is a big change. Every day there is a new A index, and it is based on the K index for the previous 24 hours. A one point change in the K index results in a large change in the A index.

If the K index is 0 for all eight reporting periods in a day, then the A index is 0. If the K is 1, the A is 3; if the K is 2, the A is 7; if K is 3, the A is 15; if K is 4, the A is 27; if K is 5, the A is 48, and so on. If the K is 9 for 24 hours, the A is 400.

For April 9-11, look for a solar flux of 140, 139 and 135, with a planetary A index of 10, 10 and 8. Look for the solar flux to drop below 130 after April 15, below 120 a few days later, bottoming out below 115 from April 23-25. It should rise above 120 after April 29, and to 130 by May 4. Look for active geomagnetic conditions around April 25, continuing with unsettled conditions through May 1.

Sunspot numbers for April 1 through 7 were 59, 50, 77, 90, 111, 119, and 121, with a mean of 89.6. The 10.7-cm flux was 103, 99.5, 102.7, 115.9, 132.6, 137.4, and 141.4, with a mean of 118.9. The estimated planetary A indices were 14, 10, 8, 13, 11, 9, and 9, with a mean of 10.6. *ARRL Newsletter April 9, 1999*



# National Ham News

## SWATCH INSISTS "BEATNIK" MESSAGES "NOT ADVERTISING"

The CEO of the Swatch Group Ltd says messages to be transmitted on 2 meters by the soon-to-be-launched Sputnik-99 satellite are "not advertising" but part of the watchmaker's campaign to institute the "Swatch beat" as an international unit of time measurement. Replying to the League's suggestion to scrap the launch, Swatch Group CEO Nicolas E. Hayek said if anyone profits from the so-called "Beatnik mission" satellite, it will be the Amateur Radio community "who will gain much more recognition worldwide for their important work."

On April 7, League Executive Vice President David Sumner, K1ZZ, suggested that Swatch cancel the launch of the so-called "Beatnik" satellite and use a commercial satellite for its project instead. "The Amateur Radio community must stand against the 'Beatnik' satellite because it represents such an undesirable precedent," Sumner said. He cited international regulations defining the Amateur Service as one engaged in by "duly authorized persons interested in radio technique solely with a personal aim and without pecuniary interest."

In his faxed reply April 8, Hayek indicated the company planned to go ahead with the mission, despite the League's entreaty and numerous complaints from within the amateur community. He said the more than 400 messages programmed into the mini-Sputnik are not to advertise the company's products but to promote the company's concept to "improve time coordination in a separate and new way between all parts on Earth"--something, he said, that should interest hams.

An increasing number of voices within the amateur community have been raised in protest against plans for the "Beatnik mission." Rob Carlson, KC2AEI, has opened a "Swatch Protest and Boycott" site on the Internet at <http://wmbc.umbc.edu/rob/swatch-protest/> to collect opinions and as a clearing house for information on the topic.

Acknowledging "negative reactions from a few radio amateurs regarding the Swatch beatnik satellite project," Hayek said Swatch has received many more positive ones from "other interested users." Some of the e-mail messages are posted on the company's Web site, <http://www.swatch.com/beatnik/frameset.html>. Swatch also has opened an e-mail comment box on its Web site to gather opinions on "Should we send your messages into space?"

Swatch solicited more than 5000 messages via its Web site, including voice and text files, for possible transmission on the new satellite. Messages selected for use were supposed to include a reference to the "beat" theme.

Hayek said he planned to again review with Swatch management "what can be possibly done without jeopardizing the aims of the mission" while also not offending amateurs, and invited continuing dialogue with the League. Sumner expressed disappointment that Swatch has not yet decided to change course, but he welcomed the opportunity for further dialogue.

AMSAT-France, which contracted with AMSAT-Russia to build the electronics for the soon-to-be-launched mini-Sputnik, has since distanced itself from the project and apologized for its involvement. AMSAT-Russia President Eugene Labutin, RA3APR, also has apologized, saying the arrangements with Swatch were made without AMSAT-Russia's knowledge.

The new Sputnik-99 satellite arrived on Mir aboard a Progress rocket April 4 and is tentatively set for launch April 16 during a space walk by the Russian Mir crew. It will carry a 100-mW transmitter and transmit on or about 145.815 MHz. The satellite will have an approximately 30-day life span. *ARRL Newsletter April 9, 1999*

## ARLB023 FCC says reciprocal permits now "paperless"

The FCC is advising applicants for reciprocal operating permits that an application is no longer required. Under new ULS rules that took effect February 12, the FCC Form 610A has passed into history. The new rules also will pave the way for US hams to more easily operate in most of Europe. The FCC is expected to issue a Public Notice in the near future that will spell out the details.

Alien visitors to the US holding an amateur license issued by their home country may operate in the US without submitting any FCC paperwork-provided that a reciprocal operating agreement is in effect between the two countries. The only documentation required is proof of citizenship and an Amateur Radio license issued by the country of citizenship. These arrangements are similar to longstanding arrangements between the US and Canada.

The new rules move the US a step closer to participation in the licensing arrangements of CEPT, the European Conference of Postal and Telecommunications Administrations. The US State Department applied for US participation in 1997, and the request was approved in early 1998. Completion of the final steps to make this a reality is understood to be imminent. These include formal US notification to the European Radiocommunications Office that it is prepared to carry out its responsibilities under CEPT Recommendation T/R 61-01, and the issuance of a Public Notice in English, French and German.

Under the CEPT arrangements, a US Technician licensee will be recognized as holding the equivalent of a CEPT Class 2 (VHF-only) license. Holders of Tech Plus through Extra tickets will have the full HF and VHF privileges of a CEPT Class 1 license. Novice licensees will not be eligible.

Additionally, the ARRL has informed the US State Department that it plans to go forward in April with arrangements to issue International Amateur Radio Permits to US hams in accordance with the CITEL Amateur Convention, signed by several countries in the Americas. The League has offered its services to issue IARPs to US hams. An IARP is not a license, but it certifies the existence of a license.

The new rules will not change the procedures for US hams wishing to operate overseas in countries that are not CEPT members or CITEL Amateur Convention signatories. *ARRL Newsletter April 9, 1999*

# *Local & Special Interest News*

## **The Scott M. Burgess Composite Squadron of the Civil Air Patrol,**

United States Air Force Auxiliary, is located in the Lansing area. The Civil Air Patrol has a long history of service to our nation and our community. The missions of the Civil Air Patrol include emergency service, aerospace education and cadet programs. The Civil Air Patrol has an aerospace education outreach program to introduce the study of aerospace subjects in area middle and senior high school by augmentation of the schools science programs with exciting new information.

The Cadet Programs of CAP are structured to meet the needs of youth today. Lessons in responsibility and resourcefulness surround a carefully planned program of experiential learning in the physical sciences.

Civil Air Patrol is best known to the public for its search and recovery work. Every year CAP members train for the time when they will be required to seek and find victims of air mishaps, lost children or lost hunters. Air and ground search and recovery teams are on constant standby to render assistance in search or disaster relief missions.

The Scott M. Burgess Composite Squadron has a need for assistance. An undertaking such as CAP always has a need for members to join in this community service effort. Pilots, teachers, administrators, radio operators and general service members are needed. We train those who have a true interest in one or more of our missions.

Amateur radio and Civil Air Patrol have always had a special relationship. Scratch many of the CAP Communications Officers and you will find a HAM underneath. CAP communications use military HF and VHF frequencies which are just out-

side the HAM bands. For years, experienced HAM radio operators have served in technical and traffic handling positions. Radio operators are needed to aid in all missions of CAP.

A special need we have may be of interest to amateur radio operators. CAP operates on a limited number of frequency assigned to them. Unlike amateur radio, which has hundreds of frequencies to use on VHF, CAP has use of only a half dozen frequencies between 148.00 and 149.989 MHz.. Much of the equipment still in use by CAP is ten or twenty year old HAM equipment. Much of that is old crystal controlled equipment which works great for CAP use. We do need more radio equipment. Our Squadron is looking for several more, older, mobile or hand held two meter VHF-FM radios to complete our communication net. It is especially difficult for Cadet members to rally resources to own their own VHF asset. Donated equipment could be used for issue for the better part of the decade. Other two meter equipment, such as gain antennas, masts, power supplies, and test equipment. may be fit the needs of our mission also. We even have an application for a few crystal controlled CB transceivers.

As a charitable organization, CAP can receive donations of used equipment and acknowledge such with a donation receipt inline with the value of the equipment.

If you would like more information on participation as a senior or cadet member of the Civil Air Patrol, please call LTC Kay McLaughlin at (517) 224-1990 or plan to attend one of the Burgess Squadron meetings each Wednesdays, 7:00 PM at the Army Reserve Armory (next to the Red Cross) in Lansing. Radio equipment donations, please contact 1LT Roy Uchigashima (N8GAQ) or call 1LT Jerry Rocho (WD8RDB) at (517) 694-9622.

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## **FORGET TO PAY YOUR DUES???**

It has come to the attention of the Board that a ridiculous amount of CMARC members (a list three pages long!!!) have failed to pay their dues for 1999. We know that it is easy to forget things, with the hustle and bustle of our every day lives in the fast-paced world that we live in, but COME ON PEOPLE...the membership dues were due in JANUARY! It should be obvious to all that we cannot function as a Club, or provide the services to our community that we would like without the financial participation of our members. So, now that the Christmas shopping is over, the New Year's parties are through, and tax time is just another unpleasant memory, let's dig down in our pockets and renew our memberships. Not only will you be helping the Club, but you will also ensure the continued mailing of your Scope—something that is about to come to an end for those who have not paid their dues. THANK YOU for giving this matter your immediate attention!

Julie McLain/KB8ZXR-Secretary



# *A Review of Local SKYWARN Procedure*

Jaymes S. Kenyon-KC8DJH

The SKYWARN program, instituted in the early 1970's, was created by the National Weather Service (NWS) to support efforts to better forecast and warn of hazardous weather events, including severe thunderstorms, tornadoes, floods and flash floods. Along with modern Doppler radar, satellite data, lightning detection data, and automated surface observations, the trained SKYWARN spotter provides real-time information on severe weather occurrences. The trained eye of a spotter is, has been, and will continue to be one of the most valuable assets of the NWS to warn the general public of hazardous weather. It is a fact that several thousand lives have been saved over the years thanks to the service of local SKYWARN spotter networks across the nation.

This was compiled to review SKYWARN net procedures and guidelines that have been established in the Lansing area. Please take a moment to review and familiarize yourself with these if necessary.

## **DURING THE EVENT**

1) When a severe thunderstorm/tornado watch is issued by the SPC (Storm Prediction Center, located in Norman, Oklahoma, a special part of the NWS) for the Lansing area, then local trained SKYWARN spotters wishing to participate should prepare for a possible severe weather event.

When the watch takes in effect, a local SKYWARN net will likely be activated by the net control operator. Usually, trained spotters wishing to participate notify the net control operator of their location and any other important information.

If thunderstorms develop within the net area, then spotters should begin to report any severe weather related observation to the net control operator. The net control operator will discern the reports and pass them on to the NWS if necessary.

2) If the situation continues to progress, then the local NWS in Grand Rapids will issue warnings of some type if warranted by radar or actual reports. If a warning is issued, then severe weather is IMMINENT in the specified county(s). Reports of all types may begin to pour into the net from spotters. TO KEEP THE NET RUNNING SMOOTHLY, EFFICIENTLY, AND EFFECTIVELY, PARTICIPATING SPOTTERS ARE ENCOURAGED TO FOLLOW THESE GUIDELINES:

a) **RESERVE THE FREQUENCY FOR TRAINED SKYWARN SPOTTERS.** This helps assure the integ-

ity of the observations. The NWS assumes that the data they receive is from trained personnel. Treat the event as an emergency NWS operation to assist the NWS and the community, and please reserve the frequency for qualified spotters.

b) **DO NOT REPORT GENERAL PHENOMENON** that is always associated with thunderstorms, such as rainfall, lightning, thunder, etc. Such reports are not necessary and take up time on the air, preventing more important reports from being relayed.

c) **DO REPORT SEVERE WEATHER RELATED PHENOMENON** that is described in training and in supplemental material. These reports are essential to the NWS when issuing warnings and confirming special radar signatures.

d) **DIRECT ALL INQUIRIES TO THE NET CONTROL OPERATOR.** It is the duty of the net control operator to direct the net, coordinate spotters, disseminate information, and announce NWS statements.

e) **BE AWARE OF THE SITUATION.** Listen to the reports of other spotters. If what you're experiencing is of less priority than what is occurring in another area, then please yield the frequency to the spotters with the most urgent reports.

f) **KEEP TRANSMISSIONS AS BRIEF AS POSSIBLE.** Brief transmissions keep the frequency open to other reports. The reports with the most priority should have the most air time.

... following these guidelines helps the net be a better service to the NWS and the community. Individual discipline makes the experience more manageable for everyone involved. The efforts of each spotter are certainly appreciated! Cooperation within the net is what sets the SKYWARN program ahead.

**AFTER THE EVENT:** When the net control operator feels that the severe weather threat has passed, he/she will stand down the net. At that point, the frequency is open to general use.

**NOTE TO ALL LANSING AREA SPOTTERS:** The Lansing area SKYWARN net will now operate on the 145.39MHz repeater.

Under the direction of the net control operator, a designated liaison operator will communicate between the local net and the NWS via the Lowell 145.27MHz (94.8Hz tone input) repeater.

# A Special Thank You...

Independent Repeater Association, Inc.  
562 92nd Street S.E.  
Byron Center, Michigan 49315

February 11, 1999

Lansing Civil Defense Radio Amateur Club  
c/o Dan Hartger, W8BCI  
6432 South Washington Rd.  
Lansing, MI 48911

Dear LCDRA,

On behalf of the IRA, I would like to thank LCDRA for all the positive support and assistance in having the 146.94 link repeater in Lansing, and more recently, assisting with the installation of the 145.47 repeater at Onondaga which is working very well. Also, thank you very much for the financial assistance in the form of your \$500 donation to the IRA to help offset the expenses of installing the antennas at Onondaga, which cost \$950 because it took three attempts and finally happened in early December!

As you probably know, the 145.47 repeater in Onondaga resulted from a fairly large cooperative effort between many hams occurring over a long period of time (over two years).

First, there were the plans and approvals needed regarding the WILX TV tower site which took almost a year. The efforts of W8BCI and others need to be recognized. There was a 3-party agreement necessary between CASCADES (a Jackson Club), KA8HDY and the IRA in shifting two repeaters around in Jackson. Then there was the antenna and hardline installations on the WILX tower (after assistance in obtaining the hardline through W8BCI's efforts). We understand that LCDRA paid \$245 and W8HVG contributed \$120 for all the hardline. The antenna installation project took three weekends and was successful largely through much help from LCDRA (W8HVG furnished 3 great lunches). The IRA bought the antennas and made the mounting brackets. Then there was extensive equipment preparation and modifications, duplexer tuning, and equipment checkout before it was installed on December 19th (many days and weekends spent by K8YYC and W8HVG), and the subsequent 'fine tuning', i.e., changing the power supply and RF amp by W8HVG and W8BCI.

People using repeaters sometimes don't have an appreciation for what it takes to install and operate one. I hope the above snapshot helps to portray some of the activities that occur. Thanks to your club's support, and many other hams, the Onondaga link repeater appears to be a classic example of what ham radio is about.

Thanks from the IRA,

*Abe*  
Ray Abraczinskas, W8HVG  
IRA Trustee

P. S. Here's an updated map for your club.

# For Your Consideration...

*Will the youth of our Hobby find enough to keep their interest piqued, or will we see an end to Amateur Radio (as we know it), in the coming millennium? Quite a sobering thought, considering the birth of our beloved came in the early 1900's! And yet, if we aren't careful, we could see it fall by the wayside.*

*Oh, you've read the stories.....don't act so shocked. How Amateur Radio, once on the cutting edge of technology, is faltering as it ages. We've already covered the average age of today's Ham (63) so we don't need to go back there, but we DO need to look at the WHY in this situation. Is it aging Hams, or just dry, old ideas? That's for you to decide. I can tell you this much....it takes more than common everyday kits and gadgets to woo today's young people.*

*For goodness' sake, look at the video games our children, grandchildren, nieces and nephews play today! Go back only 15 years and the big boy on the block was ATARI. Now, it's Nintendo 64, Sega Saturn and a ton of others that make the pixel-bound toy I grew up on look sick. Taking this into account, ask yourself what would be a draw for younger members. Activities? Maybe, since "the Mall" is also falling outside the popularity circle. Realism? Well, when the TV feeds our offspring a steady diet of blood and gore, which is then supplemented by those realistic video games we mentioned, it is possible. I really can't answer this, but perhaps we CAN offer them something new, fresh and exciting.*

*With thanks (again) to John LaRock (K8XD), the younger members of the Central Michigan Amateur Radio Club will have more to look forward to. John is planning some potentially exciting things for them and all I can tell you now is that I may even be tempted to tag along...uh.. strictly in an "official capacity", of course. Among them, John and I have discussed a trip to at least one lighthouse located in Michigan for a "Local DXpedition". For those that haven't heard, there is talk of making contacts with these landmarks (many of them VERY old!) as significant as an island contact. Now, maybe that doesn't seem REALLY BIG, but if we have five young people who were the FIRST to make such a "DXpedition" happen to that lighthouse, think of the publicity, the memories and the impact it could make. Anyone can go to an island, but at the dawn of this plan, it seems obvious that they MUST do it.....and fast!*

*Under 22 Director, Jud Gunderson (KC8JRG) is pivotal to these plans, too. Not only is Jud on the front row, he is still young enough to have his opinion swayed one way or the other. And, as the youth mature, there seems to be a time, usually around the high school years, when Amateur Radio shines just a little less. Maybe it's because dating and other activities take on new importance, but if we make a favorable impression NOW, they can always come back, when life is a little less hectic (if they leave the Hobby for a while). This speaks nothing of the others who have been and who are coming in these days. You, the youth of CMARC are vitally important to us, for you are the future of Amateur Radio! I don't say those words lightly, either. We will depend on you to lead us in the not-so-distant future, so it is important that you learn how NOT to make Amateur Radio boring, by vehemently avoiding mediocrity and ALWAYS being willing to try something new. So what if we haven't ever done it before?! Dare to Dream and you will see endless possibilities come your way.*

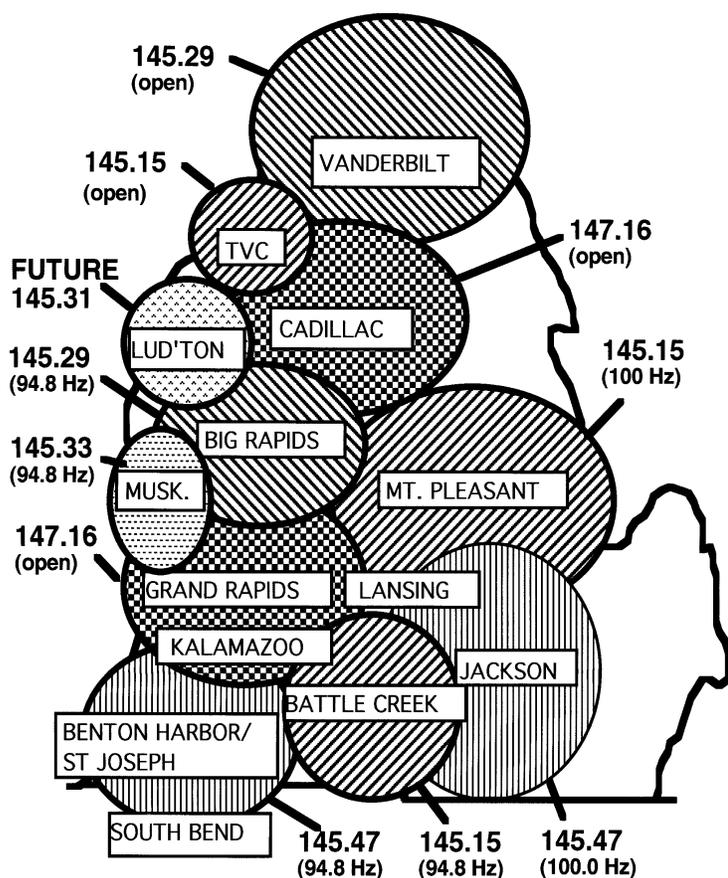
*We have the tools to keep this Hobby from dying, but to make it all come together, we need to be willing to go the distance. To find the "not-so-obvious" treasures that make Ham Radio so much fun.*

# Classifieds & Special Announcements

## 1999 CMARC MEETING DATES

May 7th - No meeting at the Red Cross. As usual, we will be holding the Ladies Night/Awards Banquet. **June 4th** - Field Day discussion, **July 9th**, **August 6th**, **September 10th**, **October 1st**, **November 5th** - Nominations, **December 3rd** - Election of officers

## I.R.A. Repeater Map



## 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

Kenwood TM-733A Dual Bander Mobile \$275.  
Don Clark-N8XME at (517) 663-4586



## Lansing V.E. 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:

Mar 13, May 8, July 10, Sept. 11 & Nov 13, 1999

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

## The '99 CMARC 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: Jim "Erv" Bates-W8ERV ph: (517) 676-2710  
Vice Pres: John Crawford-N8LLC ph: (517) 393-2336  
Sec: Julie McLain-KB8ZXR ph: (517) 694-0812  
Treasurer: Bill Mathews-KB8TTS ph: (517) 394-1198  
Dir: Don McLain-KB8RAD ph: (517) 694-0812  
Dir: Joe Denomme-N8VYS ph: (517) 589-5263  
Under 22: Jud Gunderson-KC8IRG ph: (517) 321-7759  
Cards & Flowers Chmn.: Kimberly Carpenter ph: (517) 332-4719  
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. Britten-KC8JKA email: KC8JKA@att.net; ph: (517) 482-8048  
Deadline for articles: 15th. of month.

## The LCDRA Board

### Our LCDRA Officers:

Pres: Clint Hannahs-KC8EHR ph: (517) 882-1799  
Vice Pres: Don Clark-N8XME ph: (517) 669-4586  
Sec: ??????????  
Treasurer: Don Tillitson-WB8NUS ph: (517) 321-2004  
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

## CMARC BOARD MEETING

April 9, 1999

President Erv/W8ERV brought the meeting to order at 7:35 p.m. All Board members were present except for Judd/KC8IRG. Also sitting in on the meeting were Dennis Boone/KB8ZQZ; Erv's wife, Laurie and their baby daughter, Michelle "Mickey"; and John LaRock/K8XD and his wife, Mary LaRock/KC8FCX.

Erv read a letter from the ARRL approving our request for holding an ARRL sanctioned Ham Fair on Oct. 10, 1999. They will also be sending some of their publications to be used for our door prizes.

Erv introduced John LaRock/K8XD who has volunteered to assist Judd/KC8IRG in working with the Under

22 members. They plan to have events and programs that will be of interest to the younger members and maybe get them more involved in the Club.

Erv gave us an update on the Auction we will be holding on Saturday, August 21st. The profits made will be used to purchase Ham Fair prizes, etc. He showed us the cover letter he typed up along with a sponsorship agreement, and a personal contact list for tallying the donations. Erv has a lot of ideas for making this a success and is excited about some of the donated items he has been checking into.

The Secretary said she talked to Pam at the Boy Scout Council and Camp Kiwanis is reserved for Field Day, June 26th and 27th. She also reserved the Camp for June 2000.

Erv also said that he wants to get "Project 2000" implemented in the next couple of months. "Project 2000" is an idea he has developed to acquaint the over 500 Hams in

the greater Lansing area (many of whom have never even heard of CMARC, let alone belonged) with our Club. We will be mailing a letter of introduction to them, explaining a little about CMARC and inviting them to visit one of our meetings.

Erv announced that Paul Carpenter/KB8YQW and his employer (Main Street Graphics) made and donated 12 arrow signs along with stands, to our Club for the upcoming Ham Fair. The Board really appreciates their donation and the Secretary will write them a "Thank You" letter.

Dennis/KB8ZQZ gave us a brief update on the Ham Radio Classes we will be sponsoring and said that it looks like they will be starting in September at MSU. There is room enough there and equipment that can be used at the MSU Amateur Radio Club, as well as plenty of parking

available for Saturday classes.

We went briefly over announcements that needed to be covered in the regular meeting to follow, and then a motion to adjourn was made by Don/KB8RAD. John/N8LLC seconded the motion and the meeting adjourned at 7:57 p.m.

Julie McLain/KB8ZXR-Secretary



## CMARC MEETING

April 9, 1999

President Erv/W8ERV brought the meeting to order at 8:05 p.m. We had 52 members and 24 visitors in attendance for a total of 76! OUR VISITORS were: Cameraman Dave Jones and reporter Lauren Stanton from WLJ TV-53; Daniel Musall all the way from Grand Rapids; Tim Crawford (N8LLC's son), who is working on getting his license; Ryan Noyes; Tom Shaver from the Emergency Management Office; Marie Watson; Rob Dale/N8GSK who is WLNS TV-6's new meteorologist; Mike Kovalchick; John LaRock/K8XD and his wife Mary/KC8FCX; Charles Higelmire/WD8MBB;

Clairus Dunn; Steven Waldron (KA8SDW's son); Terry Decker/W8TLD; Brent Kleinfelder; Tim Drawbridge from WSYM TV-47; Jim Harvey/KA8DDQ; Scott Stap/N8YRN and his wife Coleen/KC8BOD; the President's wife and baby daughter, Laurie and Michelle "Mickey" Bates; and George Wetzel and Kevin Greene, meteorologists from the Grand Rapids office of the National Weather Service.

ANNOUNCEMENTS: Sunday, April 18th will be the annual MS Walk-a-thon. If interested contact Don Tillitson/WB8NUS at 321-2004.

Wednesday, April 21st from 6-8:30 p.m. is "Science Night" at Ralya Elementary School in Haslett. This is a fun night for both students and parents, so bring the family while you help with the Ham station. We would like to have a UHF/VHF and HF station, and also a code oscillator so everyone can try their hand at CW. Satellite tracking and anything else you're interested in is possible if there are enough Hams willing to volunteer their time! We also need help setting up and tearing down the equipment used at the event. If interested in helping, please contact Joe/N8VYS or Pam/KB8PSF at (517) 589-5263.

Saturday, April 24th will be the "March of Dimes Walk-a-thon". If interested in helping, please contact Don Tillitson/WB8NUS at 321-2004.

Sunday, April 25th at 2 p.m. will be another Ham Fair Planning meeting. We will be holding the meeting in the McCall Room of the Red Cross Bldg. which is located on 1800 E. Grand River in Lansing. Volunteers are needed to make our Ham Fair a success. Please be sure to attend!! Also, mark your calendars for these other important Ham Fair Planning meetings, held at the same time and location: Sunday, May 23rd; Sunday, August 29th; Sunday, September 19th;

and Sunday, October 3rd.

Saturday, May 1st from 8 a.m. to 1 p.m. is the Cadillac Amateur Radio and Computer Swap Meet at the Cadillac Middle School. Talk-in will be on the K8CAD repeater which uses 146.98. For more information please send inquiries to: ke8kudan@juno.com

Saturday, June 5th from 8 a.m. "until it's over" will be the Grand Rapids I.R.A. Annual Hamfestival at the Hudsonville Fairgrounds (6 miles west of Grand Rapids and two miles north of I-196 at exit 62). This is billed as West Michigan's largest Hamfest & Computer Fair. There will be seminars, a forum ("Y2K and Amateur Radio"), VE Exams, and June's quarterly MARC meeting. Talk-in will be on the 147.16 Link-system. Check out the IRA web-site at [www.iserv.net/~w8hvg](http://www.iserv.net/~w8hvg) or for more information send inquiries to: w8hvg@iserv.net

Saturday, June 12th will be the annual "Magic Ride" in Holt. If interested in helping with communications (440 MHz) please contact John Crawford/N8LLC at [jwc@voyager.net](mailto:jwc@voyager.net)

Saturday, November 13th (9 a.m. - 4 p.m.) and Sunday, November 14th (9 a.m. - 3 p.m.) is the Fort Wayne Hamfest at the Allen County War Memorial Coliseum Exposition Center. Talk-in is on 146.88(-). Check out their web-site at [www.pipeline.com/~dagagnon/](http://www.pipeline.com/~dagagnon/)

OLD BUSINESS: A motion was made by Bernie/N8PVZ to accept the Secretary's report as written in the Scope. It was seconded by Steve/W8CRH and approved. A motion to accept the Treasurer's report as written in the Scope was made by Scott/KA8SDW. It was seconded by Forrest/N8PWD and approved.

NEW BUSINESS: Erv told the Club that Paul Carpenter/KB8YQW and the company he works for (Main Stream

Graphics) donated 12 arrow signs with stands, to be used for our upcoming Ham Fair on October 10th. They made the signs so that 4 are pointing left, 4 are pointing right and 4 are pointing straight ahead. We all gave Paul a round of applause and the Secretary will send a "Thank You" note to "Main Stream Graphics" for their donation.

Erv presented Ben Hassell/W8VPC and Don Devendorf/W8EGI with Extra Mile Awards from July 1998, and apologized for misplacing them.

Erv also told us that he had contacted both WSYM TV-47 and WLAJ TV-53 about tonight's SkyWarn meeting and asked them if they would visit us. Tim Drawbridge from WSYM TV-47 was one of our visitors tonight, and WLAJ TV-53, once again, honored us with their presence. Tonight we met reporter Lauren Stanton and her cameraman Dave Jones from their station. TV-53 was here in February when they did a story on the death of King Hussein of Jordan. They interviewed Bill Chapman/W8TJQ who was fortunate enough to have talked to King Hussein on the HF bands many years ago. Erv commented on the nice relationship we were developing with TV-53 and we then thanked them for coming with a round of applause.

Our DRAWING WINNERS were: Troy Creed/W8TCC and Tom Simmons/KB8GVE. We took a 15-minute break in which all our visitors were invited to be our quests and partake freely of the goodies. When we resumed the meeting, George Wetzel and Kevin Greene, from the National Weather Bureau in Grand Rapids, put on an excellent SkyWarn program. With the conclusion of their presentation, a motion to adjourn was made by Bernie/N8PVZ and seconded by Forrest/N8PWD. The meeting adjourned at 10:23 p.m.

Julie McLain/KB8ZXR-Secretary

# QRV BULLETIN Up-Date

## April 12th, 1999

Compiled by Mike Pearsall, N8MP

Help us keep the Internet free of chain letters & hoaxes. The net is slowing down due to these practices! Do not forward alerts, jokes, etc. using multiple lists. To check for virus alerts and remedies log on to AVERT, an anti-virus response team at the N.A.I site: [www.nai.com](http://www.nai.com) or direct to [beta.nai.com/public/datafiles/4xupdates.asp](http://beta.nai.com/public/datafiles/4xupdates.asp).

MAY 1st CADILLAC Wexaukee ARC Hamfest (ARRL Hamfest) TI 146.98- Cadillac Middle School 8am-1pm Tables \$6/8ft INFO: Dan-KE8KU 616-775-0998 or [ke8kudan@juno.com](mailto:ke8kudan@juno.com)

MAY 14-16TH DAYTON, OH Hamvention Dayton ARA (ARRL Hamfest) INFO: E-mail: [chair@hamvention.org](mailto:chair@hamvention.org) or [www.hamvention.org](http://www.hamvention.org)

SAT JUN 5th Hudsonville Independent Rptr Assn I.R.A. Annual Hamfestival TI147.16+ Hudsonville Frgrnds 6 mi W of Grnd Rapids, 2 mi N of I96, exit 62 Open 8am-? ADM \$5(udr age12 free) Tables \$8 Trunk Space \$6 Camping \$10 Mi-Fla hams 930pm/Rptr forums 10pm-noon/MARC mtg 1pm Walk-in VE exams 3pm Setup Fri nite aft 7pm or Sat 6am-bring a dish & join in Fri Eve pot-luck at 7pm INFO: Kathy 616-698-6627 4-7pm or leave msg for return call

SUN JUN 6th CHELSEA Chelsea ARC Hamfest INFO: Don Wilke, WW8M 4725 Grass Lake, MI 49240

SAT JUN 19 MIDLAND Midland ARC MARC Hamfest (ARRL Hamfest) TI 147.00+ Midland Co Frgrnds-enter off Airport Rd Setup 6:30am OPEN 8am ADM \$4 TABLES \$6 +Adm/res \$10 at dr if available Trunk Spce \$5+Adm Camping available Fri nite \$8 INFO: Del, WB8FYR 517 689-3477 eves emailto: [lafevordel@aol.com](mailto:lafevordel@aol.com) or [www.qsl.net/w8kea](http://www.qsl.net/w8kea)

SUN JUN 20th MONROE Monroe Co RC Ass'n (ARRL Hamfest) Monroe Co Frgrnds Sat eve set-up & over-nite camping (\$15 fee) ADM \$6 Open 7:30am-1pm TABLES: \$15/ incl 1 adm-\$10 ea add'l table SET-UP 6am INFO:Fred, KA8EBI 734-587-7165 (Days) or 734-242-9487 (Eves)

JUN 26-27 Field Day SAT JUL 10th Petosky Straits Area ARC Hamfest TI 146.68- Emmet Co Frgrnds Open 8-1pm Ve exams offsite INFO: Dirk, KG8JK [kg8jk@qsl.net](mailto:kg8jk@qsl.net); [www.ncmc.cc.mi.us/dirk/saarc.htm](http://www.ncmc.cc.mi.us/dirk/saarc.htm)

SUN JUL 18th VAN WERT, OH Van Wert ARC (ARRL Hamfest) INFO: Bob Barnes, WD8LPY 419-238-1877 E-mail: [arnesrl@bright.net](mailto:arnesrl@bright.net) <http://www.bright.net/~barnesrl/w8fy.html>

JULY 31ST Weekend GLADWIN ARPS Training Camp-out INFO: Julie Lake mailto: [midist3arpsc@qsl.net](mailto:midist3arpsc@qsl.net) [www.qsl.net/midist3arpsc/trcamp/home.html](http://www.qsl.net/midist3arpsc/trcamp/home.html)

SUN AUG 7th Tawas Iosco Co AR Enthusiasts (ARRL Hamfest) TI 146.90- Tawas HS OPEN 8am-2pm Set-up 6am ADM \$5/\$4adv Tables \$7 Trunk Sales \$3 Free O'nite RV parking a'vble VE Exams-9am check-in Info:John,KA8AIP 517-

750-4933 or E-mail [ka8ip@centuryinter.net](mailto:ka8ip@centuryinter.net)/ [www.oscoda.net/icare/hamfest.html](http://www.oscoda.net/icare/hamfest.html)

SUN AUG 15th JACKSON Cascades ARS (ARRL Hamfest) TI146.88- Jackson Comm College Setup Sat 7-10pm Sun 5-8am Gen'l Adm OPEN 8am \$5/\$4adv Tables \$10/\$15 wall Trunk Space \$5 INFO: Ed Crandell, WD8CBE E-mail: [ecrandell@modempool.com](mailto:ecrandell@modempool.com) [www.qsl.net/cars-jxn/hamfest.html](http://www.qsl.net/cars-jxn/hamfest.html)

SUN AUG 22nd CORUNNA 5 County Swap (ARRL Hamfest) GCARC, Mid Mi WA, Lapeer ARC, Shiawassee ARA, Bay Area ARC INFO: Rosemary N8UHY 517 288-4145

SUN SEPT 12th FINDLAY, OH Findlay Radio Club (ARRL Hamfest) INFO: Bill Kelsey, N8ET 419-423-4604 E-mail: [kanga@bright.net](mailto:kanga@bright.net) <http://www.bright.net/~kanga/w8ft/>

SAT SEPT 18th Grayling ARA of Hanson Hills 2nd Ann SWAP SHOP INFO: Ken, W8CA [w8ca@w8ca.com](mailto:w8ca@w8ca.com)/Geo, WA8SCO [aam5emi@concentric.net](mailto:aam5emi@concentric.net)

SUN SEPT 18th MtClemens L'anse Creuse ARC 27th Annual (ARRL Hamfest) TI 147.08+ L'Anse Creuse HS Open 8am-2pm VE exams 9am-walkins welcome INFO: Don WA8IZV 810 294-1567 or mailto: [donols@provide.net](mailto:donols@provide.net)

SUN SEPT 19th ADRIAN Adrian ARC (ARRL Hamfest) INFO: Brian Sarkisian, KG8CO 517-265-1537 E-mail: [kg8co@lni.net](mailto:kg8co@lni.net) <http://www.lni.net/~w8tqe>

SEPT 24th-26th FLINT Mi Dist 3 ARPS Michigan State Convention (ARRL) INFO: Val Rose, N8EXV 810-607-7732 E-mail: [n8exv@yahoo.com](mailto:n8exv@yahoo.com)/ [www.wsl.net/midist3arpsc](http://www.wsl.net/midist3arpsc)

SUN OCT 10th Mason Central Mi ARC/LCDRAHamfair (ARRL Hamfest) TI 145.39 INFO: Don, WB8NUS 517 321-2004 or mailto: [cmarc@qsl.net](mailto:cmarc@qsl.net)

SUN OCT 17th KALAMAZOO Kalamazoo ARC/SW Mi ART 17th Ann Hamfest INFO: E-mail: [garyn8gh@kalamazoo.net](mailto:garyn8gh@kalamazoo.net) or [www.qsl.net/ka8blo/hamfest.html](http://www.qsl.net/ka8blo/hamfest.html)

SUN OCT 24th WARREN Utica Shelby ECA (ARRL Hamfest) INFO: Debbi Cokewell, KB8YYB 810-263-0227 E-mail: [cuer@juno.com](mailto:cuer@juno.com)/ <http://members.home.net/dougk/useca.htm>

SUN OCT 31st MARION, OH Marion ARC (ARRL Hamfest) INFO: Karen Eckard, N8KE 740-499-3565 E-mail: [meeker@gte.net](mailto:meeker@gte.net)

SAT NOV 7th ST JOSEPH Blossomland ARC Hamfest INFO: Bill Wheeler, W8JBA [w8jba@qtm.net](mailto:w8jba@qtm.net)

NOV 13-14 FORT WAYNE, IND Allen Co ARTS Indiana State Convention (ARRL Hamfest) INFO: Doug Jones, N9NNT & Jim Boyer, KB9IH 219-484-3317 E-mail: [djones2233@aol.com](mailto:djones2233@aol.com); <http://www.pipeline.com/~dagagnon/>

\*Send your swap flyers to have your swap listed too! It's never too early to get the info to me. And don't forget to register with ARRL's Gail Iannone at 800-594-0262 to be listed on the Hamfest and Convention calendar. See the two year list on the ARRL's web site at [www.arrl.org](http://www.arrl.org) or the 2 month list that appears in QST. To be ARRL approved send request to our Great Lakes Director Dave Coons, WT8W 932 Hedwick St, New Carlisle, OH 45344 or email request to [wt8w@arrl.org](mailto:wt8w@arrl.org).

# COMPUTER WORDS

BY WA8LAY

## Word list



ADAPTER	HOTKEY
AUDIO	INTERRUPT
BUGS	MIDI
CABLES	MOTHER
COMMAND	READING
COMPORT	RECONFIGURE
CONFIG.SYS	SUPPRESSOR
DEFRAG	SURGE
DIAGNOSIS	SWITCHES
DOS	SYSTEM
FILES	UPGRADE
	VERSION

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

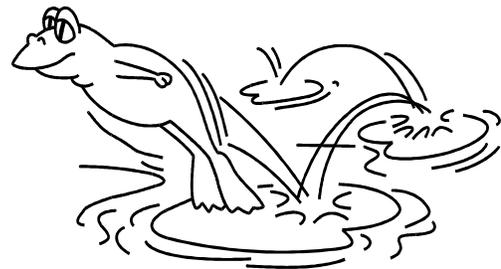
## **AES FOUNDER TERRY J. STERMAN, W9DIA, SK**

Terry Sterman, W9DIA, the man who founded Amateur Electronic Supply as a teenager in the 1950s, has died. He was 60 and had been in ill health for several years. Press reports say Sterman, who lived alone, died March 30 following a fire in his Northwest Milwaukee home.

First licensed in 1953, Sterman got into the Amateur Radio business as a teenager working in his father's TV and electronics parts store, Harris Radio Corporation, in his home town of Fond du Lac, Wisconsin. He went on to have a substantial impact on the ham radio marketplace. He founded Amateur Electronic Supply in 1957, when he was just 18 and still attending Milwaukee School of Engineering and commuting weekends to work at his father's store.

Sterman had suffered from serious health problems since 1988, according to his long-time friend and associate Ray Grenier, K9KHW, who had worked with Sterman at AES from the early years. AES changed hands January 1, 1998. The new owner is Amateur Electronic Supply LLC, headed by Phil Majerus, a prominent Wisconsin businessman.

Survivors include Sterman's wife, Elin, as well as a daughter and a brother. Services were April 2. *ARRL Newsletter April 9, 1999*



## **May**

### **Birthday & Anniversaries**

May 1 - Clint/KC8EHR and Roxie/KC8GAK Hannah's 6th Anniv.!

May 9 - Dan/W8BCI and Marlene/KC8GXO Harger's 3rd Anniv.!

May 16 - Hal Bell/WA8LAY's 76th Bday!

May 20 - Juan/N8YQR and Pat Pizano's 16th Anniv.!

May 25 - John Crawford/N8LLC's 39th Bday!

May 27 - Currin/W8FSZ and Eleanor Skutt's 49th Anniv.!

May 28 - Bill Anderson/KA8TPQ's 40th Bday!

May 28 - Chuck McNease/N8CM's 56th Bday!

May 29 - Dorothy VanConant/W8DVC's Bday!

# 145.390 Net Format

Preamble: *Welcome to the Central Michigan Information Net. This net is held each Sunday evening at 8:30pm on this frequency and is held for the purpose of sharing information and to promote goodwill between Amateurs. This is \_\_\_\_\_, and I will be your Net Control Operator for this evening. All Amateurs are welcome to join in and we ask that all comments and questions be directed to Net Control. Also, please bring your callsign slowly so we may accurately copy them.*

At this time, we are accepting check-ins which are mobile or short time. Mobile and Short Timers, please call Net Control. (note calls here)

At this time, we are accepting all regular check-ins... please call Net Control. (note calls here)

**Announcements:** \* (check current Scope for announcements & QST for upcoming swaps, Contesting & Other Amateur interests.)

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\* Central Michigan Amateur Radio Club meetings are held the first Friday of each month at the Red Cross, located on Grand River in Lansing. If you need directions, contact any Club member on this repeater.

\*The 5.39 breakfast is held on the first Saturday of each month at Theio's on N. East St. at Lake Lansing Rd. in Lansing. Breakfast starts between 7:30am and 8am.

\* QCWA net is held on Tuesday evenings on the 146.700 machine, beginning at 8pm. and they hold their breakfast on the last Saturday of each month at Theio's on N. East St. at Lake Lansing Rd. in Lansing, beginning at 8am.

Closing: At this time, we would like to thank all who took part in the Central Michigan Information Net and invite you back for the next week's as well. We will now return the repeater to general Amateur radio use and Good Night.

This is \_\_\_\_\_ now signing clear.

# Show Your Support in Amateur Radio And Join Today! CMARC & LCDRA

## Join Today!

### CENTRAL MICHIGAN AMATEUR RADIO CLUB, INC.

As a licensed Amateur, you can **sign up today** as a 'Full Member'. As a full member of 'CMARC', you will receive voting rights and yearly subscription to "The Scope". "The Scope" is filled with club news, special interests and events.

**Sign up today** as an 'Associate Member' your membership includes a yearly subscription to the "The Scope" (*No voting rights as an 'Associate Member'*).

Name: \_\_\_\_\_ Call: \_\_\_\_\_  
Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_  
Zip Code: \_\_\_\_\_ Phone No.: \_\_\_\_\_ Class: \_\_\_\_\_  
ARRL: \_\_\_\_\_ Your Birthday \_\_\_\_\_ Your Wedding Anniversary \_\_\_\_\_

Full Membership\* - \$10. per year Associate Membership - \$5. per year  
\* You MUST be a licensed 'Amateur' to obtain 'Full Membership'

Mail your check or money order to:  
John Ingraham-NG8L, Membership Chairman  
2807 Greenbrair Ave.; Lansing, MI 48912

## Join Today!

### LANSING CIVIL DEFENCE REPEATER ASSOCIATION

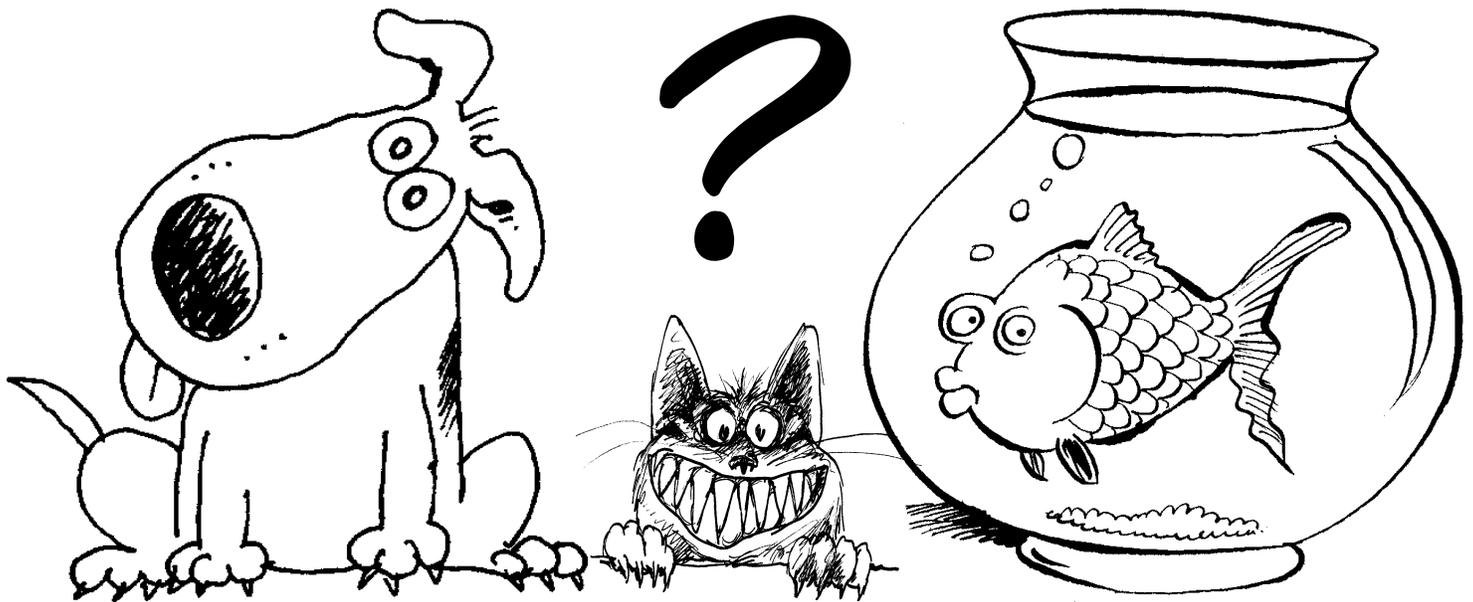
As a licensed Amateur, you can **sign up today** for only \$15. As a member of 'LCDRA', you will receive a yearly subscription to "The Scope". "The Scope" is filled with club news, special interests and events.

**Sign up today!** Use of the repeaters does not require a membership, but your support will be greatly appreciated.

Name: \_\_\_\_\_ Call: \_\_\_\_\_  
Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_  
Zip Code: \_\_\_\_\_ Phone No.: \_\_\_\_\_ Class: \_\_\_\_\_  
ARRL: \_\_\_\_\_ Your Birthday \_\_\_\_\_ Your Wedding Anniversary \_\_\_\_\_

LCDRA Membership - \$15. per year (add a family member at \$7.50 per person)  
(Dues cover your annual membership from January to January)

Mail your check or money order to:  
LCDRA  
P.O. Box 80106; Lansing, MI 48908



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Central Michigan Amateur Radio Club

# *THE SCOPE*

Lansing Civil Defense Repeater Association

Serving Our Community Since 1927

