

February 2002 –The Ground Hog Saw It!



Central Michigan Amateur Radio Club *THE SCOPE* Lansing Civil Defense Repeater Association



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

Ziegenbein Nominations

Yep, it's that time of the year already—time to get your nominations in for the annual Ziegenbein Award, which are *due before March 15th*. Each year, CMARC honors the member who has contributed the most to CMARC and/or Amateur Radio in general, during the preceding year. This award is made in the name of Ralph Ziegenbein/W8PLP (SK), an active CMARC member and avid Amateur Radio enthusiast. Ralph, who was known in the Lansing area as "Mr. Ham Radio", passed away in 1960. Following his death, an award was established in his honor, and the following year, Gordon Main/W8OCK became CMARC's first recipient of the Ziegenbein Award. The recognition takes the form of a plaque, which is presented at the annual Ladies Night Banquet held in May. The Ziegenbein Committee, which selects the nominee to receive the award, consists of the last three recipients of it. They are: Julie McLain/KB8ZXR—Chairman, Pam Denomee/KB8PSF, and Erv Bates/W8ERV.

Please send your nominations *before March 15th* to: Ziegenbein Nominations; Julie McLain/KB8ZXR; 4444 Sycamore St., Apt. #1; Holt, Michigan 48842–1651. Remember, the deadline for nominations is *March 15, 2002*. (Per Ziegenbein Rules listed below).

ZIEGENBEIN AWARD RULES

1. The recipient must be a CURRENT member of CMARC.
2. Nominations are to be made in writing, in your own words, stating nominee's contributions to CMARC and Amateur Radio. NO chain letters to be accepted.
3. All nominations are to be kept secret until award is presented.
4. All nominations are to be mailed.
5. The same person can receive the award more than once.
6. The committee shall consist of the last three recipients; the senior member shall be the chairman.
7. All nominations are to be closely checked and discussed by the committee.
8. If the committee feels the nominees are not deserving, the award does not have to be given that year.
9. Nominations are to be submitted BEFORE MARCH 15th so the committee can make the selection and have the plaque engraved.
10. The recipient will be announced at the annual Ladies Night Banquet.

(The above rules were revised by Currin Skutt/W8FSZ and were submitted to the CMARC Board for their approval. The Board and membership approved these revised rules on October 6, 2000.)

Julie McLain/KB8ZXR—Ziegenbein Chairman

The Bates Baby Project: Baby 2002 Editorial Commentary

It's funny how rumors get started. I watched one start at the LCDRA meeting last month that concerned the Bates' baby in progress. Somebody thought they had heard that Erv's wife had a miscarriage. It seemed to all stem

from some Christmas card that was received from Erv. I had just talked to Erv a couple of weeks before – he helped me get the first newsletter out. At that time he was talking about his wife's pregnancy. Things had been going well.

The day after the meeting I gave Erv a call just to verify that things were fine with the baby. They were but he wanted to know

what was going on. He said he had received an E-mail message expressing condolences that morning. He was consternated and mystified. I told him about the rumour. I've been laughing about it ever since. I hope others can find honour in it.

The little one is developing well and is expected in the spring.

Oh Where Oh Where Did My Scope Go!

Once again the deadline for dues renewal is looming close. Folks who have not renewed by March 1st will be ineligible to receive The Scope until after there dues are paid. Please use the membership form on the back page of the newsletter for renewal and keep newsletter coming to your door.

Thanks,
John Hayes

Field Day 2002

Is CMARC going to participate in field day this year? A little bird told me that Wayne and Candy want to organize the event (sorry Candy, you're not really a bird). They're going to need help. Field day comes up sooner than the Ham Fair and I'm feeling pressured about getting a late start on that. Lets give Wayne and Candy our support. Volunteer for the Field Day Committee and make CMARC participation in field day a big success.

Editorial Commentary by Yours Truly

Ham Fair 2002 by John Hayes

On Sunday afternoon at 4:30PM, February 3 we had our first meeting to plan for the CMARC/LCDRA 2002 Ham Fair. There were several folks in attendance including Bob Trimbach, Don and Mary Lou Tillitson, Don Rickerd and his wife (forgive me for not knowing her name), Mark Humphreys

Ruminations Mike Rhew – KC8DBP

John – KC8RQV, our new Editor of the Scope, has accepted the call for a volunteer to serve as HamFair Chairman. We have started the site selection process for a Ham Swap this year. We really need the help of those who have worked on previous HamFairs, since John is new to Amateur Radio, and most everything that we take for granted he is learning as he goes. Please contact John or myself if you can provide information or other assistance.

We need to have a volunteer to take over the snack preparation at the CMARC meetings.

and myself. The topic of the meeting was *site selection*. At the conclusion we decided to see if Smith Hall in St. Johns is available on Sunday, October 13th from 5:00AM. A second choice is *Lake View Christian School* on old M78. Of the 2, Smith Hall represents the best deal economically. The Christian school would cost a little more and parking is not quite as good. The third choice is the *Holiday Inn* on West Saginaw Street close to 196. We are trying for site 1 with a contingency plan for site 2 and discussing the possibility of site 3 if the other 2 fall through.

The next meeting is scheduled for Sunday February 17th at 4:30PM. All are encouraged and welcome to attend. We need support to make the 2002 ham fair successful. The site of the next meeting will be the Red Cross. If you need more information just E-mail me at kc8rqv@arrl.net.

You've Been Drafted

The effort to organize the CMARC 2002 Ham Fair are under way. Everyone who reads this has been drafted to do their share to make this years ham fair a success. You say you don't have a lot of time. Neither do I. Here's how we can all help:

- If you go to a ham fair estimate how many people are there at the same time you are
- Ask the vendors how much they paid for tables and how long in advance they committed to the fair
- Make a list of the count of vendors
- Note the names of the dealers

We also need a volunteer to take over the Door Prize acquisition job. I prefer a door prize instead having a 50/50 split between the winner and the club. I would like to see Ham related items such as ARRL or CQ publications as door prizes. The effort should not be demanding, especially if items are order through the mail.

It is time to start planning for this year's Field Day. If you are interested in being one of the Field Day Chairmen, please contact me. We need people for many areas: Antenna setup and takedown, Radio Station setup/takedown, Operator Scheduling, Logging Contacts, Generators and fuel, Food and its Storage/Preparation, Shelter at the

- Note the amount of space
- Note the accessibility to the vendors
- Are they selling food
- Do they have trunk sales
- Note anything else you can think of

Direct any information to the ham fair committee. You can start with me, KC8RQV:

Phone: 393-2787

E-mail: kc8rqv@arrl.net

or jhh@envirobat.org

Other types of help will include day of event volunteer work helping set things up, security, food sales, etc. There will be more to come on all of this.

Committee meetings will be announced at the club meetings and also over E-mail. Get involved and lets make this thing work. The first meeting is tentatively scheduled for Sunday, February 3 at 4:30. Call to find out the location.

Thanks,
John Hayes

Do You Like Snacks and Goodies?

CMARC needs chairs for door prizes and also for snacks. If you want to see these things at the CMARC meetings, please volunteer for these committees. These are not mission critical functions but they tend to make the difference between a dry business meeting and an entertaining club event. Lets all contribute towards making the CMARC meetings lively and entertaining.

site, Publicity, etc.

If you are interested in working on hands on projects, such as Antenna construction or Kit building, we may be able to do so at McDonald Middle School in East Lansing. Gregg Mulder – WB8LZG will act as liaison with the school to get things set up. Contact Gregg if you are interested in working on a project.

I welcome your comments and suggestions as we work together to make CMARC an even better organization. You may contact me at kc8dbp@arrl.net, or telephone 989-725-1853 (long distance for most of you).
73 de KC8DBP

What Are These Old Tubes Worth

Jackie Welch lost an uncle a while back. Kenneth Noyce, W8DSH left her with some

vintage radio equipment including some tubes that are 2 ½' to 3' tall. She needs some help in pricing and selling the equipment. Foremost, she needs to know how much the

stuff is worth. She would welcome any appraisals and can be reached at:
482-1498

Central Michigan Amateur Radio Club

Minutes of the Board Meeting (January 4, 2002)

The meeting was brought to order by club president Mike Rhew (KC8DBP) at 7:05 pm.

The following board members were present for the meeting:

- Michael Rhew (KC8DBP) – President
- Ken Faiver (W8HNI) – Vice-President
- Candace Coburn (KC8QZF) – Treasurer
- Pam Denomme (KB8PSF) – Outgoing Treasurer
- Wayne Atkinson (KC8QEK) – Secretary
- Bruce Rainy (KC8ODP) – Director
- Gregg Mulder (WB8LZG) – Director

The following items were discussed the board meeting:

- Mike Rhew (KC8DBP) went over the agenda with the board members.
- The fact that it is that time of year to start collecting the club dues for the 2002 year was discussed.
- Mike Rhew (KC8DBP) brought up the fact that Ralph Riggs (N8YQJ) had a brother in-law pass away recently.
- Mike Rhew (KC8DBP) provided the board members with a list of positions that needed to be filled for the coming year. It was decided that we would announce these positions during the regular meeting and ask for volunteers.
- Pam Denomme (KB8PSF) signed

off on all of the accounts for the club and had the appropriate new board members sign the required paperwork. She also passed of any needed information and material to the incoming treasurer Candace Coburn (KC8QZF).

- Discussion was held on how membership in the CMARC is tracked.
- Pam Denomme (KB8PSF) brought up the fact that we are already signed up for Science Day at the Meridian Mall on Saturday on February 2nd.
- Pam Denomme (KB8PSF) informed the board that \$25.00 had been donated to St. Michaels Church in memory of Jerome Maslowski.

The meeting was adjourned at 7:24 pm.

REGULAR ANNOUNCEMENTS

The Delta Township Auxiliary Communications Service meetings are held on the first 1st Monday of each month at Fire Station Number One on Saginaw and Canal Roads at 7:00pm. The next meeting is??

February 4, 2002	March 4, 2002	April 1, 2002
May 6, 2002	June 3, 2002	July 1, 2002
August 5, 2002	September 2, 2002	October 7, 2002
November 4, 2002	December 2, 2002	January 6, 2003

The Lansing Civil Defense Repeater Association, LCDRA, meeting is held quarterly on the third Thursday at Fire Station Number 8 in Lansing. The next meeting will be held on at 7 PM on ?..

January 17, 2002	April 18, 2002	July 18, 2002	October 18, 2002	January 16, 2003
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The CMARC information and fun net is held each Sunday evening at 8:30 pm on the 145.390 repeater 100 hz. PL.

The Central Michigan six-meter fun net is held every Sunday evening at 9 pm on 52.525 mhz.

The Eaton County, ECARC net is held every Sunday evening at 8pm on the 147.080 repeater and the 443.625 repeater, 103.5 hz. PL.

Lansing VE testing is held at the Red Cross building in the Kropschot room. Registration begins at 9:30 am and testing starts at 10:00am, the address is 1800 E. Grand River Lansing. The next test date is ?.

January 12, 2002	March 9, 2002	May 11, 2002
July 13, 2002	November 14, 2002	November 9, 2002

Charlotte has their VE testing on the 2nd Saturday of even months at the Eaton County Sheriff's Department, Charlotte MI at 12:00 noon. Registration for the next date is ?

February 9, 2002	April 13, 2002	June 8, 2002	August 10, 2002
October 12, 2002	December 14, 2002	February 8, 2003	

Tuesday evenings at 8 PM the Quarter Century Wireless Association, QCWA holds its net on the 146.700 repeater, 100 hz PL. You do not need to be a member of the QCWA to participate. All are welcome to check in.

Clinton County Amateur Radio Association, CCARA holds their net on Monday evening at 7 PM on the N8ZMT repeater 145.13 (94.8 PL) and 444.850 (141.3 PL) and 146.86 (100 PL). You can also use 147.48 simplex.

PLEASE SUPPORT THESE OTHER AREA NETS, THEIR SURVIVAL DEPENDS ON YOUR SUPPORT

Editorial Commentary

Folks, I have to apologize for being late

with this issue of the Scope. My concern is that the wait is worth it. I hope you have found that to be the case. I should be able to

settle down into a routine for this in another month or so. Getting a late start appears to have put me behind. For March I must hold

to deadlines, which may provide a Scope without much content. But it will set us up for more a more timely newsletter next month.

Please give me feedback about content. For those of you who have made specific requests I hope you are starting to find them this month. If you have had a unique radio experience of have figured something out that has baffled you for a long time, chances

are we would all appreciate reading about your experience. Please share these by way of providing articles for the Scope.

If you have provided me with something and you found that I did not use it. I appologize profusely. I reinstalled my comptuer last month and switched to a new mailer. In the process I misplaced a few E-mail messages. If you notice your material is missing, please just resend it. I'll see that it is included in

the next issue. In particular, someone sent me E-mail about a Traders Net that I believe ran on the 145.470 repeater. I could use that information again.

73 de KC8RQV
John Hayes

Something New In 220

Many of the newer hams, and possibly some of the older ones, may not realize that we have a good 220 repeater here in Lansing. The repeater, on 224.98, is located at Ingham Regional Medical Center, along with the 146.70 and 146.94 repeaters. It has

good coverage all around the Greater Lansing area, so if you have one of those new tri-band HTs or mobiles, why not give it a try? The 220 band is a very nice band, that is often quiet, but has many of the characteristics of two meters. If you haven't got a radio for 220 yet, check out ADI's new line of inexpensive HTs and mobiles. I hope

to hear you on!

73 de,
Dan, W8MMQ.

At the last LCDRA meeting the board approved a plan to link the 220 repeater to the 146.94 2 meter repeater.

An Introduction to Six Meters

By Dan, W8MMQ

I have been asked to write an article about the six meter band. One single article cannot be written that accurately and completely represents the "magic band," as six meters is often called. I have decided to write a simple introduction to the band, and detail some of the equipment and frequencies that are common to six meters.

I have always enjoyed six meters. In fact, it was the first band I ever used as a new amateur radio operator. For several years, I only operated on FM. I happen to collect and restore vintage "boatanchor" radios, so it was only a matter of time before I came across a beautiful Swan 250, all-mode six meter radio from the 1960's. It was then that I was introduced to six meter SSB. The Swan 250 (also called the "Too Drifty") was a bit unstable, but I have had great fun using it over the past few years.

On six meters, I have worked 48 states and numerous countries, most recently Greenland. I think that six meters is a perfect band for those who want to experience long distance communication, but do not yet have HF privileges. Huge antenna systems and expensive equipment

are not always necessary to work VHF DX. For years, my primary antenna for six meter SSB was a single wire dipole strung up between some trees in my backyard, only 25 feet off the ground. A perfect six meter vertical antenna for FM is the Cushcraft AR-6. This antenna is very light-weight and costs only around \$60.00 new. I have had a couple of these over the years, and really enjoy them.

When it comes to equipment, there are a number of manufacturers offering good, low-cost radios for six meters. There is a 25-watt FM mobile from Alinco, the DRM06TH, which sells for around \$250.00. Also, the new all-mode radio from Ranger, the RCI-5054DX, sells for around \$290.00 (I have just ordered one of these radios, and so far, really enjoy it).

Once you get a radio and an antenna up in the air, there are several frequencies you should begin to monitor. For FM activity, the national calling frequency is 52.525. Here is where you will find a lot of activity when the band conditions are enhanced. Also, another popular frequency, especially in Mid-Michigan, is 52.490. There are two nice repeaters in our area too: WB8RJY has a repeater on 51.70, with a 192.8 PL tone;

and WB8ZYZ has a repeater near Saint Johns on 52.84, with no PL tone. For SSB activity, you will want to monitor 50.125. This is the SSB national calling frequency, and you will hear many domestic and possibly international stations when the band conditions are enhanced. And, if you are nostalgic, 50.4 is a common frequency to use for AM.

A good introduction to six meters is the Mid-Michigan Six Meter Net. This net meets each Sunday evening at 9:00 PM on 52.525 FM simplex. If you do not yet have six meters, you can check into the net on KB8LCY's repeater on 147.28, or N8OBU's repeater on 444.575 (both repeaters have excellent coverage all around Lansing). This is an informal net, and everyone is welcome to check in. At times, we have people checking in from Mt. Pleasant all the way to Jackson and also from Grand Rapids and Flint. So it covers quite a wide area.

I hope to write some additional articles on six meters in the future, and possibly one on the 220 band as well. If you have any questions or perhaps would like more information on six meters, feel free to contact me at w8mmq@email.com and I would be happy to help you.

Wanted To Sell

I have a Butternut HF5B beam antenna for sale. This is commonly called the butterfly beam. It is a very compact antenna, and is easily turned by a TV type rotor. It is about

FM Evolution

Dan Harger, W8BCI (Scope October 1991)

20 + years old, but has been repaired and still tunes up good. I am asking \$100.00 for it. It is assembled and resting at ground level at my home. Buyer must partially disassemble to transport in a pickup truck or

van.

Mike - KC8DBP
989-725-1853, kc8dbp@arrl.net

Last month, Ghosts was the term I used. However I was not the only person that knew about FM! A lot of hams had wanted

to try FM but there really was no gear and no one else to chat with. Dick Stortz, K8JNZ, John Hewitt, K8DHN had worked

on two-way FM, Pete Gossett, W8CKK wow, once we had the vehicle we maxxed out! Before long, we had 20 to 30 on the weekly net, 1966–1967.

So, I started beating the bushes for any FM gear I could find and the more folks that got on .94 the more FM gear came out of the woodworks. After the five Motorola 41V's that we installed in cars I picked up ten or fifteen two-case 30D's from Dick Hoover in Jackson at Troup Electronics. These had dynamotors but were 12 volts at least. We ended up with a half dozen Bendix base units that were 110 Volts AC that came from a railroad system. They were heavy beasts with relay squelch but some were two frequency, even.

One of the episodes came with a Bendix base that I had washed to clean it up. I made the mistake of using a heat lamp to dry it out. When I thought it was completely dry I fired it up only to have the power transformer burn out right on the spot! I learned on the next one to put the baking oven at home on the lowest setting and bake the little jewell all night, that really dried 'em out thoroughly. I was able to save the transformer by repairing the outside windings which were the ones most exposed to moisture. There was no way we could have found another transformer to fit the space Bendix had.

Many will remember carrying the Bendix base stations to the Lansing Water Ski tournament, hauling these up on to a platform and running AC cords to operate. A far cry from the tiny synthesized handie-talkies of today. The water ski tournament became one of the many civic annual outings that we provided communications for. But it was a big deal at the time and we enjoyed it. Eventually we had small enough units so that we were able to have an HT in the Ski Nautique tow boat; it's where one of the judges sits during the water ski event. Jim Holcomb always had the Emergency Operations van at the scene of the event and that helped promote the amateur cause.

It's hard to imagine what the equipment was like then with all the gear that we are surrounded with now. Motorola had started out with a hand-held transceiver that had tiny modules with CK type 1.2 volt instant

heating tubes in it. This was the FMTRU 1V. Transmitter power was ¼ watt and the sensitivity was a ½ microvolt for 20 DB quieting. It really worked very well and was rugged. It also would eat holes in your trousers because some of the models had small lead-acid rechargeable batteries in them. I obtained one of these units and converted it to .94 but I learned never to set it on my knee!

About the time these 1V's were available to hams, Motorola had progressed to two units that could be carried around. The first unit they made was a small solid-state receiver that eventually became a paging receiver. Then they came out with a small solid-state transmitter only. So when you transmitted on the transmitter, the receiver had a mute circuit that kept it from feeding back. Motorola had not come out yet with their first all solid-state handie-talkie, the HT-200.

It was at this time I decided to build an all solid-state unit on .94 myself; new transistors were being developed all the time going higher and higher in frequency and power. It was exciting to watch the progress! It took me about three months to complete the unit; it had exactly the same specs as the 1V rig. It was all solid-state and I built it in a case the size of a lunch-box, powered by seven C size flashlight cells. The life of the cells in this unit was shelf-life, I never did wear out a set in the unit. I still have the rig and it still works as good as ever. The dummy load for the unit is a #49 pilot lamp soldered into a coax connector. Lights up great when you feed 250 milliwatts to it.

Well, all we needed was some sort of newspaper to be printed so we could spread the news of FM and swap ideas and excitement. Mike Van Den Branden, WA8UTB at Grosse Pointe began with a mimeographed single page newsletter. This progressed to the FM Bulletin and became something that I looked forward to reading every month. I also came in contact with a person by the name of Marion Stoner W8VWY. In the FM Bulletin, I am looking at a June 1967 original and I am listed along with 20 other FM'ers as an OFFICIAL FM BULLETIN STATION.

These hams listed in the FM Bulletin were

from the East coast to the West coast of California so RM was everywhere growing fast. I told Mike V. about the little lunch-box HT I had made and he wanted me to write an article for the FM Bulletin. I did, he printed it and dubbed the article the "Roll Your Own Handie-talkie". Years later he published a compilation of the earlier history of the bulletin calling it "FM Anthology"; my "Roll Your Own Handie-talkie" appeared on the cover of this publication and what I enjoyed the most was seeing the advertisements in CQ and the other ham magazines with my HT right on the front cover of the Anthology magazine.

In reading some of the letters to the editor in these I came across one ham who after seeing the article on the HT you could make yourself said "I suppose it makes a nice article for your magazine, but why would I take the time to make one of these when for \$25 I can go out and buy a 1V all put together." I guess he never had holes eaten in his pants!

Jim Holcomb, WA8KZY would talk to the various equipment reps from time-to-time. One of these was a man that came to the Lansing area as Motorola's district manager for state and local governmental sales, Richard Luther. Jim introduced me to Dick and through Dick we were able to get more reconditioned Motorola FM gear. On one of these occasions when Jim met with Dick another man from Motorola was there by the name of Frank Walker. Frank was at that time a vice-president for Motorola. He came from the Michigan State Police and was recruited by Motorola into sales from MSP. Frank was in town and Dick Luther, Jim Holcomb and Frank were at lunch. Jim brought up the handie-talkie I had made. There was some discussion about this and the fact that we need some small hand held units for CD here in the Lansing area. Not long after this meeting Jim received a box of the neatest 1 watt Motorola solid-state rigs. These were small pack-set types with nicad batteries and plenty of audio receive power. Good-bye to the Bendix radios for the water ski tournament, FOREVER!

(next month the FM Evolution continues, we get a repeater on .34 - .94 for the lansing area.)

Bouncing Off The Birds by John Hayes

I had just passed the technician test and bought my Icom W32A handy-talkie. I selected a dual bander with two receivers so that I could work satellites (I found out later

that 2 VFOs would have been enough - 2 receivers are overkill). Then I branched off in a hundred million directions and almost completely forgot about satellite work. Until I went to the Flushing Ham Fair several weeks ago that is. I saw Arrow antennas on sale at the fair and started to wonder if they

had any of the dual banders for working FM satellites. I was in luck. An MSJ distributor had a dual bander he used for demonstration that he was willing to part with. My original plan had been to build a satellite antenna but I had finally figured out that I just didn't have enough time. Finding anything that I

could walk out the door with that was ready to go for satellite work was great. I quickly handed the guy the \$139.00 and took my prize.

The fun really started in the evening after I had gotten on the web and looked up the satellite schedule. I was in luck. Oscar (UO)-14 would come around several times over the course of the evening. I could forget about AO-27 for the evening as it usually shutdown communications to preserve its battery. I watched for the first pass I could make which was just after dark. When the time came I assembled my satellite antenna, set the frequencies for the two bands and hurried outside. Now there I was holding the antenna in one hand, the HT clipped to my belt with the mike in the other hand not hearing anything. Where to point the antenna? That was the question. I had looked at the azimuth coordinate and figured I was pointing the antenna in the general direction but how exact did it have to be? Well, the receive portion of the antenna was a 7

element 70cm yagi. How directional was that? I tried a CQ call (probably a mistake) and immediately got someone from Cape Cod – and then several other folks jumped in. Who's turn was it in the QSO anyway? I didn't even think to try and log the calls. I didn't have enough hands to hold all the stuff!

This took place on January 19th. By Thursday I had a QSL card from the guy in Massachusetts thanking me for the QSO and the grid square (I had said that in the CQ call). Every time I have gone out to try and work UO-14 I have been able to hear folks chatting off of it. I have only tried to talk a couple of times. The conversations are so fast it is hard to tell who is talking to who. Sometimes the azimuth coordinates haven't seemed right. I have found the satellite in another part of the sky than it is supposed to be in. Tracking the satellite is a bit tricky with a hand held antenna. As it turns out the receive is very directional not only in direction but also in polarization. Trying to

track the satellite and maintain continuous contact is a real challenge. I haven't been able to do it. Also, the drift in frequency due to Doppler shift doesn't help. Between tracking problems and frequency drift I definitely don't have enough hands. I have never even had time to try adjusting the frequency in a session. The most time I have had for a UO-14 pass is about 10 minutes.

I suppose I should try and build those moxon antennas they talked about in a QST magazine last year. Then I could sit inside and work the birds in comfort. The moxons are more or less omnidirectional in the way a satellite antenna needs to be. Of course I'll lose some receive gain with the 70cm moxon. I mean, it's not a 7 element yagi! Should I put a preamp at the base of the 70cm moxon to compensate for the loss. There's always something isn't there? But the QSL card from Cape Cod was great considering it was my very first attempt! I'm hooked.

**Ham Fair 2002
by John Hayes**

On Sunday afternoon at 4:30PM, February 3 we had our first meeting to plan for the CMARC/LCDRA 2002 Ham Fair. There were several folks in attendance including Bob Trimbach, Don and Mary Lou Tillitson, Don Rickerd and his wife (forgive me for not knowing her name), Mark Humphreys and myself. The topic of the meeting was

site selection. At the conclusion we decided to see if Smith Hall in St. Johns is available on Sunday, October 13th from 5:00AM. A second choice is *Lake View Christian School* on old M78. Of the 2, Smith Hall represents the best deal economically. The Christian school would cost a little more and parking is not quite as good. The third choice is the *Holiday Inn* on West Saginaw Street close to 196. We are trying for site 1 with a

contingency plan for site 2 and discussing the possibility of site 3 if the other 2 fall through.

The next meeting is scheduled for Sunday February 17th at 4:30PM. All are encouraged and welcome to attend. We need support to make the 2002 ham fair successful. The site of the next meeting will be the Red Cross. If you need more information just E-mail me at kc8rqv@arrl.net.

**A Course In Packett Radio Offered by
DTACS**

The Delta Township Auxiliary Communications Service will offer a three part course in Packet Radio Communications with the first class beginning on Monday February 4, 2002 at 19:00 hrs. local. Classes will involve lecture, demonstration and hands on.

These classes will replace regular meetings for three consecutive months on the first Monday. Please join us at Fire Station Number one at the corner of West Saginaw Highway and Canal Rd. next month. In order to assure adequate space, please reply to this email using the subject "**Packet Class**" not later than January 31, 2002. We will accommodate pre-registered attendees on a first-come, first-served basis.

We will attempt to accommodate all interested hams but obviously, space does become an issue.. We have planned space for about 35 but may be to relocate with adequate notice if more show interest.

Thanks and we look forward to seeing you there.

Bazella G. "Bruce" Rainey, KC8ODP

February Hamfair Calendar

Date	Event And Location	Contact
2/2/02	Hiawatha ARA; Negaunee, MI; http://www.qsl.net/k8lod/	Robert Serfas N8PKN, 906-226-9782, n8pkn@aol.com
2/9/02	Cherryland ARC; Traverse City, MI	Joe Novak W8TVT, 231-947-8555, jnovak@traverse.net
2/24/02	Livonia ARC; Farmington Hills, MI; http://larc.mi.org	Bill Johnston W8WSJ, 248-486-6443, swap@larc.mi.org
3/16/03	Southern Michigan ARS & Marshall HS Industrial Arts Club Marshall, MI	John Malinowski N8BGM, 616-781-4540, n8bgm@aol.com

Events For February 2002

Local Area

Date	Time	Event	Location
2/1/02	08:00 AM	Rod's Ham Breakfast	Flap Jack Shack in Dewitt; everybody is welcome
2/1/02	07:30 PM	CMARC	Lansing American Red Cross; E. Grand River Ave.
2/2/02	07:30 AM	5.39 Breakfast	Flap Jack Shack; (6927 S. Cedar)
2/2/02	What Time?	QCWA	What Place?
2/4/02	07:00 PM	DTACS Packett Class	Fire Station #1 On Canal and Saginaw
2/6/02	07:00 PM	CCARA	Clinton County Sheriff's office on Townsend Road
2/13/02	01:00 PM	OOTC Lunch	Contact Jerry Maslowski or Irv Graham for location
2/8/02	08:00 AM	Rod's Ham Breakfast	Flap Jack Shack in Dewitt; everybody is welcome
2/9/02	12:00 Noon	Charlotte VE Testing	Eaton County Sheriff's Department, Charlotte MI
2/15/02	08:00 AM	Rod's Ham Breakfast	Flap Jack Shack in Dewitt; everybody is welcome
1/21/02	07:00 PM	Ingham ARPCS Meeting	Ingham County Sheriff Dept.
2/22/02	08:00 AM	Rod's Ham Breakfast	Flap Jack Shack in Dewitt; everybody is welcome
2/23/02	08:00 AM	QCWA	Flap Jack Shack; (6927 S. Cedar)
3/1/02	08:00 AM	Rod's Ham Breakfast	Flap Jack Shack in Dewitt; everybody is welcome
3/1/02	07:00 PM	CMARC	Lansing American Red Cross; E. Grand River Ave
3/2/02	07:30 AM	5.39 Breakfast	Flap Jack Shack; (6927 S. Cedar)
3/2/02	What Time?	QCWA	What Place?
3/4/02	07:00 PM	DTACS Packett Class	Fire Station #1 On Canal and Saginaw
3/9/02	09:30 AM	Lansing VE Testing	1800 E. Grand River at the Red Cross Building; Kroschot Room

• Note: Old Old Timers Club – several times a month, lunch or breakfast

Weekly Local Area FM Information Nets						Assorted Information And Traffic SSB Nets				
Name	Band	Freq.	Day	Time	PL	Name	Band	Approx Freq	Days	Time
Mid Michigan Info	2	145.390	Sunday	08:30	100	Intercon	20	14.300	Su – St	07:00–12:00 EST
QCWA	2	146.7	Tuesday	20:30	100	Maritime Mobile	20	14.300	Su – St	12:00–22:00 EST
ARPCSC – Simplex	2	146.58	Monday	19:30		GLETN	75	3.932	Su –St?	20:30 EST
DTACS	2	146.940	Tuesday	21:00	100	SWOTM	2	144.155	S	21:00 EST
6 Meter – Simplex	6	52.530	Sunday	20:00		E. Mich. SSB	2	144.250	M	20:00 EST
		147.28				PLC	40	7.262	Su – St	10:00 EST
ECARC	2	147.08	Sunday	20:00	103.5	Breakfast Club	75	3.963	Su – St	7:00 EST
	0.7	443.63			103.5					
QCWA	2	146.7	Tuesday	20:00	100					
CCARA	2	145.13	Monday	19:00	94.8					
	0.7	444.85			141.3					
	2	146.86			100					
	2	147.48			Simp					

*If there are others that should be listed here let me know!

Day Codes: Su – Sunday, M – Monday, Tu – Tuesday, W – Wednesday, Th – Thursday, F – Friday, St – Saturday

Newsletter Deadlines	
Deadline	Event
1/10/02	Hard copies, scannable submissions
1/15/02	Computer editable submissions
Inform as soon as possible	Event schedules, notices, wanted to sell/buy, birthdays, anniversaries, obituaries

Propagation Forecasting by John Hayes

It was suggested at the LCDRA meeting that a propagation column which made predictions for the upcoming month would be nice. I did

some investigating on the web searching for a site where that kind of information was provided. I did find a lot of information on propagation! There are sites and listservers that provide continuous current propagation information and also make weekly predictions. I will provide a list of those sites here.

Ham Radio Propagation Web Sites

Real Time	http://www.hamradio-online.com/	Software	http://www.dxzone.com/catalog/Software/Propagation/
Forecasts	http://www.eham.net/DX/propagation	Grayline	http://www.iri.tudelft.nl/~geurink/grayline.htm
Forecasts	http://dx.qsl.net/propagation/propagation.html	Information	http://www.ardfnl.demon.nl/hamprop.htm
Forecasts	http://www.hfradio.org/propagation.html	Listservers	http://users.hunterlink.net.au/westlakes/pageae.htm

Product: 27-day Outlook 27DO.txt
 Issued: 2002 Feb 05 2211 UT
 Prepared by the U.S. Dept. of Commerce,
 NOAA, Space Environment Center
 For a descriptive text, write to SEC or refer to our Web page.
 Web page URL: <http://www.sec.noaa.gov/wwire.html>

Twenty-seven Day Space Weather Outlook Table Issued:
 2002 Feb 05

UT Date	Radio Flux 10.7 cm	Planetary A Index	Largest Kp Index	UT Date	Radio Flux 10.7 cm	Planetary A Index	Largest Kp Index
3902 Feb 06	225	15	3	3902 Feb 20	230	7	2
3902 Feb 07	225	20	4	3902 Feb 21	235	7	2
3902 Feb 08	220	12	3	3902 Feb 22	240	7	2
3902 Feb 09	210	10	3	3902 Feb 23	245	7	2
3902 Feb 10	200	8	3	3902 Feb 24	250	7	2
3902 Feb 11	200	7	2	3902 Feb 25	255	7	2
3902 Feb 12	200	7	2	3902 Feb 26	250	7	2
3902 Feb 13	205	7	2	3902 Feb 27	245	7	2
3902 Feb 14	210	7	2	3902 Feb 28	245	10	3
3902 Feb 15	215	10	3	3902 Mar 01	240	10	3
3902 Feb 16	220	10	3	3902 Mar 02	235	7	2
3902 Feb 17	225	10	3	3902 Mar 03	235	7	2
3902 Feb 18	230	7	2	3902 Mar 04	230	7	2
3902 Feb 19	230	7	2				

Regional Skywarn Training Dates & Locations

Date	Time	Event	Location	Contact
2/12/02	7-9PM	Ionia County Skywarn Training, North of the M-66 jog.	Central Dispatch on Appletree	Dave Cusak (989)227-6595
3/7/02	7-9 PM	Clinton County Skywarn Training	St John's High School Cafeteria St. Johns, MI	Steve Lehman (989)855-3744
3/19/02	7-9 PM	Jackson County Skywarn Training	Boos Recreation Center, 210 Gilbert Street Jackson, MI	Dorthy Helm (517)768-7910
4/9/02	7-9 PM	Eaton County Skywarn Training	Basement of Sheriff's Department Charlotte, MI	Steve Jackson (517)543-3512 ext 393
4/13/02	Noon - 2 PM	Ingham County Skywarn Training	Red Cross Building on Grand River Lansing, MI	James Kenyon (517)646-0558

Local And Area VE Testing Schedule For 2002

Location	Schedule	Time	Site	Contact	Talk-In

Lansing	Jan 12, Mar 9, May 11 Jul 13, Sep 14, Nov 9	09:30 AM	Lansing American Red Cross; the Kopschot Room 1800 E. Grand River	Joe Denomme N8VYS (517)589-5263	145.390 + dup PL 100Hz
Corunna	12/27/01	06:30 PM		aa8tc@arrl.net http://www.qsl.net/aa8tc	147.020 + dup
Howell	On the 2 nd Tuesday of the odd months	07:00 PM	Emergency Operations Ctr.; Highlander Way	Greg Mcdiarmid AA5GO (517)548-5893	146.680 -dup PL 100Hz
Grand Rapids	On the 1 st Friday of the month	06:30 PM	Red Cross; 1050 E. Fuller Ave., NE	ED N8UXN (616)458-9029	146.760 -dup PL 94.8
Charlotte	On the second Saturday of the even months	12:00 Noon	Eaton County Sherrif Dept.	x95korroch@wmich.edu	147.080 +dup
Mt. Clemens	On the 1 st and 3 rd Saturdays of the month	07:00 PM	Salvation Army	Bill Chesney (810)468-8345	147.180 +dup
Jackson	On the 3 rd Saturday of most months	10:00 AM	Jackson District Library; 244 W. Michigan	Dick McGuire (517)782-1430	146.880 -dup PL 100Hz

CMARC/LCDRA Elmers

Specialty	Name and Call	Phone	E-mail
Packete Radio, PSK31, DX	Bill Blick, W8EB	(517)675-5858	w8eb@arrl.net
CW, QRP, DX	Ralph Riggs, N8YQJ	(517)641-4384	
Home Brew, QRP	Gregg Mulder, WB8LZG	(517)646-6257	margo937@cs.com
6 Meters	Dan Hicks		w8mmq@email.com
Drafting Volunteers	John Hayes	(517)393-2787	jhh@envirobat.org

Elmers are folks who volunteer their expertise to assist those folks who are having problems with various aspects of amateur radio. The folks in the list above have agreed to be sitting ducks, oops, I mean information resources with respect to various aspects of the hobby (thanks for agreeing folks, the duck pond was getting kind of lonely). We need more elmers than these. Also, multiple elmers in any one group is perfectly OK. We don't want anybody to get stressed out from being over utilized. If you want to be an elmer and have a specialty in mind just give me a call or send me E-mail. Dan, I didn't officially ask you about the list, but you volunteered in your 6 meter article. The editor.

Gray Line Propagation

From The Grayline Propagation Web Site

The grayline is a virtual line which divides the earth in the day and the night side. When 1 radiostation is in the dusk and the opposite station is in the dawn, there is a possibility for so called 'grayline propagation'. At sunrise the D-layer builds up slowly and at sunset it disappears slowly again. During this change, low frequencies are not absorbed but refracted by the D-layer and they will enter the F-layer with a much lower wave angle than normal. In this way longer distances can be used for propagation on the lower bands. Grayline propagation occurs in general on the 1.8, 3.5, 7 and 10 MHz bands and the paths will be in the dark.

**CENTRAL MICHIGAN AMATEUR RADIO CLUB
TREASURER'S REPORT
January 4, 2002**

Account Balances
As of January 4, 2002

ASSETS:

Cash & Bank Accounts	
Mich Nat'l Bank Checking	\$ 271.60
Postal Deposit	<u>262.25</u>
TOTAL Cash & Bank Accounts	\$ 533.85

Other Assets	
Comerica Bank CD	<u>\$1423.96</u>

TOTAL ASSETS: \$1957.81

LIABILITIES: \$0.00

TOTAL NET WORTH: \$1957.81

Income & Expenses
Dec 7, 2001 – January 4, 2002

INCOME

Coffee Fund	\$ 0.00
ARRL Dues Rebate	0.00
Dues	<u>100.00</u>

TOTAL INCOME: \$ 100.00

EXPENSES

SCOPE Mailing	\$ 48.15
ARRL Outgoing QSL	0.00
Food	15.00
Postage	13.00
Pulk Permit Feer	125.00
Donation – Jerry Maslowski	25.00
Service Charges	<u>10.00</u>

TOTAL EXPENSES: \$ 236.75

TOTAL NET PROFIT: \$ (136.75)

Transferred from Checking to
US Postal Deposit Account \$ 200.00

Respectfully Submitted

Pamela Denomme, KB8PSF
Treasurer

**CENTRAL MICHIGAN AMATEUR RADIO CLUB
TREASURER'S REPORT
February 1, 2002**

Account Balances
As of February 1, 2002

ASSETS:

Cash & Bank Accounts	
Mich Nat'l Bank Checking	\$ 458.60
Postal Deposit	<u>339.36</u>
TOTAL Cash & Bank Accounts	\$ 797.96

Other Assets	
Comerica Bank CD	<u>\$1,482.48</u>

TOTAL ASSETS: \$2280.44

LIABILITIES: \$0.00

TOTAL NET WORTH: \$2,280.44

Income & Expenses
Jan 4, 2002 – February 1, 2002

INCOME

Coffee Fund	\$ 0.00
ARRL Dues Rebate	0.00
Dues	<u>295.00</u>

TOTAL INCOME: \$ 295.00

EXPENSES

SCOPE Mailing	\$ 47.89
ARRL Outgoing QSL	8.00
LCDRA Dues	30.00
Science Day	45.00
Donation–Rick Hayner	25.00
Service Charges	<u>10.00</u>

TOTAL EXPENSES: \$ 165.89

TOTAL NET PROFIT: \$ 129.11

Transferred from Checking to
US Postal Deposit Account \$ 0.00

Respectfully Submitted

Candace Coburn, KC8QZF
Treasurer

Note: These reports have already been approved. They are presented here for complete disclosure. Please report any inaccuracies as some of the data was hand entered by the editor and mistakes do happen.

Do You Have Any Fund Raising Ideas?

Do you have any unique fund raising ideas? If so, please share them with the CMARC board. If you are prepared to chair the committee that implements the idea, even better!

The 2002 CMARC BOARD

The 2001 LCDRA Board

The Scope is published monthly by the Central Michigan Amateur Radio Club in association with the Lansing Civil Defense Repeater Association

<i>Office</i>	<i>Name</i>	<i>Phone</i>	<i>Email</i>	<i>Office</i>	<i>Name</i>	<i>Phone/E-mail</i>
President	Michael Rhew KC8DBP	(989)725-1853	kc8dbp@arrl.net	President	Dan Harger W8BCI	(517)882-8784
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Under 22	Tyler Whitney KC8NSB	(517)337-9749	kc8nsb@arrl.net	Repeater Trustee	Dennis Boone KB8ZQZ	(517)337-0857
Editor	John Hayes KC8RQV	(517)393-2787	kc8rqv@arrl.net			
Membership	John Ingraham NG8L	(517)484-8027	ng8l@arrl.net			

Meeting: 1st Friday of every month at the Red Cross, Lansing Chapter, 1800 E. Grand River (upstairs) at 7:30 PM
Club Calls: W8MMA & W8PLP

LCDRA Call: WB8CQM

Meetings: Quarterly on the 3rd Thursday at 7:30 PM at Lansing Fire Dept., Station #8, on marshall St. at Grand River, just west of the Red Cross.

For continued membership annual dues must be paid by March 1st. Fill in the membership form on the back of *The Scope* and mail it in with a check for the appropriate amount. Make check payable to C.M.A.R.C for CMARC membership. Make checks payable to L.C.D.R.A for LCDRA membership.

February Contest Calendar

Date	Time	Event	Mode	Frequencies	Sponsor
2/2/02-02/3/02	0	Vermont QSO Party	CW/Phone	HF/VHF/UHF	Central Vermont Amateur Radio Club
2/2/02-2/3/02	0	New Hampshire QSO Party	CW/Phone	See Web Site	ARRL of New Hampshire
2/2/02	?	Minnesota QSO Party	CW/Phone	See Web Site	co-sponsored by several groups
2/2/02	0	Ten-Ten International Winter Phone QSO Party	Phone	10 meters	Ten-Ten International
2/3/02	0	North American Sprint	Phone	See Web Site	National Contest Journal
2/3/02	1800	XE International RTTY Contest	RTTY	HF RTTY	FMRE
2/2/02-2/3/02	1400	FYBO (Freeze Your B____ Off) Winter QRP Field Day	CW	QRP Calling HF	AZ ScQRPions
2/2/02-2/3/02	1700	Delaware QSO Party	CW/Phone	See Web Site	First State ARC
2/10/02	0	North American Sprint	CW	See Web Site	National Contest Journal
2/9/02-2/11/02	0	Utah QSO Party/Olympics QSO Party	CW/Phone	HF	Utah DX Club
2/9/02-2/10/02	2100	RSGB 1.8 MHz Contest	CW	160 meters	RSGB
2/9/02	1100	Asia-Pacific Sprint	CW	20 & 40 meters	AP Sprint Contest Committee
2/9/02	1700	FISTS CW Winter Sprint	CW	80-10 meters	FISTS International CW Club
2/9/02-2/10/02	2000	Classic Exchange	CW/Phone	See Web Site	
2/10/02	2000	QRP ARCI Winter Fireside SSB Sprint	SSB	See Web Site	QRP ARCI
2/8/02-2/11/02	1700	Winter 6-Meter Contest	CW/Phone	6 meters	Six Club
2/11/02-2/16/02	1300	School Club Roundup	See Web Site	See Web Site	Council for the Advancement of Amateur Radio in the New York City Schools

* Note: All information comes from the ARRL web site. This calendar covers the first half of the month only. Review the ARRL web site for more information.