

November 2006



Central Michigan Amateur Radio Club

# The Scope



Lansing Civil Defense Repeater Association

[www.qsl.net/cmarc](http://www.qsl.net/cmarc) 84 Years of Service to Our Community! [www.qsl.net/lcdra](http://www.qsl.net/lcdra)



## Just a Friendly Reminder

As Thanksgiving sneaks upon us keep in mind that Club Officers Nominations will be held Friday December 1<sup>st</sup> at our regular club meeting.

Also we will be having a potluck meal that night so please bring a dish to pass and come enjoy a good evening.

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**Breakfast groups**

1. Rod's Breakfast Bunch Each Friday - Starts about 8:00 - 8:30 AM  
location: Bob Evans Restaurant - DeWitt - north of I-69 at 13101 S. US 27 145.390 Talk in.
2. QCWA – Last Saturday of every month – at 8:00 AM – New Location: Delhi Café on Willoughby Rd.
3. 539er's – Every Saturday – 8:00 AM – New Location: Penn Ave Diner on Pennsylvania Rd near Miller.

**Regular Announcements**

Lansing VE testing is held the 2<sup>nd</sup> Saturday of the odd months at the Red Cross building.  
Registration begins at 9:30 am and testing starts at 10:00 am. The address is 1800 E.  
Grand River Lansing. The next date is?

March 11<sup>th</sup>  
September 9<sup>th</sup>

May 20<sup>th</sup>  
**November 11<sup>th</sup>**

July 8<sup>th</sup>  
January 13<sup>th</sup>

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

February 11<sup>th</sup>  
August 12<sup>th</sup>

April 8<sup>th</sup>  
**October 14<sup>th</sup>**

June 10<sup>th</sup>  
December 9<sup>th</sup>

The Delta Township Auxiliary Communications Service meetings are held on the 1<sup>st</sup> Monday of each month at Fire Station Number One on Saginaw and Canal Rd. at 7:00 pm. The Next meeting is?

March 6<sup>th</sup>  
June 5<sup>th</sup>  
September 11<sup>th</sup>  
December 4<sup>th</sup>

April 3<sup>rd</sup>  
July 10<sup>th</sup>  
**October 2<sup>nd</sup>**  
January 8<sup>th, 2007</sup>

May 1<sup>st</sup>  
August 7<sup>th</sup>  
November 6<sup>th</sup>  
February 5<sup>th, 2007</sup>

The Lansing Civil Defense Repeater Association, LCDRA, meeting is held quarterly on the Third Thursday at Fire Station Number on Marshall and Saginaw St in Lansing at 7:00 pm. The next meeting will be?

April 20<sup>th</sup>

July 20<sup>th</sup>

**October 19<sup>th</sup>**

January 18<sup>2007</sup>

April 18<sup>2007</sup>

ARPSC meets the 3<sup>rd</sup> Monday of every month @ 7:00 pm. Odd months they meet @ Fire Station 8 on Marshall and Grand River Even months they meet @ Ingham County Sheriff's Department 630 N. Cedar St Mason MI Next dates...

Odd-

March 20<sup>th</sup> May 15<sup>th</sup> July 17<sup>th</sup> September 18<sup>th</sup> November 20<sup>th</sup> January 15<sup>th</sup> 2007

Even-

April 17<sup>th</sup> June 19<sup>th</sup> August 21<sup>st</sup> **October 16<sup>th</sup>** December 18<sup>th</sup> February 19<sup>th</sup> 2007

**NETS**

Sunday-147.080 @ 8 pm. No pl tone. Eaton County Amateur Radio net.  
Monday-443.625 @ 9 pm. PI tone 100. Traders net.  
Tuesday-443.625 @ 9 pm. PI tone 100. Michigan IRLP net.  
Wednesday-443.625 @ 9 pm. PI tone 100. Canadian IRLP net.  
Friday-443.625 @ 9 pm. PI tone 100. International IRLP net. (New net)

**Nets Continued....**

The central Michigan six-meter fun net is held every Sunday evening @ 9 pm on 52.525 MHz.

The CMARC information and fun net is held every Sunday evening @ 8:30 pm on the 145.390 repeater 100Hz. PL.

The Eaton County, ECARC net is held every Sunday evening @ 8 pm on the 147.080 repeater.

Tuesday evenings @ 8 pm the QCWA- Quarter Century Wireless Association holds it's net on the 146.700 repeater, 100Hz. PL You do not need to be a member. All check-ins are welcomed.

Thursday evenings @ 7 pm the CCARA – Clinton County Amateur Radio Association holds their net on the N8ZMT repeater 145.13 (94.8 PL) and 444.850 (141.3 PL) and 146.86 (107.2 PL). You can also use 147.48 simplex.

**Please support these area nets, their survival depends on you!!!**

**Birthdays**

11/15 Randy Stortz K8VY  
 11/15 William Wing W2PMH  
 11/18 Roger Barnhill AB8RX  
 11/19 AC Stoddard W8KLN  
 11/24 Don Tillitson WB8NUS  
 11/24 Bernie Gaffney N8PVC

**Anniversaries**

11/1 Doug Goodrich N8ECL & Wife  
 11/23 Gregg Mulder WB8LZG & Wife  
 11/30 AC Stoddard W8KLN & Marion

**Central Michigan Amateur Radio Club October 1, 2006 Treasurer's Report**

## Assets

NuUnion Credit Union	
Primary Share Account (Humphries Fund)	\$ 352.69
Business Checking Account*	\$ 788.03
NuUnion Certificate of Deposit 4.15% (2-15-07)	<u>\$1629.02</u>
Net Worth October 1, 2006	<b>\$2769.74</b>

Respectfully Submitted, Don Devendorf, W8EGI

Treasurer

**Thought For The Day....**

**In order to discover who you are,  
 first learn who everybody else is.  
 You're what's left.**



### November Key of the Month

The Key of the Month for November is another KOB (key on board) practice set made for the Army during the WW2 era, by Signal Electric here in Menominee, Mich. These were used in pairs for code practice, as this model also has a small metal plate with all the letters of the code embossed to use as a quick reference for the beginner. This key is very special to me as it was my very first key. Back in 1971, my high school friend, Jim Lundy and I were studying up for our novice tickets. Our High School electronics teacher, James Gilhouse, dug up several of these old keys from surplus somewhere, and gave one to each of us when we received our licenses. Mr. Gilhouse was not a ham himself, but was a terrific mentor to his students. He recognized the power of incentive and motivation to impact his student's lives, and steered me to a career in electronics, computers, and radio. Jim Lundy became WN8KXZ, and I got WN8LZG. I used this key as a novice, and for many years after. I did a so so refurbish job on it back in 1973, but the key has seen considerable use and abuse since then. I thought about doing another restoration on it but sentiment tells me to leave it as is. 73's Gregg Mulder WB8LZG

## 2006 Club Officers

President	John Hosford	KC8QZB	517-699-2540
Vice President			
Secretary	Richard McGuire	KI8C	517-782-1430
Treasurer	Don Devendorf	W8EGI	517-332-8754
Director	Jane Hosford	KC8FSK	517-699-2540
Director	Ron Harger	WD8BCS	517-204-4897
Membership	John Ingraham	NG8L	517-484-8027
Under 22 Director	Jordan Mulder	KC8QYU	517-646-6257
Scope Editor	DeAnna Barnhill	KD8BDI	517-505-1983
Web Chairman	John Ingraham	NG8L	517-484-8027
SkyWarn Chairman	Jim Hannahs	KC8QWH	No #
Awards Manager	Don De Feyter	KC8CY	517-641-4533
Zieg. Nom.	Pam Denomme	KB8PSF	517-589-5868
VE Team Liaison	Laurence Nordeen	N8VEN	517-676-1799
VE Team Contact	Joseph Denomme	N8VYS	517-589-5868

### Briefcase Portable by Gregg Mulder

I'd been experimenting with different antennas and radio combinations in an attempt to find a good portable station that could go anywhere with me. The "radio" part was easy. These days with all of the new miniature rigs on the market, a ham has quite a choice for a full featured all mode rig in a tiny package. I chose to use an Elecraft K-1 for the rig. It has 4 bands and an internal antenna tuner that works very well, plus the rig itself is very tiny and lightweight. Since I'm only running 4 or 5 watts, the power supply was small as well. I use a pack of 10 Ni-Mh batteries in series. The pack is rated at 2500 ma/hr and will power the radio for about 12 hours of constant use the antenna, well I'm a long time believer in a good 'ol dipole. However I needed to be able to get the aerial up with out the use of a fishin' pole or a slingshot. (it all has to go in a small briefcase remember) I finally settled on an improvised vertical. I used #22 gauge stranded wire, nice and flexible, not too heavy. I cut a 33' piece for the vertical element. Then soldered one end into the center pin of a female BNC chassis connector. For the "ground" side of the connector I put a lug to clip an alligator clip to. Then made a "Radial Pac" by cutting 2 radials to 1/4 wavelength for 40, 20, 15 meters, then soldered one end of each to a large alligator clip. To get the vertical up in the air, I planned on the "Armstrong" method. A 2 oz. fishing sinker tied to a 3' piece of nylon string, then thrown up into a near by tree, or over a pole. For feed line, I used RG-174u coax. (the small stuff) I know it's not the greatest in terms of loss, but It's light, very flexible, and easy to roll up into a small roll. Besides I was only using 30 feet. Was time for the test, I decided to test it all out "FD" emergency style. The CMARC meeting was coming up so that was it. I wanted to see how quickly I could get my station on the air and make contacts, and how quickly it could be put up and taken down. Friday night I put my "station" in the car, along with a folding table and lawn chair, and headed out to the Red Cross. I arrived at 7 P. M. Took the antenna out and stretched all the radials out in the parking lot. Then I threw the vertical up in the tree off to the side. The BNC connector was near ground level. The coax was attached and the radials were "clipped on" and spread out on the ground. I pulled out the chair, set up the rig, and started calling CQ at 7:10 PM on 40 meters. Not bad, 10 min. set up, but wasn't getting any answer to my call. I switched to 20 meters and tried again. This time I was rewarded with an answer from Jack, W7CNL in Boise, Idaho! Yes! We were 559 both ways, and had a nice chat. He was also running QRP with a Ten Tec Argonaut at 5 watts. QRP to QRP across the nation! Way Cool! True he did have a 5 element Yagi-Uda for an antenna, but my station was a success. We said our 73's at 7:20 PM. And I started dismantling the station. I unclipped the antenna, rolled up the coax, pulled my radiator out of the tree, folded up the lawn chair, put everything in the car and went into the meeting at 7:30. Now That's Portable! A few of the members were trickling in to the meeting and stopped by to check things out as I was operating, and I received several nice comments, also got someone to take a picture. All in all a good test, and very fun. I'll be trying out so other small and portable antennas in the near future and I'll let u know how they perform.

Till next time 73's Gregg WB8LZG



### **Joke of the month from Jerry Hosford WA8FAK**

A cat died and went to Heaven. God met her at the gates and said, "You have been a good cat all these years. Anything you want is yours for the asking."

The cat thought for a minute and then said, "All my life I lived on a farm and slept on hard wooden floors. I would like a real fluffy pillow to sleep on." God said, "Say no more." Instantly the cat had a huge fluffy pillow.

A few days later, six mice were killed in an accident and they all went to Heaven together. God met the mice at the gates with the same offer that He made to the cat. The mice said, "Well, we have had to run all of our lives: from cats, dogs, and even people with brooms! If we could just have some little roller skates, we would not have to run again." God answered, "It is done." All the mice had beautiful little roller skates.

About a week later, God decided to check on the cat. He found her sound asleep on her fluffy pillow. God gently awakened the cat and asked, "Is everything okay? How have you been doing? Are you happy?" The cat replied, "Oh, it is WONDERFUL. I have never been so happy in my life. The pillow is so fluffy, and those little Meals on Wheels you have been sending over are delicious!"

### **Central Michigan Amateur Radio Club** **Minutes of the Board Meeting October 6, 2006**

The meeting was brought to order by club Vice President Roger Barnhill (AB8RX) at 7:09 p.m.

The following board members were present for the meeting:

Roger Barnhill (AB8RX) - Vice President

Dick McGuire (KI8C) – Secretary

Don Devendorf (W8EGI) - Treasurer

Jane Hosford (KC8FSK) - Director

The following item was discussed at the board meeting:

- Roger Barnhill (AB8RX) had submitted his resignation as Vice President at the last general meeting. The board agreed to table that resignation indefinitely. Roger is still Vice President.

Meeting was adjourned at 7:11.

### **Central Michigan Amateur Radio Club** **Minutes of the Meeting (October 6, 2006)**

The business meeting was brought to order by club Vice President Roger Barnhill (AB8RX) at 7:30 p.m.

#### **Members**

14 members were present at the meeting.

#### **Visitors**

Anna Berger

Mary Lou Tillitson

Jim Hamilton (WA8KDP)

Ruth Hinkle

Barbara Hosford

#### **Cards and Flowers**

Dick McGuire (KI8C) will send a condolence card to Roger Barnhill (AB8RX). Dick had just learned about the death of Roger's stepmother.

#### **Sick or in Hospital**

None

#### **Upgrades and New Licenses**

None

#### **Old Business**

Because of a death in the family of the editor, copies of The Scope had to be distributed at the meeting, so Dick McGuire read minutes of the September meeting at this time. The secretary's report was accepted as corrected by Rocky Beckner (K8DRB). Moved by Rocky and seconded by DeAnna Barnhill (KD8BDI). As an update to discussion reported in the minutes, Don Tillitson (WB8NUS) announced that next year's Skywarn training cannot be held in April - no open dates.

Treasurer Don Devendorf (W8EGI) announced that his latest report was printed in The Scope, except that the credit union has cancelled the \$10 service charge. The charge had resulted from a series of misunderstandings. Don also reported that he had completed the annual registration. The report was accepted as printed, moved by Bernie Gaffney (N8PVZ) (subject to annual audit) and seconded by Don Tillitson (WB8NUS). Don then made the point that all expenses related to The Scope should be submitted to Don Hinkle (KD8DJH), current treasurer of LCDRA.

Roger Barnhill (AB8RX) recognized recipients of the CMARC Lifetime Achievement award, Don Defeyter (KC8CY) and Don Devendorf (W8EGI). Neither had been present at the recent picnic, when the other awards were handed out. Both received certificates and will be identified with a nameplate on a permanent plaque. The plaque will probably be mounted on a wall of the club station downstairs, since the Red Cross has a rule against items being mounted on walls. Don Tillitson will be in charge of the mounting.

### New Business

Bob Berger (KB8RDN) initiated a discussion of the Sunday evening informational net, which doesn't always have a net control. If the scheduled net control is not present, anybody may feel free to assume net control. Roger Barnhill then asked for the net to be earlier than 8:30, but there seemed to be no agreement to change the time

Gregg Mulder (WB8LZG) announced his latest dx. Gregg claimed to be using a battery-powered, portable rig on cw, but rumor has it that Gregg really worked the dx on ssb, using a linear and 3-element beam. Roger Barnhill then reported working San Marino, and Don Devendorf "bragged" about his "grand" total of 24 confirmed in 75 years of hamming. Don is projecting that he should make DXCC in the year 2320. Per further discussion, conditions are poor now, but there is talk that the next cycle could rival the one that peaked in 1958.

Roger Barnhill announced the Kalamazoo Hamfest on Sunday, followed by various other events listed below.

### EVENT ANNOUNCEMENTS

- Kalamazoo Hamfest will be October 8<sup>th</sup>.
- Holland Hamfest will be October 21<sup>st</sup>.
- Blossomland Hamfest will be October 22<sup>nd</sup>.
- Sterling Heights, Usica, and Massilon (Ohio) Hamfests will be October 29<sup>th</sup>.

Roger then initiated a discussion on the late, lamented Hamfair, which CMARC used to hold. At the beginning of the year, he had asked whether members were interested in reviving Hamfair, and would they help. We seemed to agree tonight that, for various reasons, a new hamfest was not worth trying within the next year or so. We decided to start with a committee of DeAnna Barnhill, Rocky Beckner, Dick McGuire, and Roger.

There was discussion of the coming SET the next day. The State EOC was going to be on.

Meeting was adjourned at 8:14 p.m. Moved Bernie Gaffney and seconded by Dick McGuire.

### "Just A Radio Operator"

Copyright (c) 2006 Robert Alexander Wallace W1MQV / W1HH

Oh, I'm winning the war with a telegraph key,  
Thought I as I finished a "stack".  
I hope this is not all the action I see  
Just wearing my pants out in back.

I idly shuffle the blanks in my hand  
And glance at the five letter groups.

I think of my brother in far foreign land  
Fighting up front with the troops.

I check with my watch - where the heck's my R.J.?



I'm getting as hungry as sin.  
 An eight hour trick is enough for the day,  
 And I'm practically deaf from the din.

The "trick chief" gets up from the teletype chair  
 And says that he has one for me.  
 "Get your key oiled up, get that rig on the air,  
 Here's a honey - a long one O.P."

My relief gets a curse on his unknowing head  
 For his tardiness costs me my chow.  
 And this is a hell of a time for a sked,  
 The net's QJZ about now.

But I slip on the cans and I rattle the key  
 And the rig is again on the air.  
 I give with the dits and the dahs just to see  
 If the station I'm calling is there.

A couple of calls and he sends "QRU?"  
 So I tell him I have an "O.P."  
 He sends me a "K" and I start a tattoo -  
 Pounding brass on my telegraph key!

I pass the first fifty, then wait for an sec,  
 While he starts the next block on the sheet.  
 I've found if you don't make an op break his neck

You get fewer requests to repeat.  
 A hundred, and fifty, and then fifty more.  
 She's long, I've a thousand to go.  
 My head's getting tired, my wrist's getting sore.  
 Can't use "bug" for this guy is too slow.

I'm passing a thousand, my fist is near beat,  
 Do I want an R.J. from T.C.?  
 Not a chance, Chief, you know once my sign's on the sheet  
 No one's sending that message but me

We finally clear and I send him "AR"  
 And get one from him with his "ack".  
 The look that I give my relief leaves a scar  
 As I grab for my hat on the rack.

Later:

I read how a shipment of arms saved a corps  
 Because it arrived there in time.  
 The corps that it saved was my brother's. What's more,  
 The message that sent it was mine!

Oh, I'm fighting the war with a telegraph key  
 But as long as they want me I'll stay.  
 It may not be combat but now I can see  
 How a message can help save the day.

The above was  
 written just after  
 the "Battle of the  
 Bulge" in 1944

## Upcoming Hamfest

5 Nov 2006	+ 2006 Swapmeet Fox Cities Amateur Radio Club <a href="http://www.w9zl.org">http://www.w9zl.org</a> <b>Talk-In:</b> 146.76 - (PL 100) <b>Contact:</b> John Ensley, N9RJZ 163 Main Street Menasha, WI 54952 Phone: 920-729-0797 Email: <a href="mailto:n9rjz@tponet.com">n9rjz@tponet.com</a>	Menasha, WI Waverly Beach N 8770 Fire Lane 1 <b>Div:</b> Central <b>Sect:</b> Wisconsin
18-19 Nov 2006	* Indiana State Convention (Fort Wayne Hamfest & Computer Expo) Allen County Amateur Radio Technical Society <a href="http://www.fortwaynehamfest.com">http://www.fortwaynehamfest.com</a> <b>Talk-In:</b> 146.88 (-) <b>Contact:</b> James D. Boyer, KB9IH 3031 Wilderness Road Fort Wayne, IN 46845 Phone: 260-489-6700 Email: <a href="mailto:kb9ih@arrl.net">kb9ih@arrl.net</a>	Fort Wayne, IN Allen County War Memorial Coliseum <a href="http://www.fortwaynehamfest.com">4000 Parnell Avenue</a> <b>Div:</b> Central <b>Sect:</b> Indiana
25 Nov 2006	+ EARS & The Ham Station Evansville Hamfest Electronic Applications Radio Service <a href="http://w9ear.org/hamfest.htm">http://w9ear.org/hamfest.htm</a> Talk-In: 145.150 - , 146.925 - , 443.925 + (all PL 107.2); Backup 145.110 - <b>Contact:</b> Neil Rapp, WB9VPG 2744 Pinehurst Drive Bloomington, IN 47403 Phone: 812-333-4116 Email: <a href="mailto:wb9vpg@w9ear.org">wb9vpg@w9ear.org</a>	Evansville, IN Vanderburgh Co. 4-H Center Auditorium <a href="http://www.w9ear.org/hamfest.htm">202 E. Boonville-New Harmony Road</a> <b>Div:</b> Central <b>Sect:</b> Indiana

## 2006 ARRL NOVEMBER SWEEPSTAKES RULES

**1. Object:** For stations in the United States and Canada (including territories and possessions) to exchange QSO information with as many other US and Canadian stations as possible on 160, 80, 40, 20, 15 and 10 meter bands.

**2. Date and Contest Period:**

- 2.1. CW: First full weekend in November (November 4-6, 2006).
- 2.2. Phone: Third full weekend in November (November 18-20, 2006).
- 2.3. Contest Period: Begins 2100 UTC Saturday, ends 0300 UTC Monday.
- 2.4. Operate no more than 24 of the 30 hours.
  - 2.4.1. Off periods may not be less than 30 minutes in length.

2.4.2. Times off and on must be clearly noted in paper logs. Do not indicate off times in electronic log files. The log checking software calculates it.

2.4.3. Listening time counts as operating time.

**3. Entry Categories:**

- 3.1. Single Operator:
  - 3.1.1. QRP.
  - 3.1.2. Low Power.

3.1.3. High Power.

3.1.4. Unlimited—Packet assisted (no differentiated power levels)

3.2. Multioperator

3.2.1. Multi-Single only

3.2.1.1. Only 1 transmitted signal is permitted at any time.

3.2.1.2. No limitation on the number of band changes.

3.2.1.3. Spotting assistance is permissible.

3.3. School Club

3.3.1. There are three divisions to this category.

3.3.1.1. College and University

## 3.3.1.2. Technical School

## 3.3.1.3. Secondary and other School

3.3.2. School clubs compete as their own category.

3.3.3. Only currently enrolled regular students and faculty/staff of the institution are eligible to operate a school club entry. Alumni may "Elmer" but may not operate the station during the competition.

3.3.4. There is no distinction between Single and Multi operator stations or power levels in this category.

3.3.5. School clubs must operate from established stations located on the campus. No portable operation from a near-by contest station is allowed. A club may operate from a member's station only if no on-campus station exists.

3.3.6. Certificates will be awarded to the top scoring entry in each division of this category in each ARRL/RAC section and division.

**4. Exchange:** The required exchange consists of:

4.1. A consecutive serial number;

4.2. Precedence;

4.2.1. "Q" for Single Op QRP (5 Watts output or less);

4.2.2. "A" for Single Op Low Power (up to 150 W output);

4.2.3. "B" for Single Op High Power (greater than 150 W output);

4.2.4. "U" for Single Op Unlimited;

4.2.5. "M" for Multi-Op;

4.2.6. "S" for School Club;

4.3. Your Callsign;

4.4. Check (the last two digits of the year you were first licensed);

4.5. ARRL/RAC Section

(Example: NU1AW would respond to W1AW's call by sending: W1AW 123 B NU1AW 71 CT, which indicates QSO number 123, B for Single Op High Power, NU1AW, first licensed in 1971, and in the Connecticut section.)

**5. Scoring:**

5.1. QSO points: Count two points for each complete two-way QSO.

5.2. Multiplier: Each ARRL Section and RAC Section plus the Canadian NT (Northern Territories - encompassing VE8 / VY1 / VY0) with a maximum number of 80.

5.2.1. KP3 and KP4 are in the Puerto Rico Section.

5.2.2. KV4/KP2 and KG4 stations are in the Virgin Islands Section.

5.2.3. KH6 and other US possessions in the Pacific count as the Pacific Section.

5.3. Final score: Multiply QSO points (two per QSO) by the number of ARRL/RAC sections (plus NT VE8/VY1/VY0).

**6. Miscellaneous:**

6.1. Work each station only once, regardless of the frequency band.

6.2. Only one transmitted signal at any time is permitted.

**7. Awards:**

7.1. Certificates will be awarded to the top operator CW and Phone scores in each category ("A", "B", "Q", "U", "S" and "M") in each ARRL/RAC section and division.

7.2. All Overall and Divisional winners will be awarded a plaque recognizing their efforts. Plaques are either sponsored by groups of clubs or by the principal awards sponsor, Icom.

**8. Submission:**

8.1. Deadline for submission of CW entries is Wednesday December 6, 2006 Deadline for submission of Phone entries is Wednesday December 20, 2006. Entries emailed or postmarked after the deadline may be designated checklogs.

8.1.1. The CW and Phone mode are considered separate contests and must be submitted in separate envelopes or emails sent to the appropriate address.

8.1.2. Entries must be made on current ARRL entry forms or on a reasonable facsimile. Current forms may be downloaded in .pdf or ASCII format from [www.arrl.org/contests/forms](http://www.arrl.org/contests/forms)

8.2. Email entries for CW must be sent to [SSCW@arrl.org](mailto:SSCW@arrl.org) and Phone to [SSPhone@arrl.org](mailto:SSPhone@arrl.org)

8.3. Cabrillo formatted logs can be submitted by logging onto the web application at [www.b4h.net/cabforms](http://www.b4h.net/cabforms) and completing the required information.

8.4. Any entry that has been created using a computer for logging must be submitted in the Cabrillo log file format.

8.4.1. Files from word processing, spreadsheet programs or "bin" type logging program files are not valid or usable.

8.4.2. Any electronic file that is not submitted in required format will not be eligible for competition and awards.

8.4.3. A paper printout for a log that has been generated by a computer in lieu of the actual data file in the required format is not an acceptable substitute.

8.4.4. Paper logs that are entered into a logging program or computer after the contest are considered electronic logs and must include the required electronic file in the submission.

8.5. Hand written paper logs are acceptable entries. Any hand written paper log of 500 or more QSOs must include the required dupe

sheet.

8.6. Logs sent via the regular mail service should be addressed to:  
November SS CW or November SS Phone, ARRL, 225 Main St, Newington, CT 06111.

### 9. Other information.

9.1. See "General Rules for All ARRL Contests" and "General Rules for ARRL Contests on Bands Below 30 MHz (HF)" available at [www.arrl.org/contests](http://www.arrl.org/contests) or from the ARRL Contest Branch.

9.2. All contest queries should be directed to [contests@arrl.org](mailto:contests@arrl.org) or by telephone to 860-594-0232. All contest rules and entry forms may be downloaded from the Contest Branch Web Page at: [www.arrl.org/contests](http://www.arrl.org/contests).

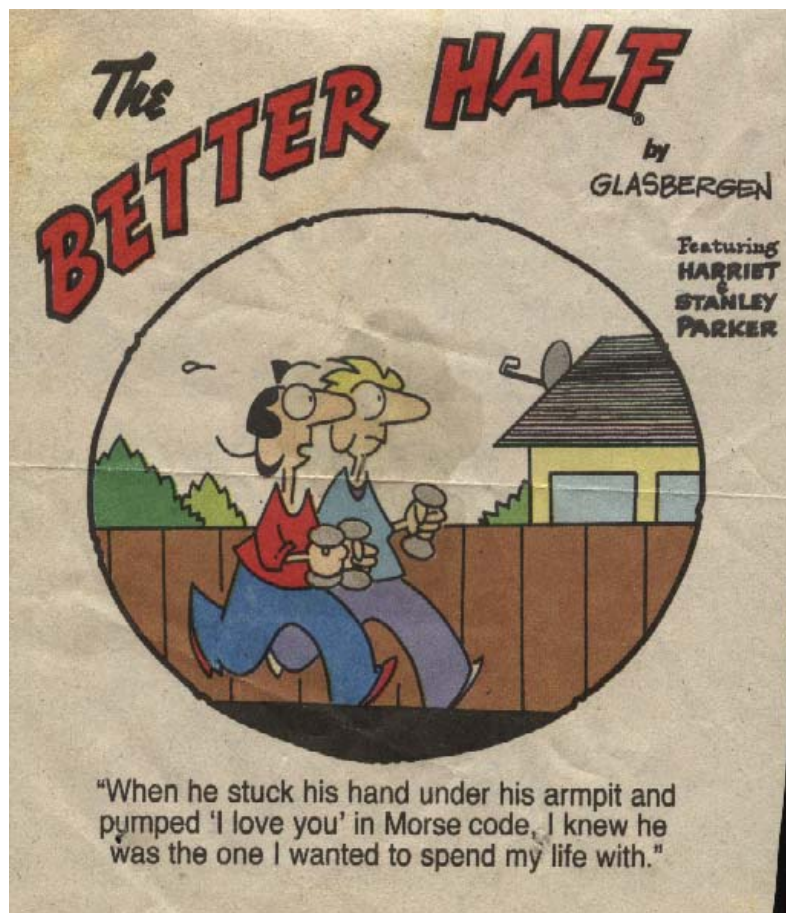
### Participation Pins

The ARRL is again pleased to continue its PINS (Participation In November Sweepstakes) program for 2006. Anyone who completes 100 contacts on CW or Phone during Sweepstakes is eligible to purchase one of these attractive Participation Pins. Pins are based on claimed scores. Each pin includes the year and mode and have become a popular tradition in the November Sweepstakes event. Pins cost \$6, including postage and handling and will be shipped after all entries have been processed and logs verified.

To order your pins, attach a note to the front of your summary sheet indicating the number of pins ordered along with your check. If you enter electronically, send a copy of your summary sheet with a note and your check attached to Sweepstakes PINS, ARRL Contest Branch, 225 Main St, Newington, CT 06111.

### Clean Sweep Mugs

Commemorate working your "clean sweep" by purchasing your 2006 November Sweepstakes mug. To earn your mug, work all 80 ARRL/RAC sections during the CW or Phone November Sweepstakes. Mug awards are based on claimed scores. The price for the keepsake mug is \$12 each, (including postage and handling.) If you submit electronically, send a paper copy of the first page of your Cabrillo file and indicate how many mugs you are ordering along with your check. If you log by paper, attach a note to the top of your summary sheet indicating how many mugs you are ordering and your check. All orders should be sent to Clean Sweep Mugs, ARRL Contest Branch, 225 Main Street, Newington, CT 06111. Your mug will be shipped after all entries and mug orders have been processed and verified. Supplies are limited. We only guarantee filling orders received by the Phone Submission deadline of December 20, 2006.



## Central Michigan Amateur Radio Club



Please print and complete the form below. Make check or money order payable to CMARC. Mail completed membership form and the membership fee to:

John Ingraham / NG8L, Membership Chairman  
 2807 Greenbriar Avenue  
 Lansing, MI 48912

NAME: \_\_\_\_\_ Call: \_\_\_\_\_  
 City: \_\_\_\_\_ St: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone: ( ) \_\_\_\_\_ Lic. Class: \_\_\_\_\_

ARRL Member?	Yes	No	(Circle Answers)
Email Scope?	Yes	No	

Email Address: \_\_\_\_\_  
 Birthday Month: \_\_\_\_\_ Day: \_\_\_\_\_

Wedding Anniversary: \_\_\_\_\_

Full Membership: \$10.00 / year  
 Associate Member: 5.00 / year

Membership dues are from January to December.

As a licensed Amateur, you can sign up today as a Full member of CMARC. This grants you voting rights and an annual subscription to SCOPE, the club newsletter. An Associate member does not have voting rights but does receive an annual subscription to the SCOPE.

## Lansing Civil Defense Repeater Association



**Lansing Civil Defense Repeater Association**

Please print and complete the form below. Make check or money order payable to L.C.D.R.A.. Mail completed membership form and the membership fee to:

L.C.D.R.A.  
 PO Box 26281  
 Lansing, MI 48909-6281

NAME: \_\_\_\_\_ Call: \_\_\_\_\_  
 City: \_\_\_\_\_ St: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone: ( ) \_\_\_\_\_ Lic. Class: \_\_\_\_\_

Birthday Month: \_\_\_\_\_ Day: \_\_\_\_\_

Full Membership: \$15.00 / year  
 2nd Membership of same family: \$ 7.50 / year

Membership dues are from January to December.

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