

"LET NO CALL GO UNANSWERED"

CLUB REPEATERS

146.940 (-) (94.8PL)
(Patch w/*key and end w/#)

444.55 (+) (94.8PL)

ARES/RACES
146.82 (-) (94.8PL)

Flashovers

Newsletter of the Muskegon Area Amateur Radio Council
Since 1941

PO Box 691 Muskegon, MI 49443
Club Station, W8ZHO
2888 Scenic Drive

www.qsl.net/w8zho
w8zho@arrl.net



Editor: Tom Porritt, N8YJT
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November 2009
Vol. 69 No. 11

2009 MAARC Leadership

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Bob, N9AUJ

Dan, N8PPQ

Chuck, W8CCS

PRESIDENT'S CORNER

Tom Nickisch, W8AMZ
w8amz@yahoo.com

Greetings to all, It's hard to believe another month has come and gone so fast and of course we have had the burden of losing another club member and close friend, Bruce Reffeor, WD8KPK. Bruce was a man of many accomplishments, teacher, businessman, carpenter, and skydiver in addition to his Ham radio. My thoughts and prayers go out to his wife, Char, WD8LGN, and their family. He will be truly missed.

On a brighter side of things, last month we enjoyed a great time at the clubhouse for JOTA with 40 Boy Scouts and Cub Scouts. The experience of getting them behind the microphone and on the air was memorable.

This month we have the ARRL November CW Sweeps on the 7th and 8th and SSB Sweeps on the 21st and 22nd, each running for 24 hours. I would like to invite everyone out to the clubhouse to enjoy dinner and friendship on the 21st. We will have plenty of food for every-

MAARC Calendar

November 2009		
	Date	Contact
Silversides Veteran's Day Recognition	1st	W8GXT
2 Meter Net	4th	KD8BIG
Club Meeting	5th	W8AMZ
ARRL CW Sweepstakes	7th—8th	W8GXT
Open Shack Night	9th	N8PPQ
2 Meter Net	11th	N8YJT
QCWA	12th	
Open Shack Night	18th	W8GXT
2 Meter Net	18th	N8YJT
ARRL SSB Sweepstakes w/ potluck	21st—22nd	NA8M/ W8AMZ
Board Meeting	23rd	W8AMZ
2 Meter Net	25th	NA8M
December 2009		
2 Meter Net	2nd	KD8BIG
Club Meeting	3rd	W8AMZ
Soup Supper	5th	W8AMZ
2 Meter Net	9th	N8YJT
QCWA	10th	
Open Shack Night	14th	N8PPQ
2 Meter Net	16th	N8YJT
2 Meter Net	23rd	N8YJT
Board Meeting	28th	W8AMZ
2 Meter Net	30th	NA8M

one. You can bring a dish if you like but it will not be required. We will start eating around 5pm and there will be no charge, however, you may make a dona-

AREA COFFEE BREAKS & BREAKFASTS

Pine Street Café
Spring Lake, 7AM Saturday

Whitlow's Restaurant,
8:30AM Saturday

Gary's Restaurant, White-
hall, 7AM Saturday

Fruitport Village Inn, 9:00AM
Monday

Russ' Restaurant, Grand
Haven, 8:30PM Tuesday

Side Street Cafe, Fremont.
First Saturday of every
month at 8AM

Sherman Blvd Arbys
8PM Sundays

tion. While you're there feel free to take the microphone and make a few contacts. I hope to see everyone on the 21st. I would love to be able to earn a "Clean Sweep" mug this year. We have come so close in the last couple of tries.

On a quick final note, Bill, N8AM, could sure use any recommendations you may have on choices for club Secretary and Vice President for next year. You could even throw your own hat in the ring. 73' de Tom W8AMZ

SPECIAL EVENT STATIONS

Nov 5-Nov 8, 1700Z-1700Z, Whitefish Point, MI. Stu Rockafellow Amateur Radio Society, N8F & K8F. Remembering the *Edmund Fitzgerald*. 18.160



HOWARD LEARNS THE HARD WAY TO ADOPT A LESS LITERAL INTERPRETATION OF THE TERM "BOAT ANCHOR."

**NEXT MAARC MEETING
THURSDAY
November 5, 2009 @ 7PM**

**Program by
Jim Meyers, KC8PCJ, on
"Ham Radio by Satellites"**

14.260 7.260 3.860. Certificate. Richard Barker, W8VS, 264 N East St, Brighton, MI 48116. www.qsl.net/w8njh

Nov 7, 1500Z-2000Z, Livonia, MI. Livonia Amateur Radio Club, W8F. Sinking of the Edmund Fitzgerald in Lake Superior. 14.260 14.040 7.250 7.125. Certificate. Bruno Walczak, WA8DHP, 16601 Golfview, Livonia, MI 48154-2139. *Will operate on*

On Saturday November 7th the ARRL CW Sweepstakes contest will start at 4pm and continue through Sunday night on the 8th ending at 10pm. If anyone is interested in operating or logging they should come on out to the club house or contact Dan, N8PPQ, or Kirk, W8GXT. This contest is fun yet quite challenging due to the long exchange required for each contact.

Thanks, Kirk, W8GXT

10, 15, 20, 40 and 80 m as conditions permit. www.livoniaarc.com

Nov 7, 1700Z-2359Z, San Diego, CA. USS Midway (CV 41) Museum Radio Operations Room, NI6IW. Veterans Day and US Marine Corps Birthday 1775. SSB 14.320 7.250 PSK-31 7.050 CW 14.060 7.055 D-STAR 2m/70cm SOCAL rep. QSL. USS Midway Museum Radio Room, 910 N Harbor Dr, San Diego, CA 92101. kk6fz@arri.net

Nov 7-Nov 9, 1600Z-0200Z, Split Rock, MN. Stillwater Amateur Radio Association, W0JH. Remembering the *Edmund Fitzgerald*, 35th Anniversary, from Split Rock Lighthouse. 21.360 14.260 7.260 3.860. Certificate. Stillwater Amateur Radio Assoc, W0JH, 1618 West Pine St, Stillwater, MN 55082. w0jh@arri.net or www.radioham.org

Nov 10-Nov 12, 1700Z-2100Z, Iron Mountain, MI. Mich-A-Con Amateur Radio Club, K8V. UP Veterans Memorial atop Pine Mountain. 14.230 14.060 7.230 7.060. Certificate. Thomas Martin, 812 West B St, Iron Mountain, MI 49801. w8jwn@arri.net or www.qsl.net/ka1ddb

Nov 11, 1400Z-2200Z, Emporia, KS. Emporia Amateur Radio Society, K0V. Veterans Day. 14.268 7.262 3.920. QSL. Conrad Steinel, K0UER, 950 Oxford Dr, Empoira, KS 66801. www.qsl.net/emporiaars

Nov 11, 1500Z-2245Z, Baton Rouge, LA. Baton Rouge and USS Kidd Amateur Radio Clubs, W5KID. Veteran's Day. SSB: 15 20 40 m Gen & above RTTY subband CW: QRP sub bands. QSL.

VHF NETS

Sunday:

MCECS Net:
146.82—7:30PM

West MI Traffic
145.33 – 9 PM

Monday:

IRA
145.33 – 8 PM

West MI Traffic
145.33 – 9 PM

Tuesday:

NOARC
145.49 – 8 PM

Wednesday:

MAARC 2 Meter
Net
146.94—7PM

West MI Traffic
145.33 – 9 PM

Friday:

West MI Traffic
145.33 – 9 PM

STATEWIDE ARPSK NET

Sunday 5 PM
3932 MHZ

TEENAGE NET

M – F 6:00 PM
3.945 MHZ

BATHROBE NET

Daily 9AM
14.235.5 MHZ

MITN

Daily 7PM
3.952 MHZ

HAIRNET

Sunday morn-
ings, 8:00AM
3945 +/- QRM.

W5KID, 305 S River Rd, Baton Rouge, LA 70802. *Primary frequency is 20 meters.* www.lsu.edu/brarc/uss_kidd.htm

Nov 11, 1500Z-2300Z, Bellevue, NE. Strategic Air Command Memorial Amateur Radio Club, K0GRL. To honor the service & sacrifice of all vets on Veterans Day. 18.147 14.247 7.247. QSL. SACMARC Inc, K0GRL, PO Box 1292, Bellevue, NE 68005-1292. treasurer@sacmarc.org

Nov 11-Nov 15, 1600Z-2100Z, Arlington Heights, IL. Armored Force Amateur Radio Net, KA9NLX. Veterans Day in honor of all military veterans. 14.325 7.283 MT63/Olivia/ MFSK 10.133 and 2 meters. Certificate. John Paskevicz, 1423 N Ridge Ave, Arlington Heights, IL 60004. jpaskev@aol.com

Nov 27, 1300Z-2000Z, Eastham, MA. KM1CC Marconi Cape Cod Radio Club, W1P. 111th anniversary of the sinking of the Steamer PORTLAND. 14.310 14.030 7.260 7.030. QSL. Henry Brown, K1WCC, 19 Sao Paulo Dr, East Falmouth, MA 02536. k1wcc@arrl.net

Nov 28, 1500Z-2200Z, Manitowoc, WI. USS Cobia Amateur Radio Club, NB9QV. 66th Birthday of USS Cobia WWII Submarine. 14.260 7.250. QSL. Fred Neuenfeldt, W6BSF, 4932 S 10th St., Manitowoc, WI 54220-9121. www.qrz.com/nb9qv

Nov 28-Nov 29, 0001Z-2359Z, All US call areas. Ten-Ten Club, W6OI. 10-10 Special Event. 10 m. Certificate. Jack Moore, K5CC, 371 Ridge Creek Ln, Bulverde, TX 78163. QSL and certificate available. www.ten-ten.org

DID YOU KNOW?

Before S.O.S. (Save Our Ship) became the recognized international distress signal in 1908 C.Q.D. (Come Quick Danger) was used.

WHAT IS A RADIO CLUB?

By Dan, N8PPQ

"I saw an article very similar to this on the internet some time ago and saved it. It expressed the importance of the "club" very well, so I have used parts of it and adapted it to my current thoughts about the future of MAARC".

Have you taken time lately to reflect on the importance of a radio club? While the members of a club like "MAARC" have a broad range of interests in Amateur radio, it is not unreasonable to look at the club as an extended family. It is a place where we learn, where we share, where we grow, where we help our members and ultimately where we reach the world to nurture and to protect our hobby. If all of us engaged in the hobby individually, without local clubs, Amateur radio would not exist as it does today.

Constructing our fixed and mobile installations and operating them is the essence of Amateur radio. We invest our own creative ideas, interests, and accomplishments in them - the foundation of what Amateur radio is all about. However, Ham radio is more than individual accomplishment. There are social and political essentials that must be recognized and addressed. The well-being of Amateur radio as an institution depends on our ability to defend and advance our hobby. There is no better place to do this than in the club. Let us look at some of the facets of the hobby where a club should have involvement, and some of the characteristics that result from a well lead, soundly established, and actively involved club.

- Teaching:** The teaching and educational aspects of the club are the most important. There are clubs that specialize in this vital service to Amateur radio. It takes a crew of talented and dedicated people who give of their time to this endeavor. If not the major focus of a club, every club should at least have this as an aspect of their standard program. There is no doubt that the tremendous growth of licensed Amateurs in the US in recent years (approximately 450,000 in the 1980s to over 663,000 today) is due in large measure to the clubs who promote and sponsor courses to obtain FCC licenses. Teaching clubs offer also a social home for the newcomer and the experienced Ham alike. Successful clubs offer the newcomer the chance to share in worthwhile projects. They welcome the newcomer and get them involved. Countless learning and sharing opportunities make the transition

from neophyte to experienced Ham a rewarding and more likely experience.

2. **Committees:** There are committees for almost everything that applies to the field of Amateur radio. antenna raising, TVI, repeaters, community events (parades and sporting events), emergency services, nets, hamfests, flea markets, Field Day, education and training, dinners, the summer picnic and the Christmas party. The uninitiated learn from the experienced and - yes even teach new tricks to old timers too. To be successful a club needs to be innovative.

3. **Business Meetings:** Meetings are necessary to coordinate and communicate and to hear the needs of the members. It is a time to participate, to suggest, to volunteer. They can be time consuming and boring if not disciplined, kept on track, and in perspective. An effective club offers a continuing array of special presentations and interesting guest speakers. Covering traditional topics such as antennas and equipment novelties is not enough today. Computers, ham radio software, and product reviews attract great interest. Packet radio and Amateur satellite operating technologies are popular topics for learning and discussion. Announcing ahead of time to members and friends what the discussion topic will be for the next business meeting can be a great asset to bring the stay-at-home members out to the meeting.

4. **Hobby Politics:** Another important dimension of the club is the basic forum of our hobby politic! Here's where democracy takes on meaning. Here's where leaders are nurtured and honed. And leadership is a most important and crucial part of interacting with our neighbors, our communities, our government and vital international organizations. It is not unreasonable to suggest that this aspect of the club's power is often overlooked by many of us. We need effective leaders at the local, state, and national levels. The club is where they get their start.

5. **Progressive Programs:** It is important for those outside of the club to see the club as a progressive member of the Amateur radio community. An aggressive educational program, visibility in the general community, and up-to-date and accessible facilities will convey this message.

The bottom line is that it is necessary for the club to be relevant to the prospective Ham to gain their support and the current member to keep their loyalty. This takes good leadership. Leadership that has a vision for all of the aspects above.

The club gives meaning and strength to our cause. It is community at its best! So attend your local club meetings. Your presence and support are needed and welcome. Get involved and share your knowledge and your talents with others so that our great hobby will not only survive, but will thrive too!

"I have lost the specific reference to the original article but I do not believe it was copyrighted so I use parts of it here with apologies to the original author if I am wrong."

The ARRL Letter
October 22, 2009

AMATEUR RADIO IN SPACE: SUMBANDILASAT NOW OSCAR 67

The South African Amateur Radio satellite [SumbandilaSat](#) has been officially designated SumbandilaSat-OSCAR 67, or simply OSCAR 67. Last weekend, the satellite was successfully activated and tested with a number of contacts made through its transponder, but it is not yet open for routine use. The satellite was launched from the [Baikonur Cosmodrome](#) in Kazakhstan on September 17. The main payload is a multi-spectral imager, but the satellite also carries an Amateur Radio component consisting of a 2 meter/70 cm FM repeater. After SumbandilaSat is fully commissioned, the repeater will be activated with an uplink at 145.880 MHz and a downlink at 435.350 MHz; there will also be a voice beacon at 435.300 MHz. The transponder mode will be controlled by a CTCSS tone on the uplink frequency. SumbandilaSat was sponsored by the Department of Science and Technology and was built at [SunSpace](#) in cooperation with the [Stellenbosch University](#). In addition to the SA-AMSAT amateur module, the satellite carries Stellenbosch University's radiation experiment and software defined radio (SDR) project, an experiment from Nelson Mandela Metropolitan University and a VLF radio module from the University of KwaZulu-Natal.

REGULATORY: FCC ISSUES PUBLIC NOTICE ON AMATEUR SERVICE COMMUNICATION DURING GOVERNMENT DISASTER DRILLS

On October 20, 2009, the FCC released a *Public Notice* clarifying the Commission's rules relating to the use of Amateur Radio by licensed amateurs participating in drills and exercises on behalf of their employers. Entitled *Amateur Service Communications During Government Disaster Drills*, the *Public*

Notice addresses participation by paid employees of organizations taking part in drills.

The Public Notice -- [DA 09-2259](#) -- affirms that the Commission's rules "specifically prohibit amateur stations from transmitting communications 'in which the station licensee or control operator has a pecuniary interest, including communications on behalf of an employer.'" ARRL Regulatory Information Manager Dan Henderson, N1ND, said that "This *Public Notice* is intended to clarify a difficult issue. A wide range of unofficial -- and frankly some incorrect -- interpretations have been offered on this topic in various public forums recently. DA 09-2259 is the official FCC notice on this issue. Though issued jointly by the Wireless Telecommunications Bureau ([WTB](#)), the Enforcement Bureau ([EB](#)) and the Public Safety and Homeland Security Bureau ([PSHSB](#)) under delegated authority from the Commission, the *Notice* makes it clear that WTB is the Bureau at the FCC with jurisdiction over the Amateur Radio Service rules and their interpretation."

The *Public Notice* states that, in order to facilitate participation by employees who wish to engage in government-sponsored drills and emergency exercises on behalf of their employers, a waiver can be requested from the WTB *by the government agency sponsoring the drill or exercise* (and not by the individual who wishes to participate in the drill or exercise). The government entity conducting the drill must include in its waiver application the following information:

- When and where the drill will take place,
- Identification of the amateur licensees expected to transmit amateur communications on behalf of their employer,
- Identification of the employer(s) on whose behalf the amateur(s) will be transmitting, and
- A brief description of the drill.

"It should be noted," Henderson said, "that the waiver request must be filed and acted upon *in advance* of the drill. The waiver must be actually granted by the Commission *before* the amateurs participate in the drill. It is not enough to apply -- the waiver must be granted first."

Henderson added that the *Public Notice* also emphasizes that in an *actual emergency*, the Part 97 rules "provide that an amateur station may use any means of radiocommunication at its disposal to provide essential communication needs in connection with the immediate safety of human life and the immediate protection of property when normal commu-

nications systems are not available." In those specific circumstances, the rule waiver is not necessary. Government entities requesting a waiver for their emergency/disaster drill should submit a written request addressing the factors listed above to Wireless Telecommunications Bureau, 445 12th St SW, Washington, DC 20554, Attn: Scot Stone.

A waiver is needed only for those licensees transmitting messages on behalf of their employer during the State and local government public safety agency's "occasionally conducted emergency preparedness or disaster drills test or drill." This may, after analysis, turn out to be very few licenses or, by rearranging functions of participants, a waiver may not be needed. The Commission has also emphasized that *only governmental agencies* may apply for a waiver.

In September, the ARRL released [guidelines](#) that address numerous aspects of the issue of business communications in the Amateur Service.

The ARRL Letter

October 29, 2009

CHANGES FOR THE 2009 NOVEMBER SWEEP-STAKES

Amateurs throughout the US and Canada will take part in the longest-running domestic contest, the 76th [ARRL November Sweepstakes](#). Since 1930, this tradition in Amateur Radio has brought out all kinds of amateurs -- from seasoned contest veterans to neophytes, from long-time traffic handlers to operators new to HF. The CW running of Sweepstakes takes place, November 7-9, while the SSB weekend is November 21-23. Each event runs from 2100 UTC Saturday until 0300 UTC Monday. All entrants may operate 24 out of the 30 hours.

According to ARRL Contest Branch Manager Sean Kutzko, KX9X, there are some big changes with the 2009 ARRL Sweepstakes, specifically with log submission deadlines and the turnaround time for final results. "The contesting community has long asked for a faster turnaround with the contest results," he said. "This year, we will aim for having the results online on the ARRL Web site in a PDF only 60 days after each edition of Sweepstakes. This PDF will only be the scores; the detailed report and analysis will still be in the May and June issues of *QST*, as always."

(Continued from page 5)

NEW HAMs, UPGRADES, RENEWALS, CALL SIGN CHANGES, LICENSE ACTIVITY From FCC Web Site For Muskegon County Area Through October 30, 2009

Please congratulate these Hams when you hear them

CALL	NAME
KB8IRL	RUMLEY, STEPHEN E
KC8NOQ	HERMANSON, CHARLES A
KC8NRD	DURAM, JESSICA R
KD8BIG	STRAIT, MARK D
KD8MDE	WHELPLEY, RICHARD A
KD8MDF	WHELPLEY, KATIE A
KD8MGI	TRUAX, JONATHAN C
KD8KQP	GRAY, TIMOTHY D

"Let No Call Go Unanswered"

To make this faster turnaround possible, logs must be received at ARRL HQ within **15** days of the end of the contest, not 30 days, as it has been for years. Log submission deadlines are **0300 UTC Tuesday, November 24 for CW and 0300 UTC Tuesday, December 8 for Phone**. Kutzko said that the preferred method of log submission is the Cabrillo electronic format.

"We have several links on the [ARRL Contest Branch Web page](#) devoted to Sweepstakes tutorials, including how Cabrillo works and even templates for submitting an entry," Kutzko explained. "While the ARRL will never turn away a paper log, we are asking all entrants to submit their log electronically if possible; this will greatly help us to publish the scores in 60 days as many participants have requested. Contest clubs are encouraged to assist their club members with paper logs in the Cabrillo conversion process. The [WA7BNM Cabrillo Web Forms site](#) will walk you through creating a Cabrillo-formatted log.

Numerous certificates and plaques will be awarded, thanks to [ICOM America](#), the principal awards sponsor of the November Sweepstakes. Special participation pins and Clean Sweep mugs will be available for purchase as always. Pins are available for \$6 to any station that submits a log with more than 100

QSOs. Clean Sweep mugs will be available to any station that submits a log with all 80 Sections worked; mugs cost \$12.

"Sweepstakes has been a part of Amateur Radio for nearly eight decades," Kutzko said. "Don't sit this one out. Check the ARRL Contest Branch Web site for your Sweepstakes 'how-to' package, get on the air, have fun and take part of one of Amateur Radio's finest traditions -- CQ SS!

THIS WEEK ON THE RADIO

Look for the NCCC Sprint on October 30 and November 5. The High Speed Club CW Contest is November 1 and the ARS Spartan Sprint is November 3. The CW portion of the [ARRL Sweepstakes](#) is November 7-9 and the [ARRL EME Competition](#) is November 7-8. There is another running of an NCCC Sprint on November 6. The Ukrainian DX Contest is November 7-8. The North America Collegiate ARC Championship (CW) is November 7-9. The SKCC Weekend Sprint is November 8. All dates, unless otherwise stated, are UTC. See the [ARRL Contest Branch page](#), the [ARRL Contest Update](#) and the [WA7BNM Contest Calendar](#) for more info. Looking for a Special Event station? Be sure to check out the [ARRL Special Event Station Web page](#)

DID YOU KNOW?

Most hams today think of WWV and WWVH as time stations. However, that's only half-true: they are really time and frequency stations. The time signals that you hear are regulated by an atomic clock that uses the oscillations of Cesium atoms as its standard -- 9,162,361,770 oscillations equal 1 second.

YOU MIGHT BE A HAM IF.....

1. YOUR WIFE SAID "LETS GO SEE AUNT ANNA AND YOU THOUGHT SHE SAID ANTENNA!
2. YOUR WIFE SAID "COULD YOU CUT THE GRASS?" AND YOU THOUGHT SHE SAID POUND THE BRASS!
3. YOUR WIFE SAID "WE'VE BEEN INVITED TO BREAKFAST AND YOU THOUGHT SHE SAID HAM FEST!
4. YOUR WIFE SAID "SOMETHING IS WRONG WITH THE CHECK BOOK AND YOU THOUGHT SHE SAID LOG BOOK!
5. YOUR WIFE SAID "IS MY SEAM STRAIGHT? AND YOU THOUGHT SHE SAID, " IS MY BEAM STRAIGHT?'

You might be hard of hearing too!!



ASK ELMER (Advice for the Ham)

Dear Bone Head,
Does a low SWR always mean you have a good antenna?

Sincerely, Dummy Load

Dear DL,
I think you answered your own question.

Sincerely, Elmer

Elmer would like to hear from you too. Write to him at: *Flashovers*, PO Box 691, Muskegon, MI 49443-0691 or contact him through the editor, n8yjt@arrl.net



EDITOR'S CORNER

On January 9th we will have another Leadership and Planning workshop. The objective of these workshops has always been to define leadership roles, to make plans for the coming year, and to give direction to the years beyond.

Every year the results have been similar in that we have identified increasing the membership of the club as the one key marker of how we are doing.

Each year we have laid out plans that, if implemented, we thought would result in increasing membership. Unfortunately, every year, time and resources being what they are, the plans seem to be unfulfilled and membership has continued to decline. Hopefully 2010 will be different and we'll finally be able to test our theory. Until next time.
73 Tom, N8YJT

**MEMBERSHIP APPLICATION 2010
MUSKEGON AREA AMATEUR RADIO COUNCIL
PO BOX 691
MUSKEGON, MICHIGAN**

PLEASE PRINT CAREFULLY:

NAME: _____ **CALL** _____
FIRST MIDDLE LAST

ADDRESS: _____
STREET CITY STATE ZIP

TELEPHONE: _____ **EMAIL** _____

PLEASE CIRCLE THE APPROPRIATE RESPONSE BELOW

ARRL MEMBER?: YES NO WOULD YOU LIKE TO RECEIVE FLASHOVERS BY EMAIL? YES NO

ANNUAL DUES: REGULAR MEMBER (\$25.00) ADDITIONAL FAMILY MEMBER IN THE HOME (\$10.00)
ASSOCIATE MEMBER (\$10.00)

THIS IS A: RENEWAL NEW MEMBER APPLICATION

DONATIONS
GENERAL FUND \$ _____ REPEATER \$ _____ OTHER (DESIGNATE) \$ _____



M.C.E.C.S. Inc
 (Muskegon County Emergency
 Communication Services, Inc.)
 1611 E. Oak Avenue
 Muskegon



Meeting Second Monday of Each Month at 7:00 PM
Everyone Welcome

K8WNJ 146.82 (94.8 PL)



BUS. PHONE: (231) 728-0437
 FAX: (231) 728-9381
 CELL (231) 557-3689

Kamm Electric Inc.
MOTORS

Industrial and Residential • Sales and Repair
Pump Sales and Repair

DALE AND PAT BOGNER
 OWNERS

220 W. LAKETON AVE.
 MUSKEGON, MI 49441

This Space Available

This Space Available

Help Needed - The club house could use your donations of time and money towards maintenance and improvements. Please consider what you may be able to do to help
 Contact N8PPQ

MUSKEGON AREA AMATEUR RADIO COUNCIL
 PO BOX 691
 MUSKEGON, MI 49443-0691
 POSTMASTER: RETURN WITH ADDRESS
 CORRECTION REQUESTED IF UNDELIVERABLE



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