



FEEDBACK

MARCH 2009



SMARS will be meeting at the Masonic Temple

DECISIONS

Sometimes a decision made in response to a problem can lead to another even greater problem. Such is the case with this years Crossroad Swapfest.

For years, the SMARS has held their swapfest on the third weekend in March. The most important reason for this is that Maumee also held their Swapfest on the third March weekend. SMARS has believed that by having our swap on the same weekend as Maumee has theirs, it would result in a greater chance of getting people to participate in both. To present a presence at a swap, a sales group needs to pack up material for sale, commit more workers than usual for that time (someone has to run the store while a staff is on the road) as well as taking care of housing and eating for the traveling group, It seems obvious that splitting the costs over a single weekend would be less expensive than two different weekends.

Overlooked was the effect of a basketball tourney, as it had never been a factor in prior years. This year the third weekend for Maumee is the second weekend for SMARS and the result is a conflict with basketball tourneys.

This means that we will need workers at Marshall during the afternoon to offload the tables and chairs and then late in the evening after the ball game we will need to be back at the gym to set up the tables. It appears that about 2:30 in the afternoon for the first period and then back in the evening at 9:30 or 10:00 for the setting up.

We need workers to help in all facets of the Swap. The Swapfest supports the activities of the club and need everyone to pitch in: sell tickets at the door, carry tables, whatever. A ten dollar membership doesn't go very far. We need the proceeds of the swap to function.

OOPS

A Couple of Good Reasons to Cultivate a Good Relationship With Local Police

A couple of news items have been brought to my attention that deal with the relationship between amateur radio and the police. Gets me to thinking about what, if anything, I could do to improve the relationship between the ham community and our local police forces.

Police Detonate Ham Radio Equipment Mistaken for Bomb, - KPTM-TV, Omaha,NE,USA

— a midtown neighborhood briefly Thursday morning for what was originally thought to be a bomb, but in the end, it turned out to be ham radio equipment — Maybe this should have been titled, "How to Make a Bang With Ham Radio".

Indianapolis Police Busted for Bootlegging on 2m - TheIndyChannel.Com

Not only were the police using the amateur radio transceivers illegally, the radios were installed by police technicians AND they were using profane language on the air. Amazing.

Dan KB6NU

ECHOLINKS

W8DF-R handled 111 connections during February. Nothing exotic shows in the logbook for the month.

I find a number of the stations showing up are new hams. I also find a large percentage have a connection to the Battle Creek area from the past. It appears that because Battle Creek is associated with the Echolink node, it is a drawing card. Kind of neat.

You should find the logbook at www.w8df.com if you have any interest as to who has been here.

Just a note-today, I picked up a call on our 224.24 repeater from CN8BH. He was mobile in the Kingdom of Morocco. Looking at the Echolink screen, I found only 1 station, a link, listed in Morocco. There are usually around 4500 stations worldwide on at any time.

Don W8RVT



BELIEVE IT OR NOT

If you travel along the coast line in England, just don't plan on immediate help if you get in trouble and need to be rescued.

About 400 coastguard units that have Land Rovers equipped for special needs must fill out the paperwork before responding to a distress call.

The Daily Mail reports the 'vehicle pre-journey risk assessment' forms include four questions about the nature of the mission; an explanation of the reason for the journey; details of any risks involved, including current and forecast weather; and planned steps to mitigate risks. A leader must then answer a yes/no question about whether the risk is acceptable.

As might be imagined, the 3,200 rescue workers affected are outraged at the latest in what's being called a string of health and safety rulings recently issued by the Maritime and Coastguard Agency, which also employs a fleet of search-and-rescue air craft.

One coastguard commented, "When we were first told about this, we simply couldn't believe it. When we get a call asking us to go out and rescue someone, we need to go there without delay... do they expect us to get a full weather forecast before we go out? Do they really want us to find out what the traffic conditions will be?"

"The impression we get is that the bosses are doing everything they can to make sure their hands are legally clean if there is any kind of problem."

This isn't the first recent case of red-tape-gone-wild. In November, the Department for Transport told coastguards they must start using torches for nighttime search and rescue, because flares might injure someone.

The Mail reports that in August, a three-man coastguard crew from Devon was disciplined because they rescued a 13-year-old girl 150 yards off shore using a boat that had not been passed by health and safety officials.

Don't be too surprised if the Transportation Security Administration adopts a similar attitude and requires a risk assessment from any emergency responder such as fire department or ambulance service.

BEWARE! THIS MIGHT WORK

5 MINUTE CHOCOLATE MUG CAKE

A> You need ---

4 tablespoons flour
4 tablespoons sugar
2 tablespoons cocoa
1 egg
3 tablespoons milk
3 tablespoons oil
3 tablespoons chocolate chips (optional)
A small splash of vanilla extract
1 large coffee mug

 You do --

Add dry ingredients to mug, and mix well.
Add the egg and mix thoroughly.

Pour in the milk and oil and mix well.

Add the chocolate chips (if using) and vanilla extract, and mix again.

Put your mug in the microwave and cook for 3 minutes at 1000 watts.

The cake will rise over the top of the mug, but don't be alarmed!

Allow to cool a little, and tip out onto a plate if desired.

EAT! (this can serve 2 if you want to feel slightly more virtuous).

And why is this the most dangerous cake recipe in the world?

Because now we are all only 5 minutes away from chocolate cake at any time of the day or night!

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2009 MICHIGAN QSO PARTY

It's that time of year again! It's time to gear it up and get ready for the 2009 Michigan QSO Party. The MiQP has something to offer for everyone and there is no shortage of reasons for joining in on the fun on April 18th, 2009.

In spite of the crappy conditions, last year was a good year for the MiQP. Activity was up and we had over 300 entries and we hope to do even better this year. We are hoping to see an increase in activity within the traditional amateur radio clubs in Michigan. I think that most clubs are looking for special activities and the MiQP has some features that should be considered in filling this need. This is a great event to generate club activity.

It's just a great excuse to get on the air, have fun and be hunted by hams around the country and world, the MiQP offers training opportunities for new hams; it can serve as a tune up for emergency operations by setting up and operating from your club EOC. It's a chance to fire up the club station, or get ready for Field Day by operating from some rare county.

In addition to the normally awarded plaques and certificates different categories, there will be a special "Rookie of the Year Award" in 2009. It should also be noted that the ARRL has declared 2009 "The Year of the State QSO Party" and is offering a special certificate. Others will need to work Michigan stations during the QSO party to earn the Michigan flag for their ARRL award

<http://www.arrl.org/awards/ysqso/>

As you can see from the rules listed below, this is only a 12 hour event. Please consider getting on the air for the whole thing, or any portion of the 12 hour period. You can operate from home, portable, mobile or at the club's station or EOC. With the support of mobile and portable stations, we plan on having activity in all 83 counties. Maybe someone in our club would like to activate a rare county?

Last but not least, we ask those of you that have participated in the MiQP to please help us get the word out and encourage other Michigan hams and radio clubs to participate and join the fun. See <http://www.miqp.org> for more details and the rules!

Date

Time:

Michigan QSO Party, sponsored by the Mad River Radio Club, from 1600Z April 18th until 0400Z Stations ate the full 12 hours. (12 noon on the 18th until 12 midnight local Michigan time)

Modes and Categories: Phone and CW on 80/40/20/15/10 meters. Single-op, multi-op, mobile and Emergencies Operations Center (EOC) and "Rookie" categories.

Single-op entries are categorized by output power, QRP

(5W or less), Low Power (100W or less), and High Power (greater than 100W).

Multipliers: Work stations once per band and mode. Work other states and Michigan Stations. MI to MI QSO's are allowed. Work portables and mobiles again as they change counties, state or province.

Exchange:

Exchange QSO number and location (county for MI stations, state/province or "DX" for others).

Scoring:

One point per phone QSO, two points per CW QSO. Count multipliers once per mode. Multipliers are MI counties for all entries, plus states & provinces for MI entries only. Final score is total QSO points times total multipliers.

Freqs:

Suggested frequencies:

CW-3545, 7045, 14045, 21045, 28045;

Phone-3800, 7200, 14250, 21300, 28450.

Log

Submittal:

Mail logs no later than 30 days after the contest to:

Mad River Radio Club,

c/o Dave Pruett,

2727 Harris Road,

Ypsilanti, MI 48198

or via e-mail to

logs@miqp.org

More

Information:

For complete rules, along with free logging software, log and summary sheets, and Fliers see <http://www.miqp.org>

73

es cu April 18th 2009

Mrk NU8Z

VOLUNTEERING

Do you volunteer for emergency work? Are you ready for emergency work? These are serious questions that too many people with good intentions never face up to. As a volunteer amateur radio operator, the primary skill that you are volunteering is the ability to communicate. Of course that means that you accurately originate or relay information in a timely manner.

Do you take part in contests? Emergency preparedness is more than owning a radio, Whatever the rules and conditions are for a contest, the common purpose of all contests is to enhance the communication and operating skills of the amateur ensuring his readiness for emergency communications.

Copying the mail under pressure, spelling correctly (was that Bellevue or Bellville? 100 miles apart, waste of time and effort), not wasting time in repeating. All help train amateurs for that time their skills are needed.

THE 468 ANTENNA LENGTH

I have received a number of private e-mails asking how the 300,000/Frequency in KHz got reduced to 468/FMhz for wire antennas.

The explanation:

1. One Wavelength = $300,000,000/\text{Frequency in Hertz}$ (speed of light in meters per second divided by frequency in cycles per second)
2. Reduced to $300,000/\text{Frequency in KHz}$
3. $1/2$ wavelength = $150,000/F \text{ KHz}$ (electrical length)
4. $1/2$ wavelength physical is 5% shorter or $(150,000 * .95)/F \text{ KHz}$
5. $1/2$ wavelength in meters = $142,500/F \text{ KHz}$
6. To convert meters to feet multiply by 3.2808
7. $(142,500 * 3.2808)/F \text{ KHz} = \text{physical length in feet}$
8. $467514/F \text{ KHz} = \text{physical length in feet}$
9. Convert to MHz = $467.514/F \text{ MHz} = \text{length in feet}$
10. Round the 467.514 to 468 and we have our rule of thumb $468/F \text{ MHz} = 1/2$ wavelength physical starting length.

Note that all the rounding is done to make the wire a bit longer as it is easier to cut to make a wire shorter than to stretch :->

Another rule of thumb for wire antennas is to take the wavelength and multiply by 1.56 to obtain the length in feet i.e. $3.8 \text{ MHz} = 78.947 \text{ meters} * 1.56 = 123.157 \text{ feet}$.

A big red lollypop for the first explanation as to why this works... Beware; starting down this slippery slope of knowledge will soon have you engaged in discussions of Chu limits and other esoteric exercises akin to counting the attendees at the angelic ball atop the pin...

73

Fred W4JLE/NNN0AAG

HOW COLD IS IT?

- 50F - Miami rotators need heat applied
- 40 - Californians guywires shiver uncontrollably
Wisconsinites, Michiganders, and Buck Eyes go on field day
- 35 - Italian coax breaks
- 32 - Clean Water freezes
- 30 - You can see your breath freezing to the tower
You plan your DX vacation to Australia
Wisconsinites, Michigander, and Buck Eye's put on field day jackets
- 25 - Californians turn on car heater instead of radio
Michiganders and Buck Eyes think of antenna projects
Cat tries sleeping on your radio
- 20 - You can hear the antenna rotator groan
Miami residents plan DX vacation further South
Canadians enjoy outdoor operating field day
- 15 - You plan a DX vacation in Mexico sometime this winter
Cat insists sleeping on your radio
- 10 - California coax breaks
Michigan hams finish up antenna work
Alaskans still building antennas before winter
- 5 - You turn on your amp to heat the shack
You look up to see why the antenna seems slow rotating
Ice detunes your yagi
- 0 - Mobile radio LCD will not work
Alaskans, Michiganders and Buck eyes put on flannel shirts
Coax freezes to the side of the house
- 15 - Alaskans build a field day igloo
North Dakota hams turn heat on in shack
Miami hams cease to exist
- 20 - Cat moves to sleeping on the amp
Reading the technical manual becomes informative
Michiganders and Buck Eyes note mild antenna icing
- 25 - Too cold to operate without feet on keyed amp
You need more than a new country to get DX'ers excited
You burn the old radio ads for heat
- 30 - You scrape ice off the inside of the shack windows
You think of metal fatigue as the tower groans
You learn something new reading the small print in the manuals
- 40 - Californian hams disappear
Wisconsinites, Michiganders, and Buck Eyes note antenna rotators freezing
Canadians decide to stop antenna work
- 50- Congressional hot air about band reallocation freezes
Alaskans note the shack window has ice on the inside
Michigan hams stay inside to read radio Magazines
- 80 - Alaskan rotators freeze (-82 F recorded in Alaska!)
Alaskan coax breaks if moved
You ask your travel agent for a DX vacation in Bermuda

de Larry, WA8VVG

RF SAFETY

A good article that explains the issues with the study is at: <http://www.arrl.org/rfsafety/lapin/2000/04/18/1/>

The ARRL web page on RF safety, <http://www.arrl.org/rfsafety>, has some good information on the subject.

The most interesting point is that in the study, although a slight increased risk of two forms of cancer was seen, the average age of death of the Amateurs was about 10 years greater than the median age of death in the US.

I have never seen a single person that claims that the study proves that RF can cause cancer also claim that it proves that RF makes people live longer. :-)

Ed Hare W1RFI

MORE ON RF SAFETY

The interesting thing about RF exposure is that it could be true. One of the interesting aspects of health studies is that any time you decrease the chance of mortality from one cause, you increase it from others.

It cannot be helped, since something always gets us.

We all hear the ads saying that "Such and such has become the leading killer of (pick the group)". In many if not most cases it is true not because of any increased risk or environmental problem - it is because we made inroads against the previous "leading killer".

That is why so many people take lots of drugs to keep BP and cholesterol low, aspirin to protect against heart attacks, keep slim and trim, to avoid all the problems arising against obesity, don't smoke to avoid cancer. What's likely to happen? They won't die from those causes, but they'll spend their last 10 years as a healthy Alzheimer's patient.

So in a long winded way, there is a possibility that RF might protect people against some ailments.

Personally, I think RF's greatest effect is that it makes some Hams really grumpy.....

-73 de Mike N3LI -

MFJ 259B AND YAGI ANTENNA TRAPS

James Irving K9JFK

The antenna traps are parallel resonant circuits, which mean at resonance the trap impedance is theoretically infinite; off resonance frequencies just see the normally low impedance/resistance of the coil and capacitor. The 15 meter trap becomes a "very high resistance" connection, but only at resonance, and this "cuts off" the rest of the antenna element. At all other frequencies it's just a connecting wire. The frequency and impedance reaction will generate a curve; as you approach resonance the impedance on the meter will go up gradually, coming to peak, and then go back down as you tune away in the other direction.

It is a simple procedure that is shown in the MFJ259 manual. If you don't have a copy, look on page 14 of this link. <http://www.utm.edu/staff/leeb/MFJ-259.pdf>

This procedure applies to all 259/269 models. Basically, you put a 50 ohm resistor in series with the tuned circuit; the resistor is there to prevent short circuiting the output of the meter. Since we are just looking for a maximum indication, the resistor should not be critical and anything from 35 to 75 ohms is probably ok.

You could put a coil and capacitor combination together then practice the "feel" of the response on the 259. Response of your traps should be "similar".

The other way to test the circuits is to use the 259 as a "grid dip oscillator"; basically, you excite the external tuned circuit and watch the meter for minimum response. MFJ sells a coil kit for just this purpose, but you can "make your own". Wind about ten turns of wire into a coil and hold them together with string in three or four places. Leave four to eight inches of wire to connect to a phono plug; the diameter of the coil isn't really critical. Make it more than half an inch, but less than two. The diameter and turns on the coil determines the coupling into the checked tuned circuit; the differences will be the amount of response you get, not the accuracy. As for procedure, check out the instructions for the using the 259 with its own coil kit.

<http://www.mfjenterprises.com/man/pdf/MFJ-66.pdf>

The amount of response depends on the coupling between the test coil and coupling coil; the accuracy will depend upon the immediate surroundings; don't rest the tested coil on a metal workbench and expect accurate results, hi,hi. If you have a really broad peak at resonance, decrease coupling by increasing the distance between the coil and tested circuit until you're satisfied.

73,

Jim, K9JFK

WARNING SIRENS TEST RESULTS

1st. Saturday of the Month, 1:00pm (13:00)
147.120 Repeater, Date 03-07-09 (March)

HAMS AND THE MEDICAL COMMUNITY

[Here is a guest editorial by ARRL Emergency Preparedness and Response Manager Dennis Dura, K2DCD. -- K1CE]

Every week at ARRL HQ, we answer questions on the role of amateur radio and the medical community. This is an ever expanding relationship in which we can play a significant role, within the framework of the regulations which provide us our operating privileges.

Medical facilities have a need to be able to communicate in disasters. This communications need is two-fold; having the ability to pass information to and from the local governmental-public safety structure and maintaining a capability to talk to operations and facilities of the medical facility itself. The first example is one in which medical facilities play a critical role in the emergency management structure of the community. The capability to deal with the medical needs caused by a disaster is an integral part of the preparedness and response characteristics of the community. Amateur radio naturally falls within this scope of supporting emergency management operations.

The second example is one that becomes a business continuity issue. Maintaining communications that enable a medical facility to continue conducting their business is not one that amateur radio can support. This is outside our regulatory provisions as set forth in Part 97. While we may be the cost effective, and easy to access mode to furnish communications, we are not the solution in this example. Just because we have the technical capability to do a particular task, doesn't mean we have the legal ability to do it. We are seeing the integration of amateur radio and the medical community more and more every day. Amateur radio operators are lending their communications expertise and developing extensive capabilities at hospitals and other medical facilities all across this country. This is a good use of the mission capable resources we as Hams bring to the larger emergency management community. We need to remain focused on the role we play in this situation. Our role is not to enable businesses to remain in operation. Our role is to serve the public during disasters...and by providing communications to meet the needs the emergency creates, we do our job, and do it well.

LIGHTNING WORRIES

If you are concerned about lightning strikes damaging your home or heaven forbid, your ham gear, there is information available from ICE Radio Products and Polyphaser. Get on line and ask for publications on protection from lightning.

<u>Site Locations to be Monitored</u>	<u>Monitoring</u>	<u>Station</u>	<u>Results</u>
1: General Foods, Cliff St.	KC8COT Dave	<u>All Modes Operated Correctly</u>	(NET CONTROL)
2: Trans American Tower, Down Town	CPAAA Judy Jones	<u>All Modes Operated Correctly</u>	
3: Veronia School, N.E. Captial Ave.	WA8MFL Marion	<u>Did Not Function at All</u>	
4: Washington School, N. Wash. (NEW)	W8RVT Don	<u>All Modes Operated Correctly</u>	
5: Urbindal School, Bedford Rd.	N8LS Jack	<u>All Modes Operated Correctly</u>	
6: Riverside School, Riverside Dr.	KC8MQU Paul	<u>All Modes Operated Correctly</u>	
7: Water Tower, Eldrid St. (NEW)	N8QC Gary	<u>All Modes Operated Correctly</u>	
8: West Lake School, 28 th St.	CPAAA Allison Jones	<u>All Modes Operated Correctly</u>	
9: Bedford fire #3 Station, N. Ave/ Morgan Rd.			
10: Bedford Township Office, W. Mi/ Uldriks Dr.			
11: Bedford Village, M-37 Fire Station	N8WJQ Tony	<u>All Modes Operated Correctly</u>	
12: Math & Science Center, Uption Ave./Nettles	WA8LRB Walt	<u>All Modes Operated Correctly</u>	<u>(Did Not Check for Rotation)</u>
13: Golf Course, Ave. A/Dickman Rd.			
14: I-94/East of Helmer Rd. (Rest Area) (NEW)	KC8H Gary	<u>All Modes Operated Correctly</u>	
15: Beckley Rd. and Cap. Ave. Water Tower (NEW)	KC8WMN Jim KD8BME Donna	<u>All Modes Operated</u>	

Correctly

Dave Smith
E-12
KC8COT
City of Battle Creek and Calhoun County
RACES, Emergency Coordinator

Monthly DEC/EC Report

Jurisdiction: Calhoun County Month: February Year 2009

AMATEUR RADIO EMERGENCY SERVICE

Total number of ARES members: 34 Change since last month: 0 (+, -, or same)

Local Net Name: AREA / RACES / SKYWARN Total sessions 8

NTS liaison is maintained with the Net: NO

Number of drills, tests and training sessions this month: 8 Person hours: 127

Number of public service events this month: 0 Person hours 0

Number of emergency operations this month: 0 Person hours 0

Total number of ARES operations this month: 8 Total Person 140

Comments:

Signature: DAVE SMITH Title: (EC or DEC) EC Call Sign: KC8COT

Please send to your SEC or DEC as appropriate by 2nd of the month FSD-212 (3-09)

Balance Sheet

As of 2/28/09

SMARS Club Meeting

February 19, 2009

Acct	2/28/09 Balance
ASSETS	
Cash and Bank Accounts	
Checking	1,891.57
TOTAL Cash and Bank Accounts	1,891.57
Other Assets	
PettyCash	91.60
S1 Primary Share	12.93
TOTAL Other Assets	104.53
TOTAL ASSETS	1,996.10
LIABILITIES & EQUITY	
LIABILITIES	0.00
EQUITY	1,996.10
TOTAL LIABILITIES & EQUITY	1,996.10

Income & Expense Statement

2/1/09 Through 2/28/09

Category Description	2/1/09- 2/28/09
INCOME	
50 50	24.00
Books	50.00
Dues	83.00
Hamfest Inc:	
Chairs	44.00
Tables	528.00
Tickets	190.00
TOTAL Hamfest Inc	762.00
TOTAL INCOME	919.00
EXPENSES	
Rent:	
Meeting Room	100.00
Tower Space	90.00
TOTAL Rent	190.00
Utilities:	
Telephone	63.00
TOTAL Utilities	63.00
TOTAL EXPENSES	253.00
TOTAL INCOME - EXPENSES	666.00

Called To Order: 7:00 pm

Officers Present: Don W8RVT, John KC8WMM, Ned WB4BKO, Jerry W8FOG, Russ N8UU

Roll Call

Pledge of Allegiance

Secretary's Report: approved as published in Feedback

Treasurer's Report: approved as published in Feedback

Committee Reports:

Hamfest: Bob passed out volunteer signup sheets. Table sales are slower than last year, but last minute sales are usual.

ARES/RACES: Dave reports last month there were 8 events with 130 checkins. There will be a Skywarn training session on March 28.

The annual March of Dimes event is April 28. Help is needed for siren test 1st Saturday each month. Dave has the codes to change the W8DF repeater to announce weather watches/warnings.

Presentation:

Joe K8LKC brought in several spark gap transmitters and matching receivers and gave a talk on early wireless transmissions.

More Committee Reports:

Field Day: Bob reports nothing new.

Technical Engineer: Don replaced a relay on one of the repeaters. Otherwise, all is good.

Old Business:

None.

New Business:

Key to the Masonic Temple was given to SMARS. John will hold the key for now. It is OK for SMARS to mount an antenna on the elevator shaft if a station is desired there. There is a room on the 4th floor available if SMARS wishes to set up a station.

Walter is buying training manuals for the granddaughter of KG8HD.

Next SMARS meeting is at the Masonic Temple on March 19.

Drawing: won by Gary W8USU

Adjourned: 8:50 pm

Respectfully Submitted,

John Davidson KC8WMM
SMARS Secretary

HAMFEST CALENDAR

14 MARCH Marshall MI
49th Annual Mich Crossroads Hamfest, Southern Michigan Amateur Radio Society and Marshall High School Industrial Arts club, Marshall High School, 701 North Marshall Ave, Talk-In 146.66 (PL 94.8) and 146.52 Simplex
<http://www.w8df.com>, Contact: daffne25@yahoo.com

15 MARCH Maumee OH
Hamfest and Computer Fair, Toledo Mobile Radio Association Lucas County Recreation Center, 2901 Key St, Talk-In 147.27
<http://www.tmrhamradio.org> Contact: brian.arrington@utoledo.edu

4 APRIL Lowell MI
ARGYL (Amateur Radio Group of Youth in Lowell) Lowell High School, 11700 Vergennes St Talk-In 145.27 and 146.62 Repeaters
<http://www.argyl.org>, Contact: al.eckman@sbcglobal.net

8 APRIL Highland MI
Milford Swap and Shop Milford Amateur Radio Club Milford High School, 2380 South Milford Rd Talk-In 145.49 (PL67) <http://www.qsl.net.w8gfk> Contact: Rose Moore phone: 810-632-5174

SOUTHERN MICHIGAN AMATEUR RADIO SOCIETY

FEEDBACK



MARCH 2009



SMARS
P.O. BOX 934
BATTLE CREEK MI 49016

FIRST CLASS MAIL



SMARS NETS

Before Lunch Bunch
Monday-Friday 11:30 A.M.
146.66

Sunday Evening 8:00 P.M.
146.66

Monday 7:30 P.M.
224.24

Wednesday 7:00 P.M.
443.95

Wednesday 8:00 P.M.
28.365

Saturday 8:00 P.M.
443.95

ARES/RACES/SKYWARN.NET
Monday 7:00 P.M. 147.12

ACTIVITY CALENDAR

HAMFEST MARSHALL MAR 14

HAMFEST MAUMEE MAR 15

THIS MONTH SMARS CLUB MEETING MAR 19

SMARS BOARD MAR 30

HAMFEST LOWELL APR 4

SMARS BREAKFAST APR 4

B4LUNCH BUNCH LUNCH APR 9

NEXT MONTH SMARS CLUB MEETING APR 16

HAMFEST HIGHLAND APRIL 18