SOUTHERN MICHIGAN AMATEUR RADIO SOCIETY

FEEDBACK

JANUARY 2011

HAPPY NEW YEAR!!

I was asked to bestow upon you words of wisdom in regards to the year ahead of us as a club. First and foremost, I hope the Hamfest is a success this year. It will be the second year away from the familiar Marshall High School. Last year's Hamfest was full of surprises for the club members that volunteered to help at the new location, the Marshall Activity Center. We had less room to place vendors, but I think we got the job done very well. Way more people attended the V.E. Session than what was planned for, but we as a club once again pulled together and did a commendable job of processing 20+ attendees. I want to thank everyone in advance who is planning on contributing long hours to make this years Hamfest just as successful and profitable.

Next in line will be Field Day. In the past several years attendance of club members has been sparse. I know everybody has a busy schedule, and time now is at a premium more so than ever before, but if every club member could pencil in Field Day, and show up to operate just a little, we could score at the top just as SMARS has done in years past.

It is important that as a club we discover how to grow. SMARS membership is getting older and older. This is just a plain fact. All who want this club to continue to be viable must help to come up with a plan to bring in more members. To be honest, the club has some what gotten set in its ways, and doesn't have much to offer new or younger Hams. This must change. Please take a minute and sit down to think of some ideas, and then bring them to the club meetings so we can discuss them.

Well, that should be enough for now. I am looking forward to what this year will bring us, and what we as a club are capable of accomplishing.

Gary – N8QC

2011 – A GREAT YEAR TO COME

Now that the New Year is here and the Holidays are over and gone, decorations put away and diets restarted, the SMARS group can get back into the swing of activities.

A number of members have made suggestions of what they would like to see the group do for the year and those comments and suggestions are always welcome. Beside the obvious Crossroads Hamfest and Field Day, we should have other outside activities to promote our hobby.

If the Southern Michigan Amateur Radio Society is to continue, we all need to be involved in all of the activities. Note the word all. Meeting attendance is a must as this is where you learn what is planned for the future. Net activity is also important, not only for support but to help keep net control operators in place. It is very discouraging to run a net with only one or two members. Get involved…nets are a lot of fun and a good way to help support your local club. There are several local nets sponsored by SMARS that you can join. Check the cover of the FEEDBACK for times and frequencies. There is something for everyone.

I would like to take this time to welcome several new members to SMARS. New licensee Mark Burchard, KD8PGW, his son Braxton who is working on obtaining his license. Also KD8OPA Chris Hostettler, N8WJQ Tony VanAmeyden and Scott Metzgar KD8MVG. Welcome aboard one and all!

That's about it from the Veep's corner. 73,

Doc K8OLY

WE TRY AGAIN

New Amateur Radio Bill Introduced in Congress

The Amateur Radio Emergency Communications Enhancement Act, which died at the end of the 111th Congress, has been reintroduced in the 112th Congress as HR 81.

The sponsor is Representative Sheila Jackson Lee (D-TX-18). The new bill -- which was introduced on January 5 -- has been referred to the House Committee on Energy and Commerce.

Rep Jackson Lee first introduced the bill -- HR 2160 -- in the 111th Congress in April 2009. It gained an additional 41 co-sponsors but did not progress out of the committee of jurisdiction. A similar bill introduced in the Senate -- S 1755 -- made it all the way through that body in December 2009, but likewise was not taken up by the House.

The objective of the bill -- which is supported by the ARRL -- is for the Secretary of Homeland Security to study the uses and capabilities of Amateur Radio communications in emergencies and disaster relief and to identify and make recommendations regarding impediments to Amateur Radio communications, such as the effects of private land use regulations on residential antenna installations.

"We are hopeful that this early start will lead to success in the new Congress," commented ARRL Chief Executive Officer David Sumner, K1ZZ.

HR 81 can be found on the web in PDF format at, http://www.gpo.gov/fdsys/pkg/BILLS-112hr81ih/pdf/BILLS-112hr81ih.pdf.

COMMENTS

SMARS has new faces leading us for the coming year with Gary N8QC and Dave K8OLY occupying the offices of President and Vice-President with support from John N8JRD and Don W8RVT in the same offices as they had had previously. Bob AC8GL now as Past-President to complete the board. Their biggest job will be working on the coming Crossroads Hamfest. The facility that we used for the first time will again be used and perhaps some of the problems we encountered last year will no longer be as big a headache. With John leading and Dave supporting him, this should be very successful.

Members are reminded that this will be the last mailing for those who haven't renewed their membership in SMARS. This would also be a very good time to join the ARRL if you haven't done so previously.

A column that we need for Feedback is one on DX and Contesting. The information that I receive is usually for events that will have passed by the time Feedback is in the hands of members. While this should be monthly, we could use items of interest anytime. For instance , last month we ran much information on installing UHF connectors. There must be some other information to be shared. Perhaps you come across a video to be shared or a picture or an article or a gadget of some kind. This is the secret of a club — the sharing of information and skills.

As noted in the adjacent article, our chances of getting the appropriate legislation passed during the last session of our congress failed but will again be attempted. Likewise, the State of Michigan failed to achieve the PBR-1 status of many other states. A boost is needed by amateurs in both legislative areas. Write to legislators in both bodies to reaffirm our needs.

de WA8MFL

DELAYED NEWS NOTE

Today, January 5, in 1946, the United States Army Signal Corps at Fort Monmouth, New Jersey successfully conducted Project Diana, bouncing radio waves off the moon and receiving the reflected signals. 65 years later, ham radio operators all over the world conduct moon bounce or EME communications (Earth-Moon-Earth), with relatively inexpensive equipment.

THE PIN1 PROBLEM

(This article is the result of a putting together several discussions occurring with regard to man made noise. *Plagiarism at its finest*!)

The most common way that hum, buzz, and RF interference enters equipment is via a design defect first widely understood by the pro audio community thanks to the work of Neil Muncy, (ex-W3WJE). He named it "the pin 1 problem," because it is a mis-wiring of the shield of audio cables – pin 1 in the XL connector commonly used for pro audio, but it is just as much a problem in unbalanced interfaces of all types.

The proper connection for a cable shield to equipment is the shielding enclosure (chassis), but products with a "pin 1 problem" connect the shield to the circuit board instead. Nearly all consumer equipment, including even the most expensive "high futility" gear, is built with pin 1 problems. Virtually all computer sound cards have pin 1 problems. So do most RS-232 interfaces and nearly all ham equipment – indeed, almost all RFI problems we describe as "RF in the shack" have pin 1 problems as their root cause!

Shield Resistance adds hum and buzz to unbalanced wiring (audio, video, and data (RS232). The "green wire" at every AC outlet is at a different potential, thanks to leakage current of equipment plugged into that outlet, as well as other leakage current flowing on the green wires. When that equipment is interconnected with unbalanced wiring, the difference in potential (60 Hz and its harmonics, plus noise) causes current flow on the shield, and the IR drop is added to the signal. A "beefy" shield (big copper) minimizes R – that's why the best video cables use heavy copper shields! Audio transformers eliminate the hum/buzz by breaking the current path at DC and audio frequencies, but most hum and buzz in your ham station can be solved without a transformer – simply power all interconnected gear from the same outlet, bond equipment of all chassis' together, and use coax with beefy copper shields for audio. An unshielded transformer can make matters worse, coupling noise from a power transformer into its unshielded windings.

OMG, .I'm rich!

Silver in the Hair

Gold in the Teeth

Crystals in the Kidneys

Sugar in the Blood

Lead in the Butt

Iron in the Arteries

And an inexhaustible supply of Natural Gas.

I never thought I'd accumulate such wealth.

WHAT DO RG NUMBERS MEAN?

By Jim Brown K9YC

Not much. For all practical purposes, RG-numbers describe only the impedance and approximate size . RG58 is a 0.2-inch diameter 50 ohm cable suitable for very short runs. RG59 is a 75 ohm cable of about 0.25 inches diameter. RG8X is about 0.25-inch, lower loss version of RG58, and RG6 is about 0.3-inch, lower loss version of RG59. RG8, RG213, and RG214 are about 0.4-inch diameter 50 ohm cables; 0.4-inch 75 ohm cables are called RG11. RG174 and RG187 are miniature (0.1-inch diameter) 50 and 75 ohm cables.

RG numbers were the original specification for coax during the military buildup for World War II, when not much happened above 30MHz (other than radar) and the only commercial use of radio was AM broadcasting. In those days, RG numbers did mean something, and defined everything that mattered. That all changed in the 50s, with the growth of FM and TV broadcasting, which brought about MATV (Master Antenna TV) receiving systems for buildings, and CATV (community antenna TV) receiving and distribution systems to serve entire communities. We learned how to reduce UHF loss with foam dielectrics, and to reduce cost and weight with lightweight foil shields and copperweld (copper coated steel) center conductors. A 1970 Belden catalog lists 14 RG59 cables; their 2006 print catalog lists 52 of them.

These cables differ in many important ways – braid or foil shields that may be copper, aluminum, or both, solid or stranded copper center, or copper coated steel center. Their outer jacket may resist UV, or not. Many are designed for use indoors, where their jackets and dielectrics must not burn or create noxious fumes (the real Towering Inferno was caused by burning cables). Some have beefy copper shields for use with broadcast video or in transmitting applications, others have thin foil/braid shields for use in those MATV and CATV systems 40M and below, so an RG8X like LMR240, Belden 9258, or the Wireman's CQ118 are a good choice. On the other hand, if you're running 200 ft to a tribander on a tower, that smaller coax would burn more than half of your transmitter's power on 15M and 10M! If you're using a dipole to cover all of 80/75M, the increased SWR away from resonance increases loss. Note also that these data are for very good coax cables by majormanufacturers. Off-brand cables are often made with much less copper, and have greater loss.

In 1955 a disk drive 12 Mbytes insize, could be purchased for a measly $74800. Must be better than some of that cheap stuff they make today like a 2 Tbyte disk for $90.

ATTENTION SENIORS!

Since more and more Seniors are texting and tweeting there appears to be a need for a STC (Senior Texting Code). If you qualify for Senior Discounts this is the code for you.

The Code for Seniors to relate to others has finally been developed and is ready for the official roll-out. The Juniors in our society have had this privilege for some number of years. With this Freshly developed communicative code we can expand our family of friends and feel like we are part of society again. But first the question has to be asked, "Are we here Yet." I don't think I'm ready for this, Yet. I need a different STC code, one that has to do with adventure, thrills and excitement. But it may fit some of the Seniors and that's why we are sharing it.

ATD: At The Doctor's

BFF: Best Friend Farted

BTW: Bring The Wheelchair

BYOT: Bring Your Own Teeth

CBM: Covered By Medicare

CUATSC: See You At The Senior Center

DWI: Driving While Incontinent

FWB: Friend With Beta Blockers

FWIW: Forgot Where I Was

FYI: Found Your Insulin

GGLKI (Gotta Go, Laxative Kicking In)

GGPBL: Gotta Go, Pacemaker Battery Low!

GHA: Got Heartburn Again

HGBM: Had Good Bowel Movement

IMHO: Is My Hearing-Aid On?

LMDO: Laughing My Dentures Out

LOL: Living On Lipitor

LWO: Lawrence Welk's On

OMMR: On My Massage Recliner

OMSG: Oh My! Sorry, Gas.

ROFL... CGU: Rolling On The Floor Laughing... And Can't Get Up

SGGP: Sorry, Gotta Go Poop

TTYL: Talk To You Louder

WAITT: Who Am I Talking To?

WTFA: Wet The Furniture Again

WTP: Where's The Prunes?

WWNO: Walker Wheels Need Oil

ELECTRICAL THEORY

A observation from years of creating Smoke All electrical components and wiring harnesses depend on proper circuit functioning, which is the transmission of charged ions by retention of the visible spectral manifestation known as "smoke".

Smoke is the thing that makes electrical circuits work. Don't be fooled by scientists and engineers talking about excited electrons and the like. Smoke is the key to all things electrical. We know this to be true because every time one lets the smoke out of an electrical circuit, it stops working. This can be verified repeatedly through empirical testing. For example, if one places a large copper bar across the terminals of a battery, prodigious quantities of smoke are liberated and the battery shortly ceases to function. In addition, if one observes smoke escaping from an electrical component such as a voltage regulator, it will also be observed that the component no longer functions.

The logic is elementary and inescapable! The function of the wiring harness is to conduct the smoke from one device to another. When the wiring harness springs a leak and lets all the smoke out of the system, nothing works right afterward.

Starter motors were considered unsuitable for motorcycles for some time largely because they regularly released large quantities of smoke from the electrical system. Once again, the logic is clear and inescapable.

Sometimes you may miss the component releasing the smoke that makes your electrical system function correctly, but if you sniff around you can often find the faulty component by the undeniable and telltale smoke smell. Sometimes this is a better indicator than standard electrical tests performed with a volt-ohm meter.

In conclusion, the basic concept of transmission of electrical energy in the form of smoke provides a clear and logical explanation of the mysteries of electrical components and why they fail.

Rich Klim

Engineer at Klimsville

You see, wire telegraph is a kind of a very, very long cat. You pull his tail in New York and his head is meowing in Los Angeles. Do you understand this? And radio operates exactly the same way: you send signals here, they receive them there. The only difference is that there is no cat. -- Albert Einstein

THE AMATEUR IN SPACE

The students at the University of Texas launched two "nanosatellites" that will enter orbit as a single spacecraft and then separate known as "Sara Lily" and "Emma". At first they will be using 1200 or 9600 baud AX 25 digital communications which should be decoded by ordinary packet software.

The satellites will be transmitting at 1 watt output and a omnidirectional antenna should be sufficient for reception.

When their mission is complete, they will be reconfigured as digipeater relays for Amateur Radio use as part of the Automatic Packet Reporting System (APRS.)

AND

NASA will assume more direct sponsorship of the Amateur Radio on the International Space Station (ARISS) program as an educational project. Among its activities, ARISS oversees the project that enables schoolchildren to speak via ham radio with astronauts aboard the International Space Station. NASA also will embrace ARISS as an educational project for the ISS National Lab. A reconfigured, yet-to-be-named education planning group will pick up the mission of the ARISS Communications Council. These changes were among the outcomes of a meeting of NASA and ARISS International officials who gathered November 12-13 at ARRL Headquarters.

AND

Hams Invited to Listen for New Satellites

Five research satellites were carried to orbit on November 19 aboard a Minotaur V rocket from Kodiak Island, Alaska. All the satellites use Amateur Radio frequencies and hams have been invited to participate in their missions by monitoring and collecting data.

AND

A recently launched Mexican near space crossband repeater carried on a high altitude balloon has been deemed an overwhelming success. The SARSEM-ICARUS II Mexican Aerostatic Sub-Space Repeater System was launched on November 20th. According to flight controllers, the balloon reached an altitude of 94,301 feet during which time 103 contacts where made using the crossband repeater. Ground stations reported it having coverage of 551 miles across 13 States of Mexico.

The balloon's payload consisted of a UHF to VHF repeater, temperature and voltage sensors, a flight computer, and a secondary backup system including another GPS and control system. Also on board was a video camera transmitting live video back to the ground on 900 Mhz.

This is a second ham radio balloon flight success for the Amateur Radio Club of the State of Guanajuato. The group has already announced its planning a third flight in 2011. (ARCSJ)

JJIM WEAVER, K8JE WONDERS

Sources of Inexpensive VHF/UHF Gear Coming?

More years ago than I'd like to recall, a tremendous source of inexpensive VHF and then UHF gear became available when business band mobiles moved from what then was wideband to narrowband signal transmission. This essentially started a move by many amateurs to 6M FM mobile and base. I, for one, obtained two 6M FM transceivers that once had traveled the streets of Atlanta, GA in taxicabs. One of these quite large (about 2' L, 15" W, 9" H) ended up in the car and the other in the shack. This was before commercially-built ham 6M FM rigs were generally available. Obsolete take-out FM rigs also sparked the development of 2M repeaters, the move of amateurs to this band, and the development and marketing of ham FM gear.

A similar situation may occur as the FCC pursues the move of commercial FM users to adopt still more narrow emissions. In case you haven't heard, FCC has mandated that "On January 1, 2013, all public safety and business industrial land mobile radio systems operating in the 150-512 MHz radio bands must cease operating using 25 kHz efficiency technology, and begin operating using at least 12.5 kHz efficiency technology." The notice is available at Http://www.fcc.gov/pshs/public-safety-spectrum/narrowbanding.html.

What this will mean to the availability of quality, obsolete mobile and base rigs to amateurs can only be speculated. Whatever happens should not be bad for us. Amateurs who are willing to make a few, modifications to the take-out rigs may reap considerable benefit.

ARES / RACES Report
For December, 2010 in Calhoun County

RACES / Skywarn Nets and Training

1 RACES Meeting	2.0 hrs each @ 15 People	Total 30 hrs
Four Nets	88 People@ 1 Hr	Total 88 hrs
Public Service Events		
Siren Test	16 people@1 hr	Total 16
Administration Hours		Total 17hrs
Emergency Operations		
Equipment Hours		
RACES Trailer Maintenance	2hrs @ 3 Person =	Total 6hrs
Travel Hours =		Total 2.0
Expenses- Out of Pocket =		Total $45.00
Travel Miles =		Total 42
Members (ARES / RACES) =		Total 35
Total Nets,Events, Sessions =		6 events
Total Hours =		159 hrs total
Contributed Value =		$ 2387.00

Kenneth Nierman
KC8QNQ E-46
City of Battle Creek and Calhoun County
RACES, Emergency Coordinator

MARK YOUR CALENDAR !!!! Annual Severe Weather Training will be on Saturday March 26, 2011. This year there will be a Basic and Advanced session. To be eligible to attend the advanced you have to have had a basic session. Basic begins @ 9 AM - 11 AM // Advanced 12:30 PM - 3:30 PM. Training will be at Lakeview Middle School, Battle Creek. This will be great training!!!

WORD TO THE WISE

Can this be the first set of contest disqualification rules? "For in a contest there is much labor needed--and after the contest victory falls to some, to others disgrace. Is the palm ever given or the crown granted before the course is finished? ... Therefore no one can receive a reward, unless he has striven lawfully; nor is the victory a glorious one, unless the contest also has been toilsome."

-St. Ambrose of Milan, Chapter 15, Three Books on the Duties of the Clergy, 4th century

(Thanks, Bert N4CW via John K1AR)

PREDICTIONS

1. Computers in the future may weigh no more than 1.5 tons."
   -- Popular Mechanics, forecasting the relentless march of science 1949.
2. "I think there is a world market for maybe five computers."
   -- Thomas Watson, chairman of IBM, 1943
3. "I have traveled the length and breadth of this country, and talked with the best people, and I can assure you that data processing is a fad that won't last out the year."
   -- The editor in charge of business books for Prentice Hall, 1957
4. "But what . . . is it good for?"
   -- Engineer at the Advanced Computing Systems Division of IBM, 1968, commenting on the microchip
5. "There is no reason anyone would want a computer in their home."
   -- Ken Olson, president, chairman and founder of Digital Equipment Corp., 1977
6. "This 'telephone' has too many shortcomings to be seriously considered as a means of communication. The device is inherently of no value"
   - Western Union internal memo, 1876
7. "The wireless music box has no imaginable commercial value. Who would pay for a message sent to nobody in particular?"
   -- David Sarnoff's associates in response to his urgings for investment in the radio in the 1920s
8. "The concept is interesting and well-formed, but in order to earn better than a 'C,' the idea must be feasible."
   -- A Yale Univ. management professor in response to Fred Smith's paper proposing reliable overnight delivery service.
9. "Who the hell wants to hear actors talk?"
   -- H.M. Warner, Warner Brothers, 1927
10. "I'm just glad it will be Clark Gable who is falling on his face and not Gary Cooper."
    -- Gary Cooper on his decision not to take the leading role in "Gone With The Wind"
11. "A cookie store is a bad idea. Besides, the market research reports say America likes crispy cookies, not soft and chewy cookies like you make."
    -- Response to Debbi Fields' idea of starting Mrs. Fields' Cookies
12. "We don't like their sound, and guitar music is on the way out."
    -- Decca Recording Co. rejecting the Beatles, 1962
13. You want to have consistent and uniform muscle development across all of your muscles? It can't be done. It's just a fact of life. You just have to accept inconsistent muscle development as an unalterable condition of weight training."
    -- Response to Arthur Jones, who solved the "unsolvable" problem by inventing Nautilus fitness equipment.
14. "Stocks have reached what looks like a permanently high plateau."
    -- Irving Fisher, Professor of Economics, Yale University , 1929
15. Airplanes are interesting toys but of no military value."
    -- Marecha Ferdinand Foch, Prof. of Strategy, Ecole Superieure de Guerre, Paris, France, ca 1912.
16. "Louis Pasteur's theory of germs is ridiculous fiction."
    -- Pierre Pachet, Professor of Physiology at Toulouse , 1872
17. The abdomen, the chest, and the brain will forever be shut from the intrusion of the wise and humane surgeon."
    -- Sir John Eric Ericksen, British surgeon, Surgeon– Extraordinary
    And finally!!!!
18. 640K ought to be enough memory for anybody."
    -- Bill Gates, 1981

Income and Expense Statement
12/1/10 Through 12/31/10

Category Description		12/1/10-12/31/10
INCOME		
50 50		7.00
Dues:		
2011	155.00	
TOTAL Dues		155.00
Interest Inc:		
Checking	0.47	
TOTAL Interest Inc		0.47
TOTAL INCOME		162.47
EXPENSES		
5050 Payout		90.00
Administration:		
PO BOX	22.00	
TOTAL Administration		22.00
Feedback:		
Postage	17.60	
Printing	64.43	
TOTAL Feedback		82.03
Hamfest2011:		
Facility	626.00	
TOTAL Hamfest2011		626.00
Utilities:		
Telephone	66.05	
TOTAL Utilities		66.05
Uncategorized Expenses		0.00
TOTAL EXPENSES		886.08
TOTAL INCOME - EXPENSES		-723.61

HAMFESTS

01/16/2011 Hazel Park, MI.
45th Hazel Park ARC Hamfest
Hazel Park Amateur Radio Club
Hazel Park High School
23400 Hughes, Hazel Park, MI 48030
Website: http://www.hparc.org
Talk-In: 146.640 (PL 100)
Walt Carter , KD8LWC
PO Box 368 Hazel Park, MI 48030
Phone: 248-548-4645
Email: kd8lwc@yahoo.com

02/12/2011 Traverse City, MI
Cherryland ARC Swap-n-Shop
Cherryland Amateur Radio Club
Immaculate Conception Elementary School
218 Vine Street, Traverse City, MI 49684
Website: http://cherrylandarc.com
Talk-In: 146.86
Public Contact: Joe Novak , W8TVT
201 South Spruce Street Traverse City, MI 49684
Phone: 231-947-8555
Email: jjnovak@charter.net

SMARS Club Meeting
December 16, 2010

Called To Order: 7:04 PM
Officers Present: Bob AC8GL Don W8RVT John W8JRD Gary N8QC
Pledge of Allegiance
Introductions
Secretary's Report: approved as published in Feedback.
Treasurer's Report: approved as reported at the Club Meeting.
Committee Reports:
Hamfest: SMARS is still waiting for a contract for the MAC. Table sales have started.
Field Day: Alternatives to the airport were discussed.
ARES/RACES: Results of the SET in October were presented. Siren tests will continue through the winter months.
VE Testing: Next session is December 23
Technical Engineer: Everything is working fine
Old Business:
The December meeting elected the board for 2011. The results:
Gary Williams N8QC President
Dave "Doc" Ashbolt K8OLY Vice-President
Don Larkin W8RVT Treasurer
John Davidson W8JRD Secretary
New Business:
None.
Presentation:
Don W8RVT gave an in-depth presentation on Echolink
Adjourned: 8:40 PM
Respectfully Submitted,
John Davidson W8JRDSMARS Secretary

SMARS Board Meeting
January 3, 2011

Called to Order: 5:05 PM
Officers Present: Don W8RVT John W8JRD Gary N8QC Doc K8OLY
Topics:
Doc questioned materials found in his briefcase. Old copies of li censes and other club paperwork. We discussed a time to inventory club equipment.
John continues to struggle with the ARRL listing of club information. The ARRL is not listing current officers and contact information, and not accepting updates.
The question about the club trustee was raised. This appointment will need to be made and the qualifications needed were discussed.
Hamfest planning continues. Being discussed: parking, door prizes, staffing, and concessions. The hamfest chair people will continue the discussion.
Planning for Field Day has started. The location at the airport will need to be determined. One of the club trailers needs repair.
Efforts to get books donated to Willard Library continue. Purchases must go through the library's agent.
One of the board's duties is to review the club's constitution. John will email the last revision to the board for evaluation, which will need to be approved by the general membership.
John will provide the entertainment for the January club meeting.
The board will meet next month at Coney Island at 5 pm on January 31
Adjourned: 6:15 PM
Respectfully Submitted,
John Davidson W8JRD
SMARS Secretary

SOUTHERN MICHIGAN AMATEUR RADIO SOCIETY

FEEDBACK

JANUARY 2011

SPECIAL SERVICE CLUB

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 8:00 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

B4LUNCH BUNCH LUNCH JAN 13
HAMFEST HAZEL PARK JAN 16
THIS MONTH SMARS CLUB MEETING JAN 20
SMARS BOARD JAN 31
SMARS BREAKFAST FEB 5
HAMFEST TRAVERSE CITY FEB 12
NEXT MONTH SMARS CLUB MEETING FEB 17
VE SESSION FEB 24
HAMFEST MARSHALL MAR 19