



FEEDBACK

APRIL 2009



FOK'S ROCKIN' CHAIR

When I sit in my chair and look outside I think antenna. It's been a long winter.

It's time to start thinking about our trailers and Field Day. Bob, Steffanie, Don, John and all who made our hamfest a success, I thank you!

It will take the same kind of support for Field Day. I think Dave and his crew have the HF trailer well under way, but we still need to check out antennas for emergency use. The VHF trailer needs the same type of rebuild so we have quick and easy setup.

I'd like to test an antenna for the HF trailer and if we like it, I can do the same for the VHF trailer. I'll get together with Dave and John to put a plan together.

Remember, try to bring a friend to club meetings. The BLB can always use our support and don't forget Dave, KC8COT. He also always welcomes your support.

Jerald W8FOK

WHO'S GONNA BE FIRST?

GenesisRadio Announces SDR QRP KIT Transceiver

Since their first appearance few years ago the compact yet feature-packed Software Defined Radios have come to symbolize the new dynamic era in ham radio 'home brewing'. On April 2, 2009, Australian based GenesisRadio introduced it's first 'easy to assemble, fun to operate, serious performer' 40m SDR transceiver KIT utilizing classic through hole components.

GenesisRadio has already delivered G40 units to ham customers in USA, Ireland, Spain, Russia, Australia and Slovenia. The G40 can be ordered from www.GenesisRadio.com.au/G40. Price is US\$149.

NEW PLACE TO MEET

The Masonic building across the street from the court house is our new meeting place. The movement was made so as to avoid conflicting meetings at our previous meeting place. We need to thank the Masons for their gracious offer to use their facility.

OPINION

As a teacher, I found one of the problems that needed a watchful eye was the using others work and claiming it as your own. That might be copying someone elses homework or using the material in an encyclopedia for a term paper. The fancy name is plagiarism and the simple is theft. Please note that the editor of this tome is probably guilty of this sin as the result of running out of inspiration.

SWAPFEST REPORT

There are many rites of Spring - melting snow, the return of Sandhill Cranes from their winter haven, and most importantly for us amateur radio enthusiasts, the Marshall Crossroads Hamfest! In spite of the abbreviated late Friday night setup due to the MHSAA District Basketball game at Marshall High School, the many SMARS volunteers, sponsoring Marshall High School teachers and a select group of MHS students did a bang-up job of setting up for Saturday's event. All told, there were just over 1,200 tickets sold to our event, a pretty decent turnout especially considering the current economic conditions in our State. We were saddened to learn of the impending close of Elmer's Ham Shack, and very pleased to have some brand-new vendors from the East Coast at our event.

Many thanks go out to the hard-working SMARS volunteers who gave up some sleep Friday night to help with setup, Marshall High School Industrial Arts department, and the lone Scout from Battle Creek Troop 325 who all helped make the 2009 Crossroads Hamfest a success. I'd also like to personally recognize Bob Kingsbury KC8PRL, Don Larkin W8RVT, and John Davidson KC8WMM for the extra assistance they provided to me as I returned to school this fall and began new employment. Preparations are now underway for the 2010 Hamfest, still in Marshall but at a new, more easily accessible location - the Marshall Activities Center.

Stephanie W8AEZ



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TECH NET ON ECHOLINK

I'm pleased to announce that the "Worldwide DX Linking System" now features a Thursday night Tech Net at 7:30 pm eastern time.

The net is hosted by K4XZ or AG4RJ of the Motorola Amateur Radio Club located in southern Florida. If you have any suggestions or critiques for the net, please contact Chuck at "w4roa at arrl dot net"

The "Worldwide DX Linking System" is hosted on the KB2HZE-L conference Server...you may connect by using KB2HZE-L or node 336206.

All are welcome to attend...

73

Rick - KJ4ICG

GIFT

A month ago, our technical engineer called attention to the need for a new power module for the 220 repeater. SMARS received a gift of \$50 for the purchase of that model from an anonymous source.

Many thanks from SMARS to that individual for his/her gift.

GONE

SMARS members share the sorrow of the families of fellow SMARS members George Geuren and Dave Smith who recently lost parents.

MI QSO PARTY

The Michigan QSO Party takes place on Saturday, April 18, 1200 EDT to 2400 EDT (1600Z Saturday to 0400Z Sunday).

VE SESSION

On the fourth Thursday of April, our local VE Team will be giving amateurs a chance to upgrade their license class. If you are one of those planning to do so, make certain that you have a copy of your license. This will be left with the team. Don't come with your license only.

The tests will be offered in the Masonic building by the court house and First Methodist church.

ECHOLINKS

March was one of the least busy months for Echolink on the 224.24 repeater as there were only 90 connections. One of the most interesting was a call from a mobile using the CN8SG link in the Kingdom of Morocco. How many here have had a contact with Morocco?

Another interesting one came from down under. Seems someone down there connected the VK2HDC link to W8DF during a local QSO. The contact resulted in two very sleepy hams at 0400 VK time!

As usual, you can view the logbook at w8df.com

Don, W8RVT

(Ed: There were 8 foreign countries in contact with us and 7 of the 10 call zones.)

WISCONSIN AT 5 GHZ

This was spotted at the Amateur Electronics Superfest. The demo was a pair of IP phones interconnected via 2.4 GHz shotgun antennas.

They are deploying a 5.6-5.825 GHz high speed digital network in Southeast Wisconsin using the Ubiquiti Bullet 5HP, a 1 watt 5 GHz capable transceiver.

Quote:

Due to the 6-54 megabit bandwidth, multiple simultaneous communications can take place on a single channel. Any site can act as an intelligent digital repeater into the network and thereby expand the mesh...

Due to the 12 volt operation and the small, high gain antennas, a portable station can be quickly assembled in the field and added to the digital backbone network.

Field locations provide: VoIP telephone for command posts, real time high resolution video of conditions, e-mail and file transfers, extension of the digital network, and standard voice type QSO's.

You can view the overview handout of their digital backbone project here:

<http://www.qsl.net/kb9mwr/projects/wireless/WIARC.pdf>

LAURA SMITH SPECIAL COUNSEL

Replacing Riley Hollingsworth

Smith, a lawyer, is no stranger to the FCC or Amateur radio. She began her legal career with the Commission, working in the Mass Media Bureau and Wireless Telecommunications Bureau (WTB), working with Senior System Analyst Bill Cross, W3TN; she also served as Deputy Division Chief of the Public Safety and Private Wireless Division. Smith also knew Hollingsworth through her father-in-law Richard M. Smith, former Chief of the Field Operations Bureau, at the time responsible for all FCC field engineering and enforcement activities. Richard Smith led many investigations of illegal uses of the radio spectrum, including the successful apprehension of "Captain Midnight" who overrode a satellite television broadcast signal. Smith also served as Chief of the FCC's Office of Engineering and Technology (OET).

"Riley worked for my father-in-law for years," Smith said. "My father-in-law was the Chief of the Field Operations Bureau at the FCC for 25 years. So enforcement is actually something that is a long-standing family tradition. A member of my family -- the Smith family -- has worked at the FCC continuously since 1964: Myself, my husband and my father-in-law."

Calling Hollingsworth "irreplaceable," Smith said what he did for the Commission and for the amateur community was "amazing. He volunteered for that job. He stood up and said, 'I'm an amateur. I love this community and I want to give back to it.' This position needs to be filled by somebody who is interested in doing it long-term. This [job] is not a stepping stone; it's not a short term process. This wouldn't work if I were trying to be Riley. I'm not going to be Riley. We're very different people. But we both have the same goal: To make the amateur community better."

Smith emphasized that an Amateur Radio license is "a privilege, not a right. When you come to the FCC and you sign up for a license and you get that license, you have agreed to abide by those Rules. That is inherent in the application process. As an applicant and a licensee, you have said, 'I will hereby comply with the Rules that have been enacted by the FCC.' So you have said, 'I will adhere to that.' And if you choose not to, then you are subject to losing that privilege."

Smith is not yet a licensed amateur. She said that she will get her license "someday," but that she did not want to get her license just because her job involves Amateur Radio: "I didn't want to come into this job and become a ham, saying, 'I'm getting this job so I'm going to be a ham -- not because I'm interested in being a ham, but because it looks better on paper.' So ultimately I will become a ham." Smith said that her father-in-law, when stationed in the FCC's Field Office in Los Angeles, used to administer the Morse code test to prospective licensees: "So he has challenged me that before I can become an amateur on any level, I must learn Morse code and I must pass the test with him administering the Morse code. So I have a challenge. I am going to begin learning Morse code this summer. He is going to start teaching me, so once I have sufficient proficiency, then he will let me take the [Technician] test."

FCC SAYS NO TO PRISON CELL-PHONE JAMMING DEMO

Ed note: I find this of interest after noting that a police agency in this state stated that they were purchasing such a device with forthcoming government monies.

CellAntenna had wanted to demonstrate that its gear could be used by prison officials to block calls being made by prisoners with illicitly obtained cellular phones. It has placed a request before the regulatory agency for a demonstration to take place on Friday, March 20th. CellAntenna's request indicated that the demonstration would use directional jamming that can be operated so that its impact is limited to a jail or prison, without interfering with other cellular phones or lines of communication beyond the walls of the correctional facility, or otherwise outside the established test area.

In the end the FCC denied the request, based on the fact that its rules state that it is against the law to manufacture, import or sell any form of device here in the United States that deliberately interferes with radio communications. It also notes that CellAntenna, is not a federal entity subject to any statutory exemption to this rule. As such, the CellAntenna request to hold the demonstration has been denied. (FCC)

HUH?

Jim WB6BLD has released a new version of his free panel layout software - Meter Basic. This is a very useful program for making professional-quality meter faces for all sorts of electronics. Why not put all that loose RF floating around your antenna farm to good use? The Mobius Line provides a simple, thaumaturgical way to harness those spare cycles. Obtain a length of parallel-conductor feed line any integer multiple of one-half wavelength at the frequency of the RF you wish to harvest. Configure the two ends of the line in propinquity and cross-connect the conductors so that the loop contains a single half-twist, but not necessarily in pike position. Be careful when making the connections as energy will immediately begin to flow around the loop, crossing over at the twist and reinforcing with the previous half-cycle on each circumnavigation. Chill the loop to -273°C , but do not shake or stir. It will immediately undergo Guthian Inflation and begin to rotate in the direction determined by the vector Mollary-Curl of the RF field's zero-point energy, osculating at the reciprocal of the phase velocity and forming a retro-encabulator. Useful power may be extracted by placing a baseball card immediately adjacent to the loop and gluing an Illudium Q-38 modulator over the player's stats so that the insulators make that wonderful "blap-blap-blap-blap" sound until the cranky neighbor down the street yells at you to cut it out and go home.

WHAT IS MEANT

by the gain of an antenna in dB?

Yes the gain can be less than one, which is a negative number when expressed in decibels. Decibels represent a ratio between two powers. When we say dBi one of those powers is an isotropic source.

When we say dB, as in the gain has increased 3 dB, we are saying that the 3 dB increase is referenced to whatever the power was before the increase.

So you see decibels referenced to all sorts of things: dBd, dBi, dBm for reference to the gain of a 1/2 wavelength dipole, an isotropic source, and a milliwatt. dBA, dBuV, dBuT, and on and on.

We can go over this in more detail if anyone is interested but to get things going: When we say we have increased a signal by 6 dB we don't have to specify voltage, current, or power. 6 dB is 6 dB. If we increase the voltage by 6 dB we have doubled it. How much has the current increased? It has doubled. This is 6 dB. How much have we increased the power? It has gone up by the voltage squared, or four times. How many dB is this? It is 6 dB.

During weak signal work even a dB can make the difference. It is when the signal is S-3 and the noise is S-4 that a little bit of extra signal is needed. This is often the case on 160 meter CW. Over the course of 1000 contest QSO's that extra 1 dB will make a small but significant difference in the score and can make the difference between 1st place and 1st loser (that is 2nd place).

3 dB is 3 dB. If I increase the power by 3 dB I have increased the voltage by 3 dB and I have increased the current by 3 dB.

dB are always in power. How so when we calculate it for the ratio of two voltages?

$dB = 10\text{LOG}(P1/P2)$, the ratio of two power levels.

To do the same with voltage we square the voltages because power is proportional to voltage squared.

$dB = 10\text{LOG}(V1^2/V2^2)$

To make this easier we take the squaring operation and move it to the multiplier (the multiplier of 10 converts bels to decibels)

$dB = 10\text{LOG}(P1/P2) = 10\text{LOG}(V1^2/V2^2) = 2(10)\text{LOG}(V1/V2) = 20\text{LOG}(V1/V2)$

Why did we just calculate the ratio of two power levels without including the resistance? R is in the numerator and the denominator and so we cancel them and they are no longer there.

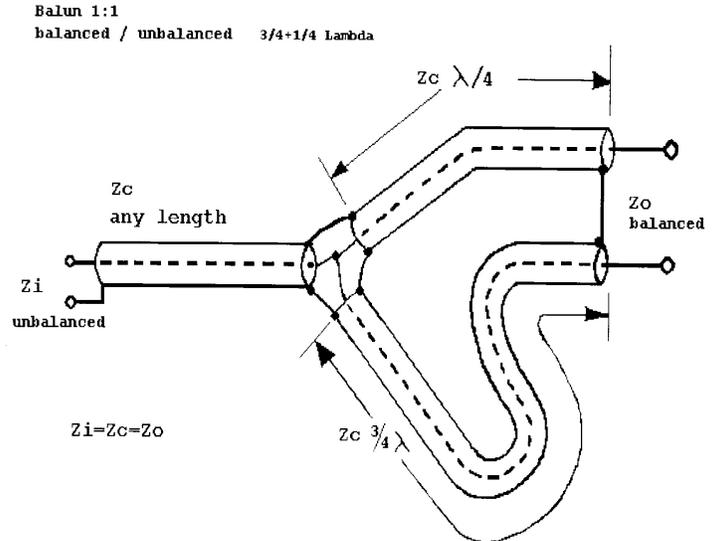
An example: You double the voltage. This quadruples the power by the formula $P = E^2/R$.

$20\text{LOG}(2/1) = 10\text{LOG}(2^2/1^2) = 6\text{ dB}$

That is one of the beautiful things about decibels, a dB is a dB whether we are talking voltage, current, or power.

Dave WX7G

Coaxial Balun by IØQM



The balun described above has some interesting ideas that may make it very useful to a vhf or even a 10 meter fan. For some this may appear as a something new, but the idea has been around for quite a while.

BUILDING A 5/8 WAVE 2M ANTENNA

(We often want a mobile antenna with greater capability than the usual quarter wave antenna. Tim Hunt, VK3IM, tells how to make such an antenna.)

If you had a quarter wave vertical radiator, you would need quarter wave radials (or longer). If you add a half wave section to it, giving you 6/8 ($1/2 + 1/4$) wave vertical, the same applies except you will get some 'nasty' high angle lobes. Cutting off that 1/8 wave and replacing it with a loading coil will almost remove those high angle lobes and give you a gain of close to 3 db. What you effectively have then is a vertical double extended zepp (two 1/2 waves in phase with increased center spacing to increase the gain). The missing half can be viewed as an inverted image in your ground plane.

You can helically wind it on your fiberglass rod but make the physical length no more than 5/8 wave long. The loading coil then becomes integrated into the antenna.

You will need to experiment (or borrow some impedance measuring equipment) with the number of turns and turn spacing until a resistive base impedance close to 50 ohms is found.

If this antenna is to be used as a base antenna and you use a small number of radials (say 4) you may experience lowered gain and a split vertical lobe pattern. If you use a large enough pizza or similar tray no radials will be required.

MATRIMONIAL BLISS

"Mr. Clark, I have reviewed this case very carefully," the divorce Court Judge said, "And I've decided to give your wife \$775 a week,"

"That's very fair, your honor," the husband said. "And every now and then I'll try to send her a few bucks myself"

A doctor examining a woman who had been rushed to the Emergency Room, took the husband aside, and said, "I don't like the looks of your wife at all."

"Me neither doc," said the husband. "But she's a great cook and really good with the kids".

An old man goes to the Wizard to ask him if he can remove a curse he has been living with for the last 40 years.

The Wizard says, "Maybe, but you will have to tell me the exact words that were used to put the curse on you".

The old man says without hesitation, "I now pronounce you man and wife."

While shopping for vacation clothes, my husband and I passed a display of bathing suits. It had been at least ten years and twenty pounds since I had even considered buying a bathing suit, so sought my husband's advice.

"What do you think?" I asked. "Should I get a bikini or an all-in-one?"

"Better get a bikini," he replied. "You'd never get it all in one." He's still in intensive care.

Moe: "My wife got me to believe in religion."

Joe: "Really?"

Moe: "Yeah. Until I married her I didn't believe in hell."

DARK MATTER?

Lawrence Livermore Laboratories has discovered the heaviest element yet known to science.

The new element, Governmentium (Gv), has one neutron, 25 assistant neutrons, 88 deputy neutrons, and 198 assistant deputy neutrons, giving it an atomic mass of 312.

These 312 particles are held together by forces called morons, which are surrounded by vast quantities of lepton-like particles called peons.

Since Governmentium has no electrons, it is inert; however, it can be detected, because it impedes every reaction with which it comes into contact. A tiny amount of Governmentium can cause a reaction that would normally take less than a second, to take from four days to four years to complete.

Governmentium has a normal half-life of 2- 6 years; It does not decay, but instead undergoes a reorganization in which a portion of the assistant neutrons and deputy neutrons exchange places.

In fact, Governmentium's mass will actually increase over time, since each reorganization will cause more morons to become neutrons, forming isodopes.

This characteristic of moron promotion leads some scientists to believe that Governmentium is formed whenever morons reach a critical concentration. This hypothetical quantity is referred to as critical morass.

When catalysed with money, Governmentium becomes Administratium, an element that radiates just as much energy as Governmentium since it has half as many peons but twice as many morons.

TO MEMORIZE

Prehistoric Solution for Some Modern Dilemmas

In today's cryptically secure world we have many passwords and personal identification numbers (PIN) to remember. Passwords and PINs such should be guarded closely and for added security they should be changed regularly. Keeping track of these pass codes can be a strain on the cranium especially for the lesser used secret alphanumeric combinations. Here is a good trick to use for remembering your usernames and passwords, write them down. Yes, ever since caveman used a charred stick to scratch the directions to his favorite hunting locations on the cave wall humans have used the notepad to enhance the quality of life. In the future when you need a password simply look at your notebook. (The high tech guys call this data retrieval.)

Soon after the charred stick event caveman discovered that a picture is worth a thousand words. A simple solution for remembering setting for software is to take a screen shot* of the configuration screen, paste it into a document and save in a folder. Should you have to re-configure you program simply open your document and compare it to the software configuration screen and make sure that all information is entered correctly and any check boxes that need to be checked are done. I have done this for several friends and I tell them that before calling me for help they should open the file and make their screen look like the picture.

* Making a screen shot involves two steps.

1- Hold down the CTRL key while pressing the PRINT SCR key to capture what is on your computer screen.

2- In your word document position the cursor where you want to paste the picture captured in the previous step. Hold down the CTRL key and press the key for the letter V.

ARES / RACES Report for March 2009 in Calhoun County

RACES / Skywarn Nets and Training

10 Skywarn Training Nets 1hr each @ 143 People = 143hrs
1 Hazardous Weather Training 4hr each @ 25 people = 100hrs
243hrs Total

Public Service Events

Siren Test 15 People@ 2hrs each=30 hrs Total

Administration Hours, 20hrs Total

Emergency Operations 0hrs Total

Travel Hours 8hrs Total

Expenses- Out of Pocket \$125.00 Total

Travel Miles 125 Miles Total

Members 34

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

WORLDWIDE SET

Global Simulated Emergency Test Scheduled for April

The HQ Stations of all IARU Member-Societies, as well as the stations of Emergency Communications Groups, have been invited by IARU Region 1 to participate in the 2009 Global Simulated Emergency Test (GlobalSET), on Saturday, April 18, 2009 from 1100-1500 UTC. The GlobalSET will take place on and near the emergency Center of Activity (CoA) frequencies on 80, 40, 20, 17 and 15 meters, +/- QRM. Stations in the United States intending to participate need to register through their IARU International Emergency Communications Coordinator. For the United States, registrations should be e-mailed to ARRL Emergency Preparedness and Response Manager Dennis Dura, K2DCD at, k2dcd@arrl.org.

MARCH OF DIMES

March of Dimes, March for Babies

This Years March of Dimes, March for Babies will be held on Saturday April 18 at Battle Creek Health System, Outpatient Services. Starting time will be 8:00 A.M. and will finish around noon. This is a very worth while event for the Battle Creek area and good public relations for RACES and the SMARS Club. If you would like to Volunteer to help for this years event please contact me. We will use 146.440 simplex for the event, If you use a handheld radio be sure the battery is charged and a spare battery pack is a good thing to have. Some of the Check Points can be worked from your vehicle.

Dave Smith KC8COT
E-12 City of Battle Creek and Calhoun County
RACES Emergency Coordinator
E-Mail: kc8cotham@aol.commix: (269) 317-8440
Pennfield repeater 147.120 standard + offset and PL of 186.2

THE AMERICAN BOY

from: Amateur Radio Newsline

A quick look back at the history of amateur radio and some of the politics that kept it alive after the first world war. It's a story that might best be called The American Boy and here's Jim Linton. VK3PC: The 3rd National Radio Conference was held in Washington, D.C. in October 1924.

In the chair was Secretary of Commerce, Herbert Hoover, who, in his opening address said, "Nor have we overlooked in these previous conferences the voice or interest of the amateur, embracing as he does that most beloved party in the United States - the American boy.

"He is represented at this conference, and we must have a peculiar affection for his rights and interests.

"I know nothing that has contributed more to sane joy and definite instruction than has radio.

"Through it, the American boy today knows more about electricity and its usefulness than all of the grown-ups of the last generation.

"I have, during the past year, somewhat extended this wave band. I hope that this conference may dismiss the objections that have been raised to this action.

A member of the conference coordinating committee was the ARRL's Hiram Percy Maxim, the "Father of Organized Amateur Radio," in the United States.

At the end of the conference, amateurs substantially retained their frequency bands - spectrum we know today as 160M, 80M, 40M, 20M and 6M.

The conference recognized that rapid changes were being imposed by scientific discovery and invention.

It looked at the emerging trends in broadcasting that were making radio available to every home in the country.

Interference was a hot topic, with references to electrical devices and methods to reduce their impact on radio reception.

From the Amateur Radio Newsline

NEW IDEA

Check out the new eSpotter function from the National Weather Service, as well as the new interactive NWS iNWS. eSpotter is a system to facilitate the submission of spotter reports online. The system is being developed to enhance and increase timely and accurate online spotter reporting and communications between spotters and the National Weather Service. The use of the system is currently available for trained spotters and emergency managers." -- NWS

The iNWS is the home of new mobile and desktop innovations of the National Weather Service. "iNWS strives to fulfill its mission of protecting life and property by using new technology to reach out to customers."

SMARS Club Meeting

March 19, 2009

Called to Order: 7:06 P.M.

Officers Present: Jerry W8FOK, Don W8RVT , John KC8WMM

Pledge of Allegiance

Introductions

Secretary's Report: Approved as published in Feedback.

Treasurer's Report: Approved as published in Feedback.

Committee Reports:

Field Day: Business as usual. Jerry would like all the trailers to be like the 6m trailer, a goal for 2009.

Hamfest: Bob thanked all the participants. The rumor mill is running amuck about the Hamfest moving next year. Vendors are split on staying or moving. The Terre Haute Hamfest was effected by the move to the 2nd Saturday. Maumee may be a 2 day event next year. 2 incidents this year, one resulting in a claim against SMARS. Formal motion made to thank Bob and Stephanie for their work this year and last.

RACES/ARES: Skywarn training on March 28 at Lakeview Middle School. March of Dimes walk on April 18. Gary KC8H has codes to active weather alerts on the 66 repeater.

VE Testing: No session in December (would be 12/25). The listings with ARRL have not been posted yet.

Technical Engineer: Repeaters working normally.

Break

Old Business: none.

New Business: The Masonic Home in Alma has an Antique Radio Museum. If there is interest, a road trip can be organized.

Drawing: won by KA8MZM

Respectfully Submitted,
John Davidson KC8WMM
SMARS Secretary

SWAPFESTS

18 April Highland MI.
Milford Swap and Shop
Milford Amateur Radio Club
Highland MI
Milford High School
2380 South Highland Road
Talk-In 145.49(PL 67), 146.52
<http://www.qsl.net/w8ydk>
Contact: Rose Moore KC8NQJ
810-632-5174

SMARS Board Meeting

March 30, 2009

Called to Order: 6:07 P.M.

Officers Present: Ned WB4BKO, Don W8RVT ,John KC8WMM, Jerry W8FOK, Russ N8UU

Others Present: Marion WA8MFL, Stephanie W8AEZ , Bob KC8PRL

Topics Discussed:

Financials:

Preliminary Hamfest report ready for Marshall. Still Waiting for the custodial bill, which may not arrive until May or June. Overall balance sheet then cannot be finalized for the month of March. The Board approved the financial report as is.

A vote was taken to not publish Club financial data in Feedback, either in the print version or on-line. Data will be available at Club meetings to members.

Field Day:

Surveyor stakes have been spotted. This is not likely to affect Field Day this year. SMARS equipment is to be tested on a good day in May. SMARS needs to reach out to local hams, encouraging them to participate in Field Day.

Meeting Programs:

A number of prospective topics were explored. Ned is finding it harder to recruit new speakers for Club Meetings. Any suggestion is welcomed.

Hamfest:

Some of the difficulties with the Marshall High School are due to no ham presence on the teaching staff. Alternative locations are being scouted. Don has contacted the Kellogg Arena and the MAC in Marshall. Final numbers are pending, but the MAC is looking promising.

SMARS' insurance carrier is dealing with the claim of the man who fell in the gym. The primary responsibility is with Marshall High School.

SMARS Wish List:

Don brought up the idea of a wish list for 2009. Several goals were discussed, with more input needed.

Adjourned: 7:27 P.M.

Respectfully Submitted,
John Davidson KC8WMM
SMARS Secretary

SOUTHERN MICHIGAN AMATEUR RADIO SOCIETY

FEEDBACK



APRIL 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

THIS MONTH SMARS CLUB MEETING APR 16

MARCH OF DIMES WALK APR 18

HAMFEST HIGHLAND MI APR 18

HAMFEST PERU IN APR 19

SMARS BREAKFAST MAY 1

HAMFEST CADILLAC MI MAY 2

SMARS BOARD MAY 5

B4LUNCH BUNCH LUNCH MAY 14

HAMFEST DAYTON OH MAY 15-17

NEXT MONTH SMARS CLUB MEETING MAY 21