



FEEDBACK

OCTOBER 2009



COMMENTS

This month's Feedback contains several antennas that might be useful if a person would want to get involved with fox-hunting. They also would be valuable finding the source of unwanted interference. Of course this is in response to the excellent presentation by the Branch County Amateur Radio Club. If you missed their program, you missed a good one.

As we were wrapping up this issue, the ARRL issued a bulletin informing us that a bill had been introduced into the Senate that parallels HR 2150. For many amateurs, these bills are very important by giving relief from restrictive rules in housing developments. Have you written to your U. S. Representative in support of HR2160? SB 1755 has been introduced with support of both parties. A letter to your Senators in support of these bills would help get them through the various steps necessary.

We are getting close to the end of the year and the collection of is starting but we also need to chose officers. We've had our President and Vice-President resign as a result of medical and change of residence. Both have been very effective in their roles, Jerry by his leadership and Ned by finding sources of entertainment. Give some serious thought to who shall lead SMARS for the next year.

Within SMARS there are many people with talents that should be shared with others. One of the disappointments of being editor for Feedback is the lack of support by the membership. Let the editor edit articles submitted by members, not write those articles. You write, we'll take care of spelling, grammar and acting the role of your English teacher.

Every issue of Feedback contains some humor of some sort. You'll find a rather long story that I came across quite a while ago and have been wanting to share with you. It doesn't have a thing to do with amateur radio. So what? It's funny!

DUES

It's getting close to that time of year again. Since our membership year runs from Jan 1 to Dec 31, the book keeping becomes much simpler if dues are paid prior to the end of the year. While most members pay a single year at a time, there are a few who pay several years at a time. In the upper corner of the address label on the snail mail copy of "Feedback" the number 09 appears with some of several different letters, your dues will be due by the 31st of Dec.

The member dues are \$10, If more than one live in the same household then each additional member would cost \$1. As an example, in my home with three hams the total package is \$12. Where else can you become a member of anything for that little?

HR2160

Don't forget to support HR 2160 -- The Amateur Radio Emergency Communications Enhancement Act of 2009 -- the ARRL is asking its membership to contact their members of the US House of Representatives with a request to become co-sponsors of this significant piece of legislation.

Back on Wednesday, April 29, 2009 Representative Sheila Jackson-Lee (D-TX) introduced HR 2160, the Amateur Radio Emergency Communications Enhancement Act of 2009, in the US House of Representatives. This bill, if passed, would promote and encourage the valuable public service, disaster relief, and emergency communications provided on a volunteer basis by licensees of the Federal Communications Commission in the Amateur Radio Service, by undertaking a study of the uses of Amateur Radio for emergency and disaster relief communications, by identifying unnecessary or unreasonable impediments to the deployment of Amateur Radio emergency and disaster relief communications, and by making recommendations for relief of such unreasonable restrictions so as to expand the uses of Amateur Radio communications in Homeland Security planning and response.

SHOW AND TELL

Don-W8RVT is building a TOAD direction finder. He expects to bring it to the club meeting for show and tell. Does anyone else have something to show off? Bring it!



THE THUMB

Norm Fusaro, W3IZ

Let's consider the thumb for a moment. The thumb's ability to work with all the fingers on the hand makes it very important to humans.

The opposable thumb separates humans (and primates) from other animals and is responsible for most human accomplishments. Because thumbs give us dexterity and allow us to use tools, we have been able to build many wondrous things. Some of these things are as small and intricate as a Swiss watch and as grandiose as skyscrapers and vehicles that allow us to explore beyond our planet. It is absolutely amazing that if not for the opposable thumb and the human brain that controls it, pretty much everything in our world would not be possible.

There is a lot of power in the thumb. Pointed downward a thumb could send a gladiator to his death. Hung out along a roadway the thumb can stop a car and keep subordinates under their thumb to maintain control. The thumb lets us know when we've done a good job, calls out baseball players, gives an artist perspective, counts money and can pacify a crying baby. The thumb also has a sinister side.

We can thumb our nose at people, card cheats use the thumb to deal from the bottom of the deck or mark cards with a thumbnail, and the dishonest butcher has been known to place his heavy thumb on the scale.

For as much as the thumb has done to enhance our lives it seems that the index finger has been getting a lot of exercise recently. The index finger is very good at pointing however a pointing finger has not really accomplished as many positive things as the thumb has.

Sure the index finger may dial a telephone, but without the thumb the telephone would never have been built. Pointing fingers send people away, poke-out eyes and blame others for our condition. In every aspect of our lives we see people pointing the finger of blame rather than accepting responsibility. A kid fails in school not because the teacher taught the lesson poorly, but because he failed to study. A lady scalds herself with hot coffee not because the restaurant did not label the cup--she was scalded because she put hot coffee in her lap. People find it easier to point a finger instead of planting their thumb in their chest and saying "I am the one who will make a difference." If you ever feel the need to point a finger remember the thumb and all that is possible because of it. Let's metaphorically use our opposable thumbs to grip the rope and pull in the same direction.

Board of Directors

President

Bob Kingsbury
KC8PRL
Kings-boo@yahoo.com

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kc8wmm@arrl.net

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w8rvt@arrl.net

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N8uu@mei.net

Advisory Committee

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Lewis (Lou) Ryason
WB8WXS
wb8wxs@mei.net

Trustee

Russ Beutler
N8UU
n8uu@mei.net

Technical Engineer

David Gerber
AB8HK
David@mei.net

Editor

Marion Davidson
WA8MFL
wa8mfl@arrl.net

SMARS Web Site

www.w8df.com

All correspondence should be addressed to
SMARS
P. O. box 934
Battle Creek, MI. 49016

WORD TO THE WISE

Cloudburner - You've heard the term "NVIS" probably, referring to the use of high-angle signals to provide regional coverage on the lower HF bands. Before it got a snazzy FLA (four-letter acronym), an NVIS antenna was called a "cloudburner" and is still part of every domestic contester's aluminum arsenal. High-angle signals from low dipoles on 14 MHz and lower frequencies allow you to maximize short-skip QSOs. When sunspots are low and 40 and 80 meters hot, putting up a cloudburner to complement your low-angle DXing antenna is a good strategy.

INSTALLING PL259S

PL-259 Connector

Want a good video on installing a PI-259 Connector?

Installing a PL-259 on RG-213

<http://www.youtube.com/watch?v=n1nabA6yMol>

Installing a PL-259 on RG8X

<http://www.youtube.com/watch?v=PzXXjzmA-E&feature=related>

AREN'T WE LUCKY?

How lucky can we be?

After being the target of a bird dropping its droppings on your head, imagine what would happen if cows could fly.

ANTENNAS

The illustrations to the right are of the most basic and common antennas. The words approximate(ly) indicate a variance usually caused by the effect of the ground in the neighborhood of the antennas — both the composition of the earth nearby and how high above the ground the antenna is mounted. If there is room or space to mount the antenna, the choice of length will be helped with a SWR meter looking for the lowest reading possible.

If there isn't room to mount the full length of the horizontal antenna, usually called a dipole, try to have at least 2/3rds of it horizontal. The rest of it could hang down from the ends.

An antenna tuner will be found to be very useful in most cases.

Those amateurs that are using SSB as a mode in VHF and UHF often are looking for a horizontally polarized omni direction antenna. The Turnstile serves this purpose very nicely for local needs or as a net control. A six meter version is probably as large as a cantilever version can be made at reasonable cost. The general schematic for one appears below.

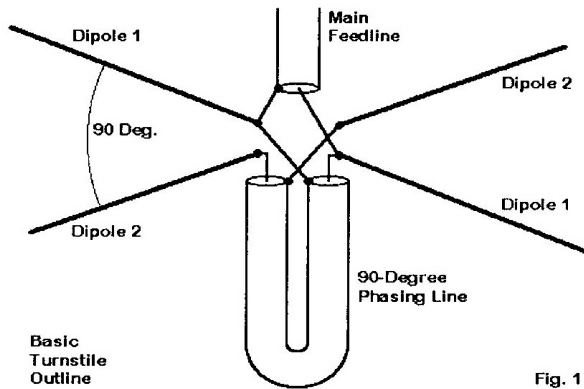
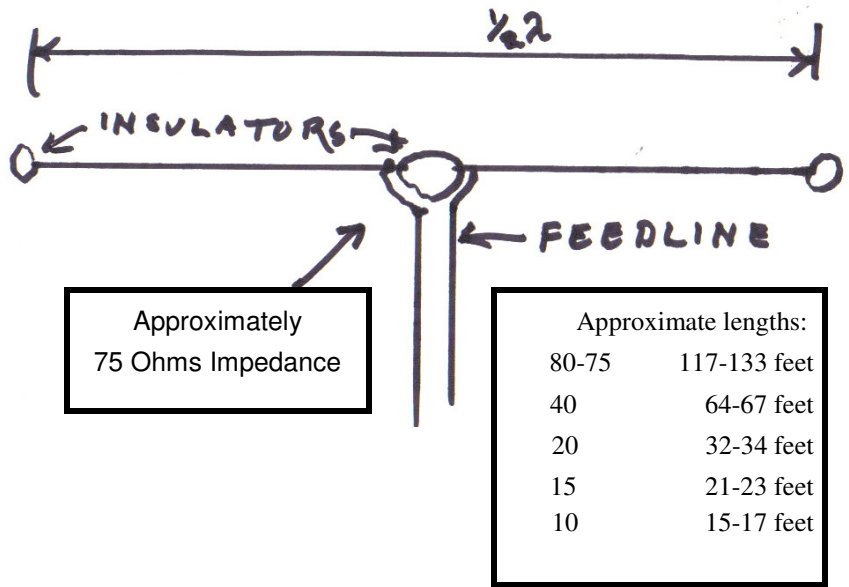
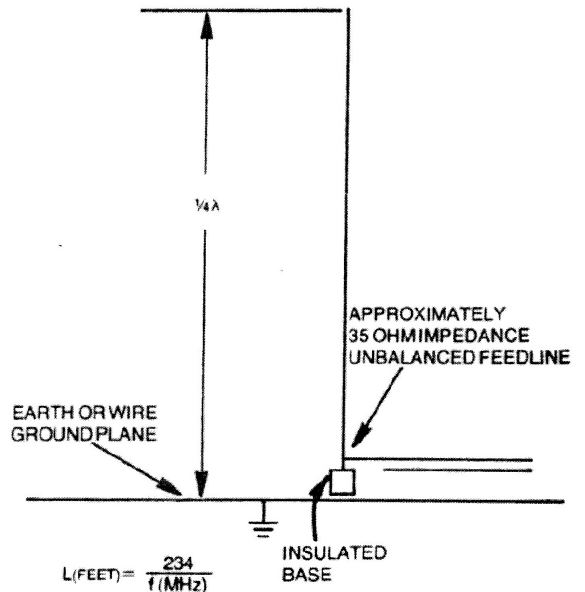
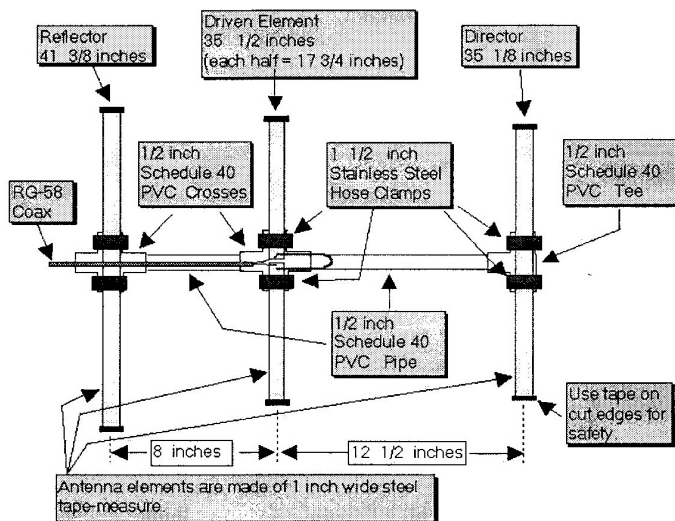


Fig. 1



BAND	APPROXIMATE LENGTH
80	58-66 FEET
40	32-33 FEET
20	16.5 FEET
15	11 FEET
10	8 FEET

Antenna the Branch County group brought here appears below



ANTENNA GAIN

More than ten years ago a humorous article on antenna gain was published in the ham radio magazine "QRV." The article stated that there are three kinds of gain:

1. the dB/d and dB/i gain based on CCIR regulations (the true and honest real gain!)
2. the "dB/ham radio gain," which is 6dB higher than the real one.
3. the "dB/CB gain," which is 10 dB higher than the real one.

HOMELAND SECURITY IN THE '50S

This story appeared in the Antelope Valley Press on Sunday, January 18, 2004.)

By BOB WILSON Valley Press Staff Writer PALMDALE -

Some old-timers may remember it, and a few local history buffs jokingly refer to it as the Battle of Palmdale. But those who moved to the city as part of the post-1980 population boom may not realize Palmdale is one of few Southern California communities to have suffered through an air-launched rocket attack.

Though inadvertent, the attack came in the summer of 1956 when U.S. Air Force fighters were scrambled to shoot down an out-of-control Navy drone that threatened to fall on Los Angeles. Instead of downing the drone, a pair of Air Force fighter-interceptors blasted holes in the desert from Castaic to Palmdale, starting fires, damaging homes and perforating a station wagon rolling along Palmdale Boulevard. None of the 208 unguided Mighty Mouse air-to-air rockets fired by the interceptors hit their target. Instead, the drone eventually ran out of fuel and crashed of its own accord near Avenue P and 110th Street East after snipping three power lines.

Aerospace archaeologist Peter Merlin, born after the incident, offered an account of the 47-year-old misadventure. "Following World War II, a number of Grumman F6F Hellcats were converted to target drones," Merlin said. "On Aug. 16, 1956, one of these radio-controlled Hellcats was launched by the Navy from Point Mugu as a target for a missile test.

"The Hellcat took off at 11:34 a.m., climbing out over the Pacific. As controllers attempted to maneuver the drone toward the target area over the ocean, they realized it was not responding to radio commands," Merlin said. The drone had thousands of square miles of ocean in which to crash, but instead, "it made a graceful climbing left-hand turn to the southeast, toward Los Angeles," he said.

With the runaway aircraft headed for a major metropolitan area, the Navy called the Air Force for assistance. At the time, Oxnard Air Force Base was five miles from the Navy's Point Mugu facility. "It must have sorely tested Navy pride to ask the Air Force to bail them out of an embarrassing situation," Merlin opined. "No doubt the Air Force's alert crews were aching for a little action and a chance to show the Navy boys their stuff."

The Air Force scrambled a pair of Northrop F-89 Scorpions from the 437th Fighter Interceptor Squadron to shoot down the Hellcat, which had been painted bright red for high visibility. The Scorpions had no cannons, but they had wingtip-mounted rocket pods, and each pod contained 52 small unguided rockets to be used in salvos against enemy aircraft. "Instead of facing planes representing the 'Red Menace' of the Communists, the Scorpions were facing a different kind of red menace that day," Merlin said, smiling.

The interceptors caught up with the left-circling drone northeast of Los Angeles at an altitude of 30,000 feet, he

said. The jets tailed the Hellcat as it turned southwest and made another pass over Los Angeles before heading northwest toward Santa Paula. The jet crews, which consisted of a pilot and a radar observer, waited for the drone to reach an area that was relatively unpopulated. But when the crews attempted to fire, a design glitch in the automatic fire-control system for the Mighty Mouse rockets repeatedly prevented launches while the attack planes were turning, Merlin said.

The jets continued tailing the bright-red, prop-driven drone as it continued to circle, eventually leading them toward Fillmore and Frazier Park, he said. "It appeared to be heading toward the sparsely populated western end of the Antelope Valley, but suddenly, it turned southeast toward Los Angeles again, and time seemed to be running out," Merlin said. The Air Force fliers opted to abandon their planes' automatic system and fire their rockets manually in an attempt to bring the drone down. "Although the interceptors were delivered with gun sights, the sights were considered unnecessary and removed because the pilots were supposed to be firing their unguided rockets with an automatic system," Merlin said.

The interceptors made their first attack run as the Hellcat crossed over the mountains near Castaic. Firing salvos of 42 rockets each, both planes missed the target, he said. Rockets blazed through the sky and plunged earthward to spark brush fires north of Castaic and near the town of Newhall.

According to one witness, one rocket skipped through Placerita Canyon, leaving a string of fires near Oak of the Golden Dream Park," Merlin said. Placerita Canyon also was the location of the Indian Oil Co., and several of its oil sumps were ignited. The blazes in the canyon also at one point threatened to reach the Bermite Powder Co. explosives plant, he said. While fires burned in its wake, the errant drone meandered northwest, toward Palmdale. As it did, the jets followed, expending the rest of their weapons in two more salvos of 32 and 30 rockets each as the two interceptors attempted to bring the Hellcat down, Merlin said. What happened was that the obsolete, unpowered, unguided, unarmed, propeller-driven drone evaded the state-of-the-art jet interceptors.

In all, 208 rockets were fired without scoring a single hit," he said. "As the drone passed over Palmdale's downtown, Mighty Mouse rockets fell like hail," Merlin continued. "Miraculously, no one was hurt, and the drone finally exhausted its fuel supply, sputtered and fell, crashing into an open field eight miles east of (the) Palmdale airport," he said. Although the plane disintegrated and burned on impact, small pieces of debris -- identifiable by part numbers and inspection stamps -- were still at the site when Merlin visited it in July 1997.

According to the Aug. 23, 1956, edition of the Valley Press, one of the air-to-air rockets fell to earth and nearly hit a station wagon being driven by 17-year-old Larry Kempton of Leona Valley. Kempton, with his mother Bernice in the passenger seat, was driving west on Palmdale Boulevard just west of 10th Street West when a rocket exploded on the street in front of his car, the newspaper reported. Fragments from the explosion shredded Kempton's left front tire and put 17 holes in his radiator, hood and windshield.

Shrapnel also damaged a home near Avenue Q-8 and Third Street East and a home near Avenue Q-6 and Fourth

Street East, the Valley Press reported. Edna Carlson, who lived in the home on Third Street East, said a chunk of shrapnel from one Air Force rocket burst through the front window of her home, ricocheted off the ceiling, went through a wall and came to rest in a kitchen cupboard, according to a report in the Aug. 17, 1956, edition of a Los Angeles newspaper. J.R. Hingle told the L.A. newspaper that pieces of metal blasted into his garage and home on Fourth Street East, nearly striking a guest named Lilly Wilingham. Both homes are still standing and in use, Merlin said.

The L.A. paper also noted that "three good-size fires and numerous smaller blazes" were ignited in Palmdale by the rockets, in addition to the fires near Santa Clarita. The Placerita Canyon fire burned 75 to 100 acres before being brought under control by a team more than 200 firefighters, who helped save the Bermite plant, the newspaper account showed. "Another (fire) was seven miles north of Castaic on the old Ridge Route and burned 50 to 75 acres before being brought under control late in the afternoon" by about 100 firefighters.

The third and largest blaze was in Soledad Canyon, west of Mt. Gleason. At sundown, it had burned over 300 acres of heavy brush and continued to burn the day after the disastrous drone debacle despite the best efforts of 350 Forest Service firefighters, the paper reported. Eventually, 500 firefighters were called to the Soledad Canyon blaze, which was brought under control only after 350 acres had burned, according to later news accounts. The Placerita Canyon fire was extinguished after burning 100 acres and coming within 100 yards of the Bermite plant, and the Ridge Route fire was put out after charring 150 acres.

According to the Valley Press, a cleanup effort was undertaken in Palmdale by the Air Force's Air Defense Command in Oxnard. Military personnel scoured the area bounded by avenues Q and S, between Division Street and 10th Street West, in search of rockets or their remains, the newspaper reported. Flying in a helicopter, Capt. Sewell Griggers of the Los Angeles County Sheriff's Aero Detail spotted two of the 2-inch rockets buried up to their tail fins in an empty field bounded by Division Street, Avenue Q-4, Second Street East and Avenue Q-7. The rockets were blown up by a sheriff's demolition crew, the paper showed.

Thirteen more rockets were found between Santa Clarita and Palmdale, and demolition personnel from Edwards Air Force Base were summoned to recover them, the Los Angeles paper reported. The rockets were supposed to arm themselves after being fired and were supposed to disarm themselves as they slowed down if they missed their targets, the L.A. paper noted. "At the time it happened, there was no way for the Navy to know the plane wouldn't fall into a home or a business in Los Angeles and kill people, so the Air Force did its best to bring the plane down with no injuries," Merlin said. "In the end, that's what happened, but the plane did it without any help," he said.

"The Battle of Palmdale was won without a single shot striking the intended target.

SENATE AND HR 2160

The first few paragraphs of the ARRL bulletin announcing the introduction of SB 1755 follows.

Senate Introduces Companion Bill to HR 2160
October 6, Senator Joe Lieberman (D-CT), along with Senator Susan Collins (R-ME), introduced Senate Bill 1755, The Amateur Radio Emergency Communications Enhancement Act of 2009.

Similar to HR 2160 -- also called The Amateur Radio Emergency Communications Enhancement Act of 2009 -- that was introduced this past April by Representative Sheila Jackson-Lee (D-TX-18), the bill, if passed, would direct the Department of Homeland Security (DHS) to undertake a study on emergency communications. S 1755 points out that "There is a strong Federal interest in the effective performance of Amateur Radio Service stations, and that performance must be given --

(A) support at all levels of government; and (B) protection against unreasonable regulation and impediments to the provision of the valuable communications provided by such stations."

"We are delighted to have the sponsorship of both the Chairman and the Ranking Member of the Homeland Security and Governmental Affairs Committee, and especially to have the support of Senator Lieberman from the ARRL's home state," said ARRL Chief Executive Officer David Sumner, K1ZZ. "The bill could not have a better pedigree." Lieberman is the Chairman of the committee, while Collins is the Ranking Member.

Like HR 2160, S 1755 calls on DHS to undertake a study on the uses and capabilities of Amateur Radio Service communications in emergencies and disaster relief and then to submit a report to Congress no more than 180 days after the bill becomes law.

The study shall: Include a review of the importance of Amateur Radio emergency communications in furtherance of homeland security missions relating to disasters, severe weather and other threats to lives and property in the United States, as well as recommendations for enhancements in the voluntary deployment of Amateur Radio licensees in disaster and emergency communications and disaster relief efforts and improved integration of Amateur Radio operators in planning and furtherance of the Department of Homeland Security initiatives. Identify impediments to enhanced Amateur Radio Service communications, such as the effects of unreasonable or unnecessary private land use regulations on residential antenna installations; and make recommendations regarding such impediments for consideration by other federal departments, agencies and Congress.

In conducting the study, S 1755 directs the Secretary of Homeland Security to "utilize the expertise of stakeholder entities and organizations, including the Amateur Radio, emergency response and disaster communications communities."

REACTION TO FONE BAN WHILE DRIVING

ARRL President Joel Harrison, W5ZN, wrote a letter to National Safety Council (NSC) President Janet Froetscher in July expressing the ARRL's concerns that Amateur Radio not become an unintended victim of the growing public debate over what to do about distracted drivers <http://www.arrl.org/news/files/NSC_Letter7-30-09.pdf>. Froetscher has now replied, saying the NSC does not support bans or prohibitions on the use of Amateur Radios while driving <http://www.arrl.org/news/files/NSC_Response_to_ARRL.pdf>.

Noting that there is significant evidence that talking on cell phones while driving poses crash risk four times that of other drivers, Froetscher observed that the NSC position calling for bans on the use of cell phones while driving is grounded in science. "We are not aware of evidence that using Amateur Radios while driving has significant crash risks," Froetscher wrote in her August 24 letter. "We also have no evidence that using two-way radios while driving poses significant crash risks. Until such time as compelling, peer-reviewed scientific research is presented that denotes significant risks associated with the use of Amateur Radios, two-way radios or other communication devices, the NSC does not support legislative bans or prohibition on their use."

HUMOR FOR LEXOPHILES (LOVERS OF WORDS)

I wondered why the baseball was getting bigger.
Then it hit me.

~

Police were called to a day care where a 3-yr-old was
resisting a rest.

~

Did you hear about the guy whose whole left side was cut off?
He's all right now.

~

The roundest knight at King Arthur's round table was
Sir Cumerference.

~

To write with a broken pencil is pointless.

~

When fish are in schools, they sometimes take debate.

~

The short fortune teller who escaped from prison was a
small medium at large.

~

A thief who stole a calendar got 12 months.

~

A thief fell & broke his leg in wet cement.
He became a hardened criminal.

~

When the smog lifts in Los Angles,
U. C. L. A.

ARES / RACES Report for SEPT. 2009 in Calhoun County

RACES / Skywarn Nets and Training

8 Skywarn Training Nets 1hr each @ 146People = 146hrs
Total 146hrs

Public Service Events

1 Siren Test 10 People@ 10hrs Total

Administration Hours,

40hrs Total

Emergency Operations

10 People @ 2.5hrs Each= 25hrs Total

Equipment Hours

4 People @1.25 Each=5hrs Total

Travel Hours

4 hrs Total

Expenses- Out of Pocket

\$100.00 Total

Travel Miles

50 Miles Total

Members

34

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

HAMFESTS

17 Oct Holland MI
Lakeshore Super Swap
Holland Amateur Radio club
http://www.hollandarc.org/?page_id=22
West Ottawa High School
(South Campus)
3600 152nd Avenue
Talk-In: 147.06+ (PL 94.8)
Contact: Tom Bosscher, K8TB
616-662-1080
Email: k8tb@bosscher.org

18 Oct Kalamazoo MI
Kalamazoo Hamfest
Kalamazoo ARC & Southwest Michigan AR Team
<http://www.KalamazooHamfest.com>
Kalamazoo County Expo Center and Fairgrounds
2900 Lake Street
Talk-In: 147.040 (PL94.8)
Contact: Ruth Bates-Hill, WB8VEV
269-388-4865
Email: ruthbateshill@hotmail.com

14-15 Nov Fort Wayne IN
Indiana State Convention
(Fort Wayne Hamfest & Computer Expo)
Allen County Amateur Radio Technical Society
<http://www.fortwaynehmfest.com>
Allen County War Memorial Coliseum
4000 Parnell Avenue
Talk-In: 146.880-
Contact: James D. Boyer, KB9IH
PO Box 10342
Fort Wayne, IN 46851-0342
260-579-2196
Email: Chairman@fortwaynehmfest.com

Income & Expense Statement
9/1/09 Through 9/30/09

SMARS Club Meeting
September 17, 2009

Category Description	9/1/09- 9/30/09
INCOME	
50 50	9.00
Interest Inc: Checking	1.27
TOTAL Interest Inc	1.27
TOTAL INCOME	10.27
EXPENSES	
Feedback: Postage	26.40
Printing	36.17
TOTAL Feedback	62.57
Field Day: PortaJohn	83.00
TOTAL Field Day	83.00
Hamfest2010: Facility	288.00
TOTAL Hamfest2010	288.00
Meetings: Refreshments	6.62
TOTAL Meetings	6.62
Utilities: Telephone	64.76
TOTAL Utilities	64.76
TOTAL EXPENSES	504.95
TOTAL INCOME - EXPENSES	-494.68

SMARS Board Meeting
September 28, 2009

Officers Present: Bob KC8PRL John KC8WMM

Others: Marion WA8MFL

Not enough officers to make a quorum, no meeting held.

Respectfully Submitted,
John Davidson KC8WMM
SMARS Secretary

Called To Order: 7:05 PM
Officers Present: Bob KC8PRL Don W8RVT John KC8WMM

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: Flyers are being prepared. Mass mailings going out to all vendors from last year. Suggestion to also mail to clubs in the area. Suggestion to rent a table at Fort Wayne's Hamfest to distribute flyers.

Field Day: Need a chairperson for next year. May also need a new site.

ARES/RACES: 8 nets, 115 people participated. No PS events in the last month. October 3 is going to be an SET. No special qualifications needed to participate.

Technical Engineer: 2 and 220 repeaters working fine. 440 repeater needs antenna work.

Old Business: none

New Business:

The Vice-President position needs to be filled. A call for volunteers resulted in a deafening silence.

The Boy Scouts and ARRL are having a Jamboree on the Air on the weekend of Oct 17-18. Stephanie W8AEZ is trying to get information from the local scout troop about possible SMARS involvement.

Marshall Fly and Drive In was not a great success. A trailer was set up and contacts made, but participation was very light. Jerry W8FOK donated an antenna which worked very well for this event.

The Wi-Fi situation at the Masonic Lodge is still a work in progress. Gary W8USU is checking on it.

Break

Presentation: Representatives from the Branch County Amateur Radio Club gave a display on foxhunting, with some of the equipment used on display. Thanks to Larry WB8R, Arnie NS8T, Andrew W8CSS and rest of the gang.

Drawing: won by Rosemary WA8VXE

Adjourned: 8:46 PM

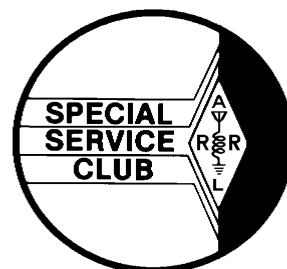
Respectfully Submitted,
John Davidson KC8WMM
SMARS Secretary

SOUTHERN MICHIGAN AMATEUR RADIO SOCIETY

FEEDBACK



OCTOBER 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 OCT 15

HAMFEST HOLLAND OCT 17

HAMFEST KALAMAZOO OCT 18

SMARS BOARD NOV 2

SMARS BREAKFAST NOV 7

B4LUNCH BUNCH LUNCH NOV 12

NEXT MONTH SMARS CLUB MEETING NOV 19

HAMFEST FORT WAYNE NOV 14-15