

The LANDLINE

The Newsletter of the
COPPER COUNTRY RADIO AMATEUR ASSOCIATION, INC.
P.O. BOX 217 DOLLAR BAY, MICHIGAN 49922-0217
Visit us on the World Wide Web: www.ccras.net

Silent Key;

We extend our sympathy to the family of Tom Kestie of Dollar Bay. Tom, KF4WDQ worked for Moyle Construction and passed away as the result of an industrial accident.
(Submitted by Geo., W8FWG)

FRIDAY NIGHT BULLETINS RESUME:

As of Friday, September 1, Geo., W8FWG has announced that the following will take place:

1. Keweenaw County ARES Net at 9:00 pm on the "315" repeater (PL100 required)
2. Followed immediately by the SKYWARN net, where your input is asked for.
3. An all new (abbreviated) BULLETIN TRANSMISSION.

Our thanks to Mark, KC8YDU for his generous contribution of equipment making this possible.

Also thanks to Gary, K8YSZ and Howard, KD8ABP for their assistance on the installation on Monday, August 28, 2006

73,

Geo., W8FWG

HAMS HELP:

Members of the KCRA (our sister club) and members of the Copper Harbor Fire Department and other communities jointly used "ham" radio and the new Statewide Network (800 MHz) to provide safety communications for what was termed the "Copperman Triathlon" held in Copper Harbor on Saturday, August 5, 2006. It ran for about two hours, starting at 9 in the morning, and ending shortly after 11am.

Headed up by two hams from Copper Harbor (Dick Powers, KA8L and Tom Boost, N8CSF), both 800 MHz units and ham radio frequencies were used successfully in providing communications tying this event together. It consisted of a swim, a bicycle race and a run in the Copper Harbor area.

Only one heat exhaustion case was reported, and the Mercy ambulance crew was right there, as it happened right in front of them! One cyclist had to drop out and was assisted back to Copper Harbor by Gary, K8YSZ.

The following individuals participated

Dick Powers-Copper Harbor FD, Copper Harbor 24, KA8L

Tom Boost-Chief, Copper Harbor FD, Copper Harbor 1, N8CSF
Dan Fosner-Copper Harbor FD, Copper Harbor 2
Gary Barker – Lac LaBelle First Responders, Lac LaBelle 50
Mike Maninga- Chief, Ahmeek Village FD, Ahmeek 1
Dennis Royce, K9GIR - KCRA
George Thurner, W8FWG – KCRA
Gary Hansen, K8YSZ – KCRA
Lee Royce – KC8DYG - KCRA
Carroll Crist – K9JCO - KCRA

800 MHZ operators were stationed at the following locations:

Fort Wilkins Boat Launch – Dick Powers
Beginning of U.S. 41 – Dan Fosner
Fake Lake – Mike Maninga
Esrey Park – Tom Boost
Intersection of North Mandan Loop and Horseshoe Harbor Trail – Gary Barker

Ham Radio operators were stationed at the following locations:

Copper Harbor at east end of village. – George Thurner, W8FWG
Eagle Lodge, 13051 M-26 – Carroll Crist, K9JCO
.2 mile west of 12136 M26 (Shea's Driveway) – Dennis Royce, K9GIR
Keweenaw Exchange, 11688 M-26 – Gary Hansen, K8YSZ
Devil's Washtub– Lee Royce, KC8DYG

Dick Powers coordinated the 800 MHz operators and the Amateur Radio Operators in and east of Copper Harbor.

800 MHz operators used Special event channel 25. (SE25).

Tom Boost, N8CSF, acted as net control for the Amateur Radio Operators east of Copper Harbor. He relayed messages from or to Copper Harbor 24.

Amateur Radio Operators used 146.520 (simplex) and 444.150. (New Brockway repeater)

Club House Maintenance;

Sanitary Move.....

The club is looking for support to move the existing OUT-HOUSE,
Cover over the pit, dig a new pit and place the OUT-HOUSE back over.
If someone knows of a individual with a tractor/back-hoe that would
Volunteer his time and equipment please contact our club.

APRS;

Automatic Position Reporting System) Node located in Hancock.

Mark(KC8YDU) now has a APRS system up and running at his home QTH.

APRS is a system developed by Bob Bruninga, WB4APR, which uses [amateur radio](#) to transmit position reports, weather reports, and messages between users.

APRS™ is a multifaceted system for use with packet radio by Hams, it allows the monitoring of real time geographical information such as the position of vehicles, the status of weather, radio direction finding and much much more. It involves mapping, GPS tracking, packet radio, etc. It is a VERY interesting facet of packet radio and has much to offer most everyone including non-hams that just want to watch over the internet.

UBIQUITOUS OPERATIONS: Consistent with providing information on all resources within range, APRS must also work across all boundaries and in all areas of the continent for all travelers. For this reason, **144.39 MHz** is dedicated to APRS throughout North America. Other continents have similar single frequencies such as 144.80 in Europe and 145.175 In Australia.

<http://eng.usna.navy.mil/~bruninga/aprs.html>

Howard(KD8ABP)

PSQ:

The Personal Security Question (PSQ) will allow the user the ability to change their password without contacting FCC Support staff. All customers will be required to select a PSQ and provide an answer when they log into CORES online. Individuals will be able to choose from questions commonly used in industry such as “what is mother’s maiden name”, “what is your favorite pet’s name”, and “what is the city of your birth”. Business entities will be able to choose from predefined question types appropriate to their needs, such as “internal employee ID” and “Date of Hire”. You may also define your own customer question. Once you enter a question and answer into the system, you can immediately begin using online password reset.

PROGRAM FOR OCTOBER:

A talk on PSK31 by George, W8FWG. This new method of communication promises to be something big for the future of ham radio.

73,

"When you are dissatisfied and want to go back to your youth, think of Algebra!"

Geo., W8FWG

Special Greetings to all;

Welcome to the Delta County’s Note of interest.

Helpful repeater guide for ham operators in the works.

Due too many questions over the years regarding repeaters
For 2 meters and other bands, including FM repeaters, my

Son-in-law, ab9if Jim came up with an idea that would be helpful
To all ham radio operators.

Jim started a web site for all ham radio users called:

www.usrepeaters.com

Please add this to you favorites list so you can use this excellent
Web site. This is at the present time still in the introduction stages
And is constantly being upgraded and added to daily.

Included will be all ham radio, links, web sites, mapping programs,
APRs, grid squares, almost anything related to locating tower sights etc.

Jim's web site is sponsored by Google, and advertisers can add
There sites also. Click on your State, City and find all the repeaters for whatever band
You are using. Many additions are in the works.

If you have any information, questions, additions you would like to add to this
Web site, please inform the administrator. (Contact) on www.usrepeaters.com

73s

Wa8le

Editor

DCARS

Communication problems biggest issue for U.P.

By LAYLA ASLANI, DMG Writer

HOUGHTON — In an emergency situation, people are often concerned for their own safety, much less the safety of the entire Upper Peninsula. One organization, the U.P. Regional Homeland Security Planning Board, is on it.

The State of Michigan Emergency Management Homeland Security Division has announced the disbursement of the fiscal year 2006 State Homeland Security Grant. Region 8, which covers the entire **Upper Peninsula, has been awarded \$1,740,879; which breaks down to \$1,143,039 for State Homeland Security Projects and \$597,840 for Law Enforcement Terrorism Prevention Projects. Houghton County will act as the fiduciary agent for the grant.**

Each of the 15 counties in the region has a local planning team comprised of representatives from different fields such as public health, public works and law enforcement. These planning teams identify gaps relating to homeland security and make recommendations for projects that protect against, respond to and recover from emergencies. These emergencies can include anything from forest fires to hazardous material spills to terrorist attacks.

Each local planning team sends their recommendations and a representative to the Regional Homeland Security Advisory Board. Regional Board Chair Tim McKee said that board is working to identify projects that will utilize the federal resources and generate the highest return on the investment in increasing the region's level of preparedness. He said projects under consideration include first responder personal protection equipment, improved planning and training and development of mutual aid agreements.

Jack Dueweke, the Houghton and Keweenaw Emergency Services coordinator who serves on the Houghton and Keweenaw local boards, along with the regional board, said problems identified locally have to do with communication.

“Inoperable communications is probably the biggest bug-a-boo that Houghton County has seen,” he said.

Dueweke cited that the VHF system in Houghton County and the 800 megahertz system in Keweenaw County need upgrading. He also said the NOAA weather system, which delivers weather information via radio frequencies, needs to be expanded to cover gaps in southern Houghton County and in northern Keweenaw County.

Dueweke said that many flatter areas have warning sirens in case of emergencies, but because of the varied terrain and sparsely populated areas of the Upper Peninsula, the NOAA weather system is best for relaying weather and other emergency information to citizens who have NOAA weather radios that pick up the signal.

“Most of our emergencies are weather-related, they're a great tool,” Dueweke said of the NOAA weather radios which are available locally at Radio Shack and Wal-Mart.

Dueweke is optimistic the projects they have submitted will be approved.

“I think we've done a pretty good job of submitting those projects and being able to demonstrate that they have a regional flare,” he said. “We're looking forward to seeing some of these projects getting done.”

“The Mining Gazette” August 15, 2006

ARES/RACES:

Our July reports from out EC/ROs and NTS officials show the contribution ARES/RACES and the NTS made to the citizens of Michigan during the month of July stands at a total of 8424 operator-hours. The federal government allows us to report volunteer time at the rate \$18.11/hour. Based upon those figures, we radio amateurs have contributed time valued at \$152,561 for July.

In many cases, these volunteer hours assist in-kind for financial grant applications for emergency radio equipment. We do report these figures to each of our state Emergency Managers.

Details of these reports are on the Michigan ARPSC and NTS web pages. Each EC/RO's report and every OES, ORS and NM report helps the standing of radio amateurs across the state. My personal thanks to those who diligently report monthly, it ALL helps.

SET planning -- If you are an EC/RO and have not started detailing your local scenario, please get with your DEC and complete the planning process. Remember, our state-wide guidelines call for you to experience a complete failure of your area repeaters as part of the scenario. Alternative communications will be needed following the first hour of your SET. Everyone is encouraged to coordinate planning efforts with their DEC and adjacent county ECs. A major communications outage will likely force us to call upon mutual aid agreements and SET is the time to test them.

Michigan seems to have the leap on ARES/RACES training efforts, and many Sections of the U. S. are playing "catch-up". Our thanks for the diligent efforts from everyone in pursuing the challenges our public service "customers" have asked of us for assisting them under the terms of NIMS and ICS requirements.

Radio clubs can now submit a "club profile" for publication on the arrl-mi website. Examples can be found at <http://arrl-mi.org/?q=node/14>. Here is the opportunity to share your radio club's profile with everyone. Michigan clubs all have a rich background, some along some familiar lines, others with specialized and unique history. You can forward your write-up to our Affiliated Club Coordinator KB6NU@w8pgr.org.

{this came from the arrl state emergency coordinator}:

This is going out to all Michigan Section ARES/RACES/ARPS Staff for some clarification on SET Operations to be held October 7.

First of all the SEOC will be active from 10 AM to 2 PM October 7. Your times can vary as much as you wish from this to suit the schedules of your people or operations. Just keep in mind the operations at the SEOC will be from 10 AM to 2 PM. Frequencies for usage will be 3.932 (3.663 CW - QMN), 7.232 (7.068 CW - QMN), 146.52 and 145.76 (Packet WC8EOC or WC8EOC-3).

Scenario once again is a Statewide Blackout mirroring what some of us saw a little over two years ago in August of 2004. The first hour of operations will be with the advantage of using the local repeaters for communications.

After one hour, all repeaters will simulate failure due to failure of backup power supplies such as Battery Backup, Diesel and gasoline and propane generators. The only generators that might not fail would be natural gas fueled generators which so long as the valves stayed open would run until the pipeline was exhausted. However for this test/exercise ALL forms of repeaters will fail for a minimum period of 4 hours of operation for this exercise. After 4 continuous hours of life without repeaters you can simulate a partial restoration of electrical services to key county components and infrastructure (you get to resume repeater usage).

All counties are encouraged to participate at some level. As always the

rules laid down by the ARRL allow you to count other events as your SET for the year. We would still like to see each county participate at some level even if it is only one station.

Goals to be attained:

1. Pass one message back and forth (one each way TO and FROM) between your county and the neighboring county via simplex. This message can be very simple.

EXAMPLE; 1 R W8??? 14 Somewhere, MI October 7 My County, MI Exercise Exercise X Our County is currently active and available during Blackout event Joe EC Our County, MI (You of course can be as creative as you wish and go well above and beyond this if you wish.)

2. Pass one message to your DEC from each county in the District.

3. Each District pass one message to the SEOC. (DEC_s this message can originate with you or you can delegate this to one or two counties in your jurisdiction).

4. Individual Counties who also have HF capabilities can also attempt to contact the SEOC via any of the above mentioned methods (HF, VHF or Packet). In this way you get some idea of propagation from your respective EOC_s for that date. Remember that there is a 4 hour window to play with here. Obviously this is not a contest and the simple fact that 83 counties all trying at once to get into the SEOC would create havoc should be considered. As with anything of this magnitude, order and listening before hand can alleviate some of the chaos.

4. Utilize whatever means you have at your disposal to get the message thru to it's final destination. As soon as I know what the NTS schedule is for the day and frequencies, I or John WB8RCR will publish them.

5. DECs designate one county pre-event to generate a message for needed Mutual Assistance. This can also fulfill the previous item of DECs sending a message to the SEOC.

6. Messages should also be sent at the DECs and/or the ECs discretion to the SM and STM indicating your participation.

That should be simple enough and allows each and everyone in the state to have enough time to attain the goals set forth.

Purpose:

To test simplex, packet and/or HF communications within each county (intra-county communications) and determine what holes or gaps need to be addressed for future operations.

To test simplex, packet or HF communications between each neighboring county (intra-district communications) and determine what holes or gaps need to be addressed for future operations.

To test simplex, packet or HF communications between districts (inter-district communications) and determine what holes or gaps need to be addressed for future operations.

To test simplex, packet or HF communications within the state (intra-state communications) and determine what holes or gaps need to be addressed for future operations.

Jack Swift
I.E. Swift Co.
402 Sheldon Ave.
Houghton, MI 49931
906-482-0530, 281-5300
Radio: N8WAV AAR5LD

V.E. TEST SESSION CHANGES:

The following (tentative) changes go into effect in 2007 for the CCRAA/HARC Testing Team in Houghton County. We're planning on giving exams only twice annually.....The second Saturday of April and September, is the new schedule. We also will accommodate schools or other organizations that need to give a test after their class on ham radio ends. Those sessions will be by appointment only, but will be open to everyone. In the rare case where we get an individual application we will also accommodate them if they pre-register. We will be retaining all of our present examiners. Thanks to all, who have helped over the years.
Geo., W8FWG

V.E. EXAMS:

The last V.E. Test Session of 2006 in Houghton County will be October 14 (second Saturday of October) Location: Wadsworth Residence Hall on the campus of Michigan Technological University in Houghton. Room: G04W (basement of "Wads" directly opposite the Campus Radio station, WMTU.) Time: 9:00 am Eastern. All applicants should arrive NLT 8:30am in order to fill out the necessary paperwork. Applicants should bring: 2 soft-lead pencils (HB), two pens (blue or black ink only), a picture proof of ID, or two other proofs, if no picture is available, a calculator and the registration fee of \$14. If paying by check, it should be made out to: "ARRL/VEC." Next year we will be conducting only two exams per year, the second Saturday of April and September.
Questions?: Call George Thurner, W8FWG at (906) 337-2542 or E-Mail to: w8fwg@arrl.net

Vanity Call Sign Fee to Drop September 6:

NEWINGTON, CT, Aug 1, 2006--The regulatory fee to obtain or renew an Amateur Radio vanity call sign will drop slightly starting with applications received by the FCC on or after Wednesday, September 6, the FCC's Wireless Telecommunications Bureau (WTB) says. The new fee will be \$20.80 for the 10-year license term. This year promises to be a big one for vanity call sign renewals, since the initial round of vanity grants under the current system occurred in 1996. Licensees who want to retain vanity call signs issued under the current (post-1995) system must pay the regulatory fee when renewing.

"Consistent with our established practice, we plan to collect these regulatory fees in the August-September 2006 time frame in order to collect the required amount by the end of the fiscal year," the FCC explained in a July 17 Report and Order (R&O), "Assessment and Collection of Regulatory Fees for Fiscal Year 2006," in MD Docket 06-68. The FY 2006 vanity fee is a bit higher than the \$20.10 for the license term that the Commission had proposed in a Notice of Proposed Rule Making last March. The current vanity call

sign fee of \$21.90 remains in effect for applications received by the FCC before September 6.
Geo., W8FWG

U.P. HAM EXAM SCHEDULE FOR 2006

The 2006 schedule is posted on the CCRAA's Web page at: www.ccraa.net
Please note that some times are Central Time. Also note that PRE-REGISTRATION "IS" required for the Iron Range Club.

EXAM QUESTION POOLS UPDATE:

The Technician Class exam pool changes on July 1, 2006 and one other change is that there will be no circuit drawings in the new Tech. pool. The General changes on July 1, 2007, and the Extra on July 1, 2008. Some of these changes may be amended as the Morse code issue is still up in the air, and not decided upon as yet, by the FCC.

PRACTICE EXAM SITE:

Taking a "ham" test soon? No matter which one you are taking this is a good one, It even will allow you to "peek" at the right answers! But, try doing the exam as you would at a test session and see how you do. The 35 or 50 question answer sheet is right there too, and you insert your answers. Remember, this is only a practice run....it doesn't count...but it will allow you to see how you are coming along with your studies. Find it at: <http://www.w8mhb.com/exam/> Try it! You'll like it! [Thanks to the "Courage Center" [Handi-Hams] for alerting us to this site.
Submitted by Geo., W8FWG)

Space Station Sightings;

<http://spaceflight1.nasa.gov/realdata/sightings/>

==>ISS CREW, ARISS TEAM TROUBLESHOOTING SLOW-SCAN TV SYSTEM

The Amateur Radio on the International Space Station (ARISS) <http://www.rac.ca/ariss> team is coordinating with Expedition 13 Commander Pavel Vinogradov, RV3BS, and ARISS-Russia's Sergei Samburov, RV3DR, to troubleshoot the slow-scan television (SSTV) system onboard the ISS. The SSTV system remains off the air.

"Photos of the current SSTV configuration that were downlinked to Earth showed several unanticipated results from the initial tests," ISS Ham Radio Project Engineer Kenneth Ransom, N5VHO, told ARRL. "More extensive troubleshooting is being developed and could further delay permanent activation of the radio." He pointed out that Vinogradov is only able to work on the system in his free time; he's also due to return to Earth in September.

During the early stages of SSTV testing in late July, Vinogradov thrilled Earth station operators by manually transmitting several pictures on 2 meters (the system has been using 144.490 and 145.800 MHz) using the RS0ISS call sign. Ransom says initial tests were run over Moscow, and then the system was left on for a few orbits.

Plans call for Vinogradov to continue checking out the SSTV software,

configure and optimize the radio and perform integration checks necessary.

So far, the SSTV system has been unable to function properly in the autonomous "slide show" mode, Ransom said.

Miles Mann, WF1F, who developed the SSTV system as an ARISS project, explains that slide-show mode will permit the crew to preload a directory of images that then will automatically be transmitted to Earth. "The crew will not need to keep pushing a button to send images," he said in a recent news release. "In theory, the system can run for weeks at a time without crew involvement."

The SSTV system is not yet configured to receive SSTV transmissions from Earth stations, and no uplink frequency will be made public until testing is done. Earthbound radio amateurs are advised not to attempt to transmit SSTV images to the ISS. Mann has posted detailed information about the SSTV project on his MAREX-NA Web site <http://www.marexmg.org/>.

ISS (International Space Station) Amateur Radio Frequencies;

Mode V/V Crew Contact (Region 1): Operational

Uplink: 145.2000 MHz FM

Downlink 145.8000 MHz FM

Mode V/V Crew Contact (Regions 2 & 3): Operational

Uplink: 144.4900 MHz FM

Downlink 145.8000 MHz FM

Mode U/V (B) FM Voice Repeater (Worldwide): Non-Operational

Uplink: 437.8000 MHz FM

Downlink 145.8000 MHz FM

Mode V Imaging: Operational

Downlink 144.4900 MHz SSTV

Mode V/V Packet (Worldwide): Operational

Uplink: 145.9900 MHz AFSK 1200 BPS

Downlink 145.8000 MHz AFSK 1200 BPS

Communicating with the ISS

To work ISS from your home, you should have at least the following Amateur Radio equipment. A 2-meter radio with an output rating of 5 watts or more. While it's possible to operate with an omni-directional antenna and even a whip, a small beam antenna similar to the Arrow antenna works much better and will increase your chances of success. If you plan to operate in packet mode a standard 1200 baud AX.25 TNC should

be used and connected to a computer running APRS or other packet communications software.

For more information about the International Space Station...

- [ARISS North America](#)
- [ARISS Europe](#)
- [ARISS Japan](#)
- [AMSAT web site – WWW.amsat.org/amsat-news/tools/predict/](http://WWW.amsat.org/amsat-news/tools/predict/)
- Howard(KD8ABP)

Keep that address current!

In recent actions against two licensed amateurs, the FCC's Riley Hollingsworth cited §97.23 of the Commission's Amateur Radio Service rules that requires each license grant to show the licensee's correct name and mailing address. The rule provides that "revocation of the station license or suspension of the operator license may result when correspondence from the FCC is returned as undeliverable because the grantee failed to provide the correct mailing address."

The two operators had their licenses suspended for failing to update their information on the FCC database, something that is really easy to do. Ordinarily, the FCC will not be trying to contact you, but these two operators obviously did something to call attention to themselves. When the FCC tried to contact them by mail to address these issues and the letters were returned, the suspension action resulted. Since people move around all the time, it is likely that changing your address with the FCC is something that you will do at one time or another.

One more thing to watch out for is license expiration. When you first get your license, the ten year term seems like it will go on forever and ever. In ten years, you will have done many things in amateur radio, including making new friends, collecting QSL cards, participating in contests, helping during public service emergencies, and perhaps even building some of your own equipment. But one thing you will *not* have done is renewing your license! That makes it easy to forget about renewal. A reminder email from a ham radio organization like ARRL can be helpful here, but you are responsible for taking action to renew your amateur radio license. Operating with an expired license is, of course, not allowed.

(Source: Patrick Tice, WA0TDA at the "Courage Center" Golden Valley, MN)

ARLS005 Massive CubeSat launch fails;

An attempt to launch 15 CubeSats from 11 universities and one private company failed July 26. Fourteen of the CubeSats, now lost,

carried Amateur Radio transmit-only payloads.

The Dnepr-1LV rocket lifted off from Russia's Baikonur Cosmodrome in Kazakhstan at 1943 UTC on July 26. Space Launch Report cites payload users as reporting that the mission went awry sometime after first-stage separation. An Interfax, report said an emergency shutdown of the rocket's main engine initiated 86 seconds after launch, shortly before the first stage would have completed its burn. Gazeta.kz reported the vehicle fell to Earth almost 190 km from the launch site.

According to Satellite Launch Report, the original Dnepr launcher was replaced by a different one in June after a problem was detected in the original vehicle's digital flight control system. The Dnepr vehicle is a repurposed SS-18 "Satan" three-stage intercontinental ballistic missile.

ARRL

Howard(KD8ABP)

Propagation;

Selective fading is a radio propagation anomaly caused by partial cancellation of a radio signal by itself — the signal arrives at the receiver by two different paths, and at least one of the paths is changing (lengthening or shortening). This typically happens in the early evening or early morning as the various layers in the ionosphere move, separate, and combine. The two paths can both be skywave or one be groundwave.

Selective fading manifests as a slow, cyclic disturbance; the cancellation effect, or "null", is deepest at one particular frequency, which changes constantly, sweeping through the received audio.

The best way to counteract the effect is to use two receivers with separate antennas spaced a quarter-wavelength apart, or a specially-designed diversity receiver with two antennas. Such a receiver continuously compares the signals arriving at the two antennas and presents the better signal.

(Submitted by: George, W8FWG)

70 CM REPEATER ON MT. BROCKWAY:

As of 15 July 2006, the Brockway Mountain 444.150 repeater (+, PL 107.2) is on the air. George, Howard, and other Amateurs in the Area;

The 444.150 is in operation and we now do have local control ops to keep an eye on the system and control codes for the system.

Michael(k9SJ)

REPEATER UPGRADES:

The Hancock (146.880 MHz) and the Herman (146.670 MHz) repeaters both have new transmission lines (7/8" heliax) and new antennas (Telewave, 6dB gain types) Power amps have been added to both installations now, (100 w amps), and there should be some

improvement over what we had before. Hancock's installation has developed a power amp problem, and that amp has been removed and will be sent in for repair, but in the mean time enjoy the operation of the new installations at these sites. Thanks to Chuck Savolainen, WB8FCY for all of his work in coordinating these projects, and special thanks to Jack Dueweke, KC8NPI of the Office of Emergency Measures in Houghton County for his help in obtaining funding for both of these jobs. It is much appreciated by the ham radio community. Still to come....some filtering at the Hancock site, to rid us of some paging transmitter interference that exists at Hancock. Overall, a fine job by all. Thanks to the Northern Tower Erectors of TraverseCity, MI and their crew of four who did the tower work at these sites. We encourage the testing of these two sites by all radio hams!
(Submitted by George, W8FWG)

315 Repeater/Calumet Air Base, Mt. Horace Greeley: Quick Work by KCRA members and Anderson's Comm's.

During the last week of August 2006, members of the KCRA Arrived for Repeater/cabinet maintenance and a brief Inspection of the antenna/mast mount to discover a bended mast pipe, bottom clamp missing, top clamp damaged. Quick service from Fred Anderson and his crew plus help from key KCRA members Saved the antenna before anymore damage occurred. A new heavy wall mast pipe and three new heavy clamps were installed. The 315 Repeater was put back on the air late Thursday afternoon with A measured 28 watts forward and zero reflected...
Howard(KD8ABP)

Public Emergency Network;

The Midland Radio Corp., REACT International and National SOS.com have jointly Announced their support for the National SOS Radio Network – www.NationalSOS.com - a free communications network based on the estimated 100 million FRS-compatible Radios already in the hands of the public. The National SOS Network initiative recommends for public use FRS channel 1 as a Primary emergency-communications channel (462.5625mhz).
Monitoring Times, Volume 25, No. 7 July 2006, page 6.
Howard(KD8ABP)

2-1-1 Upper Peninsula;

The 2-1-1 is now available for residents of the Upper Peninsula. Questions and Help on Long Term Care Options, Employment, Rent/Utility Assistance, Senior Services, Home Care, Housing, Volunteer Opportunities, Transportation.... And More. U.P. 2-1-1 can put you in touch with one of thousands of Organizations providing health services through-out the Upper Peninsula. The phone call is **FREE** and available to all U.P. Residents. U.P. 2-1-1 is available 24 hrs/day, 7 days/week, 365 days/year.

LSPR October 20-21 2006:

20-21 Lake Superior PRO Rally, Houghton, 906/296-9686 or www.lsprorally.com

K.C.R.A. MEETING ANNOUNCEMENT:

Our sister club, the Keweenaw County Repeater Association, Inc. will hold its meeting on **Wednesday, October 11, 2006** at the Keweenaw Pines Apartments, in the Community Room, the Annex to Building "C." Keweenaw Pines Apts. Are located just one-half mile north of the Cliff Drive Road near Mohawk. Time: 7:00pm EST. Visit our Web Page at www.kcra-mi.net All persons interested in "ham" radio are invited to attend. Door prize to be raffled!!!!!!! If you need further information before the meeting date, please call George Thurner, W8FWG (Sec.-Treas.) at (906) 337-2542.

**COPPER COUNTRY RADIO AMATEUR ASSOCIATION
MONTHLY MEETING MINUTES
AUGUST 1, 2006**

- I. Meeting Called to order at 7:00PM by president Glenn-WA8QNF.

Members present:

WA8QNF-Glenn	WB8FCY-Chuck	N8WAV-Jack
KC8FLK-Paul	N8ZBJ-Andy	
KB9RQZ-Mark	N8DU-Dave	
KD8DYP-Jon	W9VLM-Paul	
KD8DYN-Katrina	WQ8G-Don	
W8ERB-Walt	W8FWG-George	
KD8CGA-Sheffer	K6IPC-Richard	
K8YSZ-Gary	W8ILS-Ron	
W4KAR-Ray	N8KSO-Doug	
KD8CTL-Gavrielah	KC8YTW-Jim	

- II. Minutes from July 11 meeting approved.
- III. Treasurer-Balance \$3058.
- IV. UP directory-George. Still have 2 left.
- V. Radio's-Chuck. The Herman and Hancock new radio's and antennas are installed and working very good. Hancock will require filters. The old feedline cables (300' and 220') are stored at the club house. Thanks Chuck.
- VI. Property-George. All OK.
- VII. VE-George. October 14 is next testing date.
- VIII. Next meeting-Sept. 5, 2006 at 7:00PM at the clubhouse. Possibly have hot dogs at 6:30 PM.

IX. Meeting adjourned at 7:18 PM.

Respectfully submitted
Andy Kangas (N8ZBJ)
Secretary

Next meeting Tuesday September 5, 2006 - Osceola Club House, 7:00pm

Directions: Just follow Tower Road (2 miles south of Calumet, or one-tenth of a mile north of the Calumet Golf Course Road.) Tower Road is located on the west side of Highway U.S. 41, between the new Michigan State Police Post and the Northwoods Christian Assembly Church. Note: arrive 6:30pm early for sloppy Joe's and snack.

The "LANDLINE" is published monthly by the **Copper Country Radio Amateur Association, Inc.** Contributions for use in the LANDLINE, relating to the amateur radio service and to the CCRAA are welcomed at any time. Please submit your contributions directly to the editor, and they should be received by the 25th of the month before the meeting. Material received later may or may not make it into that issue. The LANDLINE Editor is Howard F. Klann, KD8ABP. If you have a question or a comment I can be reached at: (906) 337-2168 or E-mail to: msgklann@pasty.net. E-Mail copies are sent by Howard, KD8ABP. Complimentary copies to other radio clubs and the USPS copies are mailed by George, W8FWG. Please refer any delivery problems to the Editor (Howard, KD8ABP) at (906) 337-2168/ Fax (906) 337-0599. To find out more about the CCRAA Inc. or the Amateur Radio Service, please contact one of the officers listed below or write to the **CCRAA, POB 217, Dollar, Bay, MI 49922-0217** or visit us on the web: **www.ccraa.net** **Ask for our new FREE booklet for new prospects to ham radio, for your friends who may be interested in ham radio. It's available in Adobe E-Mail format or via USPS.**

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