



THE CHERRY JUICE

Newsletter of the
CHERRYLAND AMATEUR RADIO CLUB - TRAVERSE CITY, MICHIGAN



*"A Special 'Micro' edition to get us back
on a proper editorial track!" -ed*

ARRL Affiliated
Club #1082



Club Officers

President

Joe Erlewein N8CN

Vice President

Ernie Abel K8RCT

Recording Secretary

David Poinsett NU8A

Corresponding Secretary

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Station Manager

Joe Schnaidt, KC8RLU

Cherry Juice Editor

Joe Erlewein N8CN

Club Repeaters

W8TCM/R 146.86- (PL 114.8)

W8ZTB Memorial Repeater

W8TCM/R 442.50- (PL 114.8)

W8NGH Memorial Repeater

Club Radio Nets

MESH NET

Monday Evening Social Hour

Each Monday, 8pm

146.860 MHz (-) (PL 114.8)

SMASH NET

Sunday Morning Amateur

Social Hour

Each Sunday, 9am

3.935 MHz

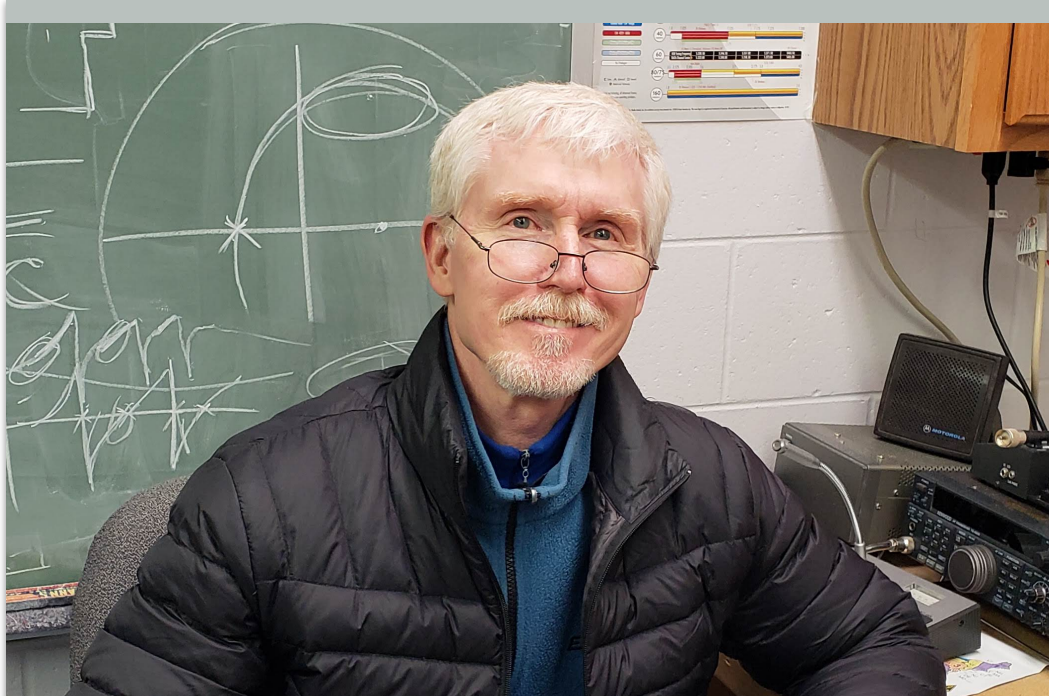
Stay Informed! Check out the
club website:

www.CherrylandARC.com

Club Meeting – November 27th, 7pm

Program: Dave Poinsett NU8A - Software Defined Radio

The Cherryland ARC's own Dave Poinsett will be speaking about Software Defined Radio at this month's meeting. Dave has some really eye-opening stuff to present about SDR use in today's Radio technologies. Don't miss it!



Calendar of Upcoming Events

Cherryland ARC Christmas Dinner - 5:30 arrival, Dinner at 6pm - **Dec 4**

CARC Bell Ringing for Salvation Army - Wal-Mart in TC, 10am-8pm - **Dec 15**

No CARC Meeting Dec 25 - Merry Christmas!

For more details, check out the CARC Calendar:

http://cherrylandarc.com/?page_id=26

Field Day Results for 2018 are in!

In the December issue of QST, you'll find the Cherryland ARC's reported score on page 76 under the category for 3A (3 transmitters, Club):

Cherryland ARC
W8TCM (+WZ8C)
828 2 37 3,574 MI

The reporting format is: Group Name, Callsigns Used (we had a GOTA station!), Total number of QSOs, Number indicating power output used (2 is <150W), number of participants, total score, and State.

Christmas Dinner December 4th

HO HO HO! It's time for the annual Cherryland Amateur Radio Club Christmas Dinner! Be sure to join us Tuesday Night on Dec 4th! As in the past, we will be hosting the party at the Traverse City Elks club.

We start arriving around 6:00 PM and have dinner around 6:30 PM or so. You can order off the Elk's Club menu so there are a good variety of choices for dinner.

Once again we will be presenting this year's Ham of the Year award. I WONDER WHO IT WILL BE?!

You do NOT have to be a member of the club to join us! All are welcome! Let us know you're coming so we save enough chairs!

RSVP at: <https://goo.gl/zS5W6C>

The location is:

The Elks Lodge #323 in Traverse City
625 Bay Street, Traverse City MI, 49684
(this is the junction of US-31 and M-72.)
(See <http://www.elkstc.com> for more information on the location.)

Please come and congratulate the new HOTY!

73 and Merry Christmas!

It's time to Ring the Bells!

As you know, the Salvation Army has been a huge supporter of the CARC. They let us use an entire room in the building for our club/project room. They also let us use the downstairs meeting room for our board and club meetings. Where would we be without their support?

Well folks, its time for us to support them by ringing the kettle bells again this year. We have been asked ring the kettle bell on Saturday December 15th in front of the North entrance of Wal-Mart!

We need to staff the location from 10am until 8pm — so we need your help to come down and help us out!

Here is a link to the sign-up sheet:

<https://goo.gl/XCJMNf>

Please spare one hour (or more) on Dec 15th to help out our Salvation Army partner. Sign-up with a friend to make it even more enjoyable!

Thanks; I know I can count on you to help!

If you have issues using Google Spreadsheets to sign up please send an email to email@cherrylandarc.com to sign up!

73,
Joe N8CN
President, Cherryland ARC

Local Record Set for TBARG NET Digital Message ICS-231 Transfer

On the November 12 TBARG net, the net (as usual) involved transferring a simulated emergency message using form ICS-213. The report was the most lengthy report we've attempted to send, to-date.

It took 103 seconds to transfer the entire message over the 146.86 VHF repeater. All five stations capable of receiving the message received it without error. Additionally, two stations were able to send a reply to the message successfully.

ARRL Michigan Section November Newsletter

GENERAL MESSAGE (ICS-213)		
Incident (optional):		
TO: All Stations		
FROM: Glen Johnson		
SUBJ: Les Nessman News Report WKRP		
DATE: 11/12/18		
TIME: 1956L		
MESSAGE:		
<p>Les Nessman: I'm here with hundreds of people who have gathered to witness what has been described as perhaps the greatest turkey event in Thanksgiving Day history. All we know for sure is that in a very few moments there are going to be a lot of happy people out here. Now the crowd is...</p> <p>[passers-by gawk at Les]</p> <p>Les Nessman: The... the crowd is uh... curious but well behaved. And I think I hear something now. Uh... The crowd is moving out into the parking area. And... oh yes! I can see it now. It's a... it's a... helicopter and it's coming this way!</p> <p>Andy Trivic: A helicopter?</p> <p>Les Nessman: It's flying something behind it and I can't quite make it out. It's a large banner and it says HAPPY... THANK S... giving... from W... K... R... P! What a sight, ladies and gentlemen. What a sight. The 'copter seems to be circling the parking area now. I guess it's looking for a place to land. No! Something just came out of the back of a helicopter. It's a dark object, perhaps a skydiver plummeting to the earth from only two thousand feet in the air... There's a third... No parachutes yet... Those can't be skydivers. I can't tell just yet what they are but... Oh my God! They're turkeys! Oh no! Johnny can you get this? Oh, they're crashing to the earth right in front of our eyes! One just went through the windshield of a parked car! This is terrible! Everyone's running around pushing each other. Oh my goodness! Oh, the humanity! People are running about. The turkeys are hitting the ground like sacks of wet cement! Folks, I don't know how much longer... The crowd is running for their lives. I think I'm going to step inside. I can't stand here and watch this anymore. No, I can't go in there. Children are searching for their mothers and oh, not since the Hindenberg tragedy has there been anything like this. I don't know how much longer I can hold my position here, Johnny. The crowd...</p> <p>Dr. Johnny Fever: Les? Les? Les, are you there? Les isn't there. Thanks for that on-the-spot report, Les. For those of you who've just tuned in, the Pinodale Shopping Mall has just been bombed with live turkeys. Filmat eleven.</p> <p>SIGNATURE: Glen Johnson K8SGZ</p>		
REPLY:		
Get it		
DATE:	TIME:	SIGNATURE/POSITION:
11/13/18		Dave / Flunky

This is the actual November 12 TBARG ICS-213 exercise form. It was more than half of a page long and sent in 103 seconds. The software automatically generates the form and fills the text fields in, for easy export as a PDF or plain text, or other formats (email, etc).

This new method of transferring lengthy emergency (and other) messages via radio without a lot of complicated “overhead” is simple and requires only a basic VHF or UHF radio, and an Android device. Of course a more modern Android device is better, but even an old phone in airplane mode would work fine. (the author has three or four laying around..)

For five stations to receive the lengthy ICS-213 in just under a minute emphasizes the capabilities of the usefulness of this system. If you haven't yet tried this, please contact Glen K8SGZ or Joe N8CN and they can get you up to speed on how easy and quick this is to use, as you are already aware of how useful it is!

Glen has provided installation instructions, a set of useful step-by-step instructions, and also a smaller “cheat sheet” you can carry with you in order to perform common tasks. We hope to hear you check into the local net soon and even have you reply to a digital message yourself. It's way easier than FT8 and requires no cables. <sk>

Greetings to all the Amateurs of Michigan,

Happening in the words below are Homage, Holidays, and Hope. This and more awaits you in the November 2018 Michigan Section Newsletter. Grab a glass or mug of your favorite beverage (can't single out just one kind, because that wouldn't be “equal and fair”) and read the mostly politically free sentences.

Veterans Day

I'm one of that weird folk who think that Veteran's Day should be a daily event. Remember that those who have served or are serving in the Armed Forces protect and preserve our rights to do just about anything we've come to take for granted. My dad would often comment that “free just means that you might not have paid for it directly”. I am grateful to all those who have and are serving our country.

Affiliated Clubs

Bill Loeber, NU3D, has hit the ground running in the role of our new Section Affiliated Club Coordinator, and if you haven't heard from him, you soon will.

Bill will be trying to clean up the club database. There are a great majority of our clubs with records that are way out of date. Having current contact information lets prospective member contact the club and lets ARRL HQ know the club is active. Please update the records with current information to avoid being moved to inactive status.

To remain listed as an active ARRL affiliated club the club record must be updated at least once per year. If an update is not made in two years, the club will be moved to the inactive roster. Updating your club record is easy and is done on line.

It is a good idea to print this e-mail and include the information with other important documents given to

incoming club officers. If you're impatient, you can reach out to Bill before he finds you!

Holidays

I often used to joke about the greeting card companies and their desire to create more new holidays, would come up with "HannaHallowThanksMus", to be able to market more of their products.

It does appear that retailers have adopted this approach, and so everyone is preparing to celebrate with family and friends. Be ready to talk about your hobby, what got you (and keeps you) interested and engaged and encourage others to join our ranks. All too often, we put a huge level of confidence in existing infrastructure to satisfy our need to communicate, and it isn't until those services are readily available that we see one of the many values of Amateur Radio. You only have to travel outside our section to understand how Amateur Radio stepped up their game to assist those in need. As my good friend Joni Mitchell crooned, "Don't it always seem to go, that you don't know what you got 'til it's gone"

100 New Michigan Section Members by January 2019

We are sneaking up on this goal, but just in case you missed it the first time - Ok, here's the ask. To prove a point, we need to add 100 new ARRL members to the Michigan Section roster by the end of the year. To encourage all of you to recruit, drop me a note after someone you've influenced has joined (with your callsigns). I will enter you into a small raffle (funded by me). These should be new members, not renewals. I've been told that this is impossible, but I think it's easy goal.

Hospitality Acknowledgements

October 16th Cascades Amateur Radio Society
October 21st Kalamazoo Swap
October 28th USECA Swap

Michigan ARRL Section Staff Travel Plans

December 2nd L'Anse Creuse Swap (K8JK)
January 27th, 2019 Hazel Park Swap (K8JK)
February 17th, 2019 Livonia Swap (WA8EFK)
March 16th, 2019 Crossroads Swap (K8JK)

Michigan Public Service Activities

Michigan Section Traffic/ARPSK Nets (all times local)
Please note that time adjustments may be necessary due to propagation changes. Contact your net manager for alternate frequencies and/or times.

MACS - MI Amateur Communications System 3.952 1000 Daily
UPN - Upper Peninsula Net 3.921 1700 Daily; Noon Sun
MIARPSK - MI Amateur Radio Public Service Corps 3.932 1700 Sun
QMN - The Michigan Net 3.563 1830 and 2200 Daily
MITN - MI Traffic Net 3.952 1900 Daily
MIDTN - MI Digital Traffic Net 3.583 (Olivia 8/500) 2000 Tu, Th, Sat
MIADS - MI ARES D-Star Net Reflector 24A Mon 2000
D8EN - District 8 Emergency Net 3.909 Wed 2000
GLETN - Great Lakes Emergency and Traffic Net 3.932 2000 Daily
MVTN - MI VHF Traffic Net IRA Link System 2100 Mon, Wed, Fri, Sun
NLEUP - Northern Lower Eastern UP Net 146.64- 18:30 Daily
SEMTN - SE MI Traffic Net 146.76- 2215 Daily
TMMTN - Thumb Mid-Michigan Traffic Net 147.30+ 2130 Mon - Sat

Michigan Amateur Radio Public Service Corps (ARPSK) Activities for October 2018

Station Activity Reports (SAR) for October 2018

WB8WKQ 362, K8ED 160, WB8TQZ 146,
WD8MWD 106, KB8KM 64, K8RDN 48, WD8USA 47, KE8CEH 39, N5MKY 36, KE8BYC 26, KE8CYC 21, KC8NFN 7, WB8RCR 5, KD8ZCM 4

Public Service Honor Roll (PSHR) for October 2018:

WB8RCR 335, KE8BYC 239, WD8USA 155, K8RDN 153, WD8MWD 145, KE8CYC 121, KE8CEH 116, KC8YVF 114, KD8ZCM 114, WB8TQZ 110, K8ED 110, N5MKY 91, WB8WKQ 90

Brass Pounder's League (BPL): No reports this month

Net traffic for October 2018:

Michigan Amateur Communications System 111
The Michigan Net 81
Michigan Traffic Net 64
Southeastern Michigan Traffic Net 46
Upper Peninsula Net 31
Great Lakes Emergency and Traffic Net 31
Monroe Co ARPSC Net 28
Michigan Digital Traffic Net 27
Northern Lower Eastern Upper Peninsula Net 9
Saginaw County ARES Net 4

Total Volunteer Dollar Value for October 2018: \$
50,623

More information is available at <http://nts-mi.org/>.

Come join us on our traffic and public service nets.

A hearty thanks to the hundreds of volunteers across the State of Michigan who work hard as volunteers to hone their skills month after month to make sure they are ready for any situation that may arise. Our ARPSC and NTS programs are an integral part of AuxComm, which in turn is an integral part of the Michigan State Police Homeland Security Division.

Public service is in the DNA of Amateur Radio, one of many reasons we enjoy so many radio frequencies to utilize, experiment with, and enjoy.

Final Thoughts

I'm looking forward to hearing from all of you, and to visit your local club or group. Thanks to all of the radio amateurs who continue to make the hobby great! Get Active, Get Involved, and Get On The Air!

73

Jim K8JK

ARRL Michigan Section Manager

James A Kvochick, K8JK

k8jk@arrl.org

California Fires Spark Amateur Radio Emergency Service Activations

ARRL Letter, 11/15/2018

Amateur Radio volunteers have been active or are standing by on several fronts as wildfires continue to rage in large sections of California.

Camp Fire

In Butte County, in northern California, the Camp Fire, the state's deadliest wildfire, triggered a call up of Amateur Radio Emergency Service (ARES®) members for communication support. A small wildfire that started in a mountainous area of Butte County quickly grew, due to high winds. Eventually more than 25,000 people were evacuated. As multiple shelters opened to assist evacuees, five Sacramento Valley ARES groups were called out to support communication between the Red Cross Disaster Operations Center (DOC) and the shelters.

The uncontrolled wildfire eventually consumed the town of Paradise, a town of some 27,000 residents. As of November 14, the Camp Fire covered some 145,000 acres (35% contained), killed more than 40 people, and destroyed nearly 8,000 structures.



Firefighting efforts continue in residential neighborhoods. [Photo courtesy of LA County Fire Department]

Utilizing mutual assistance, more than 20 ARES members from five ARES groups are supporting the shelters. ARES members have also been tasked by

Red Cross to shadow Red Cross delivery vehicles to provide communication in the mountain areas to the shelters.

ARES communication at the shelters has been carried out using voice, Winlink, and email to pass shelter counts, and tactical messages between the shelter and the Red Cross Disaster Operations Center and Cal Office of Emergency Services. The Red Cross is supporting ARES at the shelters with hot spots and backup radios.



Sacramento Valley ARES volunteer Neil Bossard, N6CNY, is among those active in Northern California.
[Photo courtesy of Greg Kruckewitt, KG6SJT]

Working 12-hour shifts, Sacramento Valley Section District Emergency Coordinator 3 Michael Joseph, KK6ZGB, has been staffing the Red Cross radio station as net control for the DOC, passing messages and tracking ARES personnel. Sacramento ARES members have been pitching in as needed. Joseph also has been coordinating ARES deployments as needed.

Visit the ARRL Sacramento Valley Section Facebook page or Twitter account for more information. -- Thanks to Sacramento Valley Section Emergency Coordinator Greg Kruckewitt, KG6SJT

Woolsey Fire

The Woolsey Fire that swept through the westernmost portion of Los Angeles County, including Malibu, and the easternmost area of Ventura County in the ARRL Santa Barbara Section, required the evacuation of more than 200,000 Los Angeles County residents -- an unprecedented number in recent decades. Evacuees included several celebrities, several of whom lost homes in the fire. More than 50 people have died in all fires, and more than 100 are still missing.

"[G]overnmental radio systems used by fire and sheriff held up well, even though cell phone and internet service went out in many fire areas because of burned utility poles," said Los Angeles Section Manager Diana Feinberg, AI6DF. "Evacuees went to areas where cell phone service was generally available."

Feinberg said Los Angeles ARES (ARES LAX) has not been activated because no county hospitals are in the affected area and no hospital outside the fire zone was in danger of losing communication. She added, though, that a sizable team of ARES LAX operators organized by LAX-Northwest District Emergency Coordinator Roozy Moabery, W1EH, did extensive logistics work over the November 10 - 11 weekend at a major drop-off site in the San Fernando Valley for evacuee supplies.

ARES team members worked with other volunteers to accept nearly 10 tons of pet food, plus thousands of boxes of items such as soap, toothpaste, toothbrushes, shampoo, conditioner, razors, lotion, feminine care products, and sunscreen, as well as baby food, formula, diapers and wipes, towels and bedding, snacks, and non-perishable food items, Feinberg said. On the air for the Woolsey Fire, both the Los Angeles County Disaster Communications Service (DCS) -- Amateur Radio volunteers overseen by the Sheriff's Department -- and the City of Los Angeles Fire Department Auxiliary Communication Service (ACS) operated nets and monitored their respective frequencies.

"The DCS group at Lost Hills Sheriff Station covers most of the Los Angeles County areas affected by the

Woolsey Fire and communicated with organized amateurs in the cities of Calabasas, Agoura Hills, Hidden Hills, Malibu, Westlake Village, and unincorporated mountain areas when not affected by respective mandatory evacuation orders," Feinberg said.

"The City of Los Angeles' ACS group was involved when the city's West Hills neighborhood in the San Fernando Valley became the fire's northeastern front, forcing about half of the West Hills community to evacuate." Santa Barbara Section Manager John Kitchens, NS6X, told ARRL that Ventura County ACS (ARES) is supporting evacuation centers and the Red Cross, in the Santa Barbara Section.

Feinberg said ACS members have also been involved with delivering food and water supplies to LAFD firefighters and performing fire patrols. American Red Cross volunteers are reported to be using Amateur Radio in connection with some of their fire response activities, Feinberg reported. The Woolsey Fire covers nearly 100,000 acres and was reported 47% contained as of November 14. Read more. -- Thanks to Diana Feinberg, AI6DF

Amateur radio operator provides aid from great distance

Citrus County Chronicle, 11/21/2018

Fred Moore spends a lot of time listening to the radio. Not music — although Moore enjoys that, too. He's a longtime amateur radio operator, and earlier this month, he played a role in getting medical assistance to a crew member suffering chest pains aboard a sailboat in the Atlantic.

"I've been doing this since I was a kid," he said. "I first got licensed as an amateur radio operator when I was about 13 or 14 years old." He liked it so much he made it a career as chief engineer at several radio stations in the Philadelphia area and in the Merchant Marine as a radio officer.

Now, retired and a member of the Maritime Mobile Service Network (MMSN), Moore volunteers his time and years of experience to help radio operators



Amateur radio operator Fred Moore sits in the radio room of his Gospel Island home Monday afternoon among dozens of pieces of radio equipment. With the help of this equipment, Moore recently assisted the United States Coast Guard with an on-the-water rescue of a mariner suffering chest pains in the Atlantic Ocean.

aboard anything afloat and equipped with a radio to communicate with anybody they need to talk to on land. On Nov. 9, a crew member on the Maria Elena needed help.

"There was a vessel off the coast of Cape Hatteras, North Carolina, who had on board a crew member who had begun to suffer chest pains," Moore said Monday. "He had training himself as an emergency medical person, so he knew kind of what was happening to him, and he said 'I've got to get off this boat, or I'm not gonna see tomorrow, maybe.'" But given the boat's location — 300 miles east of Bermuda — calling 911 wasn't an option, so the captain got on the radio.

"He came up on frequency on which the MMSN operates and explained what was going on. He was talking to somebody up in Wisconsin, but the signal began to fade, and I happened to have the radio turned on and on the right frequency, and I said 'I've got to help this guy,'" Moore continued. "So I called him. It happens I had talked to the captain of that boat previously, in previous years. He explained to me what was going on, and said, 'could you get us some help?'"

Moore patched the captain through to the U.S. Coast Guard, allowing them to communicate directly via his home radio station, but that wasn't the end of the story.

"We ... decided it might be a good idea to establish a schedule to maintain contact over the next several hours, to see how the patient was doing and how the Coast Guard was progressing in getting a facility available to offload this guy. So that's what I did," he said. "It started around midday and went into the evening hours, and by 9 or 10 the following morning the Coast Guard managed to have a rescue vessel come alongside. They moved him to the rescue vessel, and then he was offloaded from the rescue vessel to a helicopter and taken to a medical facility."

"The assistance we received from the ham radio operator[s] was crucial in helping us communicate with the vessel's crew," U.S. Coast Guard Petty Officer 1st Class Travis Unser said in a press release after the crew member was evacuated. Unser was the search-and-rescue coordinator for the incident.

As for Moore's role in the man's rescue, it wasn't the first time he's provided aid via radio. As a volunteer with both the MMSN and the Military Auxiliary Radio System (MARS), he's assisted with calls for help as well as larger disasters, including after the devastating earthquake in Haiti in 2010.

"The morning of the earthquake, I had my radio turned on and tuned to the MMSN. A resident of Port-au-Prince, Haiti, who's a ham operator — and who I've since become good friends with, he's visited me here a few times and I think we have a lifetime friendship — his radio wasn't operating properly, but he came on anyway and said 'we've just suffered a big earthquake here in Haiti, and I need to get in touch with some people.'

"He needed me to contact some relatives here in Florida, which I did for him," Moore continued. "As the day progressed it became more and more obvious that the situation was a serious, heavy-duty problem throughout the entire island, and Port-au-Prince was struck very hard — loss of life, massive destruction. So I spent the next several weeks, actually more than

that, coordinating communication efforts down there with our government."

According to an article by the American Radio Relay League, Moore was one of three amateur radio operators who assisted significantly with the communications effort after the earthquake.

"The Maritime Net made a lot of phone patches and handled many pieces of traffic regarding equipment coordination between the University of Miami Hospital in Miami, the University of Miami Hospital in Haiti, Jean-Robert Galliard, HH2JR (President of Radio Club de Haiti), and Father John Henault, HH6JH (Orphanage on Ile de Vache, Haiti)," the article said.

"When Project Medishare — a partnership between the University of Miami Medical School and physicians and health officials in Haiti — needed help with their communications, Amateur Radio operators were quick to respond."

Most communications he facilitates aren't quite so dramatic or life-changing for those in need, Moore said.

"It goes from boredom — many many hours of nothing but static — to an aircraft with a major problem," he said. "Hours of boredom, interspersed with an occasional panic."

Those panics are now often related to aircraft; after the Navy's branch of MARS was disbanded, Moore transferred over to Air Force MARS.

"What I do (for MARS) is similar to what I do on ham radio — an aircraft will call — I've even talked to Air Force One. They'll call and say 'hey, we want to run a test and make sure our communications equipment is working properly,'" he said. "Or someone on White House staff will need to make a phone call and we'll patch them through. It's kind of cool — especially when it was Air Force One. You don't get that one every day."

Successful Ham Radio Contact between Students and Space Station Excites and Inspires

ARRL Letter, 10/25/2018

"My best day as a teacher!" was educator Kathryn Craven's exuberant reaction following a successful October 22 ham radio contact between International Space Station (ISS) crew member Serena Auñón-Chancellor, KG5TMT, and youngsters at Ashford School in Ashford, Connecticut.

ARRL Headquarters provided equipment for the Amateur Radio on the International Space Station (ARISS)-sponsored event, and several ARRL Headquarters staffers were among those assisting in setting up the station, working with teachers, students, and the media, shooting photos, and offering other support.



W1AW Station Manager Joe Carcia, NJ1Q, sets up Earth-station gear in advance of the ARISS event at Connecticut's Ashford School. [Michelle Patnode, W3MVP, photo]

The entire student body of the kindergarten-through-eighth grade school in northeastern Connecticut sat in rapt attention during the event, as a dozen of their classmates spoke directly to Auñón-Chancellor, who was at the helm of NA1SS on the ISS. Using ARRL's equipment, members of the Eastern Connecticut Amateur Radio Association (ECARA) set up the Earth station (KZ1M), with technical and hands-on help from W1AW Station Manager Joe Carcia, NJ1Q,



ECARA's Bernard Dubb, KD1DGY, holds the microphone as Amena Perry asks astronaut Serena Auñón-Chancellor, KG5TMT, her question. [Michelle Patnode, W3MVP, photo]

who also assisted in summoning NA1SS for the approximately 10-minute pass.

One reporter asked Carcia what was being displayed on the large screen. "I explained that the program we were using -- SatPC32 -- allowed us to see where the ISS is located and controlled the rotators with respect to our location," he said.

Some Ashford School students have been studying microgravity and are working on a research project that they hope will eventually be selected to be conducted on the ISS. Auñón-Chancellor, the Mission 56/57 flight surgeon, answered 16 student questions that ranged from "Do you wear sunscreen into space?" to "What is the hardest thing about having zero gravity?" and "How many flips can you do?"

Others attending on behalf of ARRL were ARRL Lifelong Learning Manager Kris Bickell, K1BIC; Lifelong Learning and Knowledge Department Administrator Ally Riedel, KM3ALF; ARRL Communications Content Producer Michelle Patnode, W3MVP, and ARRL Communications Manager David Isgur, N1RSN.

"It was great!" Patnode said afterward. "The space station responded right away, and everyone instantly got so excited."

Crews from four local television stations and print publication reporters joined an audience of more than 400.

"We are so incredibly grateful to ARISS, ECARA, and ARRL for making this possible for the entire Ashford School community," a statement on the school's website said.

"Our students were literally bursting with excitement at the end of the contact. Look out universe -- here comes the Mars generation!"

Remember those Cubesats? They're Mars repeaters now!

The NASA InSight craft will land on Mars on Monday. You can watch on numerous website resources online. This alone will be an extremely interesting event. But it's also relevant to Ham Radio in an interesting way.

Two MarCOs "CubeSat" devices were launched with InSight toward Mars. One is named Eva, and the other Wall-E, taken from the 2008 film 'Wall-E.' The job of these CubeSats will be to relay information from InSight as it touches down, and to repeat other telemetric data for the InSight craft. In other words, when InSight lands and sends its signal "I've Landed" back to Earth, in all likelihood we will pick up this very faint signal. But just for good measure, a few seconds later, Wall-E and Eva will repeat this message back from outside the planet's atmosphere, making the signal more reliably deliverable to us.

So if you've ever worked a CubeSat via Ham Radio (voice, telemetry or other mode) as it passes over, you can say that you've helped pave the way and test technology that was eventually used to repeat data from a Mars lander back to Earth! Chew on that for a while :)

More Information:

<https://www.kennedyspacecenter.com/blog/insight-spacecraft-landing>

Cherryland ARC Monthly Meeting Videos Online

"It's a traumatizing thing.." said Ernie K8RCT "... to miss a Cherryland ARC meeting with a really great program or speaker! I mean, out of 12 months we have Field Day in June, a Picnic in July, a Foxhunt in August, and Christmas in December - so we only have eight opportunities every year to have the whole club see a presentation, program, lecture or event."

"I know the feeling" said Joe, N8CN. "And it can happen for so many reasons - deer camp, a family trip, working late or being ill - so many things can happen, and just like that - BAM! you've missed the meeting you didn't want to miss."

"Say, I've got a great Idea!" said Glen, K8SGZ "What if we recorded these meetings and made them available online so people who missed them can watch them later, or even for people to watch again if they want to remember something or dig deeper into a topic?"



And so was born the Cherryland ARC video lecture archive! If you head over to the Cherryland ARC website at www.CherrylandARC.com and click on the Multimedia -> Video menu, you'll find links to all of the CARC Video Content, including a link to the CARC YouTube Channel and playlists for all of the CARC Lectures that have been video recorded!

We know this made your holiday season!
Happy Holidays from the CARC Board!

That's all for the November 2018 issue of The Cherry Juice! As always, if you have any suggestions or comments, I'm all ears! –

joe@n8cn.org

73, Joe N8CN

The CARC meets for a "project night" on **all other Tuesday nights** at 7pm. Anyone is welcome to come and use the tools, parts, resources, and "elmers" in the project room / SATERN station.

All Meetings occur at the **Salvation Army building** on **Barlow St.** (at Boon st.) in **Traverse City.**

The project room is on the **basement level.**

Cherryland ARC Information:

Club Meetings:

The official CARC Club Meeting occurs on the **Fourth Tuesday** of each month at 7pm. Anyone is welcome.

Board Meetings:

The CARC Board meets on the **First Tuesday** of each month at 7pm. Board meetings are open all.

Project Night:

To become a member of the CARC:

1. Fill out a membership form.

You may fill out a form at any meeting, fill out the form online via the website, or you can email cherrylandarc@gmail.com to receive a form via email.

2. Submit dues with your form.

Dues are \$24 per year and are due January 1 each year or with your membership form submission. (pro-rated)
(Family Memberships available for \$26)

CARC Membership Application form

Last Name: _____ First Name: _____ Nickname: _____
 Callsign (if any): _____ Class (if any): _____
 Street: _____ City: _____ State: _____
 ZIP: _____

Email (we promise not to spam): _____

Home Phone: _____ Work Phone: _____
 Occupation: _____ Spouse: _____

ARRL Member? (Y/N): _____

Annual dues are \$24.00

Please complete the above and mail along with your payment to:

Ward Kuhn N8WK
 PO Box 987
 Traverse City, MI 49685



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