



# The Wave Bender

Jan/Feb 2021

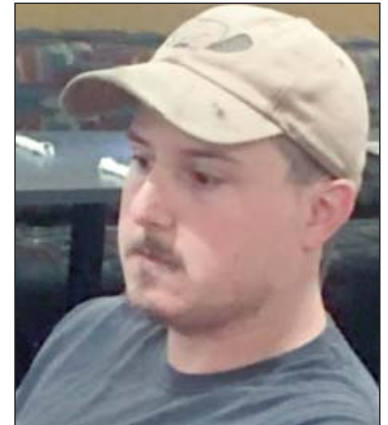


AWARD WINNING NEWSLETTER

WRARC PREZ

Hello everyone, what a year it's been. I hope this article finds everyone in good health and spirit. I'm looking forward to 2021 and I'm hopeful we may be able to get together again soon. With the start of the New Year I would like to take some time to let everyone know about some changes our club has been making so we can make a strong return when we can see each other again.

I'm sure some of you know or have heard the 145.270 and 442.750 repeaters had been moved from KC8WY's (sk) location. They are currently located at my residence and on the air. At the time of writing this, they have both been listed on repeaterbook.com with their updated callsigns. They are now known as the W8WRC Repeater System, sponsored by our club and open for all licensed amateurs to use.

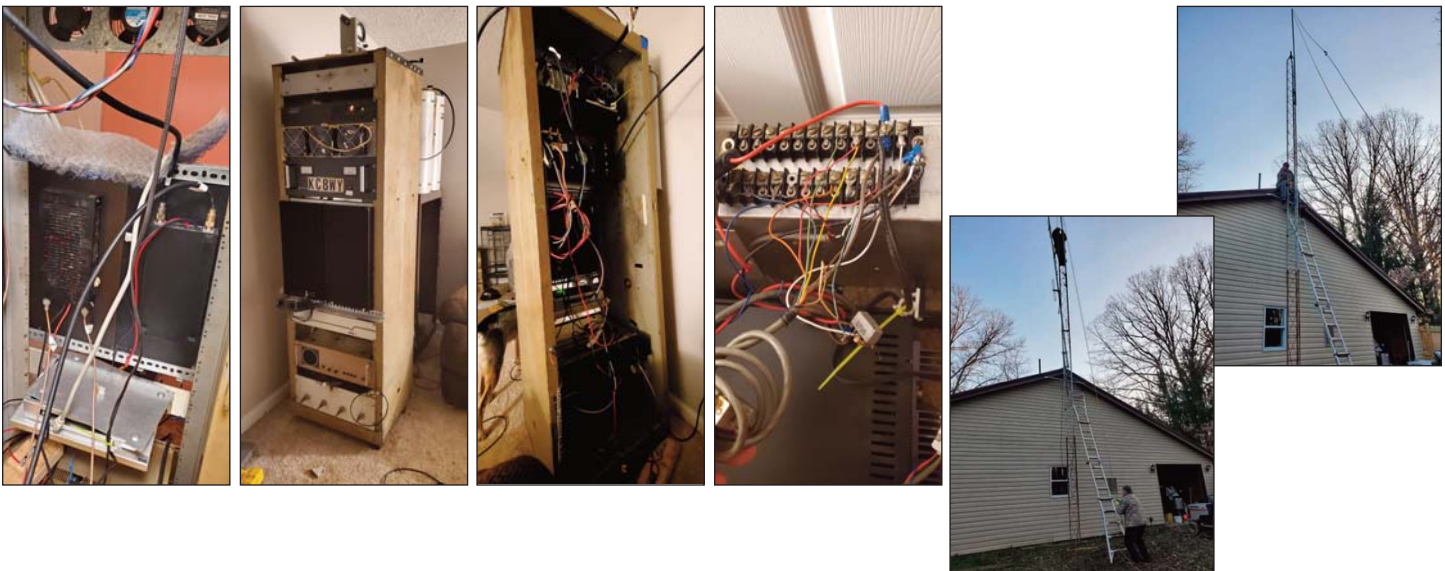


I am here to say that repeaters bring on a whole new challenge to the amateur operator. I am thankful to have the support and help from Bob, N8RCM, who I've spent a few long days with scratching our heads trying to get these repeaters operational. It hasn't been easy, and we sure wouldn't be where we are currently if it hasn't been for the knowledge passed onto us from some long time repeater owners. Who of which will be mentioned respectively in later articles specifying the assistance they have given.

I plan on writing an article each month showing the progress we've made. This being the first installment, I've included some photos of the system and how it was configured when the work began to get it on the air at my location.

As progress continues to make this system work even better for the benefit of our users, I hope you all enjoy following along.

73 WF8U, Chris



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**2021 Officers:**

- President:** Chris Monske, WF8U      wf8u@wrarc.net
- VP:** Maureen Stein, KD8NXS      kd8nxs@wrarc.net
- Secretary:** Mike Cibella, KC8UNR      kc8unr@wrarc.net
- Treasurer:** Bob Kramer, KE8HHH      ke8hhh@wrarc.net
- Past President:** Bob Mitzel, N8RCM      n8rcm@wrarc.net

**Trustees:**

- Steve Fabry, KC8SOY      kc8soy@wrarc.net
- Darrin Cannon, N8DMC      n8dmc@wrarc.net
- Rose Marko, KD8TII      kd8tii@wrarc.net

**Appointed Positions:**

- Social: Maureen Stein, KD8NXS  
kd8nxs@wrarc.net
- Repeater & Nets: Steve Fabry, KC8SOY  
kc8soy@wrarc.net
- Classes: Chris Monske WF8U  
kd8ely@gmail.com
- Testing: Darrin Cannon, N8DMC  
n8dmc@wrarc.net
- Newsletter/Web: Jane Avnet K8JAA  
k8jaa@wrarc.net
- Historian: Rose Marko, KD8TII  
kd8tii@wrarc.net
- Badges: Darrin Cannon, N8DMC  
n8dmc@wrarc.net

**Officer's Meeting:**

February 10, 7:00 P.M. At Eat 'n Park,  
Austintown, Eat 'n Park,  
5451 Mahoning Ave  
All members welcome

**Members Meeting:**

February 17, Davidson's  
3636 Canfield Rd., Cornersburgh

**Speaker:** None



**OTHER IMPORTANT WEB SITES**

**THE ARRL EXAM SEARCH PAGE**

<[HTTP://WWW.ARRL.ORG/FIND-AN-AMATEUR-RADIO-LICENSE-EXAM-SESSION](http://www.arrl.org/find-an-amateur-radio-license-exam-session)>

**OHIO SINGLE SIDEBAND NET**

<[HTTP://WWW.OSSBN.ORG/INDEX.HTML](http://www.ossbn.org/index.html)>

**ANTENNA HEIGHT ABOVE AVERAGE TERRAIN (HAAT) CALCULATOR**

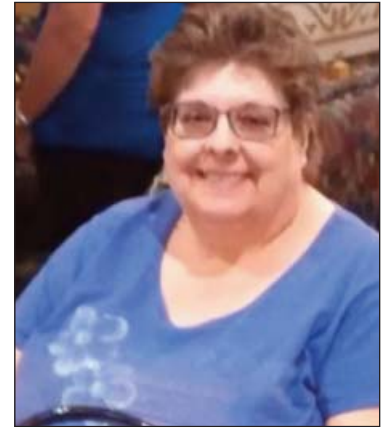
[HTTPS://WWW.FCC.GOV/MEDIA/RADIO/HAAT-CALCULATOR](https://www.fcc.gov/media/radio/haat-calculator)



<http://www.wrarc.net/>


FROM OUR VP

Hello, Folks. Hope you are all still well. Not much to talk about this month. We are still waiting for the time when we can resume in person meetings. The pandemic is still winning this game and we will have to wait longer to resume anything close to normal. We now know the vaccine rollout needs major restructuring before it can make the dent we are looking for. In addition to that, the newer, more contagious strains of the virus will affect all that too. We just have to hope that these new strains won't be resistant to the current vaccines. It all adds up to more uncertainty for our timeline. This virus is a bad actor that wins over us on a massive scale. I wish I could give you more than that. Sorry that I can't right now. It is so wearisome for all of us. I sure miss the old days!



Please hang in there and I hope you all plan to come back for 2021. Dues remain the same as previous years- no change there. You can forward them to Bob Kramer, our treasurer, by mail. You can find the address at the top of the membership form on our website [www.wrarc.net](http://www.wrarc.net). I wish I had more for you, but would love to hear about what you all have been doing during this time. It would be great for any and all of you to write up a NL article to let us know what's happening for you. Please join us on the Fri. night nets- 9 P.M. each Friday on our 145.270 repeater. Stay well. Stay safe.

73 Maureen, KD8NXS



1. 50 million of what will be eaten on Thanksgiving?
2. This was invented 57 years ago the last week of December, and you probably use it every day. What?
3. The average one of these is good for about 27,000 miles. What?
4. You could face up to a year in prison if you re-use this. What?
5. According to a new poll, 33% of people own one more of these this year than they did in 2019. What?

Answer to Teaser page 7

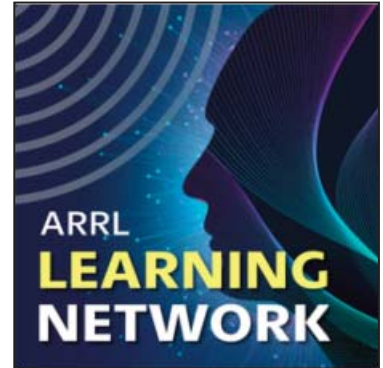
Happy  
new year





ARRL LEARNING NETWORK WEBINARS

Visit the ARRL Learning Network (a members-only benefit) to register, check on upcoming webinars, and to view previously recorded sessions. The schedule is subject to change.



Emergency Communications: Why Train? -- North Texas Section Emergency Coordinator Greg Evans, K5GTX

Utilizing amateur radio operators in an emergency communication situation is a key function that can save lives. We must be able to respond to the needs of our served agencies quickly and responsibly. Topics covered include the Incident Command System and its relevance; building on consistent training; interoperability with multiple communication providers; interoperability with VOAD and partners, and Mission One: get the information delivered.

**Thursday, January 21, 2021, 12:30 PM PST / 3:30 PM EST (2030 UTC)**

Easy Helical Copper Tape and PVC 2-Meter Vertical Antenna -- John Portune, W6NBC

Here's how to quickly build a tiny, 18-inch, continuously loaded lightweight portable or base station 2-meter omnidirectional vertical antenna with performance and efficiency comparable to a 5-foot J-pole. The antenna is built from hardware store copper tape and PVC pipe, and the cost is roughly \$10. It's an easy afternoon's home-brew project, ideal for the new ham but equal to the experienced ham's needs. It's great for events like bike-a-thons. It also makes an excellent ham radio club hands-on building project, and the design is adaptable to other bands.

**Tuesday, February 2, 2021, 10 PM PST / 1 PM EST (1800 UTC)**

Interesting Stories about Ham Radio & Weather Spotting -- Rob Macedo, KD1CY

One of the most critical ways amateur radio supports agencies such as the National Weather Service (NWS), National Hurricane Center (NHC), and emergency management is through weather spotting via the NWS SKYWARN program. This presentation reviews some interesting stories about how amateurs involved in SKYWARN have saved lives and property and why this is an important amateur radio activity.

**Thursday February 11, 2021 @ 8 pm EST (0100 UTC on Friday, February 12)**



CONTACT WRARC ELMERS WITH YOUR QUESTIONS - [QUESTIONS@WRARC.NET](mailto:QUESTIONS@WRARC.NET)

Fabry, Steve KC8SOY  
Haren, Roy KD8IJF

Yaesu FT8900, FT8800, Mobile  
???

kc8soy@yahoo.com  
harens@juno.com

**He who is afraid of asking, is afraid of learning**

Used with permission

Articles from members for the Wave Bender are encouraged. They must be received by the editor by the 20th each month. Please send your articles to: [k8jaa@arrl.net](mailto:k8jaa@arrl.net), and put WRARC on the subject line of your email.

**Join us for the WRARC Friday night Net 9:00 P.M.  
KD8DWV - 145.270, PL -110.9**

**WRARC Simplex Frequency 146.565**

**Mahoning County ARES® Nets**  
**1st Monday 8.40 PM ET W8QLY Repeater - 146.745 (PL 110.9)**  
**&**  
**3rd Monday 8.40 PM ET W8QLY Repeater - 146.745 (PL 110.9)**  
**ARES thanks MVARA for the use of their repeater**

**W8SGT is facilitating The Ohio HF net every Tuesday - 7:00 PM**  
**The net is run from the State of Ohio EOC on the**  
**Ohio ARES Admin frequency 3875 kHz LSB**  
**moves to 7240 Khz after 20-min.**  
**All are welcome to check in.**

**The Ohio ARES/OES Digital Emergency Net held every Tuesday at 8:00PM.**  
**held on 3585 kHz USB.**

**Please note all digital communications are Upper Side Band.**  
**<http://www.http://ohden.org/> for net details. Net Manager Gary NJ8BB**

**The new script on our website [www.wrarc.net](http://www.wrarc.net)**

#### **CAROLE PERRY EDUCATOR OF THE YEAR**

**ARRL Life Member Neil Rapp, WB9VPG, is 2021 Carole Perry Educator of the Year**

Orlando HamCation® has announced that ARRL Life Member Neil Rapp, WB9VPG, of Bloomington, Indiana, is the 2021 recipient of the Carole Perry Educator of the Year Award. The award recognizes an outstanding individual contribution in educating and advancing youth in amateur radio. It was first awarded in 2018 to its namesake, Carole Perry, WB2MGP, in honor of her work as an educator teaching students about ham radio. Rapp was ARRL 2004 Professional Educator of the Year. He's an Assistant Central Division Director and an ARRL VEC certified examiner.



An educational professional for more than 28 years, Rapp currently teaches chemistry at Bloomington High School South. He's also the school's amateur radio club sponsor and has introduced 3,600 students and parents to amateur radio through his involvement in the organization. Among his educational achievements, he was able to send an experiment involving protein crystallization to the International Space Station (ISS). He also mentored 2013 Amateur Radio Newline Young Ham of the Year and ARRL William R. Goldfarb Memorial Scholarship recipient Pdraig Lysandrou, KC9UUS.

Rapp got his license when he was 5 years old, and, at the time, was touted as the world's youngest ham. Now 50, he's the host and founder of the amateur radio podcast Ham Talk Live! He's also a member of AMSAT and was the youngest person to both join and be eligible for membership in the Quarter Century Wireless Association (QCWA). He is the editor of the "Next-Gen Contesters" column for NCJ.



## ARRL SEEKS NOMINATIONS FOR SEVEN AWARDS

ARRL invites nominations for awards that recognize excellence in amateur radio educational, technological, and public relations pursuits. Nominations are also open for the Hiram Percy Maxim Award, ARRL's premier award to honor a young licensee.

### The Hiram Percy Maxim Award

The Hiram Percy Maxim Award is the premier honor for a radio amateur and ARRL member younger than 21 whose accomplishments and contributions are of the most exemplary nature within the framework of amateur radio activities. Nominations must be made through your ARRL Section Manager, who will forward nominations to ARRL Headquarters by March 31, 2021. Nomination forms and supporting information should document as thoroughly as possible the nominee's amateur radio achievements and contributions during the previous calendar year.



### The ARRL Herb S. Brier Instructor of the Year Award

This award honors an ARRL volunteer amateur radio instructor or professional classroom teacher who uses creative instructional approaches and reflects the highest values of the amateur radio community. The award highlights quality of -- and commitment to -- licensing instruction. Nominations are due by March 15, 2021.

### Technical Awards

- The ARRL Microwave Development Award pays tribute to a radio amateur or group of radio amateurs who contribute to the development of the amateur radio microwave bands. The nomination deadline is March 31, 2021.
- The ARRL Technical Service Award recognizes a radio amateur or group of radio amateurs who provide amateur radio technical assistance or training to others. The nomination deadline is March 31, 2021.
- The ARRL Technical Innovation Award commends a radio amateur or group of radio amateurs who develop and apply new technical ideas or techniques in amateur radio. The nomination deadline is March 31, 2021.

### The Knight Distinguished Service Award

The Knight Distinguished Service Award honors exceptional contributions by an ARRL Section Manager to the health and vitality of ARRL. The nomination deadline is April 30, 2021. It was named for Joe T. Knight, W5PDY (SK), who was commended for his exemplary service not only as ARRL New Mexico Section Manager for more than a quarter-century, but for his willingness to share his knowledge and leadership skills.

### The Philip J. McGan Memorial Silver Antenna Award

The ARRL Public Relations Committee invites nominations for the Philip J. McGan Memorial Silver Antenna Award. This award recognizes and honors the efforts of an ARRL member-volunteer who demonstrates success in amateur radio public relations and creates greater awareness and understanding for amateur radio through efforts focused on the media and general public. The nomination deadline is May 14, 2021.

The ARRL Board of Directors makes the final determination of award recipients. Winners typically are announced following the Board's July meeting. More information <<http://www.arrl.org/arrl-award-nominations>> about these awards is on the ARRL website, or contact Steve Ewald, WV1X <[wv1x@arrl.org](mailto:wv1x@arrl.org)>, at ARRL Headquarters (telephone 860-594-0265).

## COULD THIS BE YOU?



Could this be YOU? This is the Wave Bender YOUR Newsletter. We have plenty of room for YOUR article(s)! If something is of interest to you, odds are that we all will enjoy your thoughts and activities! Have a favorite radio? Have some reminiscing to do? Maybe you have a question for one of our Elmers. OR, a Tip or Trick you learned that would help one of YOUR WRARC friends. You are warmly invited to contribute! Don't worry about writing or formality - we can help you with that. Your article could go in this spot, or one larger, next month!!

Tell us how you got interested, or how you got started. Maybe you had an Elmer you'd like to tell us about. -ed



FROM THE SECRETARY, KC8UNR

Good day - hope everyone is good and staying healthy! Not much to report other than I have been doing some antenna, cable and power supply testing and maintenance. So far the weather hasn't been horrible (knock on wood). I hope everyone has been able to do something while physically distancing.

73 Mike, KC8UNR



Answer to Teaser pg 3:

- 1. Pumpkin pies!
- 2. A computer mouse!
- 3. A shopping cart!
- 4. A postage stamp!
- 5. A pet!

Thanks to the CARA Communicator  
Linda Alfman, N8IMW <lynalfman@aol.com> editor



**Semi-Monthly  
Ham Community  
Breakfast  
Second and Fourth  
Tuesdays  
9:00 A.M.  
Eat 'n Park Restaurant  
in Austintown  
Join Us!**

## IF YOU HEAR BAD THINGS

Dave and I have been asked who hams should contact if they hear illegal or questionable use of ham radio frequencies. The answer is the ARRL Volunteer Monitors. The VMs are trained and equipped to handle these problems.

The ARRL has updated the main website to provide the latest information on what to do. Here's the link: <http://www.arrl.org/volunteer-monitor-program>

This is one of those times when it is probably good to avoid confrontation. Ham radio doesn't need bad publicity either because of misuse of our bands or an altercation involving hams.

ARRL Midwest Division  
 Director: Arthur I Zygielbaum, K0AIZ  
[k0aiz@arrl.org](mailto:k0aiz@arrl.org)



## FCC INVITES COMMENTS

### FCC Invites Comments on Expanding the Number of Volunteer Examiner Coordinators

In a January 5 Public Notice < <https://docs.fcc.gov/public/attachments/DA-21-9A1.pdf>>, the FCC requested comments on whether the current 14 Volunteer Examiner Coordinators (VECs) are sufficient to facilitate the efforts of their accredited Volunteer Examiners (VEs) in administering amateur radio examinations, or whether it should authorize up to five additional VECs. Comments are due by February 5, and reply comments are due by February 19. After Congress authorized it to do so, the FCC adopted rules in 1983 to allow volunteers to prepare and administer amateur radio examinations, and it established the system of VECs and VEs. The ARRL VEC is the largest of the 14 VECs in the US.



"VECs introduced consistency into the volunteer examiner program by centralizing accreditation of volunteer examiners, coordinating the dates and times for scheduling examinations, and managing the various administrative tasks arising from examinations," the FCC said. Authorized VECs may operate in any of the 13 VEC regions, but must service at least one region. The FCC pointed out that some VECs now offer remote examinations.

"The Commission has long maintained 14 VECs and now seeks to consider whether they continue to serve the evolving needs of the amateur community, or whether there are unmet needs that warrant considering expanding the number of VECs," the FCC said.

The FCC Public Notice provided questions for framing comments:

- Are the existing 14 VECs sufficient to coordinate the efforts of Volunteer Examiners in preparing and administering examinations for amateur radio operator licenses, or are additional VECs needed?
- What needs are currently being met, and which needs, if any, are not?
- If the FCC were to allow additional VECs, how many more would be needed to satisfy existing Amateur Radio Service license examination needs? (The FCC indicated that it would likely cap the number of additional VECs at five.)
- Given that VECs use a collaborative process to create examination question pools and volunteer examination administration protocols, would additional VECs enhance or hinder this process?
- How would increasing the number of VECs address the unmet needs, if any, of the amateur radio community, and what obstacles or complications could result from increasing the number of VECs?

Interested parties may file short comments on WT Docket No. 21-2 via the FCC's Electronic Comment Filing Service (Express). <<https://www.fcc.gov/ecfs/filings/express>> Visit the FCC's "How to Comment on FCC Proceedings" page for information on filing extended comments. <<https://www.fcc.gov/consumers/guides/how-comment>>





## SPECIAL EVENT STATION -W8A

Tom, WB8LCD I've never run a Special Event Station before, so this was a first for me. Chuck, W8PT, and I have been talking about a Ham Radio activity called "Breweries on the Air" for a couple of years now. We intend to have it up and running in 2021. Chuck told me that he missed our Bloody Mary morning in the parking lot at Hamvention this year, so we decided to meet at my house to make up for it.

Several of us got together for breakfast during the summer and decided that a "Special Event" would be a good way to see if there might be some interest in Breweries on the Air. A quick check and we were able to decide to do it on December 5th, which is the anniversary of the passage of the 21st Amendment to the Constitution of the United States.

The 21st Amendment repealed the 18th amendment, effectively ending Prohibition on December 5th, 1933. This was the first time in our nation's history that amendment to the Constitution had been repealed. It was also the first time in our nation's history that an amendment to the Constitution was made not by Legislative action, but by the Convention of States! Upon passage by the Convention of States the 21st Amendment became effective immediately. Passage of the amendment required ratification by 3/4 of the States. On December 5th only 3 more states were needed for passage. Ohio and Pennsylvania both ratified it early in the day. Now only one more state was needed and it became a race between Utah and Maine to see who could get it done first and secure the passage. Utah became the 36th State to ratify the amendment at 5:32PM (EST), the 21st Amendment became law immediately and I can only imagine that that was the beginning of one big party!

The call-sign W8A (Whisky eight Alcohol) was approved for December 5, 2020. Our operation was planned from 12:01AM to 11:59PM (local). My station, along with a second temporary station set up in my basement, were used to work on both 20 and 40 meters. Part of the goal was to each QSO a "rag chew" style contact. We had a lot of fun talking to other hams, many who didn't know anything about the 21st Amendment, many who wanted to share what their favorite beverage was, and more than a few who were abstainers but appreciated the "rag chew" opportunity. Most everyone was interested in Breweries on the Air so Chuck and I will be ramping that up as quickly as possible.

Operators included Tom -WB8LCD, Dave -WB2DFC, Rick -K8CAV, Ed -K8IV and Amy -N8AMY. I can speak for all when I say we had a really good time! Band conditions weren't all that great (there was a HUGE coronal mass ejection just a day prior). Midnight till about 7:00 AM 20 meters was dead, 40 meters yielded about 5 Q's. Noise levels were S6-S9 for the duration. We did have some interference between stations so most of the time we only ran one band at a time. All total we managed 140 Q's and a lot of fun. I can promise we'll be doing it again in 2021.

Portage County Amateur Radio Service, Inc. (PCARS) The RADIOGRAM January 2021 - The RADIOGRAM Editor's Note. Since Tom, WB8LCD has been known to brew his own beer in the basement - this then qualifies his QTH to be a "Brewery On The Air"...



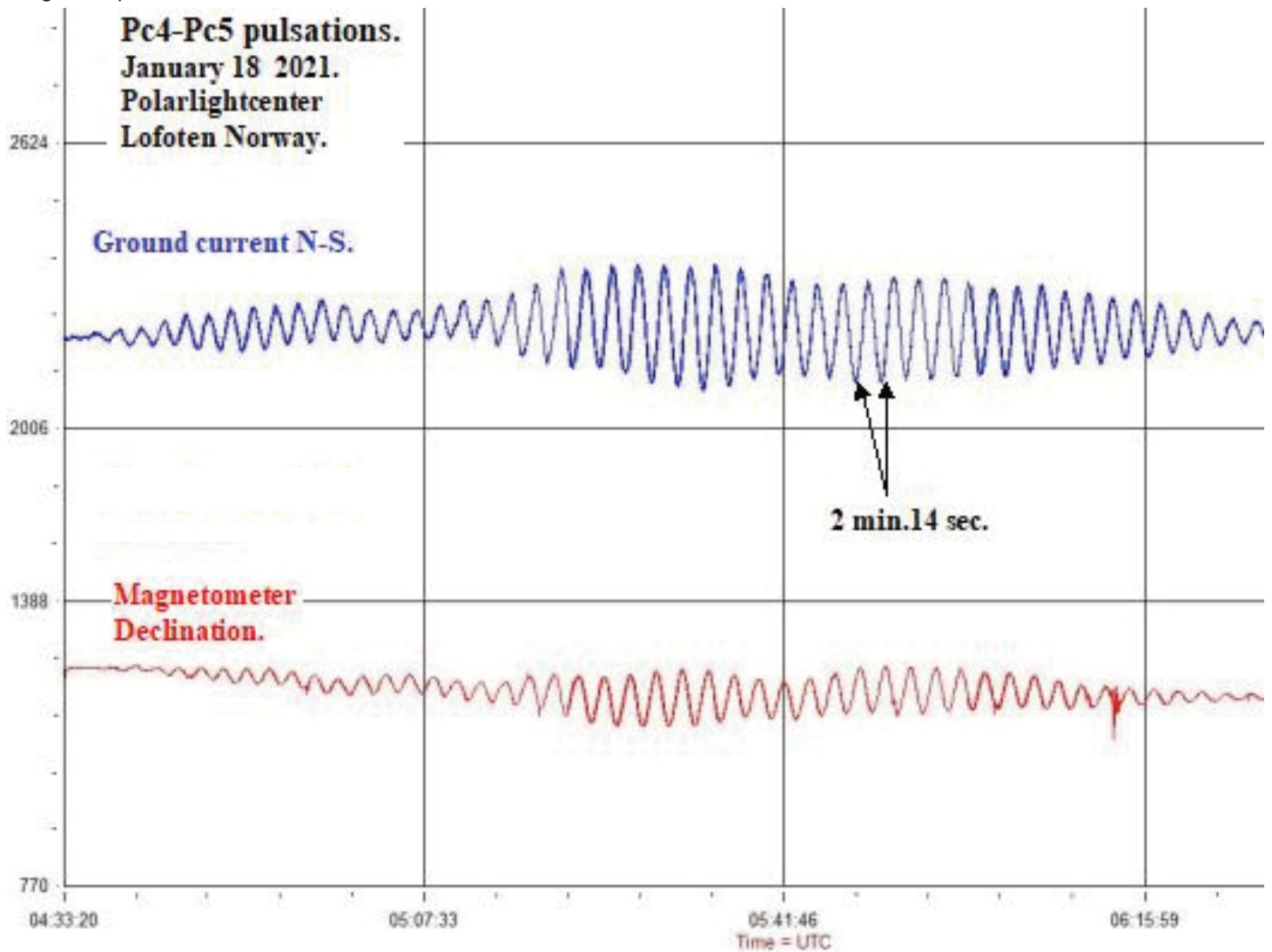
### New Field Day Logo



ARRL Field Day is June 26-27, 2021. We're pleased to introduce a new Field Day logo earlier than usual! Versions in JPG and PDF formats are included below. These are also posted to the Rules & Resources section of the Field Day web page at [www.arrl.org/Field-Day](http://www.arrl.org/Field-Day). ARRL members and affiliated clubs have permission\* to use the ARRL Field Day logo on personal and club promotions of their participation in the event: websites, news postings and media announcements, calendar listings, flyers, posters, signs, banners and social media sites.

A MUSICAL NOTE FROM THE MAGNETOSPHERE

A MUSICAL NOTE FROM THE MAGNETOSPHERE: High above the Arctic Circle in Lofoten, Norway, citizen scientist Rob Stammes operates a space weather monitoring station. His sensors detect ground currents, auroras, radio bursts, and disturbances in Earth's magnetic field. Yesterday, he says, "I received a musical note from the magnetosphere."



"Around 05.30 UTC on Jan. 18th, our local magnetic field began to swing back and forth in a rhythmic pattern," he says. "Electrical currents in the ground did the same thing. It was a nearly pure sine wave--like a low frequency musical note. The episode lasted for more than 2 hours."

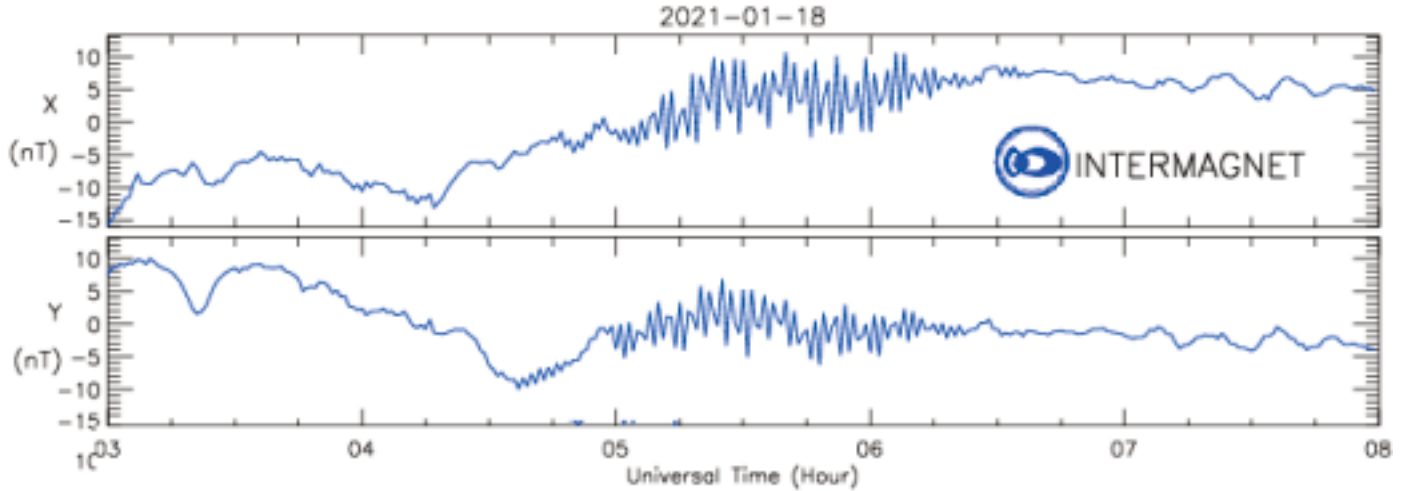
Stammes has received such notes before, but they are rare. "I see a pattern like this only about once a year," he says.

Space physicists call this phenomenon a "pulsation continuous" or "Pc" for short. Imagine blowing across a piece of paper, making it flutter with your breath. Solar wind does the same thing to magnetic fields. Pc waves are essentially flutters propagating down the flanks of Earth's magnetosphere excited by the breath of the sun.

*Continued page 11*

A MUSICAL NOTE - CONTINUED FROM PAGE 10

Abisko (ABK) based on 1-minute variation data



Above: a magnetometer in Abisko, Sweden, recorded the same waves.

Yesterday's set of waves washed over Norway and Sweden, but almost nowhere else, according to the global INTERMAGNET network of magnetometers. It was a strictly regional phenomenon.

What happens in the sky when such a pure tone emerges from the natural background cacophony of magnetic activity? "I wish I knew," says Stammes. "I was asleep at the time." In fact, it's possible that no one knows. Tones like these are rare, and they all too often occur while skies are cloudy or daylit, blocking any peculiar auroras from view. Stammes says he plans to build an alert system to help him find out. No pun intended: Stay tuned.



- Mike Austin, KC8WUX**
- Joe Wojtowicz, W0JO**
- Russ Williams, NR8W**
- Aiden Divelbiss, W0TIS**
- Dennis Marko, KA8DJM**
- Donna Haren**
- Ted Balog, KD8PBW**
- Liz Beatty, KD8DWV**
- Darrin Cannon, N8DMC**



Amateur Radio Operator "Amateur means we're simply professional volunteers" ARRL reflector



PRINT AN OFFICIAL OR UNOFFICIAL COPY OF YOUR LICENSE

Print an Official or Unofficial Copy of Your Amateur Radio License  
(By Anthony Luscre, K8ZT)

As of February 17, 2015, the FCC no longer routinely issues paper license documents to Amateur Radio applicants and licensees. The Commission has maintained for some time now that the official Amateur Radio license authorization is the electronic record that exists in its Universal Licensing System (ULS). The FCC will continue to provide paper license documents to all licensees who notify the Commission that they prefer to receive one. Licensees also will be able to print out an official authorization—as well as an unofficial “reference copy”—from the ULS License Manager.

I’ve created a set of instructions on how you can request an “official” printed copy of your license \*Download the instructions -

<[http://arrl-ohio.org/news/2020/print\\_your\\_license.pdf](http://arrl-ohio.org/news/2020/print_your_license.pdf)>



PostScript – January 18th Edition

EASTERN IOWANS RELY ON HAM RADIO

**Eastern Iowans Rely On Ham Radio When Severe Weather Strikes**  
01/21/2021

A derecho with winds of 80 to 100 MPH struck eastern Iowa last August, disrupting power and telecommunications for some 400,000 residents. But, as ARRL member and Amateur Radio Emergency Service (ARES®) volunteer Scott Haney, N0GUD, recently explained to The Gazette in Cedar Rapids, that’s when amateur radio shines. 2nd-largest per-capita group of amateur radio operators in the world call Eastern Iowa home



Haney, the president of the Cedar Valley Amateur Radio Club (CVARC), was the focus of the January 19 feature, “2nd-largest per-capita group of amateur radio operators in the world calls Eastern Iowa home,” by Molly Rossiter.

“For some people, [amateur radio is] merely a hobby, but for a lot of us, it’s much more than that,” Haney said. “Ham Radio Operators are involved in emergency management, in large event management, in a large variety of things. A lot of times people don’t know we’re there, but we’re actually a large part of planning and carrying out many events and gatherings,” he said.

“People don’t realize, especially in weather events like hurricanes, [that] amateur radio is a huge part of getting people in and out of dangerous areas. We’ve been doing that for decades.”



As the article notes, the fact that Collins Aerospace (formerly Collins Radio and Rockwell Collins) calls Cedar Rapids home is believed to be the reason for the second-highest population density of hams in the world in Eastern Iowa.

Haney retired in 2019, after 30 years with Rockwell Collins and Collins Aerospace. He’s been licensed for more than 40 years.

USE YOUR LICENSE TO SERVE THE COMMUNITY - VOLUNTEER

TAKE TIME TO LAUGH FOR IT'S THE MUSIC OF THE SOUL AUTHOR: -- FROM AN OLD ENGLISH PRAYER

Everyone,

I wasn't allowed to say anything until today, but it's now okay for me to share that I have volunteered for the Covid-19 vaccine from Pfizer. The vaccine is the one that has been developed in Russia.

It is in 2 different stages and I received my first dose this morning 06:20 am, and I wanted to let you all know that it is safe and I'm ok, with no side effects whatsoever, and that I feelshkl я чувю себя немного стрно и я думаю, что вытл осные уши. чувствву себя немго страо.

I'm not a complete idiot -- Some parts are just missing.

# February 2021

PREPAREDNESS LEADS TO READINESS - MATT W8DEC



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1/31 <b>Backward Day</b>	1 ARES Net 8:30 PM 146.745 PL 110.9  Spunky Old Broads Day	2 	3 <b>The Day the Music Died</b>	4	5 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	6 <b>Eat Ice Cream for Breakfast Day</b>
7 <b>Superbowl 55</b>	8	9 Ham Breakfast Eat'n Park Austintown 8:30 A.M.  Board Meeting 7:00 P.M.	10	11	12 WRARC Net 9:00PM 145.270  Abraham Lincoln's Birthday	13 <b>Get a Different Name Day</b>
14 <b>Valentine's Day</b> 	15 ARES Net 8:30 PM 146.745 PL 110.9	16 <b>Do a Grouch a Favor Day</b>	17	18	19 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	20  <b>Last Day WaveBender Articles Due</b>
21	22 <b>George Washington's Birthday</b>	23 Eat'n Park Austintown 8:30 A.M. Ham Community Breakfast	24	25	26 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	27 <b>No Brainer Day</b>
28 <b>Public Sleeping Day</b>	3/1 <b>Peanut Butter Lovers' Day</b>				WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	