

UPPER PENINSULA NET NEWS

SERVING THE WESTERN GREAT LAKES



HAM OF THE YEAR

KC8GTE – Kelly King
McMillan, MI

HAM OF THE MONTH

W8SOO – Ken Demory
Sault Ste Marie, MI

APRIL 2022

FROM THE EDITOR-----JIM - K8UHF k8uhf@sbcglobal.net

This is our second newsletter with very interesting information about RFI noise. Real life experiences tracking it down and eliminating the cause. Sometimes it can be as odd and fairly simple to find as in Brad's experience (see his article below) and sometimes a lot more. It just takes a little detective work.

If you have RFI noise and have tracked it down, please send some pictures and an article about how you tracked it down and got rid of the noise. Everyone is interested in this information.

NET STATS

Mar 2021: Check-ins 1193 – Traffic 38

Mar 2022: Check-ins 1065 – Traffic 42

High Check-ins: KE8MZU 38; KR8P 33

KC8GTE 35,35; KC8ZMN 40,31,32,36; NS8S 42,39,42,35,33

W8WR 41,33; KE8AHK 36,37,35,33

Sunday Noon Net High Check-ins: KD8KCV 13,15,11,15

HAM RADIO EXAMS OFFERED APRIL 9

Submitted by Aileen Gagnon – WA8DHB – Gladstone, MI

GLADSTONE – Ham radio exams will be offered on Saturday, April 9 at 10 a.m. in Gladstone at the Old Glory Firearms store, 1000 Delta Ave. Preregistration will not be required.

Hams wanting to upgrade will need to bring a copy of their license. Those wanting to take their first Ham exam will need to have a FRN number issued by the FCC. Searching You Tube will provide information on obtaining a FRN number. All applicants need to bring a photo identification and \$15.

The Wexaukee Amateur Radio Club Presents the 62ND Annual

**Cadillac Amateur Radio
And
Computer Swap**



**ARRL CARD
CHECKER
ON SITE!**

Saturday May 7, 2022

**MEETINGS
FOR
U.P.NET**

Doors Open at 8:00 A.M.

Admission \$5.00

**MACKINAW TRAIL MIDDLE SCHOOL
8401 S. MACKINAW TRAIL**

Talk In 146.98 Repeater K8CAD (no pl)

**Food and Parking at the School
Website <http://www.wexaukeearc.org>**



LUCE AMATEUR RADIO SOCIETY

2022 HAMFEST

SATURDAY JUNE 11

FOOD & DRINK 9:00 AM UNTIL 12:00PM DOOR PRIZES

AVAILABLE \$5.00 ADMISSION \$5.00 TABLES RAFFLES

ANY CURRENT MICHIGAN COVID 19 GUIDELINES WILL BE IN EFFECT

LUCE-WEST MACKINAC COUNTY FAIRGROUNDS

11555 NORTH COUNTY ROAD 399, NEWBERRY MI 49868

ADJACENT TO LUCE COUNTY AIRPORT

2 MILES EAST OF M-123 – M28 INTERSECTION (MC DONALDS)

TALK IN ON 146.61 (-) 114.8 PL

FRIDAY-6:00 pm COOKOUT at FAIRGROUNDS

Burgers, Brats, Hot Dogs, Chips & Pop supplied by LARS-donations accepted

SATURDAY-9:00 am SWAP OPENS

TABLES \$5.00 SETUP @ 7:00 am

CONTACT DAVE HOPPER FOR TABLES msplt87@outlook.com

EMERGENCY COMMUNICATIONS DISPLAYS

LICENSE TESTING @ 2:00 pm NEW FCC REQUIREMENTS IN EFFECT

CONTACT Dave Hopper msplt87@outlook.com

TOWER ELECTRONICS of GREEN BAY, WI in attendance

OVERNIGHT RUSTIC CAMPING AVAILABLE ON SITE FRIDAY NIGHT ONLY

TALKING ABOUT NOISE

Brad Hulce - KR8P –Twin Lake, MI

It seems Hams are talking about dealing with noise more than they did fifty years ago. Years ago, you would hear some Hams talking about resolving interference to TV reception but now you're hearing more Hams dealing with noise being generated causing difficulty in their reception. Today we have far more electrical/electronic devices in our communities than fifty years ago and have more opportunities to chase and resolve these issues. Below is a recent example from Brad, KR8P.

On a recent Wednesday Brad was looking forward to checking into the U.P. Net and found he had a 10 over S9 interface and couldn't hear folks. The noise was noted in the AM band and went up to at least 14MHz. There were spikes throughout each band. The further up in frequency the more frequent the spikes between frequencies. And wouldn't you know it, one of those spikes was around 3.920MHz.

Brad started to disconnect various wall warts he has around the home to no resolution. He thought he would wait until the next day with the hope the noise would just go away. The next morning the noise was still there. He then went out to his garage and grabbed a portable AM/FM radio with an external antenna. He installed new batteries and went into the house to find a noise spike on his HF radio so he could turn the AM dial to the frequency where a noise spike existed. He immediately walked around his out buildings such as the garage and storage building where some electronics such as battery chargers exist. He poked the antenna around the buildings and didn't notice any noise.



Next, walking to the neighbor's home, he placed the antenna near the main electrical line coming into the home and found the noise. He then compared it to the line coming into his own home thinking if it existed there also then perhaps it is coming down the electrical line from the road. He didn't hear the noise at his electrical box. He went back to the neighbor's electrical box and the noise appeared again.

At that time the neighbor had a contractor onsite remodeling a bathroom. Brad walked in and asked the contractor if he had installed something the previous day that perhaps was generating RF noise. The response was no. So Brad and the contractor went to the main line to the house and shut off all the power to the house and the noise immediately went away. So, they knew it must be coming from something in the house. The contractor turned the power back on and then walked down each circuit breaker until they found the circuit breaker that removed the noise when it was turned off. At that time the contractor didn't know what that circuit breaker went to and decided to leave it off and would determine that later so he could get back to what he was doing.

It came time for the contractor to go back into the garage to use one of his tools and realized he had no power. It was obvious at that point what that circuit breaker controlled. The contractor turned the power back on and thought, "Brad will be back if the noise appears again." Sure enough Brad walked back over and said it appears we now know what circuit that breaker controls. The contractor had three different tools connected to the power. They disconnected one tool at a time and found the tool that was generating the noise. It is a chop saw that has a light to indicate when power is supplied. The contractor admitted he had left it plugged in all night.

That little light was the culprit. The tool didn't need to be turned on to generate the noise – it only needed to be plugged in. The contractor said he'll be making sure he doesn't leave any of his tools plugged in at any location he works and said that when he sees someone walking around with a portable radio with an extended antenna he'll be asking them if they are a Ham Radio operator ☺

US COAST GUARD SCANNER

Peter Hansen – W8TWA – Gowen, MI

Here is a picture of a Grumman HU16, an aircraft I became very familiar with in the late 1970's. At the time, I worked for Bendix Aerospace in Ann Arbor where I designed all the electronics for a remote sensing scanner system installed in seven of these aircraft.

The US Coast Guard had been given the responsibility to gather airborne data that would allow government prosecution of tanker ships that used sea water to clean out their tanks after delivery of oil to a port. Oil slicks are easy to detect by looking at the change in sea surface reflectivity in both the UV and IR portions of the spectrum.

The amphibian HU16 had both fuel tanks in the wings and two 300 gallon fuel pods hung beneath the wings, which you can see in the picture. The fuel pods were modified to accept Bendix thermal mapper line scanners instead of fuel, one for UV and one for IR detection. In the cabin we designed a two-bay rack cabinet containing the controlling electronics. Each scanner had a 70 mm film cassette and the console had moving window displays in the cabin console for each scanner. When the operator saw an oil slick on either of the moving window displays, he could turn on the scanner's film recorders to gather the data. The system was all analog and was totally powered by 28 Volt DC. The aircraft had lots of available DC power and our console included a 28 VDC to 115 VAC 400 cycle motor generator to power the AC operated equipment in the console.

It was an interesting project -- the USCG people did not care much for doing environmental work since their love in life is search and rescue. Bendix supported missions at USCG stations at Boston, Corpus Christie, Miami, San Francisco, and Traverse City where the HU16s were deployed. The HU16 became famous on the TV show *Fantasy Island*, if you remember.

Grumman HU16



GETTING READY FOR SUMMER QRP PORTABLE FUN

Ed Gansen – K8DSS – Midland, MI

Check out www.QRPguys.com - their website has a number of interesting and affordable QRP items. I just completed the Portable No Tune End Fed Half Wave Antenna 80 - 10 Meter. Mine is setup for 20M (29 ft silicon insulated, 22 AWG wire) and can easily be used as a sloper or inverted V using a portable, fiberglass mast or throwing a paracord line over a low tree branch.

I will mostly be using it with a KX2 at 5-10 watts in local parks or off my deck overlooking the woods. As you can see, it is very small, light and inexpensive (\$20). Under the wire is a 49:1 Unun built on the winder. You just attach a different length wire for use on other bands.

With more and more sunspots appearing, outdoor QRP work ought to be fun this summer.

73' Ed - K8DSS



New Amateur Radio License Applications Fee To Become Effective April 19, 2022

03/24/2022

A Public Notice released by the Federal Communications Commission (FCC) on March 23, 2022, in [MD Docket No. 20-270](#), announced that new application fees for Wireless Telecommunications Bureau applications will become effective on April 19, 2022. The new fees, mandated by Congress, apply to applications for Amateur Radio licenses including those associated with filing Form 605, the Amateur Operator/Primary Station Licensee Application.

Effective April 19, 2022, a \$35 fee will apply to applications for a new Amateur Radio license, modification (upgrade and sequential call sign change), renewal, and vanity call signs.

<http://www.arrl.org/fcc-application-fee>

FCC Application Fee Instructions

FCC \$35 Amateur Application Fee Effective Date Announced

The FCC released a [Public Notice](#) on March 23, 2022, stating that the amateur radio application fees, including those associated with Form 605 application filings, would become **effective on April 19, 2022**. The Federal Communications Commission's authority to impose and collect fees is mandated by Congress.

The \$35 application fee, when it becomes effective on April 19, will apply to new, modification (upgrade and sequential call sign change), renewal, and vanity call sign applications. The fee will be per application.

Administrative updates, such as a change of name, mailing or email address, will be exempt from fees.

VECs and Volunteer Examiner (VE) teams will not have to collect the \$35 fee at exam sessions. Once the FCC application fee takes effect, new and upgrade applicants will pay the \$15 exam session fee to the ARRL VE team as usual, and pay the \$35 application fee directly to the FCC by using the CORES FRN Registration system ([CORES - Login](#)).

For more information: arrl.org/regulatory-advocacy [ARRL | Regulatory & Advocacy | Local, State, Federal Regulations](#)

HAMFESTS

For complete information, refer to the ARRL Hamfests
www.arrl.org

- HAMFEST/CONVENTION
05/07/2022 - Wexaukee ARC Cadillac Hamfest
Location: Cadillac, MI
Type: ARRL Hamfest
Sponsor: Wexaukee Amateur Radio Club
Website: <http://www.wexaukeearc.org>
[Learn More](#)

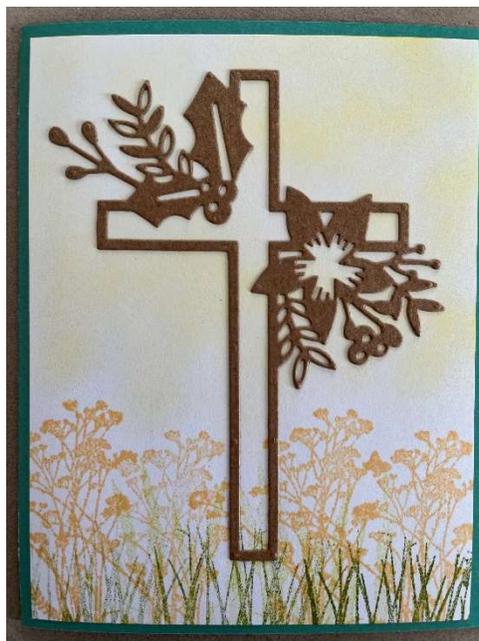
- HAMFEST/CONVENTION
05/21/2022 - GMARC Trunk Swap
Location: Shelby Township, MI
Type: ARRL Hamfest
Sponsor: GM Amateur Radio Club
Website: <http://www.gmarc.org>
[Learn More](#)

EXAM SESSIONS

Please verify the Exam Session has not been cancelled before going.

For complete information, refer to ARRL – Licensing, Education and Training
www.arrl.org

- EXAM SESSION
04/07/2022 | [Lansing MI 48911-5322](#)
Sponsor: Ingham County VE Group
Location: Lansing Fire Station #44 (Community Room)
Time: 7:00 PM (Walk-ins allowed)
[Learn More](#)
- EXAM SESSION
04/09/2022 | [Ann Arbor MI 48104](#)
Sponsor: Arrow Communications Assoc
Location: Fellowship Bible Church
Time: 9:00 AM (Walk-ins allowed)
[Learn More](#)
- EXAM SESSION
04/09/2022 | [Charlotte MI 48813-9999](#)
Sponsor: Eaton County Arc
Location: Charlotte Church of Christ
Time: 12:00 PM (Walk-ins allowed)
[Learn More](#)
- EXAM SESSION
04/09/2022 | [Dearborn MI 48126-2723](#)
Sponsor: Ford Amateur Radio League
Location: Henry Ford Centennial Library
Time: 10:00 AM (Walk-ins allowed)
[Learn More](#)
- EXAM SESSION
04/09/2022 | [Jackson MI 49201-2230](#)
Sponsor: Cascades ARS
Location: Jackson Carnegie Library
Time: 10:00 AM (Walk-ins allowed)
[Learn More](#)
- EXAM SESSION
04/21/2022 | [Mt Clemens MI 48043](#)
Sponsor: Utica Shelby Emergency Comm Assoc
ARC
Location: Emergency Management & Communications Bldg
Time: 7:00 PM (No Walk-ins / Register or Call ahead)
[Learn More](#)
- EXAM SESSION
04/23/2022 | [Midland MI 48640-8367](#)
Sponsor: Midland ARC
Location: Homer Township Fire Station
Time: 9:00 AM (No Walk-ins / Register or Call ahead)
[Learn More](#)
- EXAM SESSION
04/28/2022 | [Battle Creek MI 49017-4867](#)
Sponsor: SMARS
Location: Maple United Methodist Church
Time: 7:00 AM (Walk-ins allowed)
[Learn More](#)
- EXAM SESSION
05/07/2022 | [Cadillac MI 49601](#)
Sponsor: Cadillac Hamfest
Location: Mackinaw Trail Middle school
Time: 10:00 AM (Walk-ins allowed)
[Learn More](#)



**Easter Blessings to everyone
from Kelly and Jeannie King**

April 2022

BIRTHDAYS AND ANNIVERSARIES

<i>Sun</i>	<i>Mon</i>	<i>Tue</i>	<i>Wed</i>	<i>Thu</i>	<i>Fri</i>	<i>Sat</i>
					1 Patti daughter of WA8DHB Marsha XYL of W8PZ	2
3	4	5	6	7	8	9
10 Palm Sunday	11 KD8KCV Dave	12	13 KA9YIU Glenn KC9LHB Mike	14	15 Good Friday	16
17 Easter Sunday WD8PRW Don	18	19	20	21	22 K8ZJU Beverly	23 Gail XYL of KD9TZ
24	25	26 K8MXC Bob KC8GTE Kelly	27	28 WA8THK Perry WA8DHB Aileen NS8V Paul	29 K8SKY Skye	30

If you would like your birthday or wedding anniversary noted in the calendar, please e-mail your information to k8uhf@sbcglobal.net



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UPPER PENINSULA NET WEBSITE www.michupnet.com