

May 2023

The Standing Wave



The monthly newsletter of the Hiawatha Amateur Radio Association of Marquette, Michigan. Comments and suggestions can be sent to the club at P.O. Box 1183, Marquette, MI 49855 or to the editor at n8nav1@charter.net Club info, membership, dues, etc. can be found on our website at www.qsl.net/k8lod

MONTHLY MEETING:
Marquette Co. Health Department
Lower Level, Negaunee Township
Date: **June 1, 2023**
Time: **7:00 PM**

CLUB OFFICERS, 2023
Pres. Lou Gembolis KG8NK
VP: Greg Hanson KI8AF
Treas. Mike Beltz KD8JIR
Sec. Scott Machalk WU8H
Board Members:
Fred Mouser KD8JIP (Past Pres.)
Jim Belles, N8NAV (EC)
Dave Thomas KD8DRF

STANDING WAVE
Editor, Jim Belles N8NAV
Distribution, Greg KI8AF

REPEATERS
With the proliferation of local and regional repeaters, it is no longer feasible to list them individually. However there is an extensive list – and map – contained in the HARA website at www.qsl.net/k8lod.



FROM THE PRESIDENT

Field Day will be held on Saturday, June 24 - Sunday, June 25 (1800 UTC Saturday to 1759 UTC on Sunday). Once again HARA is planning on participating on Saturday. This year we will be at the Sands Township pavilion located on M-553, just beyond the Sands Township Hall. Setup will begin around 1:00 pm and operation will begin at 2:00 pm. The club will not be providing food or drinks this year, so bring you own snacks.

This is a great opportunity for you to get involved in all aspects of operating on the HF bands. Members will bring their own equipment and are happy to demonstrate the various modes such as CW, digital, satellites, and voice. Please feel free to bring along any family or friends who might be interested in ham radio. Last year everyone had a great time!

73, Lou, KG8NK

V.E. TESTING:

June 3, 2023 *Marquette: 8:30am eastern time, (arrive by 8:00am) Marquette County Health Dept. Bldg., U.S. 41 just east of the Michigan State Police Post. You MUST preregister at least by the Tuesday evening preceding the Saturday test date. Contact Rich N8GBA at 249-3837, n8gba@att.net or Greg KI8AF at ki8af@arrl.net.*

Please arrive one-half hour early for test sessions to give time to process applications. Testing applicants should bring the following items with them: Two pieces of I.D. one being a photo I.D., Original license and one clear copy of their license if applicable, Completed form 605 (one will be provided if you don't have one), pencils, calculator and the test fee of \$15.00. Please have the correct fee as examiners do not carry change. **You must have an FRN and provide a valid email address.** *Please contact the individual(s) listed to confirm date(s), location(s), etc.*

Note: Other clubs in the area may offer license testing. For a listing you can go to the ARRL website at arrl.org. Click on *Licensing, Education, Training*, then *Getting Licensed*, and then *Find An Exam Session*. You can search by zip code or other criteria.

HARA's Monthly Meeting Programs

NOTE: The Club is always looking for Ham Radio-related programs of interest to the membership. If you have something in mind, please contact VP Greg Hanson @ ki8af@arrl.net.

June 2023 – Storm Spotter Training provided by the National Weather Service.

The Business

HIAWATHA AMATEUR RADIO ASSOCIATION Monthly Meeting May 4, 2023

Attending: President – Lou, KG8NK; VP – Greg, KI8AF; Treasurer – Mike, KD8JIR, Secretary – Scott, WU8H and 12 additional members and two guests.

President Lou KG8NK opened the meeting at 19:00 with introductions and a reminder that the club will be selling more of the equipment from the clubhouse.

Agenda:

Approved as presented.

Secretary's report:

Motion to approve the April meeting minutes as published in the Standing Wave was made by Steve, KE8HEP, seconded by Bill, KD8ZEG. Approved.

Treasurer's Report:

Treasurer's Report for April was presented to the members by Mike, KD8JIR. Motion to approve by Scott, W8H, seconded by Lee, KD8BJC. Approved.

Correspondence:

No new correspondence.

Committee Reports:

Repeaters:

Greg, KI8AF reported that Paul, KB0P has the Raspberry Pi to repair the Echolink and add All-Star to the .27 repeater and he will complete the repair the next time he is in the area.

ARES/RACES:

- Greg, KI8AF and Jim, N8NAV got a tour of the new EOC which is in the process of being set up. The new area has a very nice room for our radio equipment and a spacious conference room for meetings. Greg has submitted a plan for the installation of our HF and VHF antennas.
- Jim, N8NAV was notified by District 8 EC Pete, K8PDC of an upcoming exercise on May 16 involving a cooperative effort by ARES groups in Brown County, WI and several counties in the UP. Jim will represent our group.
- Jim, N8NAV is working out the final details for the Marquette Co. spring ARES exercise. It will be held on Saturday, June 3 from 10:00 am to 12 noon and be in conjunction with the State Auxcomm exercise. Details and assignments will be provided to the ARES group.
- Annual National Weather Service Storm Spotter training will be held at the June club meeting.

Old Business: None.

New Business:

- The annual HARA Swap & Shop will be held on September 16, 2023. Help is needed in all areas. Contact Greg, KI8AF or Lou, KG8NK if you are willing to help.
- Field Day is June 24, 2023. The West Branch Township Hall is not available this year. Scott, WU8H has arranged for us to use the Sands Township Pavilion. See that President's Message for more details.

Motion to adjourn at 19:28 by Scott, WU8H, seconded by Tom KE8TPT. Approved.

Approved Program:

Lou, KG8NK gave an informative presentation on vacuum tubes.

Minutes submitted by Scott, WU8H.

Friday Lunch is back!
(meet in the back room at Big Boy at 11:00 am)



Front row: Brad, KE8TIPS, Dave, WD8PAK, Bruce, KH6IK, Judi, KE8LRW, Jim, N8NAV, Lou, KG8NK, Dave, KD8DRF
Back row: Brian, Mqt. Co. EM, Marge (XYL of Bill), Bill, KE8KCA, Fred, KD8JIP, Troy, KE8MMF, Sam (XYL of Troy), Don, N8HDT, Greg, KI8AF

Happenings!

The following is a list of local events that, as of press time, are happening:

- Hamvention @ Greene Co. Fairgrounds, Xenia, OH – May 19-21, 2023.
- VE Testing – June 3, 2023. See details on Page 2.
- Marquette Co. ARES Spring Exercise – June 3, 2023. ARES members watch your email.
- Green Bay Hamfest – June 3, 2023. See flyer later in this newsletter for details.
- Newberry Swap – June 10, 2023. Luce Co. Fairgrounds.
- Field Day – June 24, 2023. Sands Township Pavilion. See President’s Message & Elsewhere.
- HARA Swap & Shop – September 16, 2023 @ Negaunee Township Hall.



HARA 10-meter Net

Some months ago, the club established a weekly get-together on 10 meters. The original intent was to give those Hams with a Technician-class license a chance to gain experience on HF SSB. Since that time, it has grown into a combination rag-chew, Health & Welfare and generally an old-fashioned good time! We continue to have a good showing of “regulars” and visitors! With the Cycle 25 (hopefully) increase in propagation, 10 meters appears to be hopping. 28.400 MHz is a calling frequency, so we have decided to move our net to **28.396** on Friday nights at 7:00 pm local time. Net control is usually Greg, KI8AF. Because it is a local net, you don’t need to run much power or have a big antenna installation to be heard. So finish your Friday fish fry early and join us on 10 meters! We look forward to hearing you!

A Note about Photo Submissions

A couple of things to keep in mind when submitting photos to be published in the Standing Wave:

1. We always prefer shots of Hams in action over those just depicting random people or scenery.
2. We'd love to include captions to go along with the photo. So please identify the individual Ham(s) as well as the activity. THANKS!

Challenge

2023 CQ DX Marathon

January 1 – December 31, 2023

For details, see the DX Marathon website at www.dxmarathon.com.



News

from the desk of N8NAV



I spoke last month about driving through some nasty weather on our trip out west. Well, it turns out that you don't have to travel far from home to run into challenging weather conditions. Several counties in the UP, including Marquette, have been under flood warnings and watches for several weeks now. Driving and walking just about anywhere in the county one crosses a severely swollen creek or river and numerous roads have been closed. I was recently speaking with Brian Hummel, our county Emergency Manager, and reminded him that our ARES group was ready and willing to help, if needed. This is a good lead-in to remind you that our program for the June HARA club meeting is the annual Storm Spotter training. I hope to see you there!

The ARES group normally holds two exercises during the year – one in the spring and another in the fall that usually coincides with the ARRL-sponsored Simulated Emergency Test (SET). I have been working on a scenario for the spring exercise. Last week I had a meeting with the Assistant ECs to iron out some of the rough spots. The finished product is just about completed and I hope to get it out to the group before heading to Hamvention later this week, so stay tuned.

There's been a lot of discussion recently on the need for some "new blood" in the various club leadership and committee positions. The ARES group is no different. I think that the average age of the EC (me) and Assistant ECs is around 70. Speaking personally, there is A LOT of technology out there that baffles the crap out of me! So if you are a "young(er)" person who enjoys and understands things like All-Star, DMR, ArcGis online, QGIS CalTopo, Google Calendar, etc., there is a place in the ARES organization for **YOU!**

We are always looking for new ARES members. If interested, you can download an application from the ARRL website, www.arrl.org/ares and email it to me at n8nav1@charter.net, or contact me and I will arrange to get an application to you.

Stay safe!

73 de Jim, N8NAV

Buy, Sell, or Trade

Please advise when items have been bought or sold.

HARA still has some equipment and furniture that must be sold prior to our move from the Health Department. If interested, contact Greg, KI8AF, at ki8af@arrl.net

Parting Thoughts

1. From the ARRL:

Dear ARRL Affiliated Club,

This Monday, May 1, ARRL will launch a survey for members, encouraging their participation as we consider a dues increase.

The survey will include some short questions about raising dues and modifying the way some membership benefits are bundled. The survey will also include an opportunity for members to share their feedback.

The participation of every member is important. Please encourage all the ARRL members in your radio club to complete the survey in May.

The survey will open on May 1 at www.arrl.org/take-dues-survey. This is a member-only page. Members need to be logged into the ARRL website to take the survey. Members who are not logged in may select the Login button on the top of the web page, and they will be prompted to enter their ARRL website username and password. If they have not logged in since April 2022, they should use these [Login Instructions](#).

Thank you in advance for urging all ARRL members to complete the survey.

73

Mike Walters, W8ZY
ARRL Field Services Manager

PS: this message was sent to club Presidents, Secretaries, Newsletter Editors, and Contact Persons. We're grateful for all you do to help keep your club members informed and engaged.

2. More from ARRL:

Michigan Distracted Driving Law

Greetings,

We have received word that the pending Michigan House of Representatives Distracted Driving Bills 4250-4252 that recently passed in the House were sent to the Michigan Senate, where they gained Senate approval. The bills are headed to the Governor's desk for her signature. At this time, we have no information on when the new law will take effect. As soon as we learn additional information, we will post it here.

While a distracted driving law is a positive step forward, it is important to note that Amateur Radio is exempt from this law and we must ensure that we drive attentively with due care and caution when operating a radio from a vehicle.

Many thanks go to the MI ARRL State Government Liaison Ed Hude, WA8QJE for his efforts to monitor the progress of these bills to ensure that amateur radio operation while driving was specifically excluded as a distracted driving offense.

We are all hopeful that this new law reduces the injuries and deaths caused by distracted driving.

Larry, WB8R

3. Dale's Tales – May 2023:

- May brings Hamvention® and this year the ARRL Great Lakes Convention. Our Division Hamvention booth, located again at the ARRL Expo area, will offer the opportunity for everyone to meet and greet our Division Officials and our Section Managers of Kentucky, Ohio and Michigan. Like last year, we are encouraging everyone to bring along one of your QSL cards for posting in the booth. We are doubling the size of our QSL bulletin board for 2023. Last year's QSL posting event was so successful we ran out of room! It was really interesting to see the wide variety of cards and some were from DX visitors.
- Our Hamvention ARRL Member Forum will be held at 1:15 PM on Saturday and will include keynote talks from our CEO David Minster NA2AA, and President Rick Roderick K5UR. In addition, Director of Operations Bob Naumann W5OV, will cover recent updates to Radiosport and LoTW, and ARRL Treasurer John Sager WJ7S, will detail ARRL's current financial position and why we must consider a change to the dues structure. And on the really good side of the fence, the Division leadership team, your Section Managers, Director and Vice Director, will present our Great Lakes Division Young Amateur of the Year award to a very deserving amateur.
- ARRL Members take note, ARRL Headquarters will be conducting a membership survey the entire month of May to gather your input about how our membership can be bundled. There are about 13 questions, covering what member services you and like, the value received from your membership, your favorite parts of ham radio, what you feel to be a reasonable annual dues rate, and how our monthly publications should be distributed. The survey also includes opportunities for members to offer additional thoughts that may not adequately covered by the survey questions.
- In preparation for the survey, during April, ARRL HQ asked everyone to verify their ability to access their Personal Member page on the ARRL web site to insure the survey would be accessible. Those individuals having problems are to contact HQ for assistance in getting the connectivity resolved. Following the announcement, it was found that many members had not accessed their page since the server upgrade and more stringent password requirements went into place. Over the following days, ARRL HQ received more than 1000 requests for password assistance. Be sure to check your member page access soon and call HQ if you have any questions. 860-594-0200.

- By the way, the Volunteers on the AIR (VOTA) has been going really well and I am having a great time giving out my 225 points as a Director. My effort has been to call "CQ VOTA" and make as many contacts as time allows. I think I surprised a few folks with the level of points they received. So if you are playing VOTA, I'll be glad to make a contact. Look for me on the HF bands plus 6 and 2, both SSB and Digital. For complete details, including the listings for the number of contact points provided by each ARRL Volunteer, check <https://www.arrl.org/volunteers-on-the-air>. There is a Dashboard accessible that will show your current score based upon your request.
- Shall we consider holding a "Great Lakes VOTA Night" where we can all get on the air and share some of our VOTA points? Let me know your thoughts. WA8EFK@ARRL.ORG.

4. RF Exposure Rules:

Subject: FCC RF Exposure Rules & Calculations

As a reminder, the deadline for compliance with the new FCC radio frequency exposure rules was May 3, 2023. From everything that I have read pertaining to the subject, there isn't much worry that the FCC will come knocking on your door and ask to see your calculations. It is more likely that a local unit of government could come knocking, especially if a nearby neighbor complains. Additionally, there is always the possibility that someone will claim that they were visiting you or were near you while you were transmitting from a vehicle or remote station and suffered from RF exposure from your equipment and transmissions or receipt of transmissions. After being sued is not the time to perform your RF study to defend against such claims. From professional experience it is always best to prepare in advance for undesirable claims. It is recommended that one perform the RF studies now, print the results of the calculations and keep the print out handy. I keep mine at my station at home and for my vehicle radio, I keep a print out of the calculations in my vehicle.

The ARRL Exposure Calculator is good, but many may find it confusing or be uncertain on how to come up with the needed factors for the calculations. From personal experience, the following is a list of the things, not in order of priority, that you will need to perform the calculations:

1. Make/model to antenna to ascertain antenna gain

Note: manufacturers publish this gain data for easy retrieval; if you are using an antenna type that you made or for which you do not have the data, the ARRL does have a list of various types of antennas from which you can select a gain figure
2. Coax cable data, i.e., 8x (usually printed on the cable)

Note: at the ARRL site, there are a list of several manufacturers and models; the information will be inserted in one of the calculation formulas that you will use to perform RF exposure calculations
3. Length of coax from the radio to the connection to the antenna
4. SWR of the transmission line

Note: this is generally the toughest data to obtain; having the use of an antenna analyzer makes this easy; the ARRL site also has some "rule of thumb" factors to use
5. Frequency(ies) being used, i.e., 2m, 40m, 10m, 40cm, etc.

Note: you, will need to run a calculation for each frequency band but with the ARRL calculator, this takes less than 30 seconds per band
6. Duty cycle mode, i.e., SSB, VHF, etc.

Note: the ARRL calculator supplies the numerical figures for the various types of duty cycle

7. Transmit duty cycle: estimated amount of time in minutes you generally transmit and then receive and repeat

I do not profess to be an expert on this subject, but the above is my analysis from my calculations and I thought it might be of benefit to you.

Also, we do not *think* that these calculations will need to be made for HT use, but are looking into that and will report back to you.

73

Tim Hass, KD8ZYW
Emergency Communicattons
Coordinator, Alger County
906.202.2214

4. From Paul, KB0P:



Green Bay Hamfest!!

Saturday June 3, 2023
from 8 'til Noon

At the Our Saviour Lutheran Church
120 South Henry St

On Green Bay's East Side, just off Deckner Ave and Main Street



Entrance tickets \$5 per person

Great Commercial Vendors Featuring Tower Electronics

The Ham's dime store & wholesaler to the world since 1978!
Specializing in Meters, Insulators, Coax Switches, Duplexers,
MFJ Products & Coaxial Jumpers & Cables.

-and-

Wolf River Coils offering a wide variety of products for mobile,
portable, and base station needs.

Huge parking lot for trunk sales/tailgating, PLUS
plenty of space indoors with tables available for
only \$10 a piece! (Parking lot and facility open for set up
at 6:00 AM)

Be part of the fun!

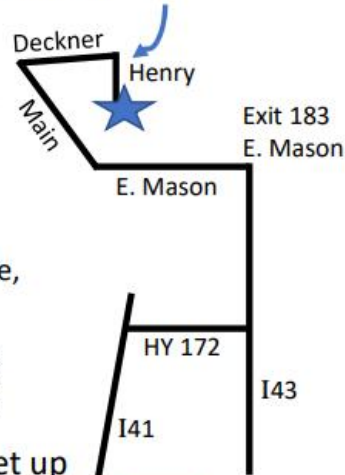
- ✓ Food available on site
- ✓ 50/50 Raffle
- ✓ "Bucket Drawings"*
- ✓ Great Door Prizes*
- ✓ Meet our ARRL Section Manager
- ✓ Commercial Vendors
- ✓ Trunk Sales/Tailgating
- ✓ FCC License Testing (Contact ks9wi@new.rr.com to schedule NLT June 1)

TALK-IN: 147.120 PL 107.2

Don't miss out!

For more information and to reserve a table or parking lot sales space,
contact Todd Clausen, W9GRB, toddw9grb@gmail.com or 414-455-6374

**Many thanks to Tower Electronics, DX Engineering, Bioenno Power,
Ham Radio Outlet, ARRL, and Easy Way Ham Books!*



Sponsored by the Green Bay Mike & Key Club



5. From our East Coast correspondent, Pete, K8PT:

Mnemonic's

Here are a few memory helpers to help us remember those tricky bits of electronic information.

Big Boys Race Our Young Girls But Violet Generally Wins

Black 0, Brown 1, Red 2, Orange 3, Yellow 4, Green 5, Blue 6, Violet 7, Gray 8, White 9

Resister color code, also used on molded inductors and some capacitors.

Same code, different words, and this one is actually more appropriate, I never heard it before:

Badly Burt Resistors On Your Ground Bus Void General Warranty

Hint: Use colored tape on your antenna cables. Red stripe – 2M antenna, blue stripe is 6M.

**Twinkle twinkle little star,
power equals I squared R**

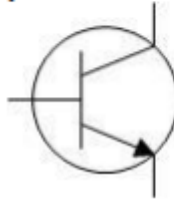
Watts are amps squared times resistance.

ELI the ICE man

In an inductive (L) circuit, voltage (E) leads current (I) - ELI. In a capacitive (C) circuit, current leads voltage - ICE

Not Pointing iN

NPN transistor schematic symbol, the arrow does not point in.



Local Weekly DMR Net

The weekly DMR net starts each Sunday evening at 6:30 pm local time and is finished by the start of the HARA Sunday evening net at 7:00 pm.

The DMR net meets on our local KB0P DMR repeater and/or the U.P. Michigan Talk Group. Lucille KD8PTE, and her assistants do a bang-up job as net control!

Repeater: 442.200 MHz receive/447.200 transmit

U.P. Michigan Talk Group: 31268



That's a wrap for this month!

HARA membership New member or need to renew your membership? Dues can be mailed to the: Hiawatha Amateur Radio Association, P.O. Box 1183, Marquette, MI 49855. Dues annual rate structure: Single \$15.00, Family \$20.00, Associate \$10.00, Family associate \$15.00, Student \$7.50. More information and an application form is available at <http://www.qsl.net/k8lod/membership.html>

The monthly newsletter of the Hiawatha Amateur Radio Association of Marquette, Michigan. Comments and suggestions can be sent to the club at P.O. Box 1183, Marquette, MI 49855. Club info, membership, dues, etc. can be found on our website at www.qsl.net/k8lod. Annual membership dues can be sent to the above address directly.