



TMRA Amateur Radio Beacon

August 2022



The Prez sez:

After three years of doing nothing I realized that I am tired of doing nothing. Covid, the monkey virus and our age all are factors of why I have been a recluse. Along with many members I am ready to get up and go. But go where? I know exactly where I want to go. I want to go back to doing the things and events we have done for many many years, Hamfests, field day and other events that we have almost forgotten about. We need to attend these events and breathe a little easier. This does not mean abandon caution but if we are careful and get our shots, wash our hands and try not to cough on anybody I think that we can successfully gather and start enjoying hamradio events again. I am tired of doing nothing.

To start with: (August)

The Toledo Mobile Radio Club Picnic & Ohio QSO Party are occurring at the Monclova Park shelter house on the corner of Monclova Rd. and Albon Rd. Right behind the fire house. Save the date, August 27th 2022. Spend the afternoon and early evening with us cooking out (Bring a dish to pass), setting up antennas and working the Ohio QSO Party. For those of you who may not know what the Ohio QSO Party is, it is a chance to operate on HF under the club call sign. In case you don't have HF privileges yet, the Club's portable radio station will be there and plenty of opportunity to learn what HF is all about with both voice and digital sound card operation.

Toledo Mobile Radio is emptying out and closing down the storage unit on Sophia St. in Maumee. It's usefulness combined with the additional cost have become a detriment. On Saturday at 10:00 am we will be emptying out the unit. The critical items are being housed by club members. The rest that is left will find a dumpster to live in for a short while. If you are interested in any of the items you are invited to drop by and make an offer on whatever items are left. We anticipate completing the cleanout before the end of September.

Next month: (September)

The Toledo Mobile Radio is planning on operating Ohio State Parks On The Air Saturday September 10th. 2022. For those of you who may not know what the Ohio State Parks On The Air contest is this will be a good time to experience it. The Toledo Mobile Radio portable radio station will be there. Attend and help with antenna setup and learn a few things about portable radio stations and their antennas. OSPOTA is **always** on the First Saturday after Labor Day. Currently we are looking at Mary Jane Thurston Park to use. Waiting to hear back from Mr. Park Ranger and Yogi.

The Findlay Hamfest is scheduled for Sunday September 11th 2022. Their talk-in is [147.150+](https://www.facebook.com/groups/147150) pl [88.5](https://www.facebook.com/groups/885).

(October)

The Simulated Emergency Test (SET) event is coming up in October. It normally occurs on the first Saturday of the month of October.

W8WHY appointed

THANK YOU

At the last Executive meeting (July 27, 2022) W8TER appointed W8WHY to the treasurer position until a time as he will meet the club's one year membership requirement. By the time of the January meeting W8WHY will have completed his year requirement and we will hold a vote to elect W8WHY to the Treasurer's position.

I want to thank Glenn, W8MUK for serving as VP these past years and his support as Vice President. Glenn has also been very instrumental in undertaking the Museum Ships on the Air event as well.

I want to thank Stephen, W8WHY for filling the position of Treasurer.

I want to thank Dave, WA2DHG for filling the position of Vice President.

I want to thank Brian, WD8MXR for filling the position of Bursar.

Brian is also head of The Hamfest Committee. And is Committee chair for the By-Laws Committee WD8MXR has signed the contract with Owens collage for the Toledo Hamfest in March of 2023.

I want to thank Bruce AA8HS for handling the club membership and the club newsletter.

A "Thank you" to WA8SYD and KC8TVW who have scheduled an entry level class for October 29, 2022 and November 12, 2022. Get the word out. Contact (KC8TVW 419-467-3734) or (WA8SYD 419-729-1962)

Trustee Position Vacant

By filling the position of Bursar, Brian has vacated a seat on the Board of Trustees. The position for his vacated seat expires in 2023. I am looking for someone to fill that vacant position until then. If you are interested in filling WD8MXR's vacated trustee position, please contact me. (w8ter@arrl.net or 419-367-1200). We have a group of diverse Officers and Trustees who help and work together for the club. I am hoping you would consider providing your help to the organization. Now looking for someone to fill in for one year as a Trustee.

Dues Increase:

Because there was some confusion at the June meeting as to exactly what we were voting on we need to hold another vote at our upcoming General meeting on August 10th in order to be perfectly clear about the Executive board's proposal we need to revisit the dues increase in order to correct any errors and vote on it again.

Dues change:

The motion we will be voting on concerning dues...

"Toledo Mobile Radio Association shall increase yearly Regular Membership dues to \$30.00, and Family, Fulltime student(s), and members 70 years of age and over shall be increased to \$10.00 yearly. The increases are to go into effect as of September 1st 2022."

By-Law Change:

The motion we will be voting on is:

Toledo Mobile Radio shall add the following to it's By-Laws:

Change Sect II, 3, b by deleting "~~with membership dues in the amount of one fourth (1/4) of the regular dues.~~" To be replaced by "*with the specified amount as shown in Appendix A.*"

Change Sect II, 3, c by deleting "~~with membership dues in the amount of one fourth (1/4) of the regular dues.~~" to be replaced by "*with the specified amount as shown in Appendix A.*"

Eliminate ~~Sect II, 3, f, iii~~ - that is covered elsewhere, will be in the revised Appendix A.

Also eliminate ~~Sect III, 5~~ - that should be in Appendix A also.

Add an Appendix A to the By-Laws of the Toledo Mobile Radio Association.

Membership year is from July 1st to June 30th.

Effective September 1, 2022, Dues shall be:

- a. Regular member: Thirty dollars ([\\$30.00](#)) per year.

On or after March 1st in any year, a person may apply for membership in this category by submitting an application form and the appropriate dues of one third (1/3) of a year PLUS the next full year's dues. Such membership will then extend to June 30th of the year following the application.

- b. Family member: Ten dollars ([\\$10.00](#)) per year
- c. Full-time Student member: Ten dollars ([\\$10.00](#)) per year
- d. 70 years of age or older: Ten dollars ([\\$10.00](#)) per year

TMRA GENERAL MONTHLY MEETING JULY 13, 2022 Electrical Industry
Building 727 Lime City Rd. Rossford Ohio

ATTENDIES: 29 MEMBERS AND FOUR GUESTS

Pledge of Allegiance: For America for all Americans

Roll Call:

Motion to suspend the reading of the June General Meeting Minutes. 1st Mike (WA8SYD),

2nd Dan (KE8UE) Motion carried.

Treasurers Report: Steven (W8WHY) Stephen wanted to make sure that everyone the Dues have increased from \$20.00 to \$30.00 for those under 70 years old from \$5.00 to \$10.00 for those over 70 years old.

Membership Report: Bruce (AA8HS) says that TMRA membership is down. Possibly due, in part, of yearly dues not yet paid.

Nominations: Voted as Secretary at June 2022 General meeting: Bill (KE8OTV)

Voted as Treasure at June 2022 General meeting: Stephen (W8WHY)

Running as Vice President: Dave (WA2DHG)

Running as Bursar: Brian (WD8MXR) Nominations were requested. (WA8SYD) motioned to close nominations. Seconded by Dan, KE8UE. Motion carried closed.

Voting for Vice President and Bursar was achieved by Acclimation. To Vote the Vote:

Motion was made : 1st by Mike (WA8SYD) 2nd Dan (KE8UE) 3rd Mike (KD8IZU) Motion carried

Program via ZOOM with Glen Popiel (KW5GP) to talk about “ARDUINO” The program began at 7:20 PM.

Glenn discussed a number of fun kits that you can build using the Arduinos to accessorize your Ham radio or to build other great items. He used the expression: “Boy!, Now

I can do that”. (As an example: A Storm Lightening Detector that can detect lightening up to 24 miles away.

ZOOM presentation concluded at 8:15 PM

KD8KXD reported that the Siren net went well.

KE8UE gave the Tech Committee report. The Tech Committee met at KE8UE's house. The 2 meter repeater has a double beep after unkeying. A low power issue is suspected. T

The 220 repeater is not working at the present time.

Motion to Adjourn at 8:30 PM

1st Darin (KD8WBZ) 2nd Dan (KE8UE) Motion carried.



ARES News
From Tim, KD8IZU
boxcar@toast.net.

Please always keep in touch through ARES in Brief Net on Sunday Nights at 7:30 or the ARES IO Group. The ARES and Brief Net no longer meets on the 147.270 repeater. They have moved to the 146.940 repeater on Sundays at 7:30 p.m.

the Northwest Ohio Traffic net meets every evening at 6:30 p.m. on the 147.375 repeater with the exception of the 15th they test out their alternative repeater 146.610.

If you have questions, you can contact Tim KD8IZU

Please use the repeaters as much as possible.

The ARES monthly meeting is the 4th Saturday of each month.

From Rick K8RKS

I'm still in need of a few operators for the Sylvania Triathlon on Sunday August 7th.

k8rks@arrl.net
419-471-0573

KD8IZU has issue a fund raising challenge, "Donate your spare change to LCARES". Contact Tim KD8IZU for details.

Volunteers are still needed for the .Contact Rick K8RKS for more info at k8rks@arrl.net 419-471-0573

How Wires, Fuses, and Connectors Can Affect Your Radio's Performance.

Bruce AA8HS, editor

Many hams are familiar with this situation: first, you measure the voltage at your linear or switching supply. If you measure the voltage directly at the connections to the radio, it will be about the power supply voltage, typically around 13.8 volts. Then, when transmitting at five watts or not transmitting, you get about the same voltage at the radio. Next, while transmitting at 50 watts (for a 2m/440) or 100 watts (for HF), the power drops. It is the higher power transmission that is compromised. When this problem exists on high power, the voltage at the radio may be below 12 volts.

From the power supply positive terminal to its negative terminal, there is a series circuit. First, the wire from the supply to your power distribution system (if you power more than one radio); then perhaps a fuse in the power distribution system; then more wire to one or two fuses in the red lead to the radio; then the resistance of the radio itself; then then black wire; then another fuse; and last, another wire to the ground on the power distribution system; finally to the power supply. Any part of the above can add resistance to the system.

The wire used in ham mobile or base units is typically 16 to 10 gauge stranded copper wire. The resistance of this wire is essentially zero. Nevertheless, equipment manufacturers often duplicate red and black wires to a radio. So unless there is a nick in the wire, it is usually not the culprit when there is a serious voltage drop with higher power transmission.

Fuses.

Some of the data that I have found do indicate that fuses can have significant resistances, particularly when there are several in series but just try to locate an instrument to measure this resistance since most values are a fraction of an ohm but some of these have as much as 0.08 ohm resistance. In the example above, there are four of them. Could this cause a significant voltage drop? It depends. A corroded contact on a fuse or its socket could cause some grief. Why use four fuses in series when one will suffice?

Hopefully, equipment manufacturers avoid the higher resistance types of fuses.

I recently used one of the small voltage monitors for my beacon radio and found that, every 10 seconds, or so, the voltage was dropping from 13.6 to 11.5 volts. I felt the inline fuse and it was warm. I replaced the fuse and fuse holder and now the voltage never drops below 13.2 volts.

Last, we have connectors on the power supply or power distribution center (Powerworxx or others). Andersen Powerpoles are popular although other methods, including copper grounding bars or terminal strips with thick copper connecting wires, can be used to provide power to the positive and negative rails of more than one radio. Be certain to inspect these connections and that they can handle the anticipated current.

Let's consider an exaggerated example:

You didn't do the best job of tightening the screws on the positive terminal or your power supply so now its connection is loose and has corroded over time. So now you have an additional 0.5 ohm of resistance in the series circuit. To transmit at 5 watts FM, the radio needs less than 4 amps (Kenwood TM-D710AG on VHF) . The resistance of the radio is $(E/I=R)$, $13.8/4=3.45$ ohms. Now add the 0.5 ohm of additional resistance, $(E/R=I)13.8/3.95=3.49$ amps. The voltage drop across the connection is

($E=IR$), $3.49 \times 0.5 = 1.7$ volts. Will this cause the radio to malfunction or reduce power? Probably not at low power.

Now, for 50 watts, the power requirement is about 13 amps. The resistance of the radio is now $13.8/13 =$ about one ohm. Add the additional 0.5 ohms of resistance. $13.8/1.5$ is 9.2 amps. So the voltage drop through the poor connection is about 6 volts or more. Then, the radio either malfunctions or could reboot, preventing you from transmitting and demanding so much current. If the limited connection results in a smaller loss than 0.5 ohm, there is also the issue of heat build up in the limited connection. This will cause an increase in resistance over time and you might wonder why the radio is malfunctioning or rebooting. Instead of rebooting, the radio may simply reduce its output power (see below). HF radios may demand 15 to 30 amps at high power so a small amount of additional resistance can really cause an output power loss. You can see how tiny ohmic losses can affect performance when large amounts of current are demanded.

In the mobile, if your vehicle is not running, the battery voltage may only be 12 volts so ohmic losses in your connections may cause trouble. In the mobile, standard practice is to use at least 10 gauge stranded wire to connect to the car battery with in line fuses (both positive and negative) as close to the battery as possible

A word about connections. I have read that crimped connectors, like those used in Anderson Powerpoles, provided the best contact and are not subject to heat degradation as well as handling large amounts of current. Soldered connections can become cold but some hams choose this method. Winged wire connectors can be used as well. But don't assume that there is no loss in connectors. It cannot hurt to inspect and clean these.

Many hams prefer to monitor the voltage at one or more radios so device like this from Amazon can be helpful:

Screen starts blinking as a warning when voltage drops under 11.5V or higher than 19.8V.



DC 12V Car Digital Voltmeter Gauge - AIMILAR LED Display Voltage Volt Meter for Car Motorcycle (Blue)

Visit the AIMILAR Store

★★★★★ 1,520 ratings | 31 answered questions

Amazon's Choice for "voltage meter car audio"

\$11⁹⁹

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Thank you for being a Prime member. Get a \$200 Gift Card: Pay \$0.00 upon approval for the Amazon Prime Rewards Visa Card. No annual fee.

Eligible for amazon smile donation.

Color: Blue

₹11 99

Attaching this device near the radio can be done in a number of ways including using Powerpole connections. A temporary voltage measurement can be made by removing a portion of insulation from the red and black wires and attaching alligator clips and wires to a voltmeter. The damage can be repaired with silicone adhesive and electrical tape.

Dave KD8EVN, suggested this device. The real advantage here is that the Powerpole connections are included and there is no need for a Y arrangement.



Powerwerx Watt Meter-PP, DC Inline Power Analyzer, 45A Continuous, 12 Gauge with Anderson Powerpole Connectors

Brand: Powerwerx

★★★★★ 37 ratings

\$59⁹⁹

Thank you for being a Prime Member. Get \$125 off: Pay \$0.00 \$59.99 upon approval for the Amazon Business Prime Card. Terms apply.

Brand	Powerwerx
Material	PP
Item Weight	82 Grams

About this item

- Measures 8 DC electrical parameters: Amps, Volts, Watts, Amp-hours, Watt-hours, Peak Amps, Minimum Volts (Sag), Peak Watts
- Bright blue backlit colored LCD display with 12 gauge wire with pre-installed Powerpole connectors
- Easy to use design with no buttons, works automatically
- Measures up to 60V and 100A. Compact size measures only 3.3" x 1.7" x 1.0"
- Great portable tool for measuring DC power output of solar panels and batteries

The April 2021 issue of this newsletter contains lots of information about using Powerpoles and a device to confirm polarity

Experiments:

An Alinco DM-330MV switching power supply was used. For each experiment, the voltage on the front panel display of the power supply did not change from the prescribed voltage although the voltage at each radio did change with power settings. For the VHF experiment, a Kenwood TM-D710G was used and a Kenwood TS-590 for the HF experiment. A frequency of 144.52 was used into a MFJ -842 power meter and dummy load. For HF, an MFJ-815D SWR/Wattmeter was used at 29.0 Mhz FM. For the VHF portion, two fuses were inline and for HF, two fuses. For VHF, about six feet of 16 gauge stranded copper wire was used and about six feet of 10 gauge stranded wire for HF.

VHF Power Supply at 14.4 volts

Voltage at radio	Watts on radio display	Power on meter
14.1	5	4.5
13.9	10	10
13.3	50	41

VHF Power Supply at 13.2 volts

12.9	5	4.5
12.8	10	9.9
12.1	50	39

VHF Power Supply at 12.5 volts

12.2	5	4.8
12.0	10	10

11.5	50	38
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HF Power Supply at 14.5 volts

12.9	25	25
12.5	50	48
12.2	75	75
12.0	100	98

HF Power Supply at 13.2 volts

11.8	25	25
11.3	50	48
11.0	75	73
10.9	100	75

HF Power Supply at 12.4 volts

11.1	25	25
10.9	50	48
10.6	75	50
10.5	100	55

As you can see, both radios suffered decreased power output at lower power supply voltages.

Conclusion

Since we know that this voltage drop issue exists, the most practical approach is to use a power distribution with one fuse per radio. Use ten gauge or larger stranded wire directly from the power distribution to the radio, both positive and negative, bypassing other fuses. Make certain that your connectors can handle the amperage of the radios. Monitoring your radio's voltage may also help in troubleshooting low voltage issues.

Many thanks to Dave KD8EVN for his help and information about Power poles from the April 2021 issue of this newsletter.

<https://www.westmountainradio.com/content.php?page=tutorials#powerpole>
Video

https://www.westmountainradio.com/kb_view_topic.php?id=ST166

<https://www.kenwood.com/usa/com/amateur/tm-d710ga/spec.html>

<https://www.littelfuse.com/products/fuses/cartridge-fuses/5x20mm-fuses.aspx>

<https://powerwerx.com/anderson-power-powerpole-sb-connectors>



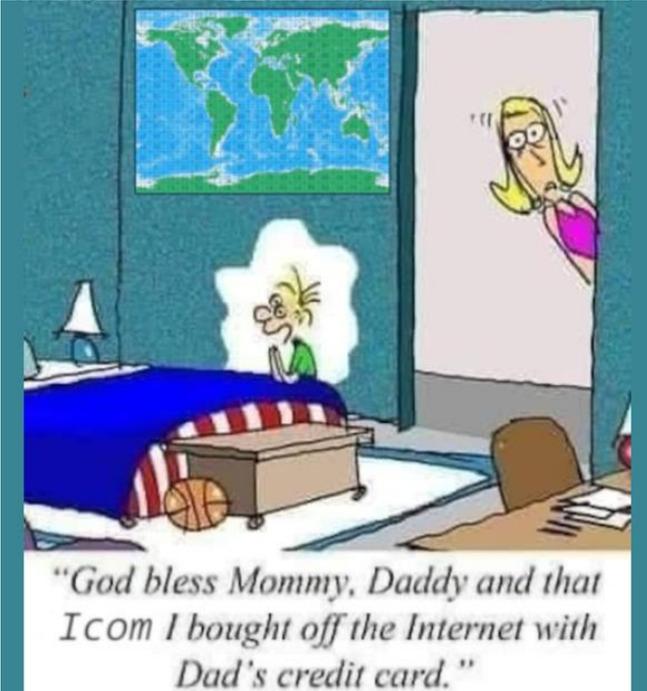
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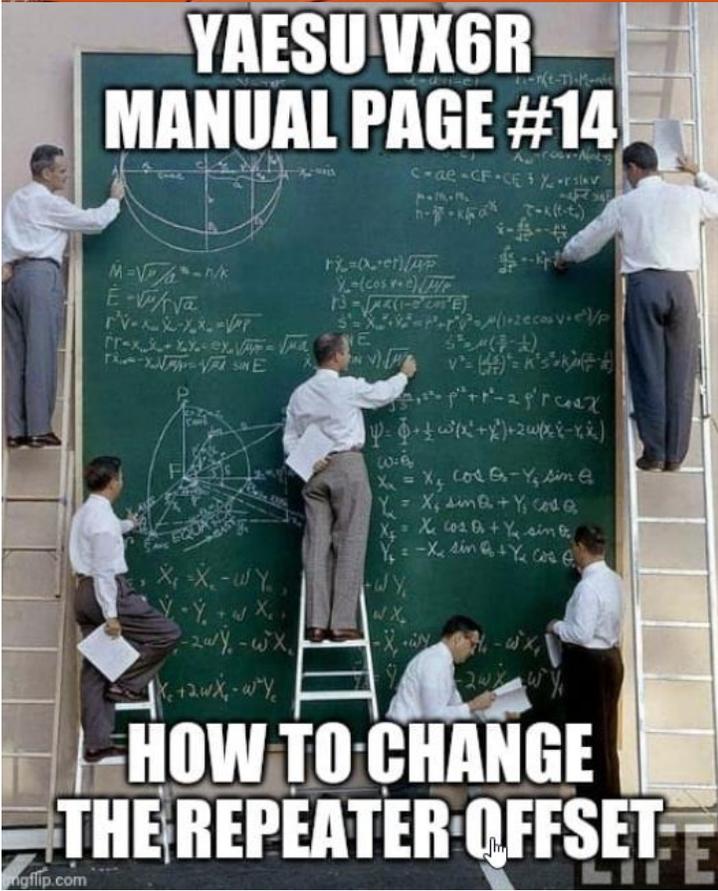
From Dave KD8EVN

Ham Radio Humor

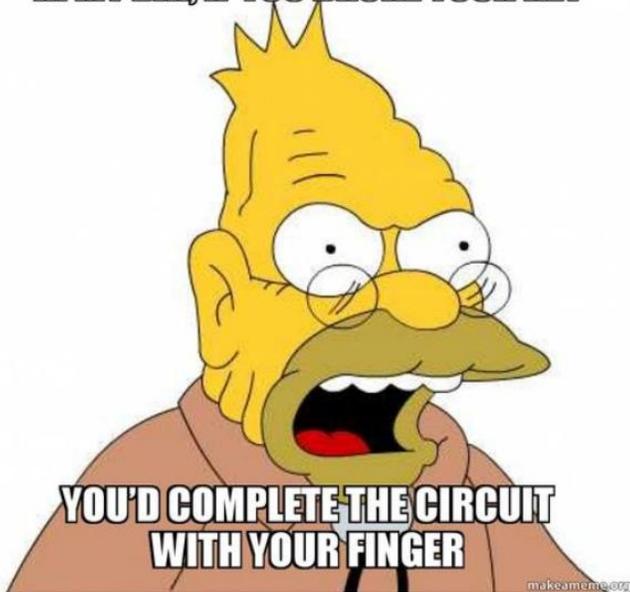
Your ham neighbor when you run a Yagi and a legal-limit amp.



"God bless Mommy, Daddy and that ICOM I bought off the Internet with Dad's credit card."



IN MY DAY, IF YOU BROKE YOUR KEY



Greetings, welcome to "Dale's Tales" for August, 2022.

We begin this month's column with the news that our ARRL Section Manager

for Kentucky has retired from the position. Steve Morgan W4NHO has served Kentucky well over several terms as SM. We now wish him the very best as he sets off to other endeavors - also assuring us that we will continue to hear him on several regional traffic nets. Steve, our sincere thanks for a job well done.

In the meantime we have the Kentucky Section Manager's position open and are searching for individuals who are interested in serving. The Job Description is posted on the ARRL Web site at: <http://www.arrl.org/section-manager>. It may seem like a lot of detail but having served for 9+ years in that capacity, I personally feel it was the very best job in the ARRL. One has the opportunity to be creative, exercise new programs and watch them come to fruition. As a team leader, the SM can mentor his staff and watch them innovate and generate new ideas to make the ARRL Field Organization grow, prosper and become more effective.

Any KY ARRL member who is over the age of 18 and has held uninterrupted ARRL membership over the last two years is eligible for the Section Manager position. I will be pleased to discuss the details with any interested party and you may feel free to phone me at the number listed for me on page 15 of QST.

Your ARRL Board of Directors met in mid July. Among the many formalities and reports, included was the interim report from the EC-FSC, the Emergency Communications - Field Services Committee which I chair. We introduced a couple of new measures that were accepted and passed by the Board. One was to formally continue the member service of hosting the "arrl.net" e-mail forwarding system. This is a widely-used and well recognized member benefit and we want full assurance that it will continue as such. Another motion allows for

the acknowledgement in our Silent Keys QST Listing of the SK's service in the US Uniformed Military Service. In the meantime, this committee is currently focusing at implementing creative ideas for improving the Amateur Radio Emergency Service (ARES), the National Traffic System (NTS), our Amateur Radio Clubs and improving communication and interaction between our geographic Divisions and the individual Sections within those Divisions.

Another early outcome from the EF-FSC is the promotion of new club services which are being introduced and phased into service in addition to the already in-service increase in rebates for ARRL Affiliated clubs for recruiting new ARRL members.

The ARRL Board also recognized two Great Lakes Division radio clubs for their work in their local communities. The Motor City Radio Club was honored for their 90 years of service for the hams in Metro Detroit and the general public of that region. The 75th anniversary of ARRL Affiliation for the Cambridge Amateur Radio Club called for them to be honored for their outstanding contributions to the public and ham radio in the Cambridge, Ohio area. Both will receive plaques from the League and the commemorations were met with applause from the ARRL Board.

Other actions by the ARRL Board will be reported to you when the official minutes are approved.

SCOTT'S STUFF: Comments from your ARRL Vice Director Scott, N8SY.

Welcome to the "dog days of summer"!!! Yes, it's hot and muggy all over the Great Lakes Division, but that hasn't seemed to slow down anyone from attending a hamfest lately. Attendance at hamfests seems to be as large or larger than the pre-pandemic days. I can truly say that our division has a very healthy and hearty appetite for getting out and mingling with others in the amateur radio world for sure!

Let's shift gears... As you know, Dale and I attended the Board meeting recently. The Thursday before was spent in the EC&FSC meeting all day!

Yes, Dale and I had our hands full with a very large agenda for the committee that we both are on. The meeting lasted all day, and I am happy to report that we got a lot accomplished, and you'll be hearing about some of those items that came from that committee in QST and ARRL Letter soon. That evening was spent in an informal meeting to discuss other ARRL items of interest for the Board. Of course, Friday and Saturday are exclusively reserved for the actual Board meeting itself and yes, it took all day Friday and all morning Saturday before we got things wrapped up. I will say this, there's a lot more to these Board meetings than meets the eye. I find these meetings a lot like watching C-Span and the activities of our Congress. Yes, there's lots of friendly discussions (politicking) going on in every corner of the room between opposing views. But in the end, it all seems to come together for the betterment of the membership and amateur radio!

Shifting gears again... QST is now offering a column for radio clubs.

Clubs are the backbone of the amateur radio community. Whether you are a part of a special interest or general club, its members are the community that you serve. In the same way that every ham is different, each club is also different. Not every club will offer the same programs and projects to their member community.

QST's newest column, "Club Station," is a space for clubs to share their practical ideas about what has helped lead them to their success.

If your club has developed a creative way to get around common challenges, the ARRL wants to hear from you! They have published author guidelines that are geared toward "Club Station." Want more information on how

to submit an article? Go to: <https://www.arrl.org/qst-club-station-guidelines-and-profile-form>. All clubs are welcome to participate.

Shifting gears again... Is your ARES group getting ready for S.E.T.?

The Simulated Emergency Test (S.E.T.) is October 1-2 and next to Field Day, one of the busiest times for ham radio! Is your ARES group or club already in the planning stage yet? If not, it should be, like Field Day, S.E.T. demonstrates to our served agencies what amateur radio is really all about, communications.

OK, shifting down to come into the pit... Now, for all the contesters out there. August has many contests just waiting for you to do. If you are interested in just having some fun, here is a link to a schedule of all the contests for the month of August... <https://www.contestcalendar.com/fivewkcal.html>

That is going to do it from here this month. Stay safe and "Catch Me On The Air, at a meeting or hamfest!!!"

73,

Scott Yonally N8SY
Vice Director
Great Lakes Division

HAMFEST LISTING:

Here is the current listing of Great Lakes Division ARRL Sanctioned hamfests through October 2022. Please note that all are subject to change, so please stay current by checking the sponsoring club's web page before making your travel arrangements.

Be sure to invite your ARRL Officials as soon as your date is set.

Please feel free to reproduce and publish in your local Club Newsletter with credit to the source.

ARRL Sanctioned Hamfests through October 2022:

08/06/22 - Columbus Hamfest, Columbus, OH

08/06/22 - UP Hamfest, Rapid River, MI

08/13/22 - Letcher Co, Hamfest, Whitesburg, KY

08/13/22 - Cincinnati Hamfest, Owensville, OH

08/20/22 - GM ARC Trunk Swap, Shelby Twp, MI

08/21/22 - Letcher County, Whitesburg, KY

08/28/22 - Seaway, Port Huron, MI

09/10/22 - GRAHamfest, Grand Rapids, MI

09/10/22 - CMARC Hamfest, Okemos, MI
09/10/22 - Greater Louisville Hamfest, Shepherdsville, KY
09/10/22 - Ashtabula Hamfest, Pierpont, OH
09/11/22 - Findlay Hamfest, Findlay, OH
09/17/22 - Richmond Hamfest, Richmond, KY
09/17/22 - Mound ARA, Miamisburg, OH
09/17/22 - GMARC Trunk Swap, Shelby Twp, MI
09/18/22 - Adrian Hamfest, Adrian, MI
09/24/22 - KY4ARC Hamfest, Paintsville, KY
09/25/22 - Cleveland Hamfest, Berea, OH
10/01/22 - Gaylord, Gaylord, MI
10/08/22 - Central Kentucky, Lexington, KY
10/15/22 - Muskegon Color Tour, Muskegon, MI
10/16/22 - Kalamazoo, Kalamazoo, MI
10/22/22 - HARA, Negaunee, MI
10/30/22 - Massillon, Massillon, OH

If you club plans to request ARRL Hamfest Sanctioning, you should do so well in advance of the planned Hamfest date, as this allows adequate time for QST Listings. QST announcements require a 3 month lead time.

If your swap is cancelled or the date is going to change, please notify ARRL HQ.

For the latest detail on regional hamfests, check the ARRL web page at:
<http://www.arrl.org/hamfests-and-conventions-calendar>

73,

Dale Williams WA8EFK
Director
Great Lakes Division
wa8efk@arrl.org

Did you know?

- The **Lucas County ARES Informational Net** is every Sunday at 7:30 pm on 147.270 or 442.85 Mhz repeaters.
- The TMRA Net meets on the air every Sunday at 8 pm on 147.27 or 442.85 Mhz repeaters.
- The **FLDigi Net** meets every Tuesday night at 7:30 PM at 147.27 MHz
- **Six Meter Nets** meet every Wednesday and Thursday at 9:00 PM (EST). The Thursday night Net is on 50.255 USB. For more information contact Dan, KE8UE, at dlcunn@sbcglobal.net. The Monday night 6 meter Net is at 9 PM on the TMRA 6 meter repeater.
- The **Lucas County Siren Net** is the first Friday of each month from 10:30 to 11:30 AM on 147.270 + W/103.5 PL and 442.850 + W/103.5 PL.
- The **NORC Net** is the first Saturday of each month. This net typically meets at 11:00 AM on or around +/- 7.200 MHz LSB.
- .
- **Ron, N8RLH**, has ham gear from the estates of silent keys. Contact: 419-345-6382 or rlhornbeck@att.net.
- The **TMRA apparel store** is now open. Contact Gold Medal Ideas at <http://www.goldmedalideas.com/tmra>.
- The calendar at the **TMRA website**, www.tmrahamradio.org, lists numerous ham radio activities each month.
- TMRA has a **Facebook** page and an **Instagram** page, which can be accessed from an icon on the TMRA website or at <https://www.instagram.com/tmrahamradio/>.
- Don't forget to select TMRA as your Organization of choice for **Kroger Cares** and **Amazon Smile**. This results in a donation to the club as a portion of your purchase. Instead of typing in the URL www.amazon.com, you must use smile.amazon.com.
- There is a 900 Mhz net Saturday nights at 9 pm on the TMRA 900 Mhz repeater.
- There is a simplex two meter net on 144.22 Mhz USB Friday nights at 8 pm.

You may contact the Editor of *The Beacon* by emailing to: bhammond111@hotmail.com or writing to:

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