



FEEDBACK

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WEST STARK INFO NET
Friday's 8:00 PM 147.180
MHz

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JULY MEETING

The meeting for the month of July 2nd will be held at the Massillon Senior Citizens Center downtown. Doors open at 7:00 PM with meeting starting at 7:30 PM.

PROGRAM

An added bonus will be a special presentation by club member Gerry Sorensen, KG8RRY covering *Real Radio's Glow In The Dark*.

HAMFEST ANNOUNCE- MENT !

**Announcing the 2021
Mansfield Mid-Summer
Trunkfest on Saturday Ju-
ly 10th, 2021.**

**Located at the Richland
County Fairgrounds, 750
North Home Road, Mans-
field, OH 44906**

**Open at 6:00 AM for ven-
dors, 8:00 AM for general
public, closes at 4:00 PM.**

**\$15.00 per spot
(tentatively 14 x 20) No
large trailers permitted.
Entrance East Gate for
Vendors.**

**For more info contact
Danny Bailey, W8DLB at
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MARC Meeting Minutes

MARC W8NP Minutes Jun 4th, 2021 Meeting held at R.G. Klein Museum & on Zoom

Perry W8AU called the meeting to order at 7:30 pm at Rodney G. Klein Museum and Library, 22 Federal Ave. NE, Massillon, OH 44646 and on Zoom for those not at the Museum. Social distancing was done due to the Corona virus pandemic.

The Pledge of Allegiance was said by the group with Perry W8AU leading.

The minutes from the May meeting were distributed in the newsletter. Perry W8AU asked if there were any corrections, and hearing none, the minutes were approved as published in the newsletter.

Dan N8DZM read the Treasurer's Report which provided account balances. The motion to accept the treasures report was made and seconded. The motion passed. There is a tailgate trunkfest in Mansfield July 10th.

Don N8IVJ via Evan KE8IDH provide a handout detailing information for 2021 Field Day.

Field Day June 26-27 for our club will be at 3737 Harwick Park, Massillon. The plans is to start setup as earlier as 7 am but arrival depends on capability of members and potential member timing to get there.

The handout from Don N8IVJ was reviewed. One of the items add was Vern KE8VS doing a primer class at the supper hour on Saturday for those interested in

getting their General or Extra Class license. The topic is an overview of Electrical & Electronic skills needed to pass the General and Extra Class exams.

Many of the details were firmed up. Perry W8AU and Dan N8DZM plan on getting equipment needed for Field Day out of the shack at the Senior Center.

A motion was made to adjourn the meeting by Jim WA8GXM and seconded by Bud WA8KWD. The motion passed.

After the meeting, the recorded presentation of "The Art and Science of Operating Ultra-Portable" by Mike Molina KN6EZE, was played.

We also want to welcome new member Ryan Brown KE8SDQ.

The next meeting will be Friday July 2nd 2021, at 7:30pm. Due to COVID-19, the meeting will be on Zoom, as well as simultaneously, there will be an in-person meeting with optional masks and social distancing. The meeting location is potentially Massillon Senior Center 39 Lincoln Way West, Massillon, Ohio 44647 (door to enter is the southeast back door) instead of the R. G. Klein Stock Market Museum, 22 Federal Ave. NE, Massillon, OH 44646.



Interactive LightCube Satellite Set to Launch in Late 2022



NASA has selected **LightCube** along with 13 other small research satellites to fly as auxiliary payloads aboard rockets launching between 2022 and 2025. The

launch opportunity is provided through NASA's CubeSat Launch Initiative (**CSLI**). Being designed, built, and tested by an interdisciplinary team of students, advisors, and engineers across multiple organizations, LightCube is a microsatellite educational mission that aims to produce a light visible to the naked eye on Earth. The spacecraft's two xenon flashtubes will be triggered via amateur radio.

When the light beacon is activated, the 1U CubeSat will be visible momentarily — each flash will last just 8 microseconds — from the ground, with a brightness similar to the International Space Station. Following ISS deployment, LightCube will orbit Earth for approximately 2 years before safely deorbiting.

The LightCube mission is a collaborative project between Arizona State University's Interplanetary Initiative, the ASU Fulton Schools of Engineering, Vega Space Systems, and CETYS Universidad. ASU designed and built the satellite.

Here's how it will work: A radio amateur with a hand-held transceiver will wait until the satellite is roughly overhead, as determined by a smartphone or computer app. The user will transmit a predefined number code, and if LightCube is charged, it will flash. The satellite then requires 30 seconds to recharge the capacitor that fires the xenon light tubes. At this point, no frequencies have been coordinated for LightCube.

The idea itself is not novel. As the LightCube sponsors note, Fitsat in 2013 used high-power LEDs to transmit Morse code. Equisat in 2016 could produce a beacon visible to the naked eye.

New Contest Hotel location for Hamvention 2022 Attention Contesters and DXers! Contest-related activities that have previously taken place at the Crowne Plaza Hotel during the Dayton Hamvention(R) are moving to the Hope Hotel beginning in 2022. In May 2022, official Contesting activities will be at the Hope Hotel, including four nights of the Contest Super Suite, Contest University, The Top Band Dinner, The Contest Dinner and the KC DX Club CW copying competition. There may be additional related events as well. The Hope Hotel is an excellent facility, well suited for Contesters and DXers. There is plenty of parking and it is located closer to the Hamvention than the downtown Dayton hotels. The Hope Hotel is adjacent to the Wright-Patterson Air Force Base. Guests do not go through the security gate. We have spent almost two years working on this project and we believe you will enjoy the change of venue. Room reservations will be taken by the Hope Hotel starting on Tuesday June 8, 2021 at 9 AM EDT. Do not call them before that time. You can get room reservations by phone only. If you try to book online you will see that there are no rooms for those dates. Every room in the Hope Hotel has been blocked for Contesters and DXers for Hamvention week. Starting Tuesday June 8, 2021 at 9 AM EDT, you can call 937-879-2696 and ask for a reservation in the Contest University 2022 room block. There is no minimum night commitment. The room rate is \$143 per night plus tax and that includes a hot buffet breakfast each day of your stay. The room rate is the same for a single queen, two queens or a single king with a pull out. If you have 2022 reservations at the Crowne Plaza (now the Radisson Hotel Dayton) you can contact the Radisson at (937) 224-0800 to cancel and obtain any refunds. The Radisson is aware of the venue change for our activities. 4 | P a g e Please spread the word to all Contest Club reflectors, etc. We look forward to seeing you on Wednesday night, May 18, 2022, for the first night of the 2022 Contest Super Suite at the Hope Hotel. <https://www.hopehotel.com/> 73, Tim K3LR For the Contest Hotel Committee.

Family Comes First during Hurricane Preparation for Home and Station

The Atlantic hurricane season began on June 1 and continues through November 30, and two named storms have already shown up, although neither threatened the US. There's still time to consider making sure you, your family, and your ham station are prepared. Remember, your family's safety comes first.

Your first stop should be a visit to the National Weather Service (NWS) page for **personal and family hurricane season preparedness**. Next, prepare your amateur radio station and equipment for possible service and/or deployment. For example, be sure to have multiple sources of back-up power, such as batteries and generators, and test them both to make sure they'll do the job, if needed. Never test or run a generator indoors or in an enclosed area where anyone may be nearby.

"I poured fresh gasoline into my Honda EG2800i generator and ran it for 30 minutes to check its status, which was good," said Rick Palm, K1CE, author of QST's "Public Service" column. "I mounted my generator on a small utility trailer for deployment, if necessary. The generator is rated for 120 V at 20.8 A."

Make sure you can take down and reinstall antennas quickly and efficiently when there's a threat of severe storms. VHF antennas mounted on masts and typical HF dipoles can be taken down and put up in minutes.

Also, test all radios and peripherals, especially those you may not use on a routine basis but might want during a severe weather emergency. This might include handheld transceivers (especially for VHF and UHF) and any HF gear that can easily run from emergency power sources

Know the name, call sign, and email address of both your ARRL Section Manager (SM) and Section Emergency Coordinator (SEC). Keep a list of emergency and public safety nets handy.

Some hams establish a "hardened" facility that's essentially stormproof, with ham gear installed inside. Rick uses a heavy steel shipping container, suitably anchored. (Read "Shipping Containers for Sheltering Stations and Operators at Deployment Sites" in the September 2020 "Public Service" column for more information on using shipping containers for emergency shelter, including container safety.) The typical garden shed would likely not suffice.

In addition, look for local/regional nets before a serious storm strikes, to learn or practice net procedure and get acquainted with all the players you might work with in a disaster: net and emergency managers, Red Cross, Community Emergency Response Teams (CERT), Amateur Radio Emergency Service® (ARES), and Radio Amateur Civil Emergency Services (RACES) communicators. Obtain and learn how to use Winlink HF mail.

"The advantages are clear, and that's why the Red Cross and others embrace Winlink," Palm says in the July 2021 "Public Service" column. He went on to say, "There is a learning curve to gaining Winlink proficiency, however. It's not a system for spontaneous volunteers." On-air training is available.

The National Weather Service offers **information** on personal and family hurricane season preparedness.



The Salvation Army Team Emergency Radio Network (SATERN) launched a new SATERN International SSB Net on June 2 on 14.325 MHz. Net sessions will take place Mondays, Wednesdays, and Fridays at 11 AM Central Daylight Time, in cooperation with the Hurricane Watch Net (**HWN**), which has used 14.325 MHz for many years during its own activations. Just down the band, another net sporting the same SATERN acronym — the Strategic Auxiliary Team Emergency Readiness Net — has established itself on SATERN's former frequency of 14.265 MHz. The latter net was organized by Lee Glassman, WA5LEE, a former manager of the original SATERN. The Salvation Army made the distinction clear in its announcement launching the new SSB net on 20 meters.

“The new SATERN organization (Strategic Auxiliary Team Emergency Readiness Net) is not associated with The Salvation Army,” SATERN National Committee Chair Michele Heaver told ARRL. “At this time, SATERN (Salvation Army Team Emergency Radio Network) is no longer associated with Lee Glassman and does not support his new efforts with the Strategic Auxiliary Team Emergency Readiness Net. This is a breakaway organization.”

The SATERN split will entail a new “updated and revised SATERN website” in the near future, The Salvation Army (TSA) said in its announcement. The new SATERN under Glassman has established **its own web presence**. Heaver said the TSA SATERN will re-establish a web presence soon.

On his **QRZ.com** profile, Glassman, an Assistant Emergency Coordinator for South Texas District 14 Amateur Radio Emergency Service (ARES), cites “a conflict of ideals.” Among other things, he said he was put off by a building list of requirements imposed by The Salvation Army that included credentialing and background checks.

Glassman told ARRL that the net retained the SATERN acronym because it was familiar to net users, “plus the fact that TSA pretty much decided to dissolve the daily 20-meter net with no plans to replace it, and we did not wish the regulars to be kept hanging. We changed what the acronym stands for. We also have a pending trademark on the name and logo.”

Glassman said that if TSA had displayed any desire to continue the daily net, “we would have gladly backed off and let it continue under TSA.” He notes that SATERN began as an independent organization that was an adjunct to The Salvation Army.

“We do not disparage TSA, nor do we permit others to do so,” Glassman said. “We wholly encourage everyone to support TSA, ARES, ARC, and any other group that they wish.”

Glassman lists himself as co-manager of the Strategic Auxiliary Team Emergency Readiness Net, along with Ned Griffin, KL7QK. The net says its purpose is to provide backup communication support during disasters for those in need.

The “original” SATERN — the Salvation Army Team Emergency Radio Network — is a fully integrated Salvation Army program within The Salvation Army Emergency Disaster Services (EDS). It was organized in 1988 by Major Patrick McPherson, WW9E (SK).

The Salvation Army said SATERN's mission is providing effective emergency communications via amateur radio and other communication modes to provide a wide scope of assistance to disaster survivors during a disaster operation. “In carrying out its mission, SATERN recruits skilled volunteer radio amateurs who have been trained in disaster communications and other emergency disaster response practices,” TSA said in its announcement.

WSJT-X version 2.4.0 Now Generally Available, Version 2.5.0 on the Horizon

WSJT-X version 2.4.0 now is available in general release. According to co-developer Joe Taylor, K1JT, WSJT-X version 2.4.0 includes a new digital mode, Q65. This protocol is designed for two-way contacts over especially difficult propagation paths, including ionospheric scatter, troposcatter, rain scatter, TEP, EME, and other types of fast-fading signals.

“On paths with Doppler spread more than a few Hertz, the weak-signal performance of Q65 is the best among all WSJT-X modes,” the *Quick Start Guide* asserts.

WSJT-X version 2.5.0-rc1 (beta) version has been released. According to the *Release Notes*, in version 2.5.0 “the Q65 decoder has been enhanced to measure and compensate for linear frequency drift in Q65 signals.”

Q65 uses 65-tone frequency-shift keying and builds on the demonstrated weak-signal strengths of QRA64, a mode introduced to WSJT-X in 2016. Q65 offers user message and sequencing identical to that in FST4, FT4, FT8, and MSK144. It includes a unique tone for time and frequency synchronization. As with JT65, this “sync tone” is readily visible on the waterfall spectral display. In addition, Q65 provides a sensitive “sync curve” near the bottom of the waterfall window.

Testing showed that Q65 will enable stations with a modest Yagi and 100 W or more and to work one another on 6 meters at distances up to ~2000 kilometers on most days of the year, in dead band conditions.

“An excellent example of targeted uses of Q65 is ionospheric scatter on the 6-meter band,” the documentation states. “Extensive tests on the 1,150-kilometer path between K1JT and K9AN have shown that with 300 W power output, nearly every Q65-30A transmission is copied correctly by the other station.” The 30A refers to the transmit-receive period and spacing width.

For the complete announcement and to download the latest version, visit the *[WSJT-X website](#)*.

July 2021

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**Massillon Amateur Radio Club
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FIRST CLASS MAIL

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Published by the Massillon Amateur Radio Club, PO Box 73, Massillon, Ohio 44648. The Club meetings are the first Friday of every month (except January) at 7:30 PM at the R. G. Klein Museum located at the corner of Erie St and Federal Avenue in downtown Massillon.