

The Oscillator

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Future Tri-Town Programs We are on vacation in July - No Meeting

August 27, 2021 - Business Meeting

August Business Meeting will be on Friday, August 27, 2021 starting at 7:30 PM. It is not known at this time what form the meeting will take. It could be in person or by Zoom or a combination. Location also unknown at this time. Program will be a DXpedition video.

From The President's Desk

Todd, KA9IUC

What a June we have had. Rob's passing was such a shock and I feel so bad for Tricia and her daughters Laura and Emily. They have my deepest sympathies and will keep them in my thoughts. What makes things even worse is that following Rob's Wake Service, seven people that I know of came down with Covid19, three requiring hospitalization. Just when you think things are improving, bam, it comes back for another round.

I truly do not know what to think about making future plans for club activities. A lot of activities have been made but what will the future bring? Sometimes I feel like putting everything on hold or scrapping it altogether. But on the other hand I feel the need to push on and hope for the best. I wish I had a crystal ball so I would know how it all comes out.

Field Day 2021

Well another Field Day has come and gone. Hope everyone had a great time and made lots of contacts. Now all that needs to be done is to get the paper work submitted to the ARRL. Electronic submittal is the only way to go. Its fast and easy and if something is wrong or incomplete with your submittal, they tell you. It is hope that you direct your points to Tri-Town. Operating was slow on Saturday but really picked up on Sunday. Comments were heard that contacts were about twice the rate on Sunday than Saturday. Those operating FT8 were being bugged by having their CQs answered by stations not operating Field Day, wasting contact time. Field Day 2021 results will be published in the December 2021 issue of ARRL's QST.

Please check into the Club nets to stay in touch and find out what is going on!

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Club Meetings & Nets

Club meetings are the 4th Friday of each month 7:30 pm at the Village of Hazel Crest Village Hall, 170th and Holmes. All are welcome and refreshments will serve. Don't forget to bring a Friend.

Club Hangouts:

The Club's Repeater 146.805 WD9HSY/R & 146.49 Simplex
442.375 Homewood, 441.300 Grant Park WA9WLN/R, "Waldofar"
443.325 Frankfort WD9HSY/R & 147.165 Kankakee Co. WD9HSY/R
All UHF's use a 114.8 PL & All VHF's use a 107.2 PL

Club Nets

2 Mtr FM 49'ers Net Wednesday, 8:00 PM Local, The Club's Repeater 146.805 -600kc 107.2 PL
2 Mtr FM Preparedness Net Sundays, 8:00 PM local, The Club's Repeater 146.805 -600kc 107.2
10 Mtr SSB Net Thursdays, 8:00 PM local on 28.490 SSB USB
40 Mtr Tri-Town Alumni Net Weekdays, 2200 UTC 7.285 SSB LSB
80 Mtr SSB Net Saturdays, 9am local 3.860 SSB LSB

Tri-Town 10 meter net

As previously announced Jerry, K9PMV, of Blue Island, has reactivating this net. The net meets each Thursday at 8 PM on 28.490 MHz SSB. So far Jerry has had as many as 7 check ins plus some DX stations. Of late it has been a core group of 4-5 check ins.. There are general discussions on ham related subjects and other topics of interest. Please support Jerry's efforts by getting on 10 Meters and check into the net!

Please check into the Club nets to stay in touch and find out what is going on!

Rob Jaggard - Rest In Peace



Tricia Jaggard's (N9WDG) husband, Rob Jaggard, passed away suddenly while at work on June 8, 2021. While not a licensed ham, he did support Tri-Town Radio Armature Club and Tricia's work as the Club's Chairperson of the Board and Treasurer. In addition to Tricia, Rob leaves behind two daughters Laura and Emily. Rob's Wake Service was attended by many Club members. The Club extends its deepest sympathies to Tricia and her family.

Trish Jaggard Treasurer & Chairperson of the Board

I want to thank all of you for your expression of sympathy and prayers for me and the girls through this difficult time. Rob's death on June 8th was very sudden and unexpected, and was a shock for us all that knew him. We are taking it one day at a time.

73s Trish and the girls- Laura and Emily

Tri-Town's 90th Anniversary Celebration

The date, time and place have be set for our celebration. The date is December 10th, 2021, the time is 7:00 PM and the place is Aurelio's, 9901 W Lincoln Hwy (Route 30), Frankfort, Illinois. There is still a lot of planning that needs to be done for that evening and the time around our anniversary. Planning items include a program, a commemorative item, and a special QSL card for the Special Event Station. One plan for the SES would be to start 12/8 and end 12/18 our founding date. Operations on 12/8 and 12/18 could be at the Bunker and during the week members could operate from home using W9VT. After the event is over, all logs would be made in to adi files by each operator and then amassed into one file for use in responding to QSL requests and to send to LOTW. Like it was said, lots of planning. Got any ideas, please talk to any officer.

Tri-Town's 2021 Calendar

Regular monthly meetings are held the fourth Friday of the month except July when we are on vacation or when it is moved due to a holiday. Meetings announcements are on the front page of The Oscillator and our 2 Meter nets.,

KARS Hamfest, July 18, 2021
Fox Hunt, July 25, 2021, 2:00 PM

Hamfester's Hamfest, August 1, 2021
QSO Today Virtual Han Expo, August 14 & 15, 2021
Fox Hunt, August 15, 2021, 2:00 PM
Business Meeting, August 27, 2021, 7:30 PM

Fox Hunt, September 15, 2021, 2:00 PM
Club Picnic, September 18, 2021.

Fox Hunt, October 17, 2021, 2:00 PM
Business Meeting, October 22, 2021, 7:30 PM

Business Meeting, November 19, 2021, 7:30 PM (Moved due to Thanksgiving)

Club Christmas party and Club's 90th Anniversary, December 10, 2021, 7:00 PM

Board Meetings are held the second Monday of the Month, all members welcome. We are having them via Zoom. If you have something you wish to bring before the Board, please contact Trish so she can send you an invitation for the meeting.

2021 will be Tri-Town RAC's 90th Year as a club. The first Club meeting was December 18, 1931. Tri-Town has been Affiliated with the ARRL since March 15, 1932.

All dates subject to change.

Covid19 Recovery

Best wishes for a speedy recovery to all are members and their family members affected by Covid19. As a part of the recovery the Club is still struggling with protocols for meetings and events. It is hoped that the picnic and December party will proceed as planned. Part of the recovery deals with our meeting place and club station located on the Hazel Crest Village properties. We have been in contact with the village. A visit was made to the club station earlier this year and all was well but cleaning was needed. An exterior inspection on July 13th noted all antennas in place. The multiband vertical on the fence to the East and the satellite beams will need some alignment. The roof of the Bunker is in need of some heavy logging activity and deforestation. Since we are guests at this village facilities, we are following their protocols regarding access.

Please check into the Club nets to stay in touch and find out what is going on!

First X-Class Major Solar Flare of Solar Cycle 25 Blacks Out HF on July 3

For a brief time on July 3, a lot of radio amateurs were wondering, "Where did the bands go?" as the first X-class solar flare in 4 years blacked out HF propagation for a time.

"I was on 20-meter FT8, and my waterfall display went from solid red signals to solid nothing in the blink of an eye," Scott Craig, WA4TTK, told "K7RA Solar Update" Editor Tad Cook, K7RA. "It lasted about 10 minutes." Craig was not alone.

"Many American radio amateurs reported sudden HF propagation blackouts on Saturday morning, July 3, when solar active region 12838 produced an X1.5 major solar flare that reached maximum intensity at 1429

UTC, the first X-class solar flare of Solar Cycle 25 and the first since 2017," said Frank Donovan, W3LPL. "HF propagation blackouts are caused when x-ray and extreme ultraviolet radiation from X-class solar flares strongly ionizes the absorbing D-region in the Earth's sun-facing dense lower ionosphere," he explained. Such a radio blackout occurs when a pulse of x-rays ionize the top layer of the atmosphere, the exosphere.

In this instance, it caused what NOAA's Space Weather Prediction Center (SWPC) calls an R3-level or "strong" radio blackout (on a scale of R1 - R5). An R3 incident can cause a "wide-area blackout of HF radio communication [and] loss of radio contact for about an hour on [the] sunlit side of Earth. Low-frequency navigation signals degraded for about an hour."

Donovan said that X-class major solar flares are necessary consequences of steadily increasing Solar Cycle 25 activity. "95% of all X-class solar flares occur when the solar flux index is 90 or greater. The remaining 5% can occur any time during the solar cycle," he points out. "X1-class major solar flares typically degrade HF propagation for only an hour or two at mid and high latitudes, only on Earth's sunlit side."

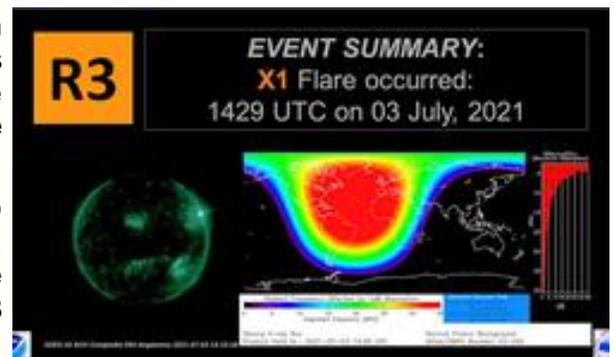
X-class major flares are measured on an open-ended scale. The strongest one ever recorded was an X28 flare in 2003, hundreds of times more powerful than the July 3 X1.5 solar flare. X10-class and stronger solar flares typically have

effects that last for most of a day and affect the entire sunlit side of the Earth. Fortunately, X10-class solar flares occur only about once every 20 years or more.

"Much more severe and long-lasting HF propagation degradations are often caused by the coronal mass ejections (CMEs) often associated with -- but not caused by -- major solar flares," Donovan explained. "HF propagation degradation caused by CMEs typically begins about 2 days after the effects of the associated solar flare, the duration of the delay depending on interactions between the CME and the solar wind."

The CME associated with the July 3 X1.5 solar flare is likely to have little to no effect on HF propagation going forward, because the active region was very close to the western edge of the visible solar disk when the CME erupted. Region 12838 rotated off the visible disk on Sunday, July 4.

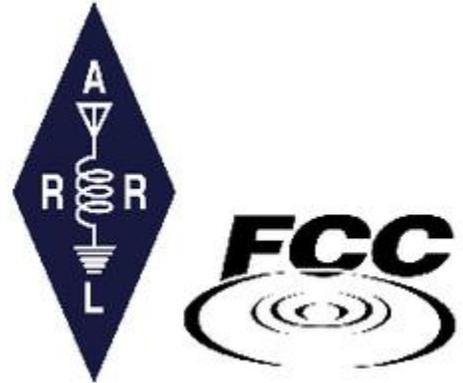
Solar flares have no significant effect on VHF ionospheric propagation, but can degrade satellite communications passing through the ionosphere. More frequent, less powerful M-class medium solar flares produce short-duration degradation at high latitudes. Very frequent, much weaker A-, B-, and C-class solar flares do not degrade HF propagation. -- *Thanks to Frank Donovan, W3LPL*



June 2021 Volunteer Monitor Program Report Released

The June 2021 activity report of the Volunteer Monitoring (VM) Program has been released. The VM Program is a joint initiative between ARRL and the FCC to enhance compliance in the Amateur Radio Service.

- The FCC was requested to review a vanity call sign application filed by a Georgia licensee because of an apparently false answer to the question regarding a felony conviction.
- A licensee in Massachusetts received an *Advisory Notice* concerning obscenity and harassment on 160 meters. The FCC will hold for review any renewal application filed by this licensee.
- A General-class licensee in San Antonio, Texas, received an *Advisory Notice* for operation in the Amateur Extra-class portion of the 20-meter band.
- Licensees in Pennsylvania, North Carolina, Georgia, and Virginia received *Advisory Notices* concerning failure to identify and other possible violations as part of a general audit of complaints about licensee conduct on 1.938, 3.860, 3.895, and 3.927 MHz.
- In May, Volunteer Monitors logged 1,514 hours on HF frequencies and 2,072 hours on VHF frequencies and above.



The Volunteer Monitor Program Administrator had one meeting with the FCC, and two cases were referred to the FCC for further action. One case involves a taxi company in Alaska operating on 2 meters. -- *Thanks to Volunteer Monitor Program Administrator Riley Hollingsworth, K4ZDH*

Learning with High-Altitude Balloons – Jack McElroy, KM4ZIA, and Audrey McElroy, KM4BUN Thursday, July 22, 2021 @ 3:30 PM EDT 1930 UTC

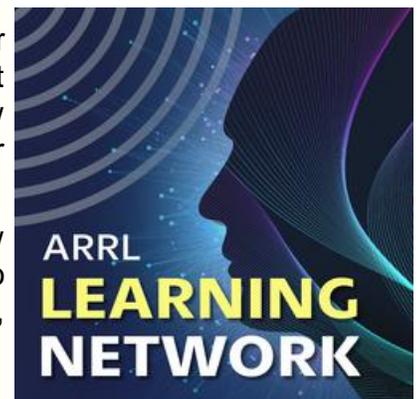
Jack McElroy, KM4ZIA, and Audrey McElroy, KM4BUN, talk about their experiences with high-altitude balloons and explain how hams can get involved in successfully launching balloons. They'll also talk about how to make high-altitude balloons a fantastic learning experience for students who may want to be involved in ham radio.

ARRL members may register for upcoming presentations and view previously recorded [Learning Network](#) webinars. ARRL-affiliated radio clubs may also use the recordings as presentations for club meetings, mentoring new and current hams, and discussing amateur radio topics.

The ARRL Learning Network schedule is subject to change.

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.



Tri-Town's Fox Hunts

Tri-Town held a Fox Hunt on June 13, 2021 starting at Brian's in Monee. Ken K9KO and his wife Sandy KA9GMB were the Foxes having won Tri-Town's last Fox Hunt. July 25th is our next Fox Hunt. Why not join in the fun starting at 2 PM at Brian's in Monee. See the calendar for other Fox Hunt dates.

24th Annual International Lighthouse Lightship Weekend

Set for August 21 - 22, the 24th annual International Lighthouse Lightship Weekend ([ILLW](#)) will be back, despite the disruption of the global COVID-19 pandemic. Each year, typically on the third weekend of August, [participants](#) set up portable stations at or near lighthouses and lightships around the world. Last year, prospects for the event were looking dim, but "regular supporters wanted the event to be a beacon of hope," the event's sponsor said. More than 360 registrations from 43 countries backed up their belief. As of July 8, this year's [registration tally](#) had already topped 200, with 25 participants signed up to activate lighthouses or lightships in the US. The ILLW typically attracts entries for some 500 lighthouses in more than 40 countries. The event has few rules and is not a typical contest-type event. The ILLW will begin at 0001 UTC on August 21 and continue through 2400 UTC on August 22.



Each station's operators decide how they will operate their station with respect to modes and bands. There are no power restrictions or entry classes and no scores.

"We wish operators to enjoy themselves and have fun while making contact with as many amateur radio stations as possible," ILLW said in the event announcement. "We request that stations take time to work other lighthouses or lightships, as well as the slow operators or newly licensed or QRP stations." Participants contact the relevant authorities to obtain permission to operate. It is within the guidelines of the event to move operations from a lighthouse to a museum for historic reasons. In any case, the lighthouse should be visible to, and visited by, the public wherever possible.

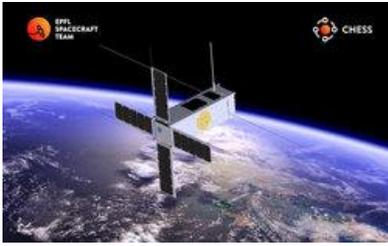
Visit the ILLW website for more detailed information.

To keep member records up to date, ARRL emailed Life Members on June 16.



A follow-up email will be sent in the next few days, asking them to verify their mailing address. Be assured that it is a legitimate request sent from ARRL. Thank you to all those who responded. If you need to update your address information, call (860) 594-0200, email membership@arrrl.org, or respond to the email you received. If your email client does not recognize the text as a link, you will need to cut and paste it into a web browser to access the verification web page.

The CHESSE CubeSats will not carry amateur radio payloads.



It was announced in January that two CHESSE CubeSats set for launch in 2022 would carry amateur radio linear transponders. The project sponsors [announced](#) on June 10, however, that neither CHESSE satellite would include an amateur radio payload. Citing funding constraints, CHESSE project management had to move the project toward a purely scientific program using a commercial CubeSat platform, which has less space for the planned ham radio transponders. CHESSE project management also will not use frequencies allocated to the Amateur

Satellite Service, but will use Earth exploration or experimental UHF and X-band frequencies. "The ham community, which assured the funding of the transponder, is very disappointed by this decision but must accept it," the project team said in a news release. "Such projects always carry risks of one partner changing its mind. That is what happened here. Many thanks to all who have actively supported the transponder project, especially the AMSAT-UK and AMSAT-NL team."

Need to Know the Time Precisely?

If you are using a program such as WSJT-X for FT8 or other program that requires that your computer clocked be in sync with an established time standard, you need a program to make the time correction. Dimension-4 is such a program. Access to this program for download seemed to be lost for a while due to not being able to locate it. Thanks to the Metro DX Club grapevine, a new point of access has been found. Download it at: dimension-4.en.softonic.com.

This Sunday July 18th

KARSFEST 2021

37th ANNUAL HAMFEST
THE KANKAKEE AREA RADIO SOCIETY

Sunday JULY 18th

W9AZ 

AMATEUR RADIO - HAMFEST - ELECTRONICS SHOW
Forum Presentations - ARRL - VE Testing - Card Checking

For more info visit the KARS web site at
www.w9az.com

Air Conditioned Indoor Exhibits
Huge outdoor Flea Market
Outdoor Flea Market Paved
ARRL VE Radio License Testing
Time: 10AM to 12PM

(TICKETS and TABLES)
Double Stub ADVANCE TICKETS \$8
Single stub tickets \$10 at the gate

(INDOOR SALES)
Indoor Tables \$10 for the first table, \$8 thereafter
(Tickets and Tables are purchased Separately)
INDOOR VENDORS SET-UP Sat 6-8:00 PM - Sun 6-8:00 AM
BUILDING OPEN TO PUBLIC Sunday 8:00 AM for INDOOR SALES

(OUTDOOR FLEAMARKET SALES (FREE))
GATES OPEN TO PUBLIC and TAILGATERS Sunday 6:00 AM
Free Overnight (Saturday evening) Parking, \$20 with Electric

Vendor tables are the least expensive of all the Hamfests in the area!

E-Mail Questions to K9XI at
karsfest@gmail.com
Vendors / Tickets
Ph: (815) 348-7752

For Ticket and Table Requests
Send Request and SASE To:
ART REIS K9XI
308 EASTGATE CT
NEW LENOX, IL 60451
Please ensure mailed requests are received by July 8th

ARRL
Representatives

In 2019 (our last hamfest) we held our first "Radio Equipment Auction."
The auction was such a success that we're doing it again!
It drew such a crowd that we absolutely have to do it again!
Auctioneer Dan WA9WAQ will be officiate the auction in the Atrium!
Contact Art Reis K9XI at the KARS-Fest email address above.

Will County Fairgrounds

LARGE AIR CONDITIONED BUILDING—FREE TAILGATING
Easy to reach I-57 to Peotone Exit 327 (East)

Follow our APRS Beacon HFEST-18p - Grid Sq EN61CH
GPS Coordinates 41°19'34.2" N ; 87°47'40.2" W

Peotone, IL

FCC Reaffirms Nearly \$3 Million Fine for Marketing Unauthorized Drone Transmitters

In a *Memorandum Opinion and Order* ([MO&O](#)) released June 17, the FCC denied a *Petition for Reconsideration* filed by HobbyKing of a \$2,861,128 fine for marketing noncompliant RF equipment and for failing to respond to FCC orders in its investigation of the company's practices. In the same step, the FCC enforced its equipment marketing rules. The fine resulted from an FCC investigation initiated by ARRL's January [2017 complaint](#) that the HobbyKing equipment was "blatantly illegal at multiple levels."

A representative of the ARRL Electromagnetic Compatibility Committee (ECC) stated, "The *Forfeiture Order* is the final chapter of a story that started with a report to the ARRL Board by the EMC Committee in 2017, as a result of the discovery that aerial drone TV transmitting equipment was being imported and marketed without proper FCC authorization under FCC Part 15 rules."

As spelled out in ARRL's 2017 complaint, the ARRL Laboratory had documented that the operating frequencies of these drone TV transmitters near the 1.3 GHz amateur band were dip-switch selectable for frequencies internationally assigned for use by Aeronautical Navigation, GPS, GLONASS L1, ATC Mode "S," as well as to both the interrogation and reply frequencies used for Air Traffic Control Air-Route Surveillance "transponder" radar systems.

ARRL's complaint noted that given the channel configuration, these units would not have a legitimate amateur radio use, and that the marketing was directed at drone enthusiasts and not to licensed radio amateurs. "ARRL Laboratory tests did prove that only one of the seven available channels was within the 1.3 GHz amateur band," the ECC representative said.

"This is another example of ARRL not only affirmatively acting to protect our members' interests, but also acting to protect the safety and security of vital services and the general public," the ECC representative said.

HobbyKing had denied that it was marketing its drone transmitters to US customers, but as the ARRL January 2017 complaint pointed out, ARRL Laboratory Manager Ed Hare, W1RFI, was able to purchase two drone transmitters from HobbyKing for testing in the ARRL Lab. "The FCC noted that amateur radio equipment used to telecommand model craft are limited to 1 W (1,000 mW), but three transmitters included in the FCC investigation operated at significantly higher power levels of 1,500 mW and 2,000 mW," ARRL said.

HobbyKing had told the FCC that it had no notice of the Commission's authorization requirements; that the Fifth Amendment relieved HobbyKing of its duty to respond; that the forfeiture amount was inappropriate because its parent company, Indubitably, Inc., lacked the ability to pay to the *Forfeiture Order*; and that the Commission was time-barred from taking action against ABC Fulfillment Services LLC because it was not part of HobbyKing's business.

"Upon review of HobbyKing's *Petition for Reconsideration* and the entire record, we find no basis for reconsideration because the petition fails to present new information warranting reconsideration," the FCC said in the *MO&O*.

HobbyKing is the trade name of two US-based companies that include ABC Fulfillment Services LLC and Indubitably, Inc.



Russian Woodpecker Antenna Now a Cultural Heritage Site

The massive Duga-1 antenna array that transmitted the obnoxious and infuriating "Russian

Woodpecker" HF signal from the 1970s until the late 1980s is now a cultural heritage site. The array, located near Chernobyl in Ukraine, was part of an over-the-horizon radar (OTH-R) system designed to detect and offer early warning of incoming ballistic missiles from the US. A complementary receiver site was located some 40 miles away. While the system was operating, its broad rat-a-tat signal, typically at a 10 Hz rate, caused severe interference in the amateur bands. The Chernobyl nuclear power plant disaster and the end of the Cold War preceded the end of the system and the interference it caused. NATO military intelligence discovered and photographed the structure, which it dubbed "Steel Yard."



Nearly 2,300 feet long and more than 450 feet tall, the steel beams of the radar array are in the Chernobyl exclusion zone tower above the surrounding forest. Seen from a distance, it appears to be a massive wall or the start of a cage. As *Vice* recently [reported](#), the Association of Chernobyl Tour Operators was the first to announce that Ukraine had made Duga-1 a protected heritage site. The Russian *Interfax* news service later reported the official designation.

"Our heritage is not only the area around the power plant but also the buildings located on its territory," Oleksandr Tkachenko, Ukraine's Minister of Culture and Information Policy, said in a Telegram thread about the announcement. "So now we are working on identifying other

objects that should be part of the list of monuments. Our goal is to prevent destruction when possible."

The Soviet Union deployed two similar OTH-R installations -- known as Duga-1 and Duga-2 -- the one near Chernobyl and another in eastern Siberia. Transmitter power levels were rumored to be in the 10-megawatt EIRP range.

Duga-1 was the focus of a 2015 documentary, *The Russian Woodpecker*, by Chad Gracia. The film includes interviews with Duga Commander Vladimir Musiets and others involved in building and operating the OTH-R system. The production was a 2015 Sundance Film Festival winner in the documentary category.

In recent years, the Duga-1 radar has also played a role in other films, as well as in various video games and novels.



A Duga array seen from a distance. [Ingmar Runge photo]

ARRL In Brief...

Field Day entries are arriving fast and furious.



Three days into the Field Day entry submission period (June 30), entries already have topped 3,000. ARRL Contest Program Manager Paul Bourque, N1SFE, says 201 of these are three-or-more-operator club entries (Class A); 385 are one- or two-person club or group entries (Class B); 33 are mobile entries (Class C), and 34 entered as EOC stations (Class F). "2,414 entrants operated from home stations -- 1,831 as Class D (commercial power) and 583 as Class E (emergency power)," Bourque said. "Last year, there were 10,213 total entrants -- 611 as Class A; 1,086 as Class B; 134 Class C; 6,318 Class D; 1,980 Class E, and 84

Class F. In 2019, before the pandemic, there were 3,113 total entries." -- *Thanks to ARRL Contest Program Manager Paul Bourque, N1SFE*

The third [QSO Today Virtual Ham Expo](#) will take place August 14 - 15, with presentations available on demand for 30 days.

Sponsors promise "a flawless experience" that will expose visitors to new ideas, equipment, and practical techniques via the vFairs platform used successfully in the first QSO Today Virtual Ham Expo in August 2020. Some 80 speakers have been lined up to offer expert knowledge and information for amateurs at all experience levels. A live roundtable video will allow attendees to interact with each other and with exhibitors. ARRL is a QSO Today Virtual Ham Expo partner. Registration is now under way, and full registration "early bird" tickets are \$10. Full registration includes access to the entire Expo, including presentations and the 30-day on-demand period. Free registration includes access to exhibitors, prizes, general lounge, and lobbies. Those who registered for the March Expo already have a free registration for the August Expo.



Moonbouncer Steve McDonald, VE7SL, a back-to-basics equipment for making 2-meter EME contacts.



He came up with a nine-element Yagi, a 120 W amplifier, and an antenna position-control system that offered azimuthal rotation but not elevation. The time available to make EME contacts was less than if he'd had elevation control. His [blog](#) recounts his experience with single-Yagi moonbounce. His advice, "If you haven't given single-Yagi EME a try, I would encourage you to test it out, as you might be surprised at your results." The next [ARRL EME Contest](#) weekend is October 23 - 24, 2021.

Tri-Town Radio Amateur Club Inc.
PO Box 1296
Homewood, IL 60430-0296

July 2021



Tri-Town Radio Amateur Club Membership Application 2021

Name _____ Call _____

Address _____ License Class _____ ARRL Member Y / N

City, State _____ Zip _____ Phone _____

Email Address: _____

____ Regular Membership \$ 25.00
____ SWL Membership \$ 25.00
____ Extra Family Membership \$ 6.00

\$ _____ Total Paid by Club Member

For Example: Regular Member, with Family (25+6) = \$ 31.00

You can send your dues via paypal to: the_jaggards@sbcglobal.net

NEW and Easy way to pay your Dues! PAYPAL!

From Trish N9WGD Treasurer

Remember dues are due for 2021. (You can still send us a check too!)

The Board at its last meeting decided to add a PayPal option for paying your dues- so I have a PayPal account that we will be using- it is under my name- Tricia Jaggard- my email the_jaggards@sbcglobal.net. Dues are \$25 per year and \$6 for each family member.