



**Milwaukee  
Radio  
Amateurs'  
Club**



*"The ARRL's oldest  
affiliated club"*



# HAMATEUR CHATTER

Editor: Dick Strassburger, N9EEE  
Proofreader: Gregg Sperling, KB9E

3rd Quarter 2021

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## COVID-19 PRECAUTIONS

The Board of Directors has determined that in-person club activities and meetings may resume as long as social distancing is observed. Wearing a mask will become an individual decision. Should the City of Milwaukee Public Health Dept declare any stricter restrictions are necessary, the club will comply and implement across all activities. Please watch individual activity notices for any changes to this policy.

Be safe. Stay healthy.

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## FROM THE PRESIDENT'S SHACK



Here we are at the end of July heading into August. COVID is still out there and not going away anytime soon. As I wrote in May, I was hoping we would see a vaccination rate over 50% or higher so we could really put this behind us. With the Bucks winning, I am sure we will see a rise in positive cases. With these large gatherings, I don't see how we can't see a rise in positive cases. It looks like we have no choice but to accept this as our new normal and need to figure out how to move forward while keeping people safe. We are planning our first in-person meeting on September 30th at the HRO training room. We are planning to have a presentation on emergency communications. We are also planning to continue to use Zoom for meetings to allow people who are not comfortable with in-person meetings to still participate.

Our July meeting featured a presentation by Dick, N9EEE, about the Parks On The Air program and memorable activations. These types of activities are becoming popular during the warm months. I look forward to seeing his presentation, available soon on our YouTube channel.

Our annual Swapfest will be held on August 28th at the Elks Lodge. We will have both indoor and outdoor vendors this time. We need 20 volunteers this year to handle this expanded event. I will be contacting people who have helped in the past and giving them assignments. Please consider volunteering for this year.

I am talking with the MSOE radio club to see if they would like to partner to do a Maker Faire presentation. Maker Faire is holding the event at MSOE this year and I figure it would be a good idea to work together on a presentation. More information to come.

Ted, N9KQQ, has volunteered to be the club secretary. He will be taking notes at our board meetings. I want to thank him for stepping up for this important task. Gregg, KB9E, has volunteered to be our Net Control Committee chair. This committee will help with better communications between the board and our various nets. Our hope is this will help with the promotion and coordination of the club information and our nets by having a central group made up of the people doing the work.

- Dave KA9WXN

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## **TREASURER'S FINANCIAL REPORT**

Treasurer's Report, as of 7/16/2021

Account Balances

Petty Cash: \$20 (Held by treasurer)

PayPal: \$512

Checking: \$5,749

CD #1: \$5,178

CD #2: \$7,635

Total all accounts: \$19,094

Items of note since our last newsletter:

- some dues came in for both 2021 and 2022
- the ARISS project had expenses of \$30.15 for misc parts

Respectfully Submitted,  
Joe Schwarz  
N9UX  
MRAC Treasurer

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## **BOARD OF DIRECTORS MEETING MINUTES**

**2nd Quarter + August Compilation**

Treasurer's Reports: the club will be switching to a smaller mailbox size at the post office as a cost containment measure. The USPS has increased their rate for a full-size box, which the club has been using, yet the need for the full-size no longer exists. Moving to a smaller box is appropriate and will still save the club money.

The Board has been seeking a Secretary to record Board of Directors meetings as well as Membership meetings. Ted Carlson, N9KQQ, has agreed to take that role.

The Board approved in-person meetings, beginning in September, yet still follow the City of Milwaukee COVID safety guidelines in effect at that time. The use of Zoom will continue in the short-term for those hesitant to attend in-person. A new location for club meetings has been decided - the Training Room at Ham Radio Outlet - Milwaukee for as long as HRO makes the facility available to the club. Thank you Tom Pachner for this offer.

Various topics and presenters for monthly member meetings were discussed, some based on member survey feedback. A program schedule through November has been created. Programming for each of the monthly meeting continues to absorb a fair amount of time during the Board meetings. A new Program Committee was approved to research and recommend appropriate presentations for the monthly membership meetings. The Board is seeking a member outside the Board to take that role.

The ARISS project is re-emerging from its hiatus during the pandemic. The current focus is on new circuit boards for the antenna relay boards, new preamp mounting, and purchasing a preamp for the back-up antenna. The team will begin focusing on finding a school interested and suitable for ISS communication, this Fall.

Ham Radio Boot Camp is in the development phase. PowerPoint presentations, workshop materials, and presenters have been the focus. Promoting the event through the MRAC VEC, HRO, and South Milwaukee Swapfest have been the primary communications thus far. Promotion will continue with the MRAC Swapfest, posts on various Facebook pages, and direct mail to newly licensed hams. MRAC VEC and the ARRL acknowledge and support this program.

Hams Helping Hams has seen a slow start, but this was anticipated. The program was developed for the long-term, not a short-term fix. Inquiries from non-club members are received with some assistance offered, but greater assistance when they become a registered member.

The Membership Committee continues its planning for targeting the three primary audiences: newly licensed, "lost members," and those using club resources. Postcards, flyers, banners, and emails are in development. We also attended the South Milwaukee Swapfest with an exhibit, and also distributed flyers to promote membership, Ham Radio Boot Camp, and our own swapfest.

The Marketing Committee proposed migrating from a Facebook Page to a Facebook Group primarily to permit club members with direct access to posting content. Additionally, files, photos and videos may be uploaded. A group offers higher security and promotes camaraderie. The question of bandwidth to moderate the group was raised. Dick, N9EEE, offered to Moderate the group as he has experience with other ham clubs and non-ham groups. Board approved.

The website continues to evolve with new information resources being added weekly. A more graphic theme will continue to be researched and implemented providing a more dynamic look.

The Swapfest Committee created a layout for indoor and outdoor vendor space that can flex as COVID guidelines shift. Club exhibit tables, raffle drum, PA system, food service, parking, staffing, door prizes, set-up/tear-down, were planned. A flyer was created and distributed; web page with flyer was created; and Facebook post has been prepared. Dave Schank, KA9WXN, announced he will be unavailable to attend due to an out-of-town commitment.

The club has participated in Maker Faire in past years, however there is some uncertainty about the organization's plan this year, being held at MSOE. The club has reached out to MSOE ARC to co-participate in an exhibit, however contact has not been made. Maker Faire is September 25 - 26. No club plans or commitments have been made at this time.

Concern was raised about the lack of a repeater usage policy or guidelines, and lack of Fusion/WIRES-X operating guidelines. An old set of guidelines was brought forth. Dick re-wrote the guidelines with a more professional tone. Work continues on the Fusion guidelines.

Concern was raised about the lack of coordination and communication with net control operators, one of whom is not a club member. A Net Control Ops Committee, to be headed by Gregg, KB9E, was created to establish a communication path, assure net control operation, and oversee the nets.

Concern was raised about WIRES-X usage. A matrix identifying WIRES-X usage during the past six months was presented by Dick, N9EEE. It showed that 80% of the activity is coming from non-members. The need for Fusion/WIRES-X User Guidelines, and more promotion of the mode among members were discussed as methods to increase member usage. More needs to be discussed.

Written, compiled, and submitted by Dick Strassburger, N9EEE

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## **EVENTS, ACTIVITIES and PROJECTS**

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### **MRAC & M.A.A.R.S. 10th Annual Swapfest**

**Saturday, August 28, 2021**

**Public Hours: 8:00 am - 12:00 pm**

**Vendor Setup: 6:00 am - 8:00 am**

**NEW: Indoor AND Outdoor Selling Areas**

**Ham Gear | Radios | Computers | Electronics  
VE Exams (at HRO)**

**Door Prizes:**

**\$150 HRO Certificate | N3FJP Logging Suite | EasyWayHamBooks | and  
MORE**

**Event Talk-in Repeaters:**

**Fusion (C4FM): MRAC Repeater 145.390 MHz (127.3 kHz tone)  
FM Mode: M.A.A.R.S. Repeater 145.130 MHz (127.3 kHz tone)**

**Location:**

**Elks Lodge #46, 5555 W Good Hope Rd  
Milwaukee, WI 53223 (Across from HRO Milwaukee)**

Click [HERE](#) to

**Reserve Your Table or Purchase Tickets, TODAY!**

**VOLUNTEERS NEEDED!**

**WITHOUT VOLUNTEERS, THIS EVENT WON'T HAPPEN.**

**PLEASE SHARE YOUR TIME AND APPLY NOW!**

**In exchange for your help, you get FREE admission, and recognition in the next newsletter**

**We need 20 volunteers**

Friday night table and display set-up

Parking lot flag wavers

Money handlers

Ticket dispensers

Ticket takers

Indoor helpers

Outdoor helpers

Repeater talk-in

Saturday tear-down

**Go-to Runners Using Nebulous Tactics on Saturday**

Contact [Swapfest@W9RH.org](mailto:Swapfest@W9RH.org)

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## **MRAC & M.A.A.R.S. SUMMER PICNIC**

Saturday, August 14, 2021

We ate food.  
We played radio: FT8, APRS.  
We tossed HTs.  
We had fun.

Pics will be posted on Facebook

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## **HAM RADIO BOOT CAMP**



**"Now that I've got my license, how do I get on the air?"**

**Ham Radio Bootcamp** from MRAC will answer that most asked question from newly licensed Technician Class and General Class amateur radio operators. Ham Radio Bootcamp is a daylong series of training presentations and workshops conducted by MRAC club experts.

**More Details Coming Soon...**

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## **HAMS HELPING HAMS**

When a Ham needs help, who you gonna call?

**We're Hams Helping Hams™**

Interested in amateur radio but need help getting a license? Contemplating a project but need some advice? Facing a challenge in the ham shack but need an additional perspective? Stuck with a project and need some insight? Been away for a few years and need a jump start?

“Elmers” participate in a rich tradition within the Amateur Radio hobby whereby seasoned, experienced hams offer assistance and share knowledge to newer hams getting their start, licensed hams re-entering the hobby after time away, or budding hams interested in achieving their Technician class license.

Hams Helping Hams™ is a seasoned group of Milwaukee Radio Amateurs’ Club members each offering a unique set of skills and expertise for assisting club members. Categories of expertise range from hands-on practical applications to advisory and counseling. We offer this service to our ham community as a give-back and thank you to the Elmers who helped give us our start in this multi-faceted and fascinating radio communications hobby many years ago.

The MRAC’s Hams Helping Hams™ program is designed for one-to-one assistance with meetings and dialogue taking place over the phone, via zoom, or in-person, as the need fits and both parties feel comfortable, especially during the COVID wind-down period. Hands-on demonstrations may be best conducted in-person whereas advisory topics may be more immediate via zoom or phone calls. Let your Elmer be your guide during this process.

Your Hams Helping Hams are club members Dean Berglund, Ted Carlson, Dave DeFebo, Pancho Doneis, Dave Schank, Dick Strassburger, and Dale Webler.

The services noted below are available to any member of the Milwaukee Radio Amateurs’ Club. Non-members should contact the Membership Committee regarding benefits or apply online for membership. Milwaukee and Waukesha County area high school students and younger may inquire about Tech Class License assistance without need for membership.

Antenna design	Noise reduction
Antenna raising	Operating skills
Building kits	Public service
Contesting	Em Comms
CW practice	RFI
Digital modes (FT8,etc.)	Satellites
Digital voice (Fusion, etc.)	SSTV/ATV
Direction finding (ADRF)	Station set-up
DXing	Tower raising
Grounding and bonding	Tech Class assistance
Logging software	

[When you need help, complete this request form.](#)

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## 2021 ACTIVITIES AND EVENTS CALENDAR

The MRAC continues to adjust its activities and events calendar for this year in response to the self-imposed safety limitations from the COVID-19 pandemic. Please continue to watch this e-newsletter, check the website, follow our Facebook page, and listen to our nets for more information.

MONTH	EVENT/ACTIVITY	DATE	STATUS
January			
February	FM Simplex Contest	Feb 28	On schedule
	Pottuck Dinner (Swapfest)		Cancelled Postponed til Aug 28
March			
April			
May	Auction	May 27	Live via Zoom
	<del>Tailgate Hamfest</del>		Cancelled
June	Field Day	June 26-27	Individual ops - same as last year
July			
August	Picnic	Aug 14	On schedule
	Swapfest	Aug 28	On schedule
September	<del>HRO Superfest</del>	Sept 25	Cancelled
October	Ham Radio Bootcamp	Oct 16	On schedule
	JOTA	Oct 16 - 18	Tbd
November			
December			

SAVE THE DATE:

Wisconsin Parks On The Air - Sept 18 (club activation details pending)

## ARISS UPDATE



# ARISS

Amateur Radio on the International Space Station

## MRAC ARISS PROJECT UPDATE

We are wrapping up circuit board assembly issues and plan to test the whole setup at our meeting next month. We are resuming our efforts to connect with schools that may wish to participate.

## OTHER ARISS NEWS

Though this event already occurred, we thought you'd enjoy reading about how ARISS is being implemented in other parts of the globe.

### **ARISS Contact is Scheduled with Students at**

#### **SpaceKids Global/Girl Scouts of Citrus, Winter Park, Florida, United States**

July 19, 2021—Amateur Radio on the International Space Station (ARISS) has received schedule confirmation for an ARISS radio contact with astronauts. ARISS is the group that puts together special amateur radio contacts between students around the globe and crew members with ham radio licenses on the International Space Station (ISS).

This was be a Multipoint Telebridge Contact via Amateur Radio between the ISS and students from **SpaceKids Global in Winter Park, FL, along with Girl Scouts working with Girl Scouts of Citrus**. Students will take turns asking their questions of ISS Astronaut Mark Vande Hei, amateur radio call sign KG5GNP, during the ARISS radio contact. English is the language expected to be used during the contact. The downlink frequency for this contact is 145.800 MHz and may be heard by listeners within the ISS footprint that encompasses the ARISS radio telebridge ground station.

The ARISS team in Casale Monferrato, Italy will use call sign IK1SLD to serve as the ARISS relay amateur radio ground station. Each student asking a question on the ARISS radio will be conferenced in from home or while being social-distanced at their facility.

The ARISS radio contact was scheduled for **July 21, 2021 at 1:47 pm EDT (Winter Park, FL) (17:47 UTC)**

SpaceKids Global partnered with Girl Scouts of Citrus Council to create the Making Space for Girls Program. This is a year-long STEAM-enrichment program for girls in grades K-12, teaches them about space exploration and communications and other various topics, with the intent of inspiring them to pursue STEAM careers. SpaceKids Global is hosting the ARISS contact in conjunction with this Program that provides virtual activities reaching over 600 students from 89 Girl Scout councils across 46 different states and countries. The curriculum aligns with the steps for Girl Scout badge requirements. During the weeks leading up to this ARISS contact, the Program included virtual activities about space technology, and amateur radio operations as well as hands-on activities revolving around electronics and technology. The Program also invited guest speakers in the fields of space exploration and space technologies, and included virtual courses in Space Science 101 and Humans in Space. The Program also launched online (summer of 2020) the Making Space for Girls STEAM Challenge and, as a result, hundreds of girls submitted their experiments, art design, or space-themed essay to the ISS. In collaboration with Challenge partner, ProXops, selected projects and items will launch in a Faraday Box to the ISS on a SpaceX flight in the Fall of 2021.

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## A VOLUNTEER SPEAKS UP

A volunteer is described as somebody who willingly gives their time for the common good

without any financial gain. Aside from the financial perspective of things, there are so many other benefits it can bring to both personal and social lives.

One of the biggest benefits from being a volunteer is that it's a great way of making new friends. It is a great way to meet new people and strengthen existing friendships. And doing things with people of common interests and activities. That's why we all enjoy going to our ham radio club's meetings. To share our experiences, ask questions, to watch a presentation or even to put on a demonstration. Doesn't it feel good when you can answer a question someone may have? It feels even better to be able to demonstrate something you really enjoy and share it with many others. It's so gratifying that I have been able to teach someone something they didn't know and to pass on to someone the knowledge so they too can enjoy our hobby of Ham radio a bit more. I'm very excited to be involved with the ARISS project. I am going to be involved with having a school group or a similar group and be able to actually talk to the astronauts on the ISS.

By volunteering, it gives you the opportunity to practice and develop your social skills. If you're meeting regularly with a group of people with similar interests as yourself, it's easier to become comfortable and use the skills you have learned. I've been able to help a few Hams get their station set up, help them program their HT, and get that wire up into the tree so they can get on the air. It is quite rewarding to know they will now be able to talk all around the world.

I also really enjoy setting up and tearing down the equipment during Field Day. The last couple of times, I helped MRAC at MATC South Campus. That really grabs me so to speak of Ham Radio. Interacting with other people, talking, explaining things, figuring out where to put up the antenna and set the canopies etc. Seeing it all come together is so satisfying and knowing all the fun that will happen during the Field Day event. The camaraderie and sitting around talking and enjoying some of the food that everyone brought as a dish to pass. Knowing that all the work I did to help put together the antennas and radios made it possible for our club to have a successful Field Day and make contacts all over the Country. It's also a good way to get more people interested in our hobby of Ham radio.

I enjoy giving back. I have learned so much from others that have put on demonstrations and from just our discussions at the meetings. I want to share some of this knowledge. We all volunteer for different reasons. Holding a position on the MRAC Board has so many rewards too. Discussing with like minded people the direction the club is going and putting forward the clubs activities so we all can have fun at what we do.

- Dean Berglund, KC9REN

Thank you, and to all our volunteers who make this club thrive.

There are many ways to volunteer like Dean.

Here are just a few:

Be an Elmer

Be a Net Control (2m, 10m, Fusion)

Help at Ham Radio Bootcamp (room facilitator, workshop mentor, counselor)

Help at the Swapfest (ticket taker, parking lot flag waver, repeater talk-in, vendor liaison, raffle ticket seller)

Membership Committee (hand out flyers, club rep at display table, phone caller, general helper)  
Marketing Committee (publicity, social media content, write and distribute flyers, newsletter writing)  
Program Committee (identify topics for membership meetings, contact speakers)

So, what interests you?  
Contact any Board member and you'll be put to good use. Or N9EEE@ARRL.net.

"Volunteer to volunteer."

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## **VOLUNTEER NEWS**

### **New Secretary**

Ted Carlson, N9KQQ, has volunteered to act as Secretary for the Club. Ted joined the Board of Directors earlier this Spring.

### **New Committee - New Chair**

Gregg Sperling, KB9E, has volunteered to act as Chair for the new Net Control Ops Committee. Gregg joined the Board of Directors earlier this Spring.

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## **MEMBERSHIP NEWS**

### **WELCOME BACK!**

KC9CMT  
Michael Harris

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## **MEMBERSHIP REFERRAL**

Do you know another Ham that would benefit from membership in the MRAC? Invite them to become a member and receive a \$5 credit toward your next year's membership fee. They must note your call sign as a referral on the application form. This is intended for new hams or Ops who haven't been an active member in the club for at least 5 years. Offer limited to 4 referrals per person/family membership per year. Help us grow our club.

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## MEMBER RESOURCES

### RF EXPOSURE SAFETY

The FCC has announced that rule changes, detailed in a lengthy 2019 Report and Order governing RF Exposure standards, went into effect on May 3, 2021. Visit the Resources page, [RF Exposure Safety](#), on our website to read the report, ARRL synopsis, RF safety links, and access the *RF Exposure and You* pamphlet from Ed Hare, W1RFI.

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### W9RH REPEATER USAGE GUIDELINES

The Board of Directors has released an updated, rewritten version of the [W9RH Repeater Usage Guidelines](#). These are commonsense guidelines that members would expect to be implemented on their repeater. Since we have a number of new hams and guests using the repeater, it was determined the guidelines should appear on the website.

Also, Fusion (C4FM & WIRES-X) Guidelines are a work-in-progress which will be reviewed at a near-future Board meeting and published shortly thereafter.

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### W9RH.org IS YOUR INFORMATION RESOURCE

Meetings, events, notices, and ham-related resources are added or updated almost daily.

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### NEW!!! FACEBOOK IS GETTING A FACELIFT

The W9RH Facebook Page is migrating to a Facebook Group, soon.

What this means to you is:

- ability to post original content (no need to ask for permission. It's granted)
- limited access to members only (safety feature for you and the group)
- upload or view ham radio-related files (find our Field Day location)
- create polls (wonder how many club members have mobile radios? Ask and find out)
- invite others to an operating event (going to a park? invite others to join you)
- save the group to a shortcut for quick access
- increased group activity in your timeline

- higher security

Watch for instructions on how to access the new MRAC Facebook Group, in future email announcements.

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## Did You Know?



Participating in Field Day is the #1 activity among all club members. Checking in to the weekly 2 meter net is the #2 activity, followed by ARES participation.

(source: MRAC Membership Survey, November 2020 - February 2021)

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## HOW YOU CAN PARTICIPATE IN CLUB HISTORY

Our club historian, Dave DeFebo, WB9BWP, maintains an extensive club history chronicling the 100+ years the MRAC has been a club with facts, pictures, and videos. While we have many documents of club business and activities, we have let a number of individual member's stories slip away. In an effort to change that for the future, we are starting a sub-project for the historical archives, that of individual member interviews. We see at least three different aspects to the project. One is a video interview conducted by someone asking the questions. Two could be a "self-interview" where a member produces their own video of themselves answering some questions. A third possibility is written comments based on a set of questions. Those comments would be compiled into one or more chapters of the MRAC History book. Everyone is welcome to participate. Here are the basic questions:

- 1 How did you get started in amateur radio?
2. How did you find/get started with MRAC?
3. How has amateur radio affected your personal life?
4. Did amateur radio have any effect on your professional life?
5. What is your most memorable amateur radio story?
6. Do you have any memorable MRAC stories?
7. What's next for you in amateur radio?

If you have any questions about this project, or how to provide your finished video, contact Dave at [WB9BWP@ARRL.net](mailto:WB9BWP@ARRL.net).

There may be group video sessions such as at the summer picnic and swapfest, so watch for that info. Thanks for your help in this project.

- Dave, WB9BWP.

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Zoom presentations are now uploaded to our YouTube channel, featuring:

- SSTV & ISS w/ Dean Berglund, KC9REN
- WIRES-X w/ John Kruk, N9UPC, Yaesu Nat'l Sales Manager
- Revealing the MRAC Repeater w/ Dave Schank, KA9WXN, MRAC Pres and Repeater Tech Guy (work in progress)

Watch a video, give us a "thumbs up," and subscribe to our YouTube channel to be alerted to new uploads. **Click on the logo above to access our videos.**

Soon, you will also access our YouTube channel from our website.

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## PUBLIC SERVICE OPPORTUNITY

Club member Roger Heindl, AC9BT, needs your help. He is creating a communications support team for Irish Fest. Even if you've never participated in public service communications, this is a great opportunity for club members to get involved. Not to mention, Public Service and Emergency Communications is the subject for our September meeting. What a great tie-in. See Roger's request below:

Irish Fest is seeking licensed amateur radio operators to assist with communications for their transportation system. The Milwaukee County Transit System is not providing shuttle transportation for this or any other event due to their labor shortage. Irish Fest has created their own shuttle service, but need communications support. Visit the [Irish Fest Communications Support](#) page for more information and sign-up.

Note: the Irish Fest Director is ham operator Mike Mitchell, K9SKP. How cool is that?

And by the way, Brian Jansen, KC9GMW, ARES Coordinator and participant in the Irish Fest Communications Support, is our guest speaker for the September meeting.

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## **NEW PRODUCT INSIDER**

### **PTRX-7300: Panadapter for the IC-7300**

The Icom IC-7300 is one of most popular HF rigs to hit the market in many years. While you're tuning around the bands it seems like 1 in 3 hams have one. Spectrum scope, digital filtering, and built-in sound card interface keep it one of best selling radios on the market.

As with any radio, we always want more. The Icom IC-7300 is no exception. The biggest wish is video output for a larger display. Unfortunately, Icom did not build that into the IC-7300.

Enter the Radio Analog PTRX-7300.

The PTRX-7300 quickly installs inside your IC-7300 and gives you an RF output that you can feed to a SDR radio. You can then run your SDR software and give yourself a large pan adapter on your computer screen without having to sacrifice the receive performance of your IC-7300.

The great part is that you will see the entire band on your SDR radio's software. For example, if your IC-7300 is tuned to 14.250, you will see 14.000 to 14.350 on your computer screen. You can also install Omnirig software and link certain SDR programs directly to your IC-7300. This will allow you to point and click on your computer screen and it will automatically set your IC-7300 to that frequency.

**THE ONLY TOOL YOU NEED FOR INSTALLATION IS A SIMPLE SCREWDRIVER!**

The hardest part of installation will be taking out the case screws of your IC-7300 and not losing them under your table. After you take off the cover, you will need to move a few RF taps and put your PTRX-7300 inside. You're probably looking at 10 minutes to install it. **NO SOLDERING!** You will also swap out your 4 pin tuner jack to the included custom jack that will accommodate your new RF tap and tuner plug. Again, no soldering. The unit comes with a cable that will allow you to continue using an external tuner.

After you reassemble the radio, you will now have a female SMA jack on the back of your IC-7300. You will then attach the included cable between your IC-7300 and SDR receiver. There is no additional hardware, like a T/R switch, necessary to make this setup work.

The PTRX-7300 is available at the two largest ham radio dealers in the states.

Link to manufacturer page - [PTRX-7300 – Radio Analog](#)

- Tom Pachner, W9TJP



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## MRAC VEC TESTING

Next Test Date: August 28, 2021

### MRAC VEC, INC.

The MRAC VEC is the local point for amateur radio license testing with exam sessions on the last Saturday of the month. Walk-ins are now accepted.

What to bring to the test session:

- A photo ID
- FRN (Federal Registration Number). You must register with the FCC to obtain your FRN number, in advance of the test session
- Photocopy of your original license
- \$5.00 to offset the cost of testing materials

For more information about testing requirements and other useful information, visit their website, [mracvec.org](http://mracvec.org).

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## OFFICERS and DIRECTORS

### Officers

President: Dave Schank, KA9WXN  
Vice President: Dick Strassburger, N9EEE  
Secretary: Ted Carlson, N9KQQ  
Treasurer: Joe Schwarz, N9UX

### Directors

Dean Berglund, KC9REN  
Ted Carlson, N9KQQ  
Tom Pachner, W9TJP  
Gregg Sperling: KB9E

### Trustee

Dave De Febo, WB9BWP

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## MEETINGS AND NETS

NOTICE: At present, no in-person meetings or activities have been planned in the first half of the year due to guidelines restricting group size and social distancing due to the current pandemic.

## MEETINGS

...are held the last Thursday of every month, except when holidays conflict. During the pandemic, we are offering a hybrid of a formal meeting and check-in at 7:00 pm on the club repeater, followed at 8:00 pm via zoom with a social program and occasional formal presentation.

### Meeting Dates:

August, 2021: (no meeting) See you at the picnic  
September 30, 2021: ARES and EmComms  
October 28, 2021: Understanding HF Digital Modes  
November 18, 2021: HOAs and Stealth Antennas  
December 30, 2021: tbd

## NETS

FM 2m Repeater: Fridays, 9:00 pm CT  
10m SSB: Fridays, 8:00 pm CT  
Fusion 2m Repeater: Saturdays, 7:00 pm CT

## REPEATER

145.390 MHz, -600 kHz, CTCSS 127.3 Hz

FM and C4FM (Fusion) modes - Auto Mode Select  
WIRES-X connected: Node ID: 33588 Room ID:43588

For more information about our repeater system, click [HERE](#).

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## CONTACT INFORMATION

EMAIL: [w9rh@arrl.net](mailto:w9rh@arrl.net)  
WEBSITE: [W9RH.org](http://W9RH.org)  
FACEBOOK: [facebook.com/MRAC.W9RH](https://facebook.com/MRAC.W9RH)



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**Our mailing address is:**

P.O. Box 26233  
Milwaukee, WI 53226

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