



THE RARA RAG

Newsletter of The Rochester Amateur Radio Association, Inc.
Founded in 1931

SEPTEMBER, 2021
VOLUME 74, ISSUE 1

INSIDE THIS ISSUE

MONTHLY PROGRAM	1
BOARDZ BUZZ	2
CALENDAR OF EVENTS	2
EDUCATION	3
PUBLIC SERVICE REPORT	4
HAM LINGO	5
PUMPKIN PATROL	6
MEMBERSHIP	7
ONLINE BUSINESS MEETING PROCEDURES	8
NOMINATING COMMITTEE LETTER	10
BIOGRAPHIES	11
VOLUNTEER SPOTLIGHT	14
A RADIO TELESCOPE	15
RIFA MADNESS	17
ANOTHER ONE FOR THE BOOKS	19
SSTV - ISS	19
FIELD DAY REPORT	20
PROFESSORS PIC(K)S	21
RAGS OF THE PAST	22
VE TEAM	24
ELMERS	24
RARA CALENDAR	25
NEWS FROM AREA CLUBS	26
AMATEUR'S CODE	28
RAG ARTICLE LAYOUT HINTS	29
HF GEAR FOR SALE	29
RARA OFFICERS	30
AREA CLUB CONTACTS	31
HAMFESTS	32

RARA ANNUAL MEETING - WEDNESDAY, 1 SEPTEMBER PRESENTATION: HF OUTSIDE THE HAM BANDS

BRIAN O'CONNOR, KA2CGB, RARA VICE PRESIDENT

The next RARA meeting, on 1 September, will be our annual business meeting. Your Board will present its annual report, and you – the membership -- will vote on Board members for the 2021-2022 year.

The business portion of the meeting will be followed by a (hopefully) informative presentation by yours truly.

Despite the growth of cellular phones and satellite communications, HF radio remains an essential resource for many individuals and organizations in their day to day operations. HF Outside the Ham Bands will review various groups who rely upon HF radio to provide mission-critical communications, day in and day out. Professional HF users include air traffic control, emergency management and humanitarian relief. Civilians in remote areas need to stay in touch with their neighbors and be able to contact emergency services. Military users employ HF in both strategic and tactical operations. Each of these user groups has its own set of requirements and needs its own system architecture.



After reviewing the operational requirements of various users, we will discuss the engineering of a professional HF network, including topics such as traffic flow, network topology, propagation, circuit performance analysis, and station design.

This presentation will draw upon my experience helping customers throughout the world implement complex communication systems from LF to 5 GHz, and with stations from QRP to 100 kW.

Hoping to see you then!



BOARDZ BUZZ

MIKE MOORE, KC2NM, TREASURER

I will soon complete my first year as RARA Treasurer. As is true in many ham radio pursuits, it has been a year of on-the-job training. I am extremely grateful for the work of my predecessor, Brian O'Connor, KA2CGB, who left me with a well organized system of accounts and has been available to me to give help when needed. In this month's Boardz Buzz I plan to explain a little bit about the role of club treasurer because it may be the best way for a member to learn about the operation of our club. I urge you to consider seeking to serve the club as its treasurer at some point in the future.

While it may appear that the treasurer of a nonprofit organization does nothing more than appear at the board meeting with the financial report in hand, many of the duties and responsibilities of a nonprofit treasurer happen behind the scenes. The treasurer is an officer of the board of directors. It's an important position because the board entrusts the treasurer to manage club funds in accordance with our non-profit goals.

RARA employs several tools to manage our club funds. I will list them briefly and then explain how they are used to provide a history of club operations. This history is used on a monthly and yearly basis to ensure that the club finances are on track and accurate. It can also be metric for consideration by the board of directors that the club is on the right track.

1. Quickbooks Pro is an accounting software package and it is used to track and report all club income and expenses and record these into account categories.
2. Online checking and savings accounts with both paper check and electronic transactions are used to receive income and pay expenses. These transactions are manually entered into Quickbooks.
3. The club Paypal account is used to receive most of the dues payments for the convenience of our members and to occasionally pay expenses. These transactions are manually entered into Quickbooks.
4. Member participation points are tracked by the membership chairperson. License Manual purchases and sales are tracked by the education coordinator. These transactions are manually entered into Quickbooks.

At any given time, the financial picture is available to the treasurer in the Quickbooks system. On a monthly basis the financial reports produced by Quickbooks are reviewed by the whole board of directors for approval. At the annual meeting, there is a yearly presentation of the year end report submitted for approval by the membership. The following reports are provided for review.

1. The Profit and Loss report lists, by category, all of the income and expenses for the period.
2. The Balance Sheet report lists the current balance in each of the tracked accounts.

3. The Reconciliation Report shows the balances for each of the tools listed above and shows that the statement balance matches the Quickbook balance for that tool. This ensures the accuracy of the reports.
4. The Treasurers Notes report is used to disclose items that are not obvious from the statements. An example would be earned but as yet unpaid interest.
5. The Transaction Report shows all of the transactions that make up the Profit and Loss statement and this is a record that may be used to answer questions about how items were recorded.

All of the above reports are rolled up into a single pdf and distributed to the board members for review prior to the meeting. Due to the limitations imposed by Covid 19 there have not been duties related to the Annual RARA Auction and Rochester Hamfest. In this Boardz Buzz I wanted to give the membership a glimpse into the role of Treasurer. I look forward to a time when there is a return to in-person participation and we can experience full operation as a club!

CALENDAR OF EVENTS

WEDNESDAY SEPTEMBER 1, 2021 - RARA General Meeting
7:00 PM - ON LINE

<https://attendee.gotowebinar.com/register/8556569229139565839>

THURSDAY SEPTEMBER 2, 2021 - RARA Board of Directors Meeting
6:30PM ON LINE

Email request for link to secretary@rochesterham.org



EDUCATION

RARA LICENSE COURSES

Karl Heinz Kremer, K5KHK, License Class Coordinator

Most of this is a repeat of last month, we are taking the summer off, so not much has changed. There are some changes to the RARA Academy section at the very end.

We are approaching the fall season, and that means that the license classes are starting up again. For this fall, we can offer two classes, and both will be online again, using the Zoom platform.

Technician License Class

This class will begin on Tuesday September 14th, and will run from 6pm to about 8pm for ten weeks (sometimes it goes a bit longer, other weeks we finish early). The instructor for this class will be Karl Heinz Kremer – K5KHK, and the teaching assistant will be Susan Aiello – W2SBA.

General License Class

This class will begin on Thursday, September 16th and will run for ten weeks. The sessions will start at 6:30pm. The instructor will be Freddie Sulyma - WB2GFZ.

The Zoom links will be sent to the registered participants the week before classes start.

Both of these classes are offered free to RARA members. We used to charge \$15 for non-members, but without in-person classes, that is complicated. A membership is also \$15, so for somebody interested in taking the class, that does not make any difference, but we do have a system in place to collect

membership fees online. Registration for both classes is required. If you are interested, please send an email to education@rochesterham.org

We are in the last year of the current Technician License test, it will change next July. So if you have the current Technician License Manual, and somebody in your family is interested in becoming a ham, now is the time to do it. Next year you will have to buy a new book.

If you are studying for the Amateur Extra license, and run into problems, please get in touch with our Elmers. We want you to succeed, and we will try to help you as much as we can.

License manuals are available for \$25.

RARA ELMERS CORNER

Suzanne Bishopp, W2SUZ

Rich Bishopp, KD2UBJ

Elmers Corner Coordinators

I hope everyone is enjoying their summer! Rich and I are activating a POTA, Parks On The Air, every time we go camping, which is quite frequently. We are also planning on activating our first SOTA, Summits On The Air soon!

If you need help with something, or advice on anything, please let us know!!! We'll get you in contact with the right Elmer.

We would like to know what topics you would like to talk about during our Elmers Corner. Topics for newbies to the hobby, or topics of interest for the seasoned hams. Send us a note at Elmerscorner@rochesterham.org so we can start setting up a fall lineup which will startup in October.

We will continue with the Zoom meetings on the first Saturday of every month – starting on October 2nd, and hopefully get back to the face-to-face Elmering at the monthly meetings.

We do go off grid for a few days at a time throughout the year but we check in as much as signal coverage allows. See you soon! 73

RARA ACADEMY WORKSHOPS

We are looking for somebody to coordinate our RARA Academy sessions. If you are a happy participant of any previous sessions (either as a presenter, or as an attendee), and you want these sessions to continue, please consider volunteering your time.

The RARA Academy coordinator's responsibility is to pick a topic (hopefully with the help of our membership, by consulting the list of previous successful sessions, and by listening to what skills and techniques our members can talk about), to pick a venue (again, we have a list of previously used venues that will

be helpful in moving the sessions around the county), and to advertise the session. If you like organizing things, this would be a great role for you. You do not have to bring technical skills to the job, we don't expect you to be presenting.

Having said that, here is an appeal to our general membership:

Please let us know what you are interested in. Do you have any ideas for new sessions? Should any of the sessions we had over the last few years be revisited (either because you missed it, or because you want more or different topics to be covered)? You can find out what sessions we ran in the past by going to the RARA Academy page on the RARA web site: https://rochesterham.org/rara_academy.htm - this list goes back to 2018, plus one session from 2014. Is there something you've always wanted to learn, but never got over that initial learning curve speed bump? Here is your chance – just let us know: education@rochesterham.org

Do you have experience in a certain field that our membership would benefit from? Please also get in touch with us, we would love to have you present at an upcoming RARA Academy session. If you have an idea but are afraid that you cannot fill a whole session, we can team you up with somebody else. Just talk to us and let us know what you can offer.

Did you already present at an Academy session? Please consider doing it again, either by refining what you've done before and adding more in-depth information, or by talking about something different.

MORSE CODE TRAINING

The RXCW Group assists Hams wanting to learn Morse Code or to develop their CW skills.

BEGINNERS MORSE CODE ZOOM CLASSES

Peter Fournia, W2SKY, hosts Morse Code classes on Thursday evenings 7pm. No experience required.

Join the group at any session.

Register at: pfournia@gmail.com

MORSE PRACTICE FOR ALL LEVELS ON ZOOM

Tim Brown, WB2PAY, hosts code practice for all levels on Wednesday evenings at 7pm.

Register at: tjbrown@rochester.rr.com

MORSE PRACTICE ON AIR

W1AW - <http://www.arrl.org/w1aw-operating-schedule>

RXCWG - Tuesday 4pm 50.250 MHz

To set up a cw sked, contact
Peter at pfournia@gmail.com or
Tim at tjbrown@rochester.rr.com

PUBLIC SERVICE REPORT

MIKE MOORE, KC2NM, PUBLIC SERVICE COORDINATOR

After the deadline for the August Rag we received an updated request from the MS Society for help with their August 21 MS Roc the ride Great Lakes Experience. This bike ride was located in Orleans and Niagara Counties and we reached out to the Orleans County Amateur Radio Club and the Lockport Amateur Radio Club for information and use of their repeaters and any other participation they could offer. Chuck, NR2C, Orleans County ARA Vice President and Mike, KB2TRU, L.A.R.A President were extremely helpful in providing information and access to repeaters used to cover the route. The RARA command center was set up in the picnic pavilion in the Lakeside Beach State Park with communications support provided by a coalition of amateur groups. There were 3 routes (62.5, 25, 18 miles) but they all shared the same roads for the most part. The route map may be viewed at the following link.

<https://www.google.com/maps/d/u/0/edit?mid=1VLdB6tSZdlQ4tdClz9sz3J63Jux2u8M9&usp=sharing>



We have had a good turnout of volunteers as follows: K6WMH, K9SUB, KA2CGB, KB1POP, KC2NM, KD2KOS, KD2SSH, KD2UJC, N2IUO, N2JAC, N2MAK, W2COP, W2IT, and WA2HNY. There were 90 riders split among the 3 courses. We served the courses with SAG and Sweep Drivers and provided communications at 2 of the 3 Rest Stops. This was a successful event with good weather and no injuries.

The Annual Fairport Lift Bridge Regatta is scheduled for Saturday, September 25, 2021, at the Fairport Crew Club Boathouse, located on the Erie Canal near the bridge on Route 31F (Fairport Road). Racing will begin at 8 a.m. and end about 3 p.m.



Mark, KC2UES has had a good response from recruits to the communications team. I always enjoy the Fairport Liftbridge Regatta because it is a very family friendly activity with the opportunity to see the youth of our community working hard to compete and win. Because of the limited size of the race course area, this event is perfect for hams that are limited to a handheld for operation. Much of the operation will be on simplex with the 146.61 and 146.925 repeaters when needed.

If you'd like to volunteer, please go to RARA's public service page and look for the link labeled Fairport Lift Bridge Regatta. Click to the right of the description and this will open a registration form. Thank you to the past volunteers and I look forward to welcoming you back this year, along with all who'd like to participate in this year's annual regatta.

For more information or to register to participate go to our Public Service page at https://rochesterham.org/public_service.htm or contact Mark Pedersen mpeder21@gmail.com.

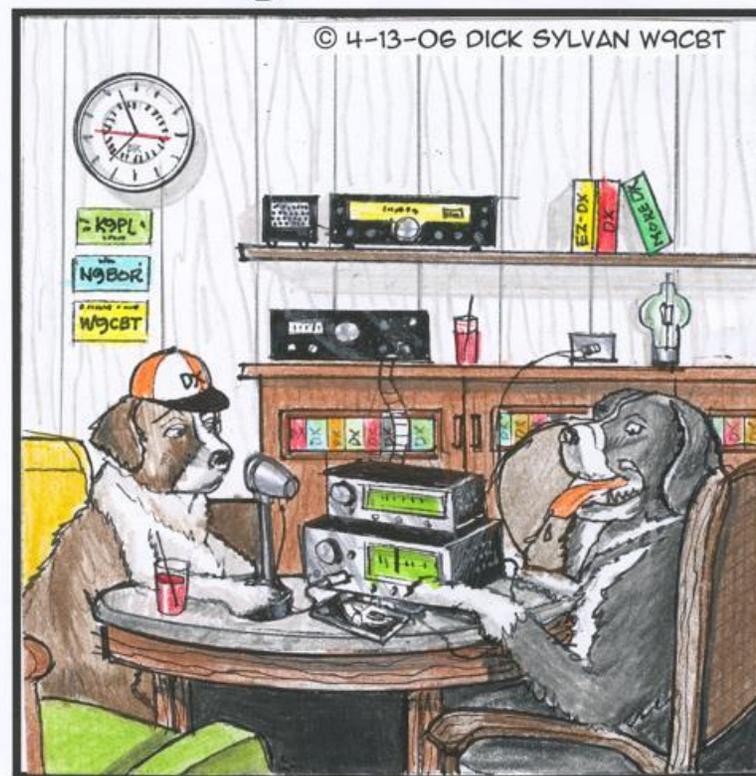


Our Pumpkin Patrol event captain, Ed Wilkonski K1EM is making preparations for this year's event. We will again monitor the 16 bridges crossing the New York State Thruway located in Monroe County. The dates for this event are Saturday Oct. 30 and Sunday Oct. 31. It provides an excellent training opportunity to learn how a directed net operates. This event is our longest running Public Service event and is in need of additional volunteers. Ed Wilkonski has written a supplemental Rag article for recruitment. I urge you to read Ed's article and consider joining us for this event. For more information or to register to participate see our Public Service page at https://rochesterham.org/public_service.htm or contact Ed Wilkonski wingstwofly@rochester.rr.com.

I will continue to track these events and report any updates that I learn about. For up to date information about all of our Public Service events take a look at our RARA website https://www.rochesterham.org/public_service.

Ham Lingo

"DX HOUNDS"



TWO DX HOUNDS TEAM UP TO OPERATE IN
A MULTI-OP/MULTI-MODE DX CONTEST

Dick Sylvan, W9CBT, is a very accomplished ham radio cartoonist and his work appeared previously in the K9YA Telegraph and also appears in the NAQCC Newsletters. His book "HI - HI - A Collection of Ham Radio Cartoons" is available at www.lulu.com

Please mark your calendars for our upcoming RARA Public Service Events

Fairport Lift Bridge Regatta	Erie Canal – Fairport, NY	Saturday	Sept. 25, 2021
Ham Radio Demonstration - CTC	Camp Babcock Hovey	Saturday	Oct. 23, 2021
Pumpkin Patrol	Overpasses of the New York State Thruway	Saturday & Sunday	Oct. 30-31, 2021
Holiday Science & Technology Days	Rochester Museum & Science Center	Monday - Wednesday	Dec. 27-29, 2021

PUMPKIN PATROL VOLUNTEERS NEEDED

EDWARD WILKONSKI, K1EM

RARA has a long history of providing Public Service, in the form of Pumpkin Patrol, to the New York State Troopers, Monroe County Sheriff, local police and the driving public each Halloween Eve and Halloween night. Through the dedicated service of our twenty-six volunteers, we have covered the sixteen Thruway overpasses in the County along with some goodies handed out throughout the two evenings.

This year some of our veteran Volunteers have decided to retire and that creates some gaps and opportunities for some of our younger members to fill.

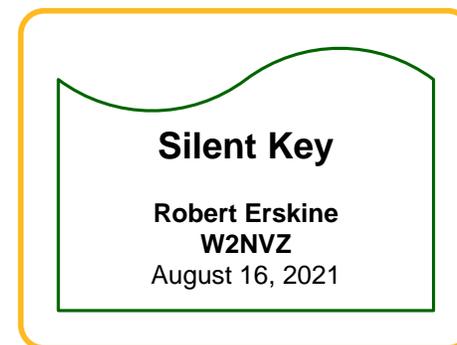
I know that Amateur Radio has some aspects that appeal to some and not to others and that is the beauty of the hobby. However, look at it this way. We are starting to live in uncertain times, especially concerning the weather, and never know when our skills will be called upon to assist in a natural disaster. What better time to get your feet wet, by participating in a "Controlled Net?"

I am looking for a few volunteers. You can come alone or bring someone to share the time and experience, as some of our existing volunteers do.

Four hours of surveillance might seem like a boring time, and hopefully there isn't some mischievousness to upset that, but if it achieves our purpose of protecting the public, even if for only two nights, I believe the investment in time is worth it.

Please give it some consideration and contact me, if you are interested.

wingstwofly@rochester.rr.com



Membership – Time to Renew!

- Currently nearly 550 members
- Sixth largest ARRL affiliated club
- Renew or join now at:
<https://www.rochesterham.org/>
- If you have a problem renewing, please email us at:
membership@rochesterham.org



RARA MEMBERSHIP

TIM BARRETT, K9VB. RARA PRESIDENT AND MEMBERSHIP SECRETARY
membership@rochesterham.org

I'm pleased to report that club membership is in a very good position with currently 546 fully paid-up members and that number is still growing.

Having a strong membership is a great help in attracting good speakers and negotiating resources for the club. I will be shortly writing to the ARRL to report our club size as required for all ARRL affiliated clubs. Currently we are in the top 6 of national ARRL affiliated clubs according to ARRL statistics which is quite an achievement. Being part of such a large and successful club should be a source of pride to all our members.

On September 30th our membership year ends and so we are now back into

renewals season. Some of you have already renewed for the 2021 / 2022 season, thanks for doing that so promptly.

If you have not renewed yet please take a moment now to go to the [renewals page](#) and get your membership up to date. If you don't recall your access code there is an option on that page to have it emailed to you. You can pay by credit card (you do not need a Paypal account) or there is an option to pay by mailing a check. Those of you reading this who are not members, or have allowed membership to lapse a while ago, please consider joining / rejoining [here](#).

Annual rates are very reasonable, \$15 for a full member (\$10 for Seniors) and \$10 for Associate members without a callsign. Associates get a free upgrade to full member when they get their ticket. Also note that you can join family members living in the same household as you for just \$5 per additional person.

Don't Delay, Renew Today!

PROCEDURE FOR THE ON-LINE RARA ANNUAL BUSINESS MEETING

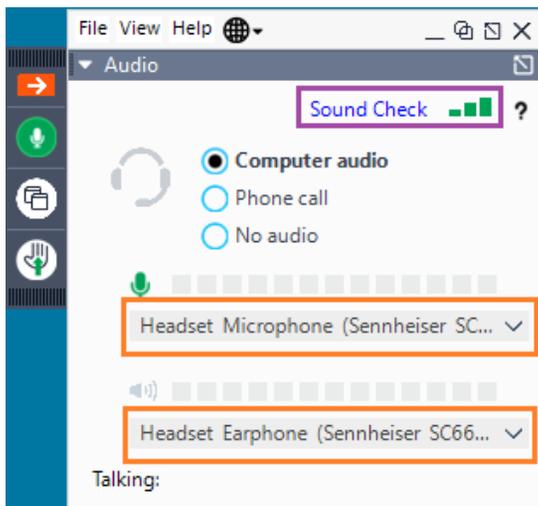
Hello,
We wanted to provide some extra information so that you'd know what to expect at this year's on-line business meeting.

While attendees are encouraged to speak during the meeting, it will not be required to participate. You will however want to be sure that you can hear the various presenters.



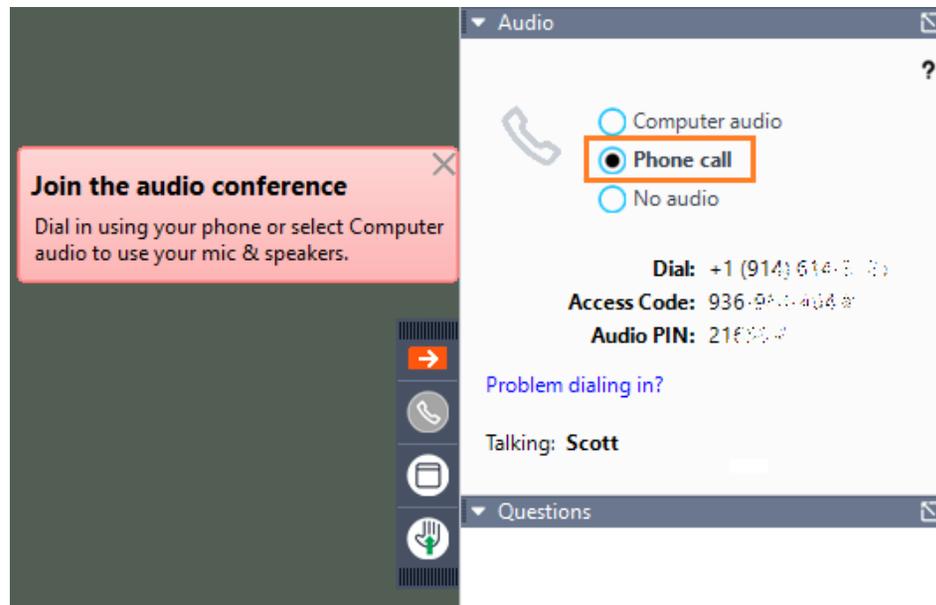
When you first join the meeting, you may be presented with just this small control panel.

To see the rest of the features, click the red/orange arrow at the top to expand the panel.



Once expanded, make sure that you have the audio device you want to use selected. (See orange boxes) If you're having trouble, select the sound check (purple box) and you'll be presented with additional audio options.

In the event that you still have trouble, select the phone call button and you'll be presented with a phone number, access code, and PIN so that you can dial-in to hear the audio. Please be sure to enter the both the access code and PIN as this is how the system associates your phone with your web-connection.



We will complete the business meeting before moving on to elements of our regular meeting. The business meeting agenda is:

- Count of Members
- Approve 2020 Minutes
- Election
- Dues
- Treasurer's Report
- Close

Each of these items will have a survey question in the webinar. They will look like this.

QUICKPOLL

Accept the slate of director and officer nominations as presented ... *(We will insert the list from the committee for the meeting)*

Please select one:

- Yes
- No
- Abstain
- Not a Member

Submit

If you are not a member, please select "Not a member". This helps with the live calculation of the votes.

Polls will be held open for 60-90 seconds to allow you to respond.

Once you select an option and click submit, you will see your selected option and the submit button will change to text.

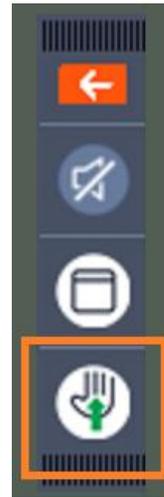
presented ... *(We will insert the list from the committee for the meeting)*

Please select one:

- Yes
- No
- Abstain
- Not a Member

Your poll answers have been submitted.

If you have trouble or need to speak at any time during the meeting, please use the raise hand button in the control panel and we will unmute you.



You can also type in the questions field in the attendee panel.

Questions

[Enter a question for staff]

Send

If you have questions about the business meeting, please contact president@rochesterham.org and I'll work with the board to make sure we get you an answer.

ROCHESTER AMATEUR RADIO ASSOCIATION

NOMINATING COMMITTEE LETTER

15 August 2021

Mr. Karl Heinz Kremer, K5KHK
Secretary, Rochester Amateur Radio Association
PO Box 93333
Rochester, NY 14692-8333

Dear Karl Heinz and Members of RARA:

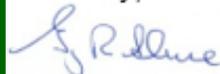
On behalf of the members of the RARA Nominating Committee, Don Kiser, AC2EV, Mark Pederson, KC2EUS and myself, I am pleased to place the following names in nomination as Officers and Directors of the corporation for the 2021-2022 term.

President: Tim Barrett, K9VB
Vice President: Scott Theis, W2LW
Secretary: Karl Heinz Kremer, K5KHK
Treasurer: Mike Moore, KC2NM

Dave Enright, K3WHD
Tim Guyot, KB1POP
Brian O'Connor, KA2CGB
Paul Conaway, KD2DO
Mark Kennerknecht, N2MAK

This completes the work of the Nominating Committee. I want to thank the members who have accepted their nominations and thereby volunteered to assume stewardship of our club for the coming year.

Sincerely,



Gary R. Skuse, KA1NJL
Chairman, 2021-2022 Nominating Committee
Rochester Amateur Radio Association, Inc.

BIOGRAPHIES OF CANDIDATES FOR OFFICERS AND BOARD OF DIRECTORS OF THE ROCHESTER AMATEUR RADIO ASSOCIATION

TIM BARRETT, K9VB CANDIDATE FOR PRESIDENT

Born and raised in the UK, I have lived in the Rochester area since 2004. I have had a lifelong interest in radio and electronics, first becoming licensed in the UK as G7NYA in 1987 and later as M0TIM. On moving to the US one of my first actions was to get my Extra ticket and become a member of RARA (Life member since 2006). My interests are HF and restoring or repairing old test equipment, but I am mainly interested in the technical / theoretical side of the hobby.



We are fortunate to have such a great club in the Rochester area and I believe that the progress we have made recently in moving the club forward is a benefit to the Rochester area amateur radio community. I have served as Membership Secretary for the past seven years and been on the Board of Directors for six years including this past year as president.

I am pleased with the way the board have been able to move the club forward in the past year despite the challenges we have met. Membership is in good standing, the club continues to be active, our general meetings and Academy / Elmer sessions have adapted well to online presentations. If elected, I intend to carry forward the progress we have made in the past year as we hopefully make the transition from purely online presence to combined online and physical meetings.

SCOTT THEIS, W2LW CANDIDATE FOR VICE PRESIDENT

I am an Extra Class amateur and Director of RARA. In the last four years I have served first as a member of the Board of Directors for RARA, and then as Vice President, then as a director, RARA Academy co-manager/instructor and club webmaster. I hope to continue help the club by returning to the role of Vice President and continuing to serve as Webmaster. My primary goal is to support amateur radio through club activities in education, web development and operating opportunities.



In the last year it has been wonderful to be able to help and participate in both club and operating activities even though we have had to manage the club through the continuing COVID risks and restrictions. My goal is to help RaRa continue to support hams and our hobby in the Rochester area.

I have been working with electronics from a very young age (playing with lights and batteries at the age of four). As I grew up, I quickly realized there was a wealth of goodies in the electronics that adults would throw out. One of my early radio projects (today referred to as a hack) was building a transmitter from a conventional AM five-tube radio. I collected equipment while learning and building as much as possible with radio and TV. This included improving the front end of various TV receivers to further my fledgling DX hobby receiving UHF stations in Iowa and Wisconsin from my home in Minneapolis. By the way, I had no idea what atmospheric ducting was at the time.

At the end of the 60s, my father introduced me to transistor logic and 7400 series ICs. The computer became the next area of interest and, in fact, from mostly my father's design, I built a working 16-bit computer strictly from 7400 series TTL devices. This was right as the Intel 8080 was released.

While I have only recently been minted as a ham, I have been listening, building and playing since I was a child (I still have my 1974 ARRL Handbook).

In real life (where you make a living), I work as a Software Developer and Business Manager for a local software company that develops, sells, and supports products worldwide to help public corporations, mutual funds, energy sector companies create and file documents to the U.S. Securities and Exchange Commission and Federal Energy Regulatory Commission. In addition, I serve as the Chair for the XBRL US Domain Steering Committee supporting the adoption of structure business data using XBRL throughout the United States. I have been working with the analysis and processing of text, HTML, SGML and XML for the past 30 years which has led me into the development and support of GUI interfaces, communication protocols and internet functionality. Prior to that, I worked with hardware and software for data stream processing. I have also developed a couple of assemblers as well as several script languages.

KARL HEINZ KREMER, K5KHK CANDIDATE FOR SECRETARY

Two first names, and no middle name – my friends call me Karl Heinz.

Born and raised in Germany. From a young age on, I was fascinated by all things electrical. I started to take things apart that others were throwing out (TV sets, radios, anything with an electric motor I could get my hands on and so on). Eventually, I started to put those parts that I crudely took out of stuff back together to build other stuff. That got me on the path to become an electrical engineer. My first



job after graduation was as a software engineer, and I never actually worked as an electrical engineer.

I worked for Kodak in Germany, and they moved me to Rochester - twice. In '94 I got my Tech+ license as N2XRQ . I made a few 5WPM contacts and then job and life had different plans for me and I put the radio away for more than 20 years. A couple of years ago, I took my radio out of storage, upgraded to Extra (now as K5KHK) loaded up my rain gutters and played around with digital weak signal modes. I've always enjoyed homebrewing (the electronic kind, but I've brewed beer a couple of times as well).

When I got elected to the RARA board two years ago, I said that I would like to be a champion for new hams. I've been active in the club's "Elmer's Corner" (while we were able to actually have it until the pandemic hit), participated in RARA Academies, and help out wherever I can to help get people on the air. Recently, I took over as Education Coordinator, and this fall, I am teaching the Tech class again. I am currently serving as the club's secretary.

MIKE MOORE, KC2NM
CANDIDATE FOR TREASURER

I was licensed in 1967 as WN8ZPY in southern Ohio. The Heath company served me well by introducing the HW-16 and then HW-100 transceivers for my ham radio progression. In those days, I assembled a half dozen kit radios. I moved to Rochester in 1976 following completion of a BSEE degree at the University of Cincinnati. In Rochester I worked at Xerox earning an MSEE degree from RIT. For most of my career I worked in my own business developing software for assembly and test equipment. My current ham radio interests include APRS, Allstar, DSTAR, and DMR. DSTAR operations include REF009C with a daily QSO with my brother, Bob AL7MH and on W2RIT-B. I can often be found on my hotspot KC2NM-B or W2RIT-B. I retired from Excelis (now Harris) as a Test Engineer in 2016 and in addition to Ham Radio, my interests are in boating, biking, cooking, scouting activities and playing with my 5 grandchildren. I am involved in project work at St. Louis Church Pittsford where I have streamed daily Mass during the pandemic. I serve as Treasurer, Public Service Coordinator, and Hamfest Committee member at RARA.



DAVID ENRIGHT, K3WHD
CANDIDATE FOR BOARD OF DIRECTORS

I have been with the club for 3 years now and on the board for 2 years. I have enjoyed and learned a lot in this short time and like helping others when I can. I have gotten into FT8 with the poor band conditions big time for right now. Have built a few antennas and enjoy getting to work on the different bands. With some time on my hands and before COVID-19 hit hard, I was able to pass my EXTRA exam,



now I can help even more on the VE team. I'm running again to be a member of the board.

TIM GUYOT, KB1POP
CANDIDATE FOR BOARD OF DIRECTORS

I got into amateur radio during college at RIT in 2007. Thanks to Dave Snyder (KC2REO) and Jim Stefano (W2COP) I had a variety of experiences with the club station, K2GXT, and public service. I enjoyed working on antennas on the roof of the Student Alumni Union, and learning about repeaters in the shack on Ellingson. Public service gave me practical experience helping others and working on directed nets. I earned my general-class license in 2008, but didn't get into HF until 2018.



If elected, this will be my sixth year serving on the board. I've served as Secretary, VP, two years as President, and most recently as a Director. I've also been heavily involved in producing the last three Hamfests. As a director I will continue to work on the hamfest as well as our various club events, especially those that involve operating. I look forward to the opportunity to serve another year.

BRIAN O'CONNOR, KA2CGB
CANDIDATE FOR BOARD OF DIRECTORS

My father grew up during the Golden Age of radio, and was a businessman with Bendix, Zenith and Westinghouse. He taught me about the contributions of Marconi, Tesla and Armstrong. I credit him for my early interest in electronic technology: my Dad was my first Elmer.



While first licensed in 1978, I was not very active in the hobby while working with radios but became more involved following retirement. Upgraded to Extra in 2016. My modest shack has all-mode capability from 80m to 70cm. Member of AARL, RARA, RDXA and RVHFG.

It has been an honor to serve the Club alongside the other members of your Board since January 2017.

I have also been serving as custodian of Club-owned radios and accessories and have handled equipment donations to the Club and have helped manage equipment sales at recent hamfests and auctions. (The Club still has a lot of good stuff for the next Auction!)

Retired from Harris RF Communications after 30+ years. Early on I worked with analog and digital circuits and wrote quite a bit of embedded software. But the bulk of my career was helping customers implement communications systems from 100 kHz to 5 GHz with stations from QRP to 100 kW. My experience in-

cludes HF antennas from dipoles to mag-loops to rhombics and stacked log-periodic arrays. To be close to customers, my family and I lived in Europe for two years and in the Middle East for 10 years. Now empty-nesters, XYL Marion & I live in Perinton.

I like testing things such as radios, antennas and filters, and have been getting more involved in operating events such as Field Day and the New York QSO Party (NYQP). Outside of radio, I tinker with an old Fiat X-1/9 and follow Formula 1 auto racing.

PAUL CONAWAY, KD2DO
CANDIDATE FOR BOARD OF DIRECTORS

I became a technician, WA7MKV, in '68 in Laramie Wyoming, where I attended the University of Wyoming and graduated as an Electrical Engineer. Here I spent some time climbing mountains from the inside. Upgraded to advanced while in the Coast Guard in NYC. Born and raised in the wide open and windy spaces of Wyoming. Have lived in Guam where I learned to scuba dive, and in Juneau where I learned to Square Dance, and in Vermont where I learned how to get married, and in Phoenix where I learned how to become a father. Finally settled down in Rochester NY where I changed to the KD2DO call. Now with 5 acres, lots of tall walnut and pine trees, and a long spool of aluminum electric fence wire, I put up a horizontal loop antenna. Feeding it with ladder line, it tunes up on everything from 160 thru 6 meters. A true all-band antenna! Then in Nov 2011 I upgraded to Extra just so I don't have to worry so much about band edges.



I would love to see if a fractal antenna can be made for HF. I am part of AF-MARS as AFA2DO and I help support the mars station at the 174th air wing of the ANG in Syracuse. I love digital modes. Join the NY-NBEMS net on Saturday 08:00 AM on 3.5854 using Thor-22, Olivia-8-500, or whatever else we might choose, centered at 1500 Hz

I was president of a club station at Lockheed Martin in Syracuse W2LMC. We put up an horizontal loop antenna there too. See their QRZ page. Our charter there was centered around "emergency communications" so I am learning all about Emergency Planning as more than a field day exercise.

I have joined the Rochester Amateur Radio Association (RARA) and the local ARES / RACES group. In the earlier years I spent 4 years in the US Coast Guard (1971 - 1975). I served at: the Electronics engineering center in Wildwood NJ, The training center on Governors Island in NYC, the cutter Plaintree in Juneau Alaska, and the cutter Mallow in Guam. Besides all manner of radio I became pretty good at several kinds of radar and IFF gear.

In civilian life as an electrical engineer I have designed circuits for digital telephone switching and programmed using Forth to control high speed machine

vision. Kodak had me for many years where I helped develop the first professional digital cameras and watched as the price for them dropped from \$20k to \$500. Using LabVIEW, I made software to control and test everything from those digital cameras to optics and various mechanical things. Then helped do the closed loop control for the adaptive optics on a mirror for the Large Synoptic Survey Telescope (LSST), now on a mountain in Chile.

Now I am Building Manager for the Town Parks and Recreation center. I spend spare time learning Python. Will soon be installing a Winlink RMS for Rochester. I do most digital modes (except FT8) and run the NY NMEMS net on Saturday mornings. I am in Air Force MARS and am a part of the base support team for the most active, best equipped MARS station in the Northeast.

MIKE KENNERKNECHT, N2MAK
CANDIDATE FOR BOARD OF DIRECTORS

I am a new ham who was drawn to amateur radio from my interests in emergency preparedness and communications. I studied on my own to get my Technician license in 2020 and, at the time, I thought that would be it for me. But I quickly learned there is so much more to amateur radio and I found a supportive local ham community that encouraged me to continue my studies.



I went on to earn my General license in January and my Amateur Extra license in February 2021. My oldest son, Ben (11 years old), took interest and got his Technician license in March, thanks to the RARA class, and then upgraded to General in July. After getting my first HF station in March, I've really taken to Parks on the Air (POTA). I've recently been interested in building antennas and I'm looking forward to trying and learning new things, like satellites and digital modes.

I am originally from the Utica area and I lived in Binghamton for about a decade after college, where I served as Chief of Staff to New York State Assemblywoman Donna Lupardo. My wife—a native of Rochester—and I moved to be closer to family and we live in West Henrietta with our 2 sons, Ben (11) and Jake (7). I am the Economic Development Coordinator and Assistant Director of State Relations for the University of Rochester. I have a B.A. in Political Science from SUNY Cortland and a Masters in Public Administration from Binghamton University.

RARA VOLUNTEER SPOTLIGHT

SUSAN AIELLO, W2SBA

The Bishopps, Suzanne W2SUZ and Rich KD2UBJ, are two of the newest RARA volunteers. They are also new to the club, joining during the pandemic and are looking forward to the day when they can attend their first in-person meeting! Here's a little bit about the Bishopps and how they landed as RARA's new Elmer's Corner coordinator team ☺



How did you first get involved in with Ham Radio and with RARA?

Rich was first introduced to amateur radio in college- actually shortwave- listening from Morrisville all the way to Prague! Rich was definitely intrigued, but school, life, work and family took precedence and further exploration went on the back burner. Rich's work as a firefighter intersected with Tim Brown's - W2PAY- work as a paramedic on the safety team at Kodak. With encouragement from Tim, Rich's interest in the hobby was renewed. With more free time, Rich dove in, earning his Amateur Extra last fall. Rich credits Tim as his first Elmer (as many of us do!).

Suzanne had plenty of opportunity to see the hobby unfold as her husband dove in, and while it wasn't necessarily her 'thing' she decided to sign up for the RARA Technician's License class taught by K5KHK. Suzanne describes being lost up until about chapter 6, when things started to click, and then the magic happened: she learned about the Parks on the Air POTA Program. This was the perfect marriage of their love of the outdoors, camping and adventure! Su-

zanne earned her Technician and General on the same day, cramming for the General so she could get out and activate parks on their next camping trip!

How did you get involved as the RARA ELMERS CORNER COORDINATORS? Both Rich and Suzanne have a long history of volunteering with scouts for 20 + years and other organizations as well. The Elmer's Corner gig seemed like the right opportunity to engage with the Ham radio community, with some 'light encouragement' from RARA folks ☺

They are excited to keep the Corner going, hopefully moving from the online venue to in-person later this year. They will get to know the RARA Elmers, facilitate connections and continue learning themselves.

Do you have an anecdote or story about amateur radio?

On a recent POTA activation, a contact asked what their conditions were. Suzanne eagerly responded, describing how lovely the park was and the weather... but the real question was about the radio rig, gear and propagation, lol!

What do your friends and family think of your ham radio hobby?

The Bishopp's friends range from polite to curious, some are impressed with their devotion to the outdoors; they camp year-round, in all sorts of conditions, trailing their tear-drop camper. One of Suzanne's coworkers' sister recently got licensed!

What other interests/hobbies do you have?

Camping in the great outdoors is a passion for the Bishopps, and Rich also has a love of birdwatching which started in college at Morrisville: yet another great intersection with Amateur Radio and POTA. Suzanne has a love-hate relationship with deer; loving their presence in the wild and always seeking tricks to keep them from dining in her garden; a never-ending challenge!

Never one's to sit back, next up is learning Morse code!

What would you tell someone who is thinking about volunteering?

Coming from volunteering families, and their own experiences with scouts and others, Rich and Suzanne know that organizations like RARA can't exist without volunteers. They look forward to all the rewards of volunteering- meeting new people, learning something new and feeling good about supporting the organization.

Welcome and thank you to the Bishopps! We look forward to our first Elmer's Corner of the season in October!

A RADIO TELESCOPE IN THE VIRGIN ISLANDS – PART OF THE VLBA (VERY LARGE BASELINE ANTENNA)

Tim Barrett, K9VB

When some good friends asked me if I would like to join them for two weeks this summer at their condo on St Croix, one of the US Virgin Islands, I lost no time in saying yes! Their holiday home is located at the eastern end of the island not far from Point Udall, the most easterly part of US territory. In fact there is a large sculpture there in the form of a sundial built to celebrate the millennium, as that was the first place where the sun rose on the United States in the year 2000.



Of particular interest to me was the point on the map close by marked 'Radio Telescope' and it wasn't long before I got a chance to take a look.



The VLBA radio telescope at St Croix, VI

The antenna is one of ten identical such radio telescopes distributed across the USA and making up the VLBA, Very Large Baseline Antenna. The one on St Croix is the most easterly and they stretch right across the continental USA with the most westerly being out on Hawaii.

That makes a total baseline of around 5000 miles and by clever algorithms and interferometry they can be combined into what is effectively one earth-sized radio dish for astronomical research. My friends suggested that having visited one I should now set my sights on visiting the other nine! That would take me to some interesting places in the US including Hawaii but any thoughts of making it an amateur radio activation expedition are not going to work, radio transmission at the sites is definitely frowned on!



Another view of the St Croix telescope

Of course, staying not far from this telescope we saw it on several occasions, and it was interesting to watch it move every few minutes both in elevation and direction, presumably in synchronization with the other nine telescopes. It is not staffed, except for maintenance and all the telescopes are controlled remotely from Socorro, New Mexico.



The telescope's orientation is continually changing

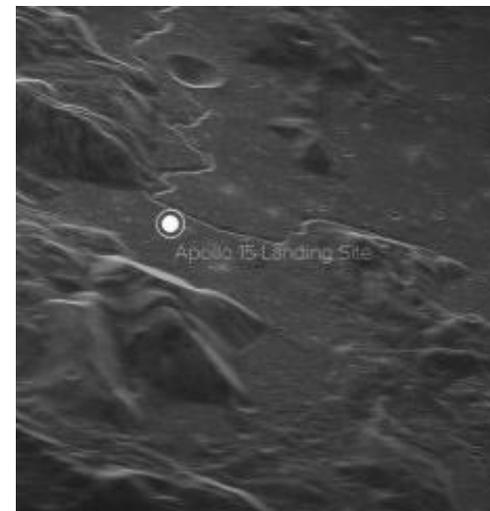
The VLBA is in constant use every day and has been associated with many important astronomical advances including mapping out our galaxy the Milky Way in great detail and determining distances to remote quasars. It has also been used for more local work too. By focusing on a very distant object which appears stationary here on earth it is possible to track the individual movements of each telescope on the ground thereby measuring the constant movement of the earth's crust and contributing to our understanding of geology.



Globe showing location of the radio telescopes forming the VLBA, St Croix is furthest east (i.e., bottom right)

One thing that surprised me is its use as part of a long-range radar system. The Green Bank Radio Telescope in West Virginia that Marty Pepe talked about in an excellent presentation a while back has been fitted with transmission equipment so that it can send radar signals out to objects in our solar system. The VLBA is then used to track these signals. In this way accurate positions can be generated of planets needed to guide spacecraft. The process has also been used to produce very accurate maps of the moon. Amazing what you can do with just

radio waves!



Moon landing site mapped by VLBA using radar

Of course, if you aren't fascinated by watching radio telescopes move there are plenty of other attractions on St Croix!



IT'S RIFA MADNESS!

DON KISER, AC2EV

I recently acquired a vintage (1990's) Tektronix Oscilloscope. Doing some initial research I found this particular scope to be one the best budget oscilloscopes and would do just about everthing I could desire. I quickly found that Tektronix still supplied the service manuals on-line and how to perform diagnostics on them.



So, of course after giving it a quick once over, I plugged it in and turned it on. Luckily, no magic smoke escaped and it passed all it's diagnostics. Little did I know, how close to catastrophic failure I was.

This is my warning to you. Never trust ANY vintage equipment.

After further research I learned that in the 1990's just about every piece of electronics had RIFA capacitors. It's like that 1 item at the Dayton Hamfest, once you spot one you start seeing it everywhere.

These capacitors would typically be across the line voltage to ground and they will ALL eventually fail. The typical failure mode is to short the line voltage to ground, with spectacular smoke, arcing and possibly fire. Since they are typically 'live' all the time and don't require the device to be turned on to fail.

After learning this, I quickly found a reputable seller on eBay (myach, Condor Audio) who has a complete capacitor replacement kit. I highly recommend you go about replacing all vintage capacitors in your gear especially if you have RIFA capacitors and here's why.

Here are the 3 RIFA capacitors in my unit, doesn't look too suspicious.



Here are the same capacitors after dyeing the cases. That red indicates where the cases have cracked and allow moisture in and electrolytic out. This will cause the capacitor to fail and short out.



What they look like when they fail (internet images)



Now let's talk about the standard electrolytic capacitors. The power supply takes a lot of electron abuse during its service life and that's typically where the first failures occur. There were many capacitors in mine and while nothing initially looked bad, I found looks can be very deceiving. See if you can spot the



problems.

These capacitors we're already failing but it was not apparent until I removed them.



Take heed and inspect all that vintage equipment. Even if it's been your daily driver and has up till now performed flawlessly. Time and temperature are not friends with electronics, you may be seconds from disaster.

Another One for The Record Books

KARL HEINZ KREMER, K5KHK

A couple of months ago, I wrote about the POTA "Support Your Parks" summer plaque event on July 17/18. The results are in, and this year was one for the record books.



Within 48 hours, there were 44,388 QSOs from 739 parks, involving 478 activators and 8734 hunters. That is impressive.

The full results can be found here: <https://pota.app/#/plaque>
 I did my part by activating five parks during the weekend, and had contacts with 182 hunters, of which 40 were other parks (for what we call "park to park" contacts). The first activation that weekend was a "three operator activation" with Ben - W2BMK - and Mike - N2MAK - Kennerknecht. We all piled into my Chevy Volt at the Oak Orchard Wildlife Management Area (K-8099) and had a lot of fun. Overall, I hunted eight more parks from my shack while at home. Just to refresh your memory, this was also the weekend of the Batavia hamfest, and if you went, you may remember the rain. I got wet. Very wet. Probably the wettest I've been in a decade, but I still had fun activating K-8099, K-8100, K-0475 (the last two by myself in the rain) on Saturday, and then on Sunday K-8625 and K-5226 with Susan - W2SBA.

If you did not participate this time, the fall "Support your Parks" event (without the chance to win a plaque) will be on October 17 and 18. Get on the air and have some fun! If you don't have your General class license yet, there is still time to upgrade. If you need help, please see the information about our upcoming license classes in this issue of the Rag.

SSTV - ISS

FOREST SHICK, WA2MZG

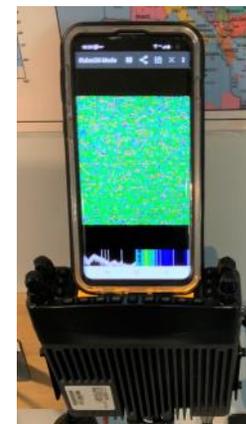
A few weeks ago, Tim Brown, WB2PAY enquired about the SSTV decoder ap I had on my phone, Robot 36. He mentioned that the ISS would be sending SSTV pictures on August 6 & 7.

That sparked my interest to give it a try.

First you need to know when the ISS would be in range. Tim provided me with this link: <https://www.amsat.org/track/> I used this to determine there would be 3 times I might be able to receive pictures:

- Aug 6, 2021 16:41 till 16:24
- Aug 6, 2021 17:50 till 18:01
- Aug 7, 2021 15:25 till 15:36

My receiving setup was very simple. I used my FT8900 set 145.800MHz. Placed my cell phone on top of the radio and turned on Robot36. My 2M vertical is about 25ft in the air.



Below are my 2 pictures:.
 This was received by another station. You can find the pictures at: https://www.spaceflightsoftware.com/ARISS_SSTV/index.php

For those of you that are interested, click the camera icon below for a video of receiving an SSTV picture on my setup.



FIELD DAY REPORT

BOB KARZ, K2OID, FD CHAIRPERSON

“A ‘Field Day’ Like No Other”.... That’s what former Democrat and Chronicle reporter and local blogger Missy Rosenberry called our 2021 Field Day in her article written from a lay person’s perspective ([A “field day” like no other | webster on the web](#)).

“A ‘Field Day’ Like No Other” is an apt description from a ham perspective as well. The XRZ and Monroe County ARES radio clubs assembled perhaps the largest Field Day effort in Western NY this year. All area amateurs were invited, and forty-seven took part. It was a true community effort.

We operated Class 3A (3 simultaneously HF stations) using the W2XRZ call sign. We also had a “Get on The Air” or GOTA station for beginners using the WB2EOC call sign with GOTA coach Tim Brown, WB2PAY as well as a VHF/UHF station run by Jarred Jackson, KF2MR.

We operated this year at the soccer fields in Webster’s Kent Park using phone, CW, and digital modes. Kent Park is a new location for us but it worked out well with a large parking lot, a shelter, and plenty of open space for the tribander tower and wire antennas. Set up began Friday June 25th when we put up the wire antennas. We assembled the tower, the stations, and the Wi-Fi logging network on Saturday morning and were on the air promptly at 2:00 PM when the contest began. Power was supplied by 2 Monroe County generators obtained for us by Jim Herbst, KC2KNJ.

This was the second Field Day under COVID. Fortunately, most of us had been vaccinated. We requested those who weren’t to mask when near others. Because of COVID, we had everyone bring their own food.

The weather was cloudy but with no rain despite the damp forecast. The one big SNAFU (at Field Day there is always a SNAFU) was when the logging network crashed at 12:30 AM Sunday. It took us 1 ½ hours to get the network back up. Everything else went smoothly.

We had a fairly informal operation with no set operating schedule. We gave priority to new operators for operating time and encouraged everyone to try to make at least one contact. We had a total of 947 QSOs with every state except Alaska and qualified for 1410 bonus points. We finished with a total score on 4114 points and project that will be in about the top 20% of the 3A Class.

Don Vallone, KD2REU has prepared a series of videos (<https://youtube.com/playlist?list=PLfeNow-mE5gcGEcRiyVFXRZOKkjMD8hkS>) and photos (<https://photos.app.goo.gl/SKpXCdfY36cUTK3a9>) chronicling our efforts.

All Field Day operations are unique of course but we believe that our combination of encouragement for newbies, broad participation, and maximizing bonus points makes our effort special. In other words, it truly was “A Field Day like no

other”. Thanks to those who participated. We’re all looking forward to Field Day 2022.

Results:

Band	Total QSOs W2XRZ + GOTA			Totals
	PH	CW	Digital	QSOs
80/75	9	96	0	105
40	166	129	7	302
20	240	17	33	290
15	61	20	0	81
10	35	5	0	40
6	13	9	57	79
2	8	5	9	22
1.25	4	3	2	9
70 cm	2	3	3	8
23 cm	2	2	2	6
33 cm	2	2	1	5
Total	542	291	114	947

Bonus Points:

100% emergency power	300
Media Publicity	100
Public location	100
Public information table	100
W1AW Field Day message	100
Natural power QSOs completed	100
Site visit by invited served agency	100
Educational activity	100
Youth participation	80
Safety officer	100
Social media	100
GOTA Station	80
Entry submitted via web	50
Total bonus points	1,410



Raising the Tribander (note the drone taking pictures)

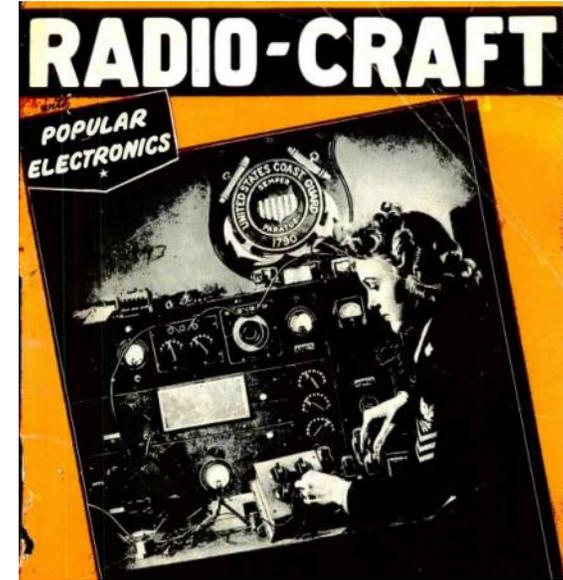


Benjamin, W2MBK (Age 11) makes a GOTA contact while GOTA coach Tim Brown, WB2PAY and Jon Dickason, N2JAC look on.

PROFESSOR'S PIC(K)S

JEFF SONSTEIN, KD2RRB

- [Minimalist Coding](#)
- [Raspberry Pi Ham Radio - Where to Start](#)
- [Phase Shifting Crystals](#)
- [Coffee Detonator: The TNT Plunger Grinder](#)
- [New Way of Generating Electricity](#)
- [Mosquito Neutralization by Power Laser](#)



In 2014, NASA "emailed" a wrench to space! When an astronaut aboard the International Space Station required a ratcheting socket wrench, the space agency had one designed and then emailed the file to him. Then, a 3D printer aboard the ISS built the tool in four hours. It was the first time that an object had been designed on Earth but built in Space.

Ateeq Ahmed » Physics-Astronomy Group
Yesterday at 5:09 AM · 🌐

Thank you Bill Hopkins, AA2YV for this picture

RAGS OF THE PAST

ED GABLE, K2MP, RARA HISTORIAN

20 Years Ago, September 2001

Your new Vice-President, Marykay Vesco KC2DPG, started her new job right away with the selection and announcement of the first RARA program of the year. For your enjoyment Marykay brought an interesting topic and speaker, Mr. Kevin Kinnally KD2TJ, who spoke on the Boy Scout activity abbreviated as JOTA, or Jamboree On the Air. Kevin, a Scout Leader in the Eagle District, described this world-wide event and how Boy Scouts, Girl Scouts and Guides from many continents try to have QSO's with as many like participants on many modes and bands. The meeting was at a very popular venue used by RARA for many years, the Henrietta Fire Hall with an 8:00 p.m. start time. Also taking pen in hand for his first column as President was Peter Fournia W2SKY. His first message was how successful RARA's summer picnic was with 35 happy attendees. A novel report told of a non-ham winning the transmitter hunt held as part of the picnic. There was no report on how the non-ham found the transmitter, perhaps he tripped over it on the way to the dessert table! Peter reported that RARA's new email reflector, now with 24 people signed up, is working well with George Masny KA2GPJ, as the gate keeper. RARA is fortunate to have Lloyd Caves WB2EFU (N2PU), returning as (1) Editor of the Rag and (2) a Columnist with the often seen by-line "RagChew" where with much insight reports on important ham news of the area. This month, Lloyd concentrated on welcoming newly licensed hams to RARA and told how to get the most out of your new membership. A new guy with a "3" call was Keith Bozek N3HGH, who wrote introducing himself as your new Membership Chairman. Keith told of his interest in public service activity and urged others to join him actively getting involved. Returning for another year as head of RARA's successful Licensing Classes was Norm Turner WB2LQB. Norm, proudly and rightly so, introduced his all-volunteer teaching staff as; Lynn Rosenberg N2IZX, 5 WPM Code, Allen Skiles W2AES, Tech Theory, Bill Kasperkowsky WB2SXY, General Theory and Carl Preddy KU2N, Extra Class Theory. Classes then were held at the Social Services building at 111 Westfall Road. Also returning was George Platteter (sk) AA2FO, who had the entire year of License Class Testing scheduled and manned ready for action. This activity was held at 111 Westfall Road as well. Ed Holdsworth (sk) N2EH, wrote to report the next two public service events as the ADA Fall Foliage Ride, a two day, 130 mile event, with Keith Freeberg (sk) N2BEL, as event leader. Next is the Pumpkin Patrol that this year is trying to cover all Thruway bridges from Ontario to Genesee County. Writing for the Rochester Radio Repeater Association (RRRA) was Brad Allen (sk) KB2CHY, President, who told of the Association's activities, repeaters and other timely tidbits, in a column aptly named just that. Similarly, George Masny KA2GPJ, did the same thing to tell all of the work of the Rochester Amateur Packet Society (RAPS), where he told of their new web-site at www.ggw.org/raps and their new club call sign KB2WYA. With regret it was announced that Robert Sprague WB2JSB, was reported as a Silent Keys. There were no Want Ads in this issue but Sherwood Snyder (sk) W2KFU, Attorney at Law, was a long term commercial advertiser.



the RARA RAG

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JOTA

Marykay Vesco, KC2DPG

Our first meeting of the new season will be Sept 7th at 8:00 PM. It will be held at the Henrietta Fire Hall 3129 E. Henrietta Rd. Our Topic will be Jamboree On The Air (JOTA) and will be presented by Kevin Kinnally, KD2TJ. Kevin is a Boy Scout leader in the Eagle District.

JOTA is an annual event held the third weekend in October since 1958. There is some DX activity from Friday to Monday taking advantage of the time differences. This is an event in which Boy Scouts, Girl Scouts, and Guides from all over the world speak to each other by means of Amateur Radio. There are scouting experiences and ideas that are shared and exchanged via radio waves. JOTA has resulted in links between troops and pen pals that have lasted for many years.

Kevin has some pictures of the event from previous years, so come on down and join in the fun; this is what HAM RADIO is all about.

RARA Meeting

September 7, 2001

8:00 PM

Henrietta Fire Hall,
3129 E. Henrietta Rd.

Jamboree On The Air
Presented by Kevin Kinnally,
KD2TJ
Boy Scout Leader, Eagle
District

RagChew

Lloyd R. Caves, WB2EFU

Welcome to a new season with RARA. It is membership renewal time for all except our life members. For some of you becoming a member was new to you last year as you went through the license classes. That's why to you folks it is very important to renew your membership so you can now enjoy what RARA has to offer. Now that you have that new license let RARA help you get the most out of it. Let our members help get your stations up and running, answer questions, help debug problems that you may encounter, or just become new friends with a common interest. There are so many modes and bands to try in amateur radio that it never loses its interest, especially if you let others help you.

There are many good topics and fun at our meetings each month. It seems that our members that don't attend these meetings miss out on a lot. The chance to learn something new, try for a door prize, meet new friends (whether you are 8 or 80, reach out and shake someone's hand) or just get reacquainted with old friends over a cup of coffee and a doughnut. Have some laughs with others, none of us do enough of that. Amateur radio is fun and being with other hams is too.

Along with the meetings there are other events such as public service, radio coaches, boy scouts, operating committees, etc. to let you get involved. Remember that all these things can be enjoyable and help out others at the same time. Along with that there are always fun things to do such as going on family picnics with other members or attending the Rochester Hamfest. Remember, it is RARA that brings this event to you each year.

It has been along time since we have seen

(Continued on page 7)

Responding to numerous member complaints the RARA Board worked tirelessly during the summer to find a different meeting venue for the next RARA season. Selected was the Eisenhart Auditorium at the Rochester Museum and Science Center on South Goodman Street in Rochester. Kicking off the season, according to Vice-President and Program Chairman Ed Holdsworth (sk) N2EH, will be a presentation by Dr. Jay Eastman, Director of the Laser Lab at the University of Rochester. 1981, will be remembered by many local Amateurs as the year the New York State tax department inappropriately raided the Rochester Hamfest. Heavy-handed techniques all but closed the hamfest for a two-hour period before the Committee could straighten things out. Later, in a letter to Hamfest Chairman Harold Smith (sk) K2HC, and the Hamfest Committee, the Tax Commissioner's Office apologized for their erroneous actions. This issue of the Rag features a new Editor, Ronald Jakubowski K2RJ, taking over for the retiring Harold Smith, who held that position for some twenty years. Dwight Hill K2KWK, remained as Associate Editor. RARA President Don Drennon (sk) W2EBF, wrote to tell of RARA's summer activities that included the STPR Road Rally, the Mendon Pony Club Rally, the Scotch Bonnet Yacht Race, the Hamlin Beach Iron Man contest, Canal Town Days and a ham radio demo at the Rochester Science Museum. In Part III of a series, Bruce Kelley (sk) W2ICE, continued his remembering of RARA's 50th anniversary, 1931-1981. With regret it was announced that James Beneway WA2LHM, of Ontario, NY, was a Silent Key. Many will fondly remember Jim's generosity in offering his sprawling Beneway Fruit Farm as the venue for the Band-Dit-Dahs Field Day group and many years of 3A WNY. RARA also took the rare opportunity to report on a serious auto accident that put James Collinworth (sk) N2JC, in the hospital for an extended period of time while recuperating from serious head trauma. From the Want Ads you could buy a Kenwood TS-820-S from Chic Cerasoli WA2IJH, for \$625.00. A Large Wanted Ad was the commercial advertiser this month where Harris/RF Communications was seeking Technicians for a new product line.

The RARA RAG

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NO. 1

September Program: LASER FUSION

by Ed Holdsworth, N2EH

The kick-off program for the 1981-1982 RaRa season will feature Dr. Jay Eastman, Director of Laser Laboratory at the University of Rochester. Dr. Eastman will present a program on Laser Fusion as a future source of Energy. This program is in a format to appeal to general audiences but will also deal with some of the technical aspects.

The meeting will be at 8 p.m., Friday, September 11th, in the lower meeting room of the Eisenhart Auditorium of the Rochester Museum and Science Center.

We would like to have programs of interest to the whole membership, so if you have any suggestions for programs, I would like to hear from you.

LICENSE CLASS STARTS SEPTEMBER 28

The fall licensing classes will be starting Monday evening, September 28, 1981 at 7:30 p.m. They will be held as usual, in the County Office Building located at 350 East Henrietta Road.

The cost will be as follows:

Novice	Registration Fee	\$ 3.00
	Books and Materials	2.00
	Associate Member in RaRa	3.00
General	Registration	\$ 3.00
	Books and Materials	4.00
	Membership in RaRa	6.00

Those interested may register at the September meeting or by contacting Ed Holdsworth, N2EH, at 624-1929 evenings or 546-2700 ext 3304 days.

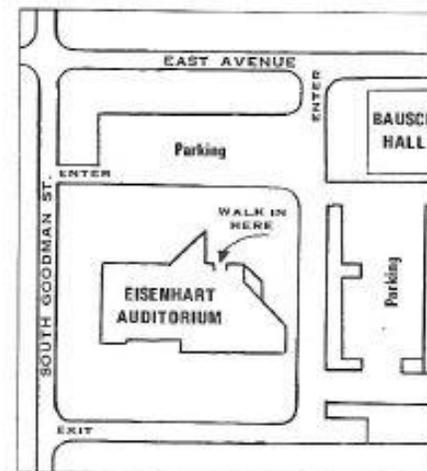
SILENT KEY: WA2LHM

James A. Beneway, WA2LHM, passed away at his Ontario, NY residence on Saturday, August 15 at age 61, a victim of brain cancer. He was a long-time member of RaRa, the ARRL, and Wayne County RACES.

NEW MEETING PLACE OFFERS MORE ROOM

Responding to numerous complaints from RaRa members and staff, a search for a new meeting place was authorized by the Board of Directors at the August meeting. As a result, our new home will be the lower meeting hall of the Eisenhart Auditorium at the Rochester Museum and Science Center, located near the corner of East Avenue and South Goodman Street. (See map) There is ample parking in well-lighted areas adjoining the Eisenhart. Our entrance is on the North side of the building, just around the corner from the main entrance.

For many years, RaRa had met at the Monroe County Farm and Home Center on Highland Avenue. Last year, however, we were forced to move due to a contractual agreement the Center made with another group. Arrangements were then made to meet at the Statesman Club at the top of the First Federal Plaza, downtown. Accommodations were very plush, but very crowded, and this crowding was the basis for most of the complaints.



VE TEAM

Testing on Saturday September 18th

At a **NEW LOCATION**

Damascus Shriners
979 Bay Rd, Webster, NY 14580
With COVID Restrictions
Please Read Carefully!

A **COVID Questionnaire**

Must be Filled Out Either On-site or
Prior to Attending

Online Preregistration is required
The session size is limited to 20

Click to register:

**[https://hamstudy.org/
sessions/611a7cfd8471caaf3792996e/1](https://hamstudy.org/sessions/611a7cfd8471caaf3792996e/1)**

Applicants must supply their own PPE
(Mask is a minimum), pen, pencil, calculator and
be COVID negative and symptom free

Testing begins at 10:00AM.
Testing is free!

CW ELMERS

Name	Call	Area	Email
Ned Asam	W2NED	Pittsford	w2ned@frontiernet.net
Tim Brown	WB2PAY	Ogden	tjbrown@rochester.rr.com
Pete Fournia	W2SKY	Penfield	pfournia@gmail.com
Bill Hopkins	AA2YV	Brighton	whopkin4@naz.edu
Bob Karz	K2OID	Webster	rkarz@rochester.rr.com
Joe Rowe	AG2Y	Webster	ag2y@rochester.rr.com
Harry Williams	KF2TV	Webster	harryw7872@gmail.com

RADIO ELMERS

Name	Call	Area	Email
Tim Brown	WB2PAY	Ogden	tjbrown@rochester.rr.com
Dave Carlson	N2OA	Batavia	kdcarlso@gmail.com
Lawrence Hill	N2AJX	Henrietta	lawrence.hill@rit.edu
Rich Hoffarth	K2AXP		rhoffarth2000@yahoo.com
Bill Kasperkoski	WB2SXY	Pittsford	wb2sxy@gmail.com
Don Kiser	AC2EV	N Greece	dkiser100@gmail.com
Karl Heinz Kremer	K5KHK	Chili	k5khk@khk.net
Tim Magee	WB2KAO	Greece	585-704-5747
Mike Moore	KC2NM		mikemoore@ieee.org
Peter Schuch	WB2UAQ	Perinton	pschuch@rochester.rr.com
Forest Shick	WA2MZG	Webster	fshick3@gmail.com
Dave Timmons	W2DST	N Greece	dstimmons@gmail.com
Steve Verzulli	KA1CNF		verzulli@yahoo.com
Dan Waterstraat	W2DEW	Henrietta	higreen@rochester.rr.com

RARA CALENDAR

TIM BARRETT, K9VB, MEMBERSHIP SECRETARY

September 2021						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 RaRa Monthly Mtg ONLINE 7pm Including Business Meeting ROC City Net 3.810 MHz, 7 pm CW Ops Mini-CWT Test VHF/UHF FT8 Activity Contest UKEICC 80M Contest G3ZQS Straght Key Contest	2 RaRa BoD 6:30pm ONLINE (to be confirmed) ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB RTTYOPS Weeksprint NRAU 10M Activity Contest NCCC Sprints SKCC Sprint (Europe) EACW Meeting G3ZQS Straght Key Contest	3 ROC City Net 28.405 MHz, 7:30p K1USN Slow Speed Test G3ZQS Straght Key Contest	4 All Asian DX Contest, Phone Wake Up! QRP Sprint RSGB SSB Field Day IARU Region 1 SSB Field Day CO QSO Party AGCW Straight Key Party PODXS 070 Club 80M Sprint Russian RTTY WW Contest Portable Operations Challenge
5 All Asian DX Contest, Phone RSGB SSB Field Day IARU Region 1 SSB Field Day CO TN QSO Parties PODXS 070 Club 80M Sprint K1USN Slow Speed Test	6 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SS WW Sideband Activity Contest ARS Spartan Sprint RSGB 80M Autumn Series, SSB MI QRP Labor Day CW Sprint	7 RTTYOPS Weeksprint Phone Weekly Test Fray	8 ROC City Net 3.810 MHz, 7 pm CW Ops Mini-CWT Test VHF/UHF FT8 Activity Contest	9 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB RTTYOPS Weeksprint NCCC Sprints EACW Meeting	FOC	11 ARRL September VHF Contest WAE DX Contest, SSB SARL Field Day Contest SKCC Sprintathon NA Sprint, CW FOC, AL QSO Parties Russia Cup Digital Contest OH State Parks on the air YB7-DX Contest
12 ARRL September VHF Contest WAE DX Contest, SSB SARL Field Day Contest SKCC Sprintathon AL QSO Party Russia Cup Digital Contest YB7-DX Contest	13 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SS WW Sideband Activity Contest	14 RTTYOPS Weeksprint Phone Weekly Test Fray	15 ROC City Net 3.810 MHz, 7 pm CW Ops Mini-CWT Test RSGB 80M Autumn Series, CW	16 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB RTTYOPS Weeksprint NCCC Sprints EACW Meeting Bavarian Contest Club QSO Party	17 ROC City Net 28.405 MHz, 7:30p K1USN Slow Speed Test AGB NEMIGA Contest	18 ARRL 10GHz and Up Contest Collegiate QSO Party Scandinavian Contest, CW IA, NJ, NH, TX QSO Parties QRP Afield Wisconsin Parks On The Air Wahington State Salmon Run
19 ARRL 10GHz and Up Contest Collegiate QSO Party Scandinavian Contest, CW IA, NJ, NH, TX QSO Parties Wisconsin Parks On The Air Wahington State Salmon Run	20 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SS WW Sideband Activity Contest 144 MHz Fall Sprint	21 RTTYOPS Weeksprint Phone Weekly Test Fray	22 ROC City Net 3.810 MHz, 7 pm CW Ops Mini-CWT Test VHF/UHF FT8 Activity Contest	23 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB RTTYOPS Weeksprint NCCC Sprints EACW Meeting RSGB 80M Autumn Series, Data	24 ROC City Net 28.405 MHz, 7:30p K1USN Slow Speed Test	25 CQ WW Contest, RTTY Maine QSO Party Masonic Lodges On The Air
26 CQ WW Contest, RTTY Maine QSO Party UBA ON 6M Contest	27 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SS WW Sideband Activity Contest RSGB 80M Autumn Series, FT4	28 RTTYOPS Weeksprint Phone Weekly Test Fray 222 MHz Fall Sprint	29 ROC City Net 3.810 MHz, 7 pm CW Ops Mini-CWT Test VHF/UHF FT8 Activity Contest	30 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB RTTYOPS Weeksprint NCCC Sprints EACW Meeting		

NEWS FROM AREA CLUBS

MONROE COUNTY ARES / RACES NEWS

Monroe County Amateur Radio Emergency Service (ARES)® is an amateur radio public service organization based in Monroe County, New York, and is open to all licensed amateur radio operators. Monroe County Radio Amateur Civil Emergency Service (RACES) is a program of the Monroe County Office of Emergency Management. We participate in training and emergency exercises so that we can serve other agencies during times of communication failure.



The Monroe County Amateur Radio Emergency Service, Inc. holds its meetings on the fourth Thursday of each month except in July, August, November and December. Anyone interested, members and non-members, are welcome to attend.

Until further notice, our meetings are via Zoom. Please check our website for any schedule changes. Prospective members can request an invitation by email to: secretary@monroecountyemcomm.org.

Monroe County ARES/RACES meets on the air every Thursday of the month at 7:00 PM, on the N2MPE 146.61 MHz (-) 110.9 Hz PL and 444.45 (+) 110.9 Hz PL repeaters. Our club callsign is WB2EOC.

There is no net on nights when we hold our regular meeting, generally on the 4th Thursday of the month.

WEB: www.monroecountyemcomm.org

Facebook : Monroe County Amateur Radio Emergency Service, Inc.

Twitter @MCARESNY

Severe Weather Alerts: Winter may bring severe weather in the form of heavy snow storms, strong winds, and flooding. If you experience severe weather, especially when accompanied by damage to property in your area, listen to your local ARES/RACES repeaters for information. While official ARES/RACES activation could be a possibility, it is more important that we open a spontaneous net simply to share information about weather conditions in your immediate area. Don't wait for someone else to do it. Pick up the microphone and start a net. Have each check-in station give you a situational awareness report and emergency power report. If you don't have a copy of the directed net protocol, you can find one at the WEB address listed above. (Activities/ARES Net/ Net Script/ Downloads). We encourage all amateur radio operators to take a free Skywarn TM class offered by the National Weather Service. The schedule of classes can be found at <https://www.weather.gov/buf/skywarn>

Monroe County ARES
Ralph Dutcher, Net Control - KD2BDZ@arrl.net

ROCHESTER DX ASSOCIATION, RDXA

In Person Meeting - Tuesday September 21, 2021 at 7:00pm

The next meeting will be at Johnny's Irish Pub,
1382 Culver Road.



NOTE: Earlier start time and new location.
Plenty of free parking alongside and behind
the pub.

All are welcome.
Check our web site: www.rdxa.com.

ROCHESTER RADIO REPEATER ASSOCIATION

The Rochester Radio Repeater Association, RRRRA will not be having its regular meeting on September 17th due to the Pittsford Town Hall's meeting room still being closed. However, the club is having Zoom meetings on our regularly scheduled meeting nights on the 3rd Friday of each month starting at 7:30PM lasting 40 minutes. All paying and non-paying members should receive an invite in their email. All you have to do is hit the link in your email, or go to zoom in your browser and type in the meeting ID number and pass code and you're in. You may have to install the Zoom client when prompted. Or go to <https://zoom.us/download>. Remember to activate your video & audio from the bottom of the screen so everyone can see and hear you. If you use the android client for your cell phone you will only be able to see a max of 4 pictures on the screen at a time. If you use the windows client you can have as many as you want.

The Covid-19 Variant emergency seems to be hanging on according state and local sources.

Stay tuned to our web site, www.k2rra.org for current information on whether our meeting place will be available. The elected RRRRA officers for 2020 - 2021 are, Bob Shewell, N2HJD, President, Bob ODell, N2BZX, Vice President, ED Wilkonski, KC2WM Secretary, and Bob Smith, NS2B-Treasurer / Membership Chairman. RRRRA also accepts donations to the club. If you are not currently a member and want to support RRRRA, you can join at our monthly meeting or on our web site. www.k2rra.org

XRX AMATEUR RADIO CLUB

The XRX Amateur Radio Club meets the 2nd Thursday of each month. The meetings are 6PM at the Webster Recreation Center. Look for details on our website <http://xarc.us>

ROCHESTER VHF GROUP

You are invited to join us on-line & on-the-air! We're here to help you to use the license that you worked so hard to get.



Check out what we do by visiting our website at <http://RVHFG.org> to start.

Join our e-mail group by sending a message to RVHFG+subscribe@groups.io.

Join our weekly on-the-air nets on SSB:
2 meter band - Monday 9 PM 144.260 USB
6 meter band - Thursday 9 PM 50.200 USB

No VHF SSB radio (yet) to join the nets?
Log-in to Echolink ka2ene-L #23426

We can help to answer the question, "What radio should I buy?" Here's a list of HF+++ radios, those with the HF bands and at least three VHF bands, giving you access to all sorts of VHF fun. Research each one to see which serves you best. Ask questions on our email list. We're here to help!

Yaesu FT-100D	Yaesu FT-817	Yaesu FT-818
Yaesu FT-847	Yaesu FT-857	Yaesu FT-897
Icom IC-706MKIIG	Icom IC-7000	Icom IC-7100
Icom IC-9100	Kenwood TS-2000	

Some are older models and some are newer models, but all provide access to the 6 meter, 2 meter, and 70 centimeter bands using both traditional FM and the exciting narrow-band SSB mode that supports unexpectedly long-distance (100's of km's routinely and 1,000's of km occasionally) VHF communication. These are good all-around radios no matter what club you end up affiliating with later. We hope its us.

AMATEUR RADIO ASSOCIATION OF THE SOUTHERN TIER, ARAST

ARAST meets the third Thursday of every month at the Town and Country Fire Department on Gardner Rd in Horseheads, New York. Our Chemung County ARES (CCARES) organization meets the first Tuesday of the month except February on Harris Hill, next to the National Soaring Museum. Both organizations serve amateurs in Chemung, Steuben and Schuyler counties in New York and Bradford and Tioga counties in Pennsylvania. All are welcome to attend our meetings.

NOTE: Both CCARES and ARAST monthly meetings are now being held both in person and online. Check out the Upcoming Events at our website, www.arast.info, for the latest details.

Our 2021 Hamfest is set to take place at the Chemung County Fairgrounds in Horseheads, New York, on Saturday, September 25, 2021, subject to the then current New York State Department of Health guidelines.

Our premier public service event, the Wineglass Marathon, is scheduled for Sunday, October 3, 2021. The Wineglass committee has now confirmed that this year's Marathon and Half Marathon will be "live" events, ending in the historic downtown of Corning, New York. Thus we are again appealing to hams outside our area to help as communicators for these events. There will be openings for operators with either mobile or handheld 2-meter radios. Please contact N2OJM at emergencycoordinator@stny.rr.com if you can help, or if you would like more information.

Don't forget to check out our repeaters when you visit the area. N3AQ 147.36(+) and the W2ZJ 146.70(-) are the principal 2-meter repeaters. The latter can also be accessed via Echolink node 574415 with the call sign KD2QND-R. A full list of repeaters that can be heard in the Twin Tiers area surrounding Chemung County can be found at http://www.arast.info/arast_website/public/repeaters.php.

We also invite you to check out our new 6 meter net on Wednesday evenings at 9 p.m. local time on 50.200 MHz USB. The net usually lasts approximately one hour. Operators are encouraged to check in and participate in the round table discussions or simply stop by from time to time. Topics are wide-reaching and are not confined to 6 meters--although discussions tend to center around 6-meter equipment, antennas, propagation, latest band openings and grid squares worked, as well as AM, FM and FT-8 use of the 6-meter band. We would welcome more participation from the western part of our area.

COMMUNITY AMATEUR RADIO CLUB, CARC

If you are interested in being a part of this forward thinking and active club, visit us at a meeting or join us on one of our weekly nets. We meet at the Hoag Library (134 S. Main St. Albion, NY) on the first Saturday of each month at 7PM. Each meeting has a brief training/refresher period with upcoming topics includ-

ing: net protocol, repeater set-up/maintenance, and digital signaling. The club holds a net every Sunday evening at 8pm (winter) and 9PM (summer) - 0100 UTC Monday - on 147.585 simplex, and we host the Thursday Night Social Net, Thursday at 8:30PM on 147.285+. We'd love to hear you check-in!

DIGITAL COMMUNICATIONS ASSOCIATION OF PERINTON, DCAP

DCAP members continue to experiment with leading edge digital communication modes. We were formed in 1994 to foster the development of local and regional packet radio networks using AX25 and TCP/IP. Today we have members using the club sponsored DSTAR repeater (KB2VZS on 444.8MHz), several personal and publicly accessible DSTAR hotspots, Yaesu System Fusion systems on non-club repeaters and DMR systems through repeaters and personal hotspots. DCAP members meet for breakfast at 7AM nearly every Saturday morning at Rikki's Family Restaurant in the village of Fairport and everyone is welcome to join us. Talk in is on the KB2VZS analog repeater on 146.715MHz with a PL tone of 110.9Hz.

DRUMLINS AMATEUR RADIO CLUB

The Drumlins Amateur Radio Club meets every third Wednesday of the month at 7:30 PM at the Wayne County EMO/Sheriff's Office 7376 State Hwy 31 #1000, Lyons, NY 14489. Doors open at 7 pm, meeting starts at 7:30 pm. Announcements will be made on the 146.685 repeater. The Drumlins ARC website address is <http://drumlinsarc.us/>

KEUKA LAKE AMATEUR RADIO ASSOCIATION, KLARA

Hello everyone! Keuka Lake Amateur Radio Association has a busy schedule coming up.

Aug 17-22 is the Steuben County Fair. We will be in the Main Fair Building with Emergency Services and Red Cross from the 17th till the 20th. Promoting Amateur Radio so stop in and say HI.

Aug 21 is our Hamfest in Howard, NY Some of us will be camping Friday night to get ready for Saturday morning. We have our famous Breakfast so come join the smallest but friendliest little hamfest in the area.

September is the ARAST Hamfest in Elmira on the 25th. You will find some of us camping there and helping out our neighboring club. Stop in and say HI! It is always a great time with lots of friends and great stuff to buy and sell!

In October from 7th till 11th a group of us HAMS called RF & ready will be camping at Kanakadea Park in Hornell, NY. Radios will be up and running. This is not a KLARA function however it is Amateur Radio. We would love to see you there also!

Now to Brag a bit. We are so proud of Joel KC2VAW and Donna KD2CZY. Since Covid hit they have been working POTA. That is Parks on the Air. The weather is not a deterrent at all! Snow, rain, heat they have been traveling all over to the various parks, setting up radio and making contacts! We are so proud of them. Below is the certificate Joel has earned. Donna is not listed on it but been beside Joel the entire time! She does the logging, help set up and tear down, provides great lunches, taken pictures of locations, spotted on POTA charts when has cell service and just been right there participating 100% so we agree she has earned it also! They continue to do this each week so please look for them on 20m and 40m. Check out the Keuka Lake Amateur Radio Facebook page to see pictures of their travels and upcoming locations.



THE AMATEUR'S CODE

Originally written by Paul M. Segal, W9EEA (1928)

THE RADIO AMATEUR IS:

- CONSIDERATE** Never knowingly operating in such a way as to lessen the pleasure of others.
- LOYAL** Offering loyalty, encouragement and support to other amateurs, local club, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.
- PROGRESSIVE** With knowledge abreast of science, a well built and efficient station and operation beyond reproach.
- FRIENDLY** With slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.
- BALANCED** Radio is an avocation, never interfering with duties owed to family, job, school or community.
- PATRIOTIC** With station and skill always ready for service to country and community.

ORLEANS COUNTY AMATEUR RADIO CLUB

The Orleans County ARC meets every 2nd Monday of the month at the Orleans County Emergency Operations Center, 14064 West County House Road, Albion, NY 14411. Doors open at 6:00PM, meeting starts at 7:30PM. Anyone with an interest in amateur radio is welcome. Program topics vary from month to month.

The club has an open two meter net every Tuesday night at 9:00PM local time on the club repeater, WA2DQL/R (145.27 -600KHz offset, 141.3 tone). Everyone is welcome to check in.

See the club website <http://ocarc.us> or contact club Secretary Ron Craig, N5BNO for more information.

SQUAW ISLAND AMATEUR RADIO CLUB, SIARC

The Squaw Island Amateur Radio Club (SIARC) meets every second Wednesday of the month at 7:30PM at the Ontario County Safety Training Facility, 2914 County Road 48, Town of Hopewell. We have License Exam Testing every other month which begins at 6:30PM. The next meeting will be Wednesday, September 8th and will be inside at the Safety Training Facility. We will start the meeting at 7:30 PM. Elections for Club Officers will be held at this meeting. Masks and social distancing will be required if you have not been vaccinated for COVID 19. There will be License Exam Testing starting at 6:30 PM. Check the SIARC website for updates. <http://www.siarc.us/>

SIARC is also holding a Health and Welfare NET Monday through Friday each week at 2000 hours on the SIARC 146.820 repeater (located in Canandaigua, NY), Tone 110.9. This net is to pass along general information and keep hams in touch. All hams are invited to participate .

GENESEE VALLEY AMATEUR RADIO ASSOCIATION

Email n3dsp@lafireline.net for details.

INTERLOCK ROCHESTER - K2HAX - ROCHESTER'S HACKERSPACE

Visit our website at <http://www.interlockroc.org/>, contact us at info@interlockroc.org, or find us in #interlock on Freenode IRC.

ROCHESTER MAKERSPACE

For more information visit <https://www.makerspacerochester.org/hamradio>

ASTRONOMY SECTION ROCHESTER ACADEMY OF SCIENCE

For more information visit <http://www.rochesterastronomy.org/>

RAG ARTICLE LAYOUT HINTS

- Orientation - Landscape
- Main Text Box H - 7.7, W - 10.4
- 2 columns, 0.3 spacing between columns
- Font: Arial
- Title: 20 pt, Bold, Small Caps
- Author: 10 pt, Bold, Small Caps
- Main Text: 10 pt
- Single space after periods
- Text Alignment: Justified
- Title & Author Alignment: Centered
- No special formatting
- Try to limit pictures to the width of a column
- Picture Format: jpg or png
- Document format: Microsoft Word compatible or text. No special embedded formatting.

HF GEAR FOR SALE

COLLINS 51J4 HF COMMUNICATIONS RECEIVER 540 Khz to 30.5 Mhz covered in 30 one-megahertz bands. With Treetop SB51 Product Detector \$500



KENWOOD TS-440S 100W HF TRANSCEIVER BUILT IN AUTO TUNER \$400

YAESU FT-101EE 100W HF TRANSCEIVER HYBRID USES JS6C FINALS WITH CW FILTER \$275 (wattmeter not for sale)



KENWOOD PS-30 LINEAR 20 AMP SUPPLY Has TS-440 and POWER POLE CONNECTORS \$75

COMBINE TS-440 + PS-30 - \$450

Contact: Tim Brown, WB2PAY
tjbrown@rochester.rr.com

RARA OFFICERS, DIRECTORS AND COORDINATORS

OFFICERS

President: Tim Barrett, K9VB	(646) 496-5015	president@rochesterham.org	Treasurer: Mike Moore, KC2NM	(585) 721-0011	treasurer@rochesterham.org
Vice-President: Brian O'Connor, KA2CGB	(585) 721-2346	vicepresident@rochesterham.org	Secretary: Karl Heinz Kremer, K5KHK	(585) 210-0840	secretary@rochesterham.org

DIRECTORS

David Enright, K3WHD	(585) 737-3657	denright1228@gmail.com	George Lama, KC2OXJ	(585) 764-0618	KC2OXJ@gmail.com
Tim Guyot, KB1POP	(585) 406-3163	timguyot@gmail.com	Scott Theis, W2LW	(845) 774-9809	sa_theis@hotmail.com

ACTIVITY COORDINATORS

Club Historian	Ed Gable, K2MP	egable@rochester.rr.com	Membership Secretary	Tim Barrett, K9VB	membership@rochesterham.org
Club Station Trustee	Dave Enright, K3WHD	denright1228@gmail.com	Public Service	Mike Moore, KC2NM	publicservice@rochesterham.org
Education Coordinator	Karl Heinz Kremer, K5KHK	education@rochesterham.org	Raffle Administrators	Forest Shick, WA2MZG Jeff Sonstein, KD2RRB	wa2mzg@arrl.net
RARA Academy	Jeff Sonstein, KD2RRB		RARA RAG Editor	Forest Shick, WA2MZG	editor@rochesterham.org
Elmers Corner	Richard Bishopp, KD2UBJ Susan Bishopp, W2SUZ	elmerscorner@education.org	Proof Readers	Susan Aiello, W2SBA Dave Wilson, WA2HOY Mark Pedersen, KC2UES	
License Classes	Karl Heinz Kremer, K5KHK	education@rochesterham.org	Refreshments	Rich Hoffarth, K2AXP	rhoffarth2000@yahoo.com
Hamfest Co-Producers	Tim Guyot, KB1POP George Lama, KC2OXJ Mike Moore, KC2NM	hproduct@rochesterham.org	Reward Points Administrator	Tim Barrett, K9VB	tim.k9vb@gmail.com
VE Team	Don Kiser, AC2EV	dkiser100@gmail.com	Webmaster	Scott Theis, W2LW	webmaster@rochesterham.org
Media Communications	Tim Guyot, KB1POP	timguyot@gmail.com			

ROCHESTER AREA RADIO CLUB CONTACTS

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Amateur Radio Association of the Southern Tier (ARAST)

Reiner Dieg, N2PEZ: n2pez@arri.net

Astronomy Section Rochester Academy of Science

Mark Minarich: mminaric@rochester.rr.com

Community Amateur Radio Club (CARC)

Joe Gangi, AC2NB: ac2nb.carc@gmail.com

Digital Communications Association of Perinton (DCAP)

Gary Skuse, KA1NJL: ka1njl@arri.net

Drumlins Amateur Radio Club Ltd. (DARC)

drumlinsarc@gmail.com

Fisherman's Net Amateur Radio Club

Jim Sutton, N2OPS: jim@otrym.org

Genesee Valley Amateur Radio Assn.

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Rochester Amateur Radio Association (RARA)

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Rochester Radio Repeater Association (RRRA)

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Squaw Island Amateur Radio Club (SIARC)

Steve Benton, WB2VMR: sbenton2@rochester.rr.com

XRX Amateur Radio Club

Brian Donovan, K2AS: k2as@outlook.com

OCTOBER RAG DEADLINE SEPTEMBER 15, 2021

**RARA MEETS AT 7PM ON THE FIRST
WEDNESDAY OF EACH MONTH.
JOIN US ON-LINE AT:**

<https://attendee.gotowebinar.com/register/8556569229139565839>

CONTACT WEBMASTER@ROCHESTERHAM.ORG FOR SUPPORT

Rochester Area Repeater Listing

THE RARA RAG

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Website – <http://www.rochesterham.org>

Lancaster Hamfest

Sept 11, 2021 Saturday
Being held at the Transit Drive In
6655 S Transit Rd, Lockport, NY 14094
only... \$ 8.00 admission and free tailgating
Food and refreshments

There is a **A GIANT AREA FOR TAILGATING**

Note : we were unable to get our usual Como Park site because
they are remodeling the pavilion
The Transit Rd Drive in has a huge parking area can fit hundreds
of vehicles

46TH ANNUAL -ELMIRA INTERNATIONAL

HAMFEST COMPUTERFEST

SEPTEMBER 25TH 2021, 6 AM TO 2 PM
CHEMUNG COUNTY FAIRGROUNDS

Flea Market: 6:00 AM to 2:00 PM

Vendor Building: 8:00 AM to 2:00 PM

Pancake Breakfast: 7:00 AM -Till sold out

Lunch: 10:00 AM-Till sold out

FCC Exam: 10:00 AM Walk-ins Welcomed

Visit ARAST.INFO

Tickets:

\$6 in ADVANCE

\$8 AT THE GATE.

SAVE! AND GET YOURS NOW!

GPS COORDINATES

General Admission Gate N 42° 08.743 W 076° 49.233

Vendor Gate N 42° 08.661 W 076° 49.000

