



IT'S TIME FOR SHOW AND TELL AND SHARE AND TO HAVE FUN!

AUGUST 2014
VOLUME 66, ISSUE 12

INSIDE THIS ISSUE

GARY SKUSE, KA1NJL—RARA VICE PRESIDENT

Do you remember the excitement when you were in grade school and the teacher announced that tomorrow you were having show and tell? It was an opportunity to share your newest and proudest treasures with your friends and it was always fun. It was also a chance to check out the latest stuff that your friends had so you could start thinking about your next acquisition. It is definitely an opportunity to develop a bad case of GAS*. At our August RARA meeting we are going to have a show and tell. It's just like when we were in grade school but the treasures are typically electronic and usually more expensive. Unless of course the XYL reads this in which case the treasures are typically electronic and not very expensive at all.



Everyone is invited to bring an amateur radio project or setup to share with the others. This is an opportunity to show off your mobile rigs, your grab and go HF gear, a portable weather station or whatever you are proud of. Are you happy with your mobile installation complete with APRS, multiple voice bands and automatic power off? Let us see it. Are you running anything digital in your vehicle besides APRS? Perhaps

a tablet or laptop interfaced to your radios. Let's see it. Are you playing with SDR using a laptop and a USB dongle? Bring them along so we can appreciate your creativity and long to have one of our own. Have you built a DStar hotspot for home use so you can communicate with hams around the world from your HT? Let's see it.

We will use the parking lot for mobile rigs and portable HF setups and we will have tables indoors for everything else. We did this last July and the items brought to share made me envious. They ranged from a bicycle mobile APRS rig to an innovative antenna coupler for use with a 500 foot loop. This is certain to be fun again so I encourage everyone to participate. Either bring something to show off or come and check out the neat stuff other hams are doing.

This month's meeting is sure to have something for everyone. Please join us on Friday August 1st at 7:00pm at the usual location, the Henrietta Fire Company #1, located at 3129 East Henrietta Road near Lehigh Station Road.

*gear acquisition syndrome

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PREZ SEZ

GARY SKUSE, KA1NJL—RARA VICE PRESIDENT

As some of you already know, Bill Marinucci, WB2GHC, has stepped down from his position as RARA President. In doing so he cited personal reasons and asked us to respect his privacy. While his reasons remain personal, the amount and the quality of service he provided to the club during his years on the Board of Directors, as Vice President and as President are very public. I would like to thank Bill for all that he has done and wish him good luck in whatever he chooses to do in the future. Whatever that is, I am confident that others will benefit from his participation.

The annual RARA picnic is now history. Together the Board of Directors crossed their fingers real hard and requested good weather. We got it. The 50+ members who attended enjoyed the weather, plenty of good food and some wonderful conversations. Jon Dickason, N2JAC and Brad Allen, KB2CHY actually brought radios and operated from the picnic. I always enjoy talking to other RARA members and reminding myself that we are all in the club because we share a passion for radio. That is never more apparent than when we get together to chew the rag. We do have a great club.



However, as I write this the club is at a crossroads. The lack of volunteers from among our more than 620 members suggests that interest in our annual hamfest is waning. Perhaps this is a consequence of easy access to used gear online via ebay and Craigslist, a renewed interest in home brewing, or at least kit building a la Elecraft, or simply a natural change in our collective interests. I have enjoyed the hamfest during every one of the 28 years I have lived in Rochester as a ham and am sorry about the prospect of losing it but perhaps the membership is telling us it is time to let go.

I sincerely hope that the lack of participation by our members is an intentional message and not simply sloth. I would deeply regret losing this valuable local asset simply because our members are reluctant to give of themselves to support the hobby.

PREZ SEZ—AGAIN!

GARY SKUSE, KA1NJL—RARA VICE PRESIDENT

Wow, the response to our plea for volunteers for the RARA Board of Directors has been overwhelming. It is great to see so many of our members stepping up when we need them. Now our nominating committee now has the difficult task of selecting a board that complies with the guidelines specified by our bylaws from such a rich pool of candidates. It looks like we will have a pool of contacts that is deep enough to keep the board complete for several years. I personally want to thank everyone who has come forward to help the club.

CALENDAR OF EVENTS

- August 1st** – RARA General Meeting
7:00 PM at Henrietta Fire Co #1, 3129 East Henrietta Road
- August 6th** - RARA Board of Directors
5:30 PM RIT Engineering Hall, Room 2110
- September 5th** – RARA General Meeting
7:00 PM at Henrietta Fire Co #1, 3129 East Henrietta Road
- September 10th** - RARA Board of Directors
5:30 PM RIT Engineering Hall, Room 2110
- September 13th** – Thrill Before The Chill
7AM – Noon Damascus Shriners, Bay Rd, Webster

ANNUAL 2014 RARA BANQUET

YOUR BOARD OF DIRECTORS

Another RARA event being held in September is the **Annual RARA Banquet**, to be held on Friday evening, September 26, at the Burgundy Basin Inn, 1361 Marsh Road, in Pittsford. The menu will include the "Tuscon" roast sirloin, baked ham, chicken mediterranean, mixed veggies, rosemary potatoes, penne rigate, tossed salads, fresh fruit salad, asst. seasonal salads, rolls and butter, coffee-tea-milk, and dessert.

The social hour with a cash bar will begin at 6 PM, and dinner will be served promptly at 7 PM. The cost for this banquet is a very reasonable \$15 per person. However, if you have been of service to the club this year and earned points, you may use your points to cover the cost! The total amount of points needed per person is 30, just a small 'thank you' gesture for your service.



Be sure to make your reservations because no tickets will be available at the door. To make your banquet reservations go to our website and look for the banquet link on our home page. If you need more information please call the RARA Hotline: 585-210-8910.

We had a great time the last few years... good food and plenty of good socializing. The new Board for the 2014-15 term will also be introduced. Please join us, we assure you that you will really have a good time and enjoy yourself.

FALL LICENSE CLASSES STARTING SOON!

PAM KASPERKOSKI, W2PHK—RARA EDUCATION COORDINATOR

September means "Back to School." RARA — sponsored license classes will be starting up again in a few weeks, so this is a great time to take the plunge into Ham radio or upgrade your current license. Do you have a General or Extra license that has expired? New ARRL rules allow you to get privileges back just by passing the Tech exam again. Classes are a great way to brush up on current technology, share tips and make new friends.

RARA will offer classes at the RIT campus in Henrietta on Tuesday evenings from 6:30 to 8:30 PM. Classes will run for 10 weeks, and are FREE to RARA members and students. Manuals can be obtained through the club at a discounted price of \$22.50. As an added incentive for new hams, RARA helps subsidize the cost of a small two-way radio for Technician course graduates.

So, what are you waiting for? Sign up now or get more information by e-mailing pamelakasper@frontiernet.net.

THE THRILL BEFORE THE CHILL PART 2

LEN CRELLIN, KC2PCD

Last month Jim DiTucci and I wrote an article reminding everyone of the annual Flea market/Tailgating party at the Shriners in Webster, NY.

One thing we forgot to add was WE NEED VOLUNTEERS to help with collecting money at the entrance, selling food and running the 50/50 raffle. If everyone worked just an hour, that would make it much easier on the few volunteers we now have. Please contact Len, KC2PCD or Jim, N2IXD or call the RARA Hotline and leave a message (585-210-8910).



This event will be on **Saturday, September 13, 2014** and will open at 7 AM for vendors and 7:30 AM for all others. It will go to around Noon. It is conveniently located off Rt.104 at 979 Bay Rd., Webster, N.Y. 14580.

Upon entering, the staff will ask for a \$5 donation that will all go to help fund the Shriners Hospital for Children. Please spread the word and don't miss your last local flea market for buying and selling ham radio supplies in 2014.

Come have fun and Help the Kids!!!

Hope to see you all there! 73.



THE ANNUAL RARA PICNIC REVIEW

LEN CRELLIN, KC2PCD

On July 12 RARA held its annual summer member picnic. This year we returned to Mendon Ponds Park at the Stewart lodge to hold the festivities. Taking over for Lisa and Frank Schramm who ran all our picnics and winterfests for many years, were Jon Dickason, Bill Kasperkoski, Gary Skuse, Forest Shick, "Grillmaster" Jim DiTucci and myself.

Jon is willing to serve on the picnic committee for future events, but needs several new faces to help keep the traditions going each year. Please contact Jon or call the Hotline @ 585-210-8910 to let us know you want to help out.

The weather was perfect and those who found their seats under one of the big trees enjoyed it even better. It was toasty near the fire, but the team helped share the duties under the watchful eyes of grillmaster Jim.

Red and white hots, Italian sausage and quarter pound hamburgers with optional cheese made a steady trip from grill to indoor tables. They didn't seem to last very long before the order to fire up some more was given.

Even if meat was not your thing, we provided a full menu of items to try, including mac salad, potato salad, fruit salad, assorted lettuce salad, cole slaw and many more items home made by generous members who brought a dish to pass.





There were plenty of chips, pretzels, and assorted munchies scattered around and we also provided water, lemonade, teas and flavored water drinks on ice.

Now if that didn't fill you up, there must have been over a dozen different choices for dessert (although I know that many people were testing them before, during and after dinner)—hi hi!

There were a small number of radios being looked at, Jon Dickason brought a 2 meter APRS antenna he used at Field Day and Brad Allen even got his

HF rig and mobile antenna out and worked many stations after everyone had finished eating and were enjoying "tabletop rag-chewing" for a while.

Things started to break up about 3 pm, and the crew made sure we left the cabin as we found it.

We hope the 50 or so members and guests who came out enjoyed this year's event. 73.



2015 RARA HAMFEST COORDINATOR AND TEAM CAPTAINS

For a successful Hamfest in 2015, **WE, YOUR FELLOW RARA MEMBERS**, need volunteer Team Captains for all of the positions shown in the chart. Each of the Team Captains will also need volunteers to assist them with the execution of the teams responsibilities. WE are the volunteers.

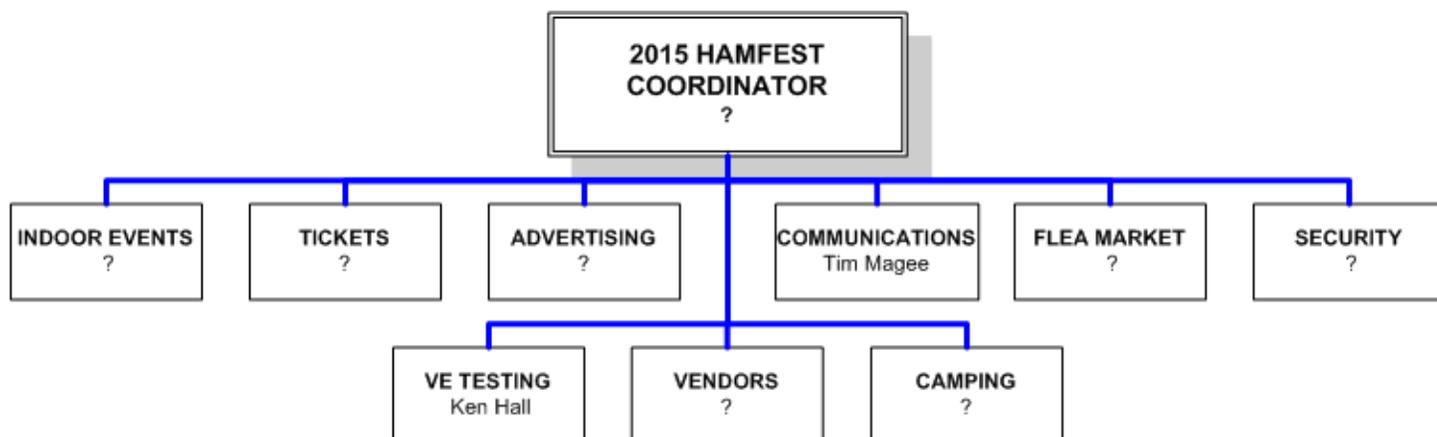
The **2015 Hamfest Coordinator** is the key to getting this all rolling. This person's leadership, supported by the Team Captains and their teams, will make the 2015 Hamfest a success. WE are the volunteer Hamfest Coordinator.

This is a big project and the reward for a successful job is seeing the delight of a new ham as he discovers a treasure in the flea market , a seasoned ham discovering the old rig he used as a novice, the joy of old friends united for a few hours, conversations over a burger, and much more.

Building teams, assigning responsibilities, executing the necessary tasks all take time and cannot be accomplished by one person on a weekend. WE must start now. The longer we wait, the harder the task, the lower the probability of success. Coordinating advertising and vendors takes weeks to months of planning to fit into other peoples schedules—as an example.

ALL of the blocks in the diagram, Hamfest Coordinator and Team Captains, must have volunteers by November 1, 2014 or the recommendation to the new Board of Directors will be to cancel the 2015 Hamfest. We are real people with real lives. Executing the necessary steps to successfully organize and run the 2015 Hamfest should not be a hardship with proper planning and organization.

Hard work—yes!
 Successful work—yes!
 Hardship—NO.



**AMATEUR
RADIO
FIELD DAY
EVENT
PUBLIC
WELCOME**

ARES Field Day



RDXA Field Day



XARC Field Day



WEATHER RADIO DX

JIM SUTTON, N2OPS

You have just caught the day's forecast on your scanner. Then you want to see what is happening on the other six weather radio frequencies. You hit the WX button again and discover something on every channel. Even though you have a good outside scanner antenna this is a first. Your curiosity is up and you have to know what is coming in. To your delight you are picking up a weather radio station clear across the great lakes. By the end of the morning you have logged several stations from different states. Welcome to the world of weather radio DX.

It's not just to get the forecast anymore. Weather radio can make some great DX loggings.

1	2	3	4	5	6	7
162.400	162.425	162.450	162.475	162.500	162.525	162.550
MHz						

The tools are in the following web sites:

Station Listings for the US

<http://www.nws.noaa.gov/nwr/nwrbro.htm>

Coverage Maps for the US

<http://www.nws.noaa.gov/nwr/Maps/>

Environment Canada Weather Radio

<http://www.ec.gc.ca/meteo-weather/default.asp?lang=En&n=8830FA44-1>

Canadian Weather Radio Stations

<http://www.dxinfocentre.com/wx.htm>

Additional DX Possibilities

Channel	19	21 B	23 B	25 B	26	28 B	83 B	85
Frequency (MHz)	161.55	161.65	161.75	161.85	161.9	162.0	161.775	161.875

Canadian Marine Weather Radio Stations

<http://dxinfocentre.com/cmb.htm>

Going Pro

Weather Radio Yagi

<http://www.amazon.com/National-Weather-Service-Antenna-Connector/dp/B005GWZ37C>

These maps will help you plan where your DX may be coming from.

Tropo Ducting Map

<http://dxinfocentre.com/tropo.html>

Combine this story with the previous two issues and you have some serious weather radio information at your fingertips.

For the ham those vacant weather radio frequencies make great beacons.

Til next time, 73 to thee.

RADIO ASTRONOMY NEWS

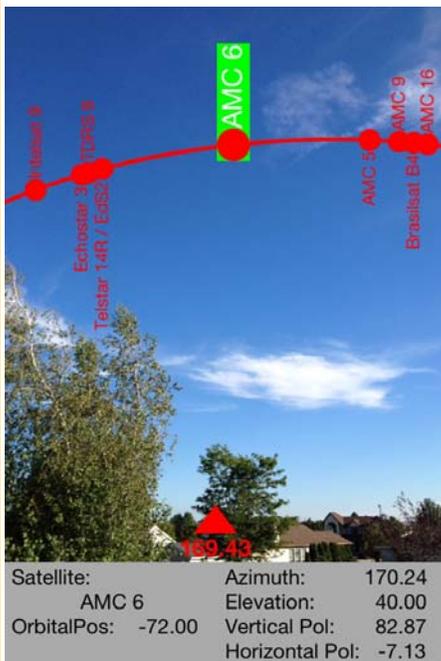
MARTY PEPE—MJPASTRO@AOL.COM

For those that have not been following our radio astronomy projects, here's a brief introduction. There are two projects presently being worked by teams of college students at the U of R, and Roberts Wesleyan College, and a third school, is about to join the effort this year (RIT). A small **Portable Radio Telescope (PRT)**, commonly known as an 'itty bitty telescope', and the second project, an RF solar spectrograph radio telescope.

The PRT is a compact miniature, battery operated system designed to demonstrate radio astronomy principles to both middle and high school students, as well as Boy Scout troops when they visit the ASRAS astronomy observing site in Ionia, NY. Anything above ground zero temperature (-273 K) gives off heat *and* radio waves (Yes, **you** give off radio waves). This unit enables students to discover these basic principles, even on a cloudy day when optical telescopes can't be used. They can look at and record the radio emissions from the Sun at 12 GHz. Their 'discovery' process is further challenged to find geosynchronous satellites in the 'Clark Belt' at Earth's Equator. This system has been demonstrated at public star parties.



Portable Radio Telescope (PRT), Dish, Signal Meter, Laptop and Battery Pack



'Typical' Geosynchronous Satellites in Earth's 'Clark' orbit

at Rockland Community College (site of NEAF). The crowds were great; we gave away all our handouts and business cards. As might be expected, the most interest was from astronomers who were also 'ham' radio operators; even some magazine editors inquired as to our operations. Most everyone could understand the RF emissions from the Sun, and even the emissions from one's body heat, but what really got them going was picking off geosynchronous communication satellites in the 'Clark' Belt. The results of which are captured as an electronic strip

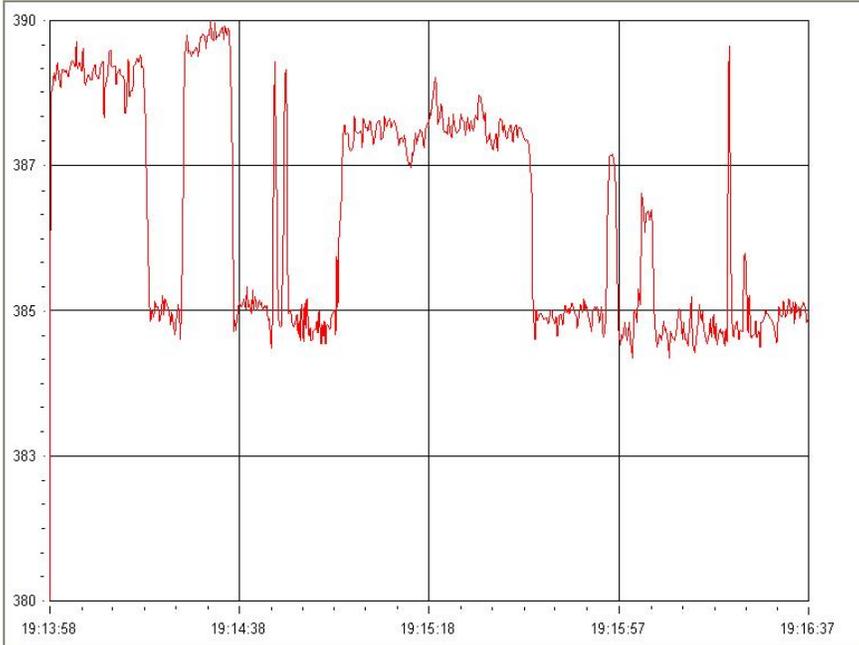
The second project is an RF Solar Spectrograph called **Callisto**, to study RF emissions from the Sun's eruptions (Sunspots, CMEs, etc.). This project is designed to do *real science*, and contribute to a global network of radio telescopes called 'eCallisto'. It consists of a converted 7foot 'C' band dish antenna, that will track the Sun from rise to set. Its front end and receiver is a special modified digital TV tuner (50 – 850 Mhz), controlled by a microprocessor, for both bandwidth and center frequency. Data is collected by a desktop PC running Windows XP. This data will be uploaded to a central server (in Zurich, SW) when we're fully operational, where it is archived for use by astronomers and scientists to better understand our source of heat, light and gravity.

This month we'd like to share the incredible response to our PRT demo at the North East Astronomy Forum (NEAF) this last May. We showed our fully portable (battery operated) system of the PRT (itty bitty telescope), including the lazy Susan rotary table mount. Saturday was nice and sunny and saw plenty of solar telescopes in the atrium



North East Astronomy Forum (NEAF) PRT Radio Telescope Demo

chart record. The only down side was I had to explain what a strip chart recorder was to the younger crowd. Alas it was cloudy on Sunday, so there was only one solar scope that could still 'see' OI Sol R. Next month we hope to share our progress on characterizing LNAs (Low Noise Amplifiers), which is at the head end of the signal path for our PRT system.

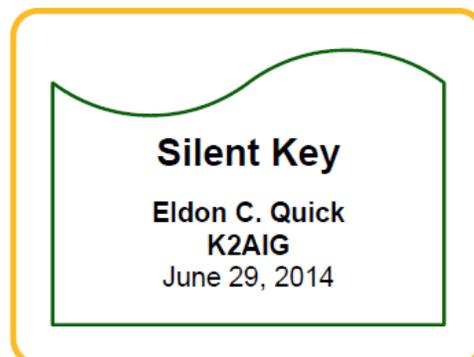


'Typical' strip chart plot of Geo Satellite's position. Horizontal Axis is time (sec), Vertical Axis is Signal Strength. Antenna is being swept(scan) in an East—West direction.

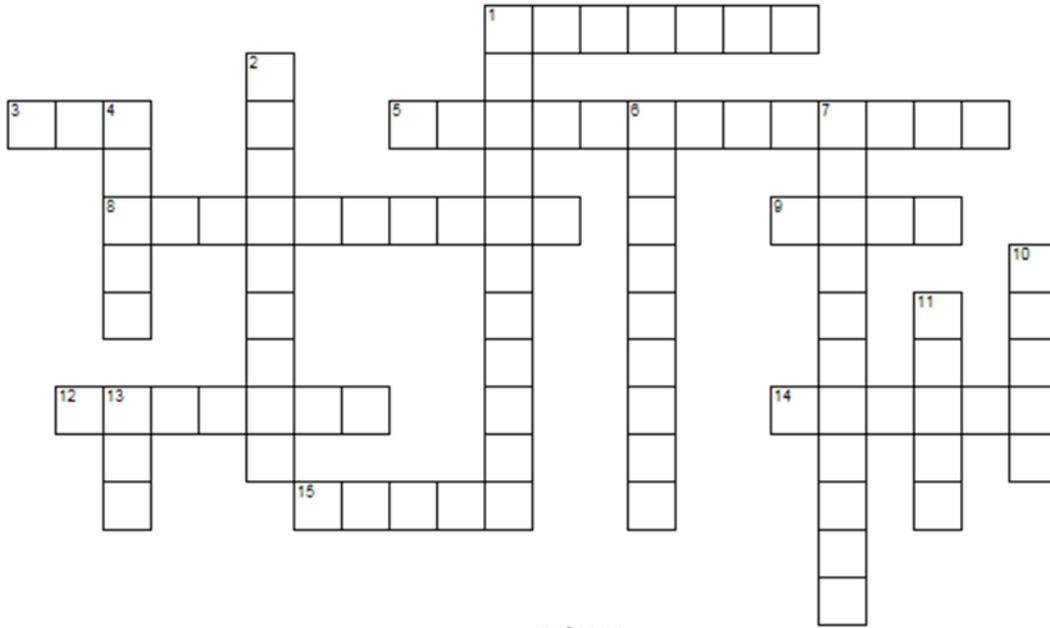
[Intro to Radio Astronomy - www.rochesterastronomy.org/Activities/RadioAstronomy.aspx](http://www.rochesterastronomy.org/Activities/RadioAstronomy.aspx)

[ASRAS - http://rochesterastronomy.org](http://rochesterastronomy.org)

[Callisto - http://e-callisto.org/](http://e-callisto.org/)



CROSS WORD PUZZLE



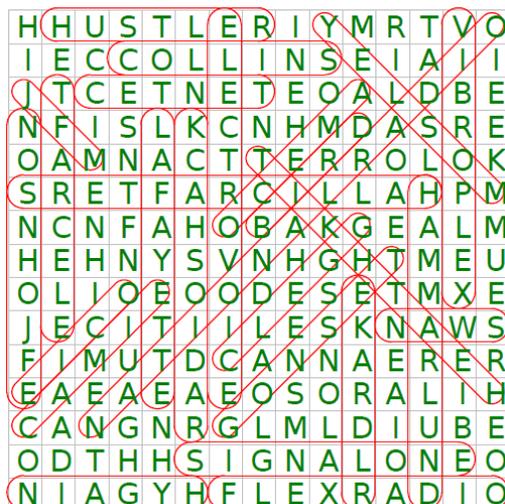
ACROSS

1. The movement of electrical charge.
3. Atom or molecule with a positive or negative electrical charge.
5. The process by which the amplitude of a signal is increased.
8. The ability to store energy in a magnetic field.
9. The terminal of a bipolar transistor in which control current flows.
12. A unit of measure of a quantity of electrically charged particles.
14. A wire antenna with a feed line connected to its center.
15. Measure of a quantity of energy.

DOWN

1. The ability to store energy in an electrostatic field.
2. Material in which it is difficult for electrons or ions to move.
4. Any unwanted signal, usually random in nature.
6. The rate of change of an AC voltage or current.
7. A device that produces radio signals.
10. A mentor.
11. A 2 element semiconductor with a cathode and an anode that conducts current in only one direction.
13. Unit of resistance.

This is the solution for the July 2014 puzzle



BOARD OF DIRECTORS OFFICER'S RESPONSIBILITIES

Position	Responsibilities	Term Length and Limit
President	<ul style="list-style-type: none"> • Preside over all meetings of RARA and the Board of Directors. • Appoint committees and sub-committees. <ul style="list-style-type: none"> • Serve as an ex-officio member of all committees. • Represent RARA in all official capacities. • Assure that all RARA by-laws are adhered to. 	<ul style="list-style-type: none"> • One year term • Two consecutive terms
Vice President	<ul style="list-style-type: none"> • Organize programs for monthly RARA meetings. <ul style="list-style-type: none"> • Identify, invite, and confirm speakers for the meetings. • Invite Dick Goslee and Ed Gable to run the annual auction in November. • Assist at the annual auction by tracking items sold and prices paid. • Notify the Membership Secretary of membership points earned by members. • Write a monthly article for the RARA Rag describing that month's program. • Organize annual Winterfest. 	<ul style="list-style-type: none"> • One year term • Three consecutive terms
Secretary	<ul style="list-style-type: none"> • Record all minutes of all meetings of the Board of Directors. • Record minutes at the annual membership meeting in September. • Keep physical and electronic records of all meetings during their term. • Retrieve all mail on a bi-weekly basis from the RARA P.O. Box. • Monitor newspapers for recent announcements in obituaries for Silent Keys. • Supervise the annual election. 	<ul style="list-style-type: none"> • One year term • Three consecutive terms
Treasurer	<ul style="list-style-type: none"> • Pay via check at monthly RARA meetings for costs incurred for that meeting, including costs for refreshments and raffle items. • Collect and count the refreshment collection, as well as raffle ticket sales at the monthly meeting. • Collect any membership dues payments and submit membership information to the Membership Secretary. • Present reports at monthly Board of Directors meeting from Citizens Bank account and Quick Books Pro account information. • Record all debits and credits executed every month. • File Postcard form 990 with the IRS. • Prepare 'straw man' financial outlook for the next Fiscal Year. • File all paperwork on all financial transactions for the fiscal year. • Present annual financial report to the membership at annual meeting. 	<ul style="list-style-type: none"> • One year term • Three consecutive terms

NEWS FROM AREA CLUBS

MONROE COUNTY ARES / RACES NEWS

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

REMINDER: We do not meet during the summer months of July or August.

The next ARES Meeting will be held on: **Thursday, September 25, 2014, at 7:00 PM.**

Meetings are held at the **Greater Rochester Chapter of the American Red Cross HQ, 50 Prince Street, Rochester, NY 14607.** (Located behind the Rochester Auditorium Theatre, 885 Main St. E.)



ARES NET: Monroe County ARES/RACES meets on the air every Thursday of the month at 9:00 pm, on the 146.61 MHz (-) 110.9 Hz PL repeater. The only exception to that are nights when we hold our regular meeting, generally on the 4th Thursday of the month.

WEB: www.monroecountyemcomm.org

NBEMS: Want to learn about Narrow Band Emergency Messaging System (NBEMS)? It's the latest and easiest way to "Go Digital!" Bring your laptop computer and 2-M handheld transceiver. We will conduct an NBEMS clinic after every meeting through 2015.

ROCHESTER RADIO REPEATER ASSOCIATION, RRRRA

SQUAW ISLAND AMATEUR RADIO CLUB, SIARC

The Squaw Island Amateur Radio Club (SIARC) meets every second Wednesday of the month at 7:00PM at the Ontario County Safety Training Facility, 2914 County Road 48, Town of Hopewell. If we have VE testing we meet at 7:30PM with VE testing starting at 6:30PM.

There will not be an August meeting due to the Annual SIARC Picnic on Saturday August 8th.

The next regular meeting will be on September 10th at 7:00PM.

GENESEE VALLEY AMATEUR RADIO ASSN.

We had a great turn out for testing on Field Day June 28th. We had 9 people show up to test. Of those 9, we had 7 take the Tech exam, 6 passed, and of those 6, two also passed their General exam. Of the other two, 1 attended to take their General exam and the other to take their Extra exam, both were successful. It was the best turn out we have had for testing yet! We were told by 2 people that traveled from Lancaster, we were the closest in the state and the last to offer an exam session before the new question pool for tech went into effect.



We were set up for Field Day at Vitale Park in Lakeville. This proved to be a great spot! We had 3 radios operating, 2 HF and 1 VHF/Digital Station. Many people visiting the park also stopped to see what we were doing and were impressed with Amateur Radio. One person who passed his exams that day came back later in the evening and sat with us for a few hours taking it all in.

Our next two meeting are September 28th and October 26. We are planning on presentations at both of these on home brewed antennas. If you would like to show off your antenna, with directions on how to build the antenna, contact Billy Boyd, N3DSP, at n3dsp@lafireline.net

Have a safe summer and hope to catch you on the air!

DRUMLINS AMATEUR RADIO CLUB

Our meetings are held the third Wednesday of each month. Doors open at 7:00pm, meeting starts at 7:30pm at the Wayne County EOC, 7376 Route 31, Lyons. VE sessions held before the meeting on even months. Talk-in before meeting on 146.685-.

ROCHESTER VHF GROUP

The Rochester VHF Group sponsors an informal On-Air Net on 144.260 USB every Monday Night at 2100 local, and a 6 Meter Net on Thursdays at 2100 local on 50.200 USB.

More information can be found by visiting www.rvhfg.org or just calling in any Monday or Thursday night. Give it a try!

Microwave Update 2014

The annual Microwave Update (MUD) conference will be held on October 24-25, 2014 in Rochester, NY.

The Rochester VHF Group (RVHFG) is hosting MUD 2014 at the Rochester Marriott Airport Hotel. Microwave Update is an annual technical conference and includes presentations by leading amateur radio microwave experimenters. Attendees from all over the world have the opportunity to discuss the latest technical developments and operating achievements taking place in the 902 MHz-and-up amateur radio frequencies. There will be test equipment for measurements including noise figure up to 47 GHz. The conference will conclude with the Saturday evening dinner banquet. For early arrivals on Thursday, there will be a tour at the nearby Antique Wireless Association (AWA) Museum.

For full details and registration, go to the Microwave Update 2014 website www.microwaveupdate.org .

The call for papers and presenters also appears on the website.

ROCHESTER DX ASSOCIATION, RDXA

No meetings are held in the months of July and August.

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. |

VISIT THE RARA WEBSITE!

Did you know that your club's website (www.rochesterham.org) offers these features and more?

- Photos of meetings & events (you might be in there!)
- Info on upcoming meetings/programs
- Rochester Hamfest information!
- Online membership & renewal
- Track and redeem your Reward Points
- Public service info & sign-up
- VE testing info
- Back issues of the *Rag* in PDF
- Officer contact
- List of past presidents
- Online membership directory
- Order RARA logo products
- Useful Internet links
- Ham Radio 101 – tons of tutorial info, plus net & repeater listings



RARA MARKETPLACE

Your commercial ad could be here! The RARA Rag can help spread the word on your business at very reasonable rates.

Contact us for details at editor@rochesterham.org.

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For more information: Editor@RochesterHam.org

RARA OFFICERS

OFFICERS

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Secretary: Len Crellin, KC2PCD (585) 267-9805

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