



THE RARA RAG

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

VOL. 65

May 2013

NO. 9

Old Timer's Night: History of the Car Radio

By Gary Skuse, KA1NJL
Vice President, RaRa

Our May program features a ham who genuinely needs no introduction, Ed Gable, K2MP. Ed has contributed immeasurably to the hobby in many ways., He has mentored local hams, presented at numerous RARA meetings and has been part of the memorable duo who for decades has made our annual auction both entertaining and a resounding success for the club. His vast and deep experience and knowledge of all things radio make Ed the perfect individual to present our annual "Old Timers Night" program.

When asked if he would again provide insights into the history of radio, in a fashion that he is uniquely qualified to do, Ed not only responded affirmatively but he provided the following narrative...

"It was mid-1927 when a major radio manufacturer was featured in a three-page radio magazine spread featuring his new automobile radio. This was a dream come true for many of the readers who jumped at the chance to get this marvel of the century, RADIO, into their Fords and Chevys. There was only one problem; the article was a total fake. It would take a few more years and a lot of hard work and good luck before the car radio became a reality and made fortunes for some and while causing others to go bust." Ed has performed for our benefit, another one of his well-known original research projects on this subject and will share that interesting history with us. Ed is more than a little interested in the car radio field as he started repairing and installing automobile electronics at the age of sixteen for his gear-head buddies in High School. He still enjoys repairing vintage car radios for area car club members, but "don't bring me any solid-state stereo CD/Cassette junk," Ed says, "it's gotta have tubes."



The May meeting is scheduled for Friday May 3rd at 7:00pm in the Henrietta Fire Company #1 located at 3129 East Henrietta Road near the corner of Lehigh Station Road. Please join us for a look at the history of that ubiquitous and increasingly complex device that we all take for granted in our own automobiles.

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RARA Meeting
May 3rd, 7PM

Henrietta Fire Co. #1
3129 East Henrietta Rd. (15A)



The Prez Sez

By Bill Marinucci, WB2GHC
President, RaRa

Hamfest season is now in full swing, and the granddaddy of them all, the Dayton Hamvention, is rapidly approaching. So, speaking of hamfests, let me talk a little about this year's RaRa hamfest, which is being called **Ham-O-Rama 2013**. The date for this event is **Saturday, June 15, 2013 at the Rochester Institute of Technology**, and it begins at 7:00 AM. The Ham-O-Rama will have a different look to it this year, for a variety of reasons.

As you know, the RaRa hamfests for the last four years have continued to grow at a rapid pace, and each year the bar, and expectations, were raised higher and higher. The folks who were on the Hamfest committee worked extremely hard doing hours and hours of countless tasks to make these outstanding events happen. However, they have reached the point of needing a break, and they respectfully are stepping back this year. Speaking very honestly, there was considerable discussion at the Board meetings to not have a Hamfest this year, to take the time to regroup and put together a strong hamfest committee to give the rather 'newbies' at hamfest planning the opportunity to be mentored and become proficient at planning and executing a hamfest model. There was also a feeling that our membership deserves a hamfest this year, and that one could be put together in time, but it would have to be on a smaller scale. Serious debate followed, and the consensus was to have a scaled down hamfest in 2013. First and foremost, the task was to find a committee chairperson, someone who was willing and capable of filling this position. That proved to be extremely difficult, and very disappointing.

Time continued to pass by quickly, and something had to be done on an urgent basis to start the process. I, as the president of RaRa hesitantly volunteered to take this leadership position though I have little experience in pulling together something of this magnitude. It should come as no surprise to learn that the biggest challenge in making a successful hamfest is getting sufficient and experienced volunteers to fill the open positions of responsibility and execute the tasks associated with these positions. However, we had to move onward and forward!

Last year, all attempts were made to have both a Hamfest and Technology Expo. Countless numbers of vendors in both of these areas were invited. Surprisingly, the response was disappointing on the technology side as there was little to no interest expressed by the invited vendors. So many of you asked why we did not have the major suppliers there, why didn't we invite them, etc. The fact is, **all** of them were invited, and almost all declined for various reasons. Largely, it was the distance needed to be traveled, the number of attendees, and what is now a trend in shopping. It is happening in almost all businesses; people 'browse' at the items they are looking for, then go home and order them on the Internet or on an '800' number! Some stores are now considering a charge for browsing and information seeking, which will be refunded if you make a purchase. Its effect? This year, AES will NOT be at Dayton! Only the very major hamfests attract the larger vendors, and now even that is changing.

The bigger draw now at small to mid-size hamfests is the 'flea market' where one can find great bargains and often some hard-to-find items as well. Socialization is also a big factor, along with some 'breaking bread' together. With this in mind, Ham-O-Rama 2013 will be an all-outdoor event, with a smaller venue for VE testing, RaRa membership services, and RIT's Crossroads restaurant will also be opened just for us to get some good grub for both breakfast and lunch. There will be a large outdoor eating area with tables, etc. The Ham-O-Rama will be in Parking Lot 'S', which is a very large lot that will accommodate a big flea market and more than sufficient parking. Walking distances are short, flat, and easily navigated. Vendors have been invited, and understand that this is an outdoor

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Calendar of Events

- May 3** **RaRa General Meeting**
7:00 PM - Henrietta FD #1
3129 E. Henrietta Rd
- May 8** **RaRa Board of Directors**
5:30 PM, RIT Engineering
Hall, Room 2110

**Rochester
HAM-o-Rama!**

event as well. Note that the price of admission has been reduced from \$8 to \$5 per person (free to RaRa members), and a \$5 vehicle charge for each space occupied in the Flea Market. The Ham-O-Rama will be what you make it, and I truly believe that it will be a great time! I have put in my request for great weather... let's hope I am heard.

73!

Missed a Meeting? Catch it Online!

Have you noticed that we make videos of every RARA meeting presentation? We do that each month so that anyone who could not attend the meeting can still enjoy our programs. As a bonus, anyone who did attend the meeting and wishes to revisit the program can do so. All of our videos are posted to YouTube for your viewing pleasure. Point your browser to www.youtube.com/theraravideos, relax and enjoy.

Membership Bonus Points

by Bill Kasperkoski WB2SXY

The Rochester Amateur Radio Association's Board of Directors approved an additional membership point-bonus to be included in the Public Service Point system already in effect for rewarding RARA Members.

Bring in a new paying RARA member and you will receive five RARA membership points. You can apply your membership points toward your annual membership renewal, the cost of the club banquet, the purchase of club clothing and other equally desirable items.

VE News

By Ken Hall W2KRH

In February we had 5 successful candidates; One Technician, three General and one Extra. In March we had nine successful candidates with six Technician, two General and one Extra, a very nice-sized session. Our next session will be at the Ham-O-Rama in June.

Here are the new licensees:

Thomas	Krahl	KD2DNE	T
Joseph	Clark	KD2DJZ	G
Eric	Miller	KD7LTN	G
Michael	Stanton	KD2DNF	G
Brian	Chaffee	KD2CLL	E
Mark	Bernreuther	KD2DTI	T
James	Gambacorta-Hoffman	KD2DTJ	T
Joseph	Gangi	KD2DTK	T
Michael	Gerega	KD2DTL	T
Arthur	Harris	KD2DTM	T
John	Hatakeyama	WH6EDN	T
Thomas	Krahl	KD2DNE	G
Richard	Watson	KD2DTN	G
Joseph	Clark	KD2DJZ	E

RaRa LOGO Items



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Silent Keys

Delmar "Ted" Fredrickson
K2ROC

December 3, 2012

Robert J. Rosenberg
W2EOJ

April 2, 2013

Sherwood Snyder W2KFU

April 2, 2013

John D. Petrilli WB2FZH

April 13, 2013

George Platteter AA2FO

April 15, 2013

Ham Tech: Club Log

By Duane Fregoe, K2SI

Electronic logging is becoming more the norm today. There are many great programs available for recording your contacts on a computer. When you have all these contacts saved on your computer what can you do with them? Most logging programs allow you to export your contacts to an ADIF file. Once you create that file you can upload or import to a number of sites. Logbook of the World and eQSL are two of the more popular sites for confirming contacts. Other sites like www.QRZ.com and www.HRDLog.net allow you to upload your ADIF file. Uploading to QRZ does require a paid account.

Another website that is relatively new is www.clublog.org. From the website; "Club Log is a web-based application that analyzes log files from radio amateurs all over the world. Using the logs, Club Log offers you a wide range of reports for your own benefit, and identifies large scale trends from the sum of all activity in the database." Soon after you upload your logbook you will see some interesting data in an easy to read format.

From the Timelines tab under Your Log you can get figures 1 and 2.

If more than 10 members of a radio club are currently using Club Log and an officer of the club notifies Club Log, they will add your club to the website. It is a convenient way to see other club members DXCC counts by band. It would appear that you can be a member of more than one club on Club Log. If you are currently a member of the Rochester Amateur Radio Association and using Club Log please let me know. If we get more than 10 members we will attempt to get RARA in the list of clubs. If you have your QSO's in electronic format sign up for Club Log and give it a try.



Editor's note: In last month's Ham Tech column, an error was introduced during editing regarding grid squares. The corrected info follows: SECTORS are 10 degrees by 20 degrees and the GRID SQUARES are 1 degree by 2 degrees. Tnx—Don, N8DE for bringing this to our attention. K.C.

QSOs by Year

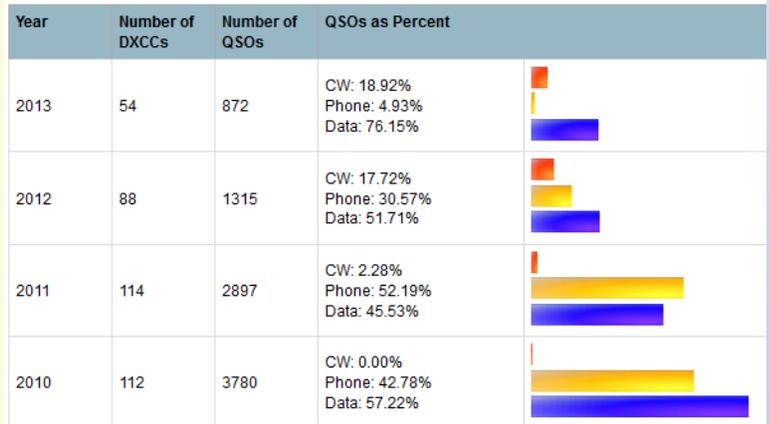


Figure 1

DXCC Entities (current)

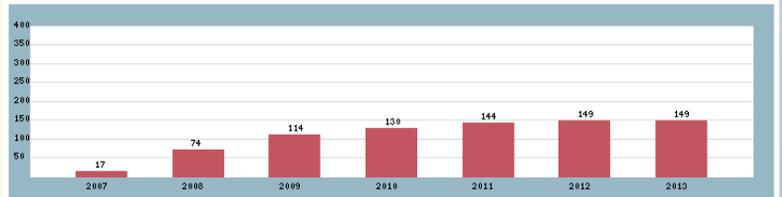


Figure 2

Verified (Awarded)
 Confirmed
 Worked
 Not worked
 [Click these](#)

Entity	Phone	CW	Data	QSL suggestions
ALAND ISLANDS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
ALASKA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
ANDORRA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
ANGUILLA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Mode and QSL Chart

Verified (Awarded)
 Confirmed
 Worked
 Not worked
 [Click these symbols in the chart to](#)

The following table is for K2SI including linked callsigns.

Zone	160	80	60	40	30	20	17	15	12	10	6	4	2	70
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CQ Zone Chart

RaRa Rags of the Past

By Ed Gable, K2MP
RaRa Historian

20 Years Ago, May, 1993

The May program was the ever popular, educational and outrageously entertaining Old Timer's night put on by the Antique Wireless Association and Bruce Kelley, W2ICE. Bruce just happened to bring along a 1kW spark transmitter to augment his talk on the history of amateur transmitters from 1900 to 1960. This meeting was also the annual RaRa business meeting where elections and other business took place. The nominating committee, consisting of Ed K2MP, Chet WB2MDO and Joe K2YA, presented their slate of officers and Directors, each of whom had bios printed herein. Who won? Well, we will have to wait until next month to find out the results.

The 1993 public service calendar had three notable events that have lasted all of these 20 years. They are; Tour de Cure, Walnut Hill Driving Competition and the Stuart Horse Trials. Then RaRa President Lloyd Caves WB2EFU, wrote a long article encouraging everyone to attend the 3-day Rochester Hamfest. This was the heyday of hamfests and Rochester was easily in the top 10 on the planet with thousands of attendees in 1992. Hamfest Chairman Harold Smith, K2HC, also penned an article giving hamfest details. Lloyd's President's Corner articles are great reading even today as he has a relaxed writing style yet packs a lot of interesting data into a small space that was often red with editor's ink.

This was a time of celebration for the Rochester VHF Group which, after years of trying, achieved a BIG WIN in the January VHF contest by beating the Pack Rats with a score of 2.5 million points. Not only was there a huge combined entry score, but 9 RVHFG stations achieved scores that landed in the top 10 high scores nationwide. Laudable scores went to: N2WK, W2HPF, VE3ASO, KD2YB, KD2KQ and KD5RO/2. From the Want Ads you could buy a Commodore 1280 computer, with color monitor, from Paula, N2KUM. Sherwood Snyder W2KFU (SK) from Snyder and Snyder Attorneys at Law remained a long term commercial advertiser.

40 Years Ago, May, 1973

This meeting brought two local amateurs to the front of the Farm and Home center stage. Speaking on the virtues of RTTY were Joe Hood K2YAH and Bob Reifsteck K2LZG. Their on-air demonstrations included features of auto-start, auto-switch, and anti-space techniques. The Antique Wireless Association presented its Grand-Old-Ham award to George Batterson, W2GB (8TC) (SK). George told this author "I was licensed in 1912, after hearing on-air radio traffic from the Titanic, and became hooked on this wireless stuff."

This meeting was also the annual RaRa business meeting where elections and other business took place. The nominating committee, consisting of George K2OIU, Hogie K2RZI and Al WB2MCP, presented their slate of officers and Directors, each of whom had bios printed herein. Who won? Well, we will have to wait until next month to find out the results. Rich Koehn, WB2SNA, wrote to introduce plans for RaRa's 2nd annual camp out to be held at the Crazy Horse camp grounds near Niagara Falls, NY. Allied TV & Radio, Wally Kincaid WB2HZG, Manager, was a new commercial advertiser.

News from our friends at other area clubs...

Monroe County ARES / RACES News

By Jim DiTucci, N2IXD

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. The next ARES Meeting will be held on: **Thursday, May 23, 2013, 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 June 2013.

RRRA News

By Bob Shewell, N2HJD

I hope everyone that attended our April meeting enjoyed it. It was different than mentioned here in the *Rag*. Our presenter had not verified by the time that I had to submit the article. You can sign up for our RRRA reminder email. This email reminder is similar to the RARA service, and can inform you of any last minute changes to our program. Contact our VP Max Kessler about being added to the list.

RRRA's program for May is going to be on cable access television. Raj Barnabas from RCTV will present this topic. Hope you can all attend. There will be refreshments.

Editor's Note:

Free press is available for your club! We welcome brief updates and meeting notices from all area ham clubs. Just send your input to editor@rochesterham.org. When preparing your article, please remember to keep it short, and assume that readers know nothing about your club. The article should be focused toward non-members, and not your own current members... that's what your newsletter is for! We hope all area clubs will take advantage of this opportunity to interest new members in joining their ranks.

73, -Kevin



Imagine RIT

By Ian MacKenzie, KB3OCF - RIT ARC (K2GXT) President

Imagine RIT is just around the corner, and the RIT Amateur Radio Club, K2GXT, will be exhibiting! For those who have never been to Imagine RIT, it is a festival focused around creativity and innovation at the Rochester Institute of Technology. The club will showcase several technologies relevant to amateur radio, such as software defined radio (SDR). Our exhibit will be located in the Clark Gym; we would love to have you stop by.

The festival is on May 4th from 10 AM to 5 PM, and is open to the general public, with displays for all ages. We hope to see you there! To find out more about our exhibit, please visit:

<http://www.rit.edu/imagine/planyourday13/exhibit.php?id=426>

RVHFG News

By John Stevens WB2BYP

The Rochester VHF Group (RVHFG) holds a twice-weekly net on 144.260 USB at 2100 local (9 PM) on Monday and Thursday nights. You don't have to be a member to join in; just stop by and say hello. It is a great way to exercise your weak-signal gear, and see how well others are hearing you. There is no set topic, although typically there are announcements of upcoming events, and informal chats on what people are working on related to HF/VHF/UHF/SHF gear.

The net switches to 50.200 USB at or about 2130 local (9:30 PM) and does a similar call-up. If any stations have capability on higher frequencies, we go to 222, 432 or 1296 MHz too. Everyone is welcome.

More info on RVHFG is available at www.rvhfg.org.

Radio Kit Guide

Info submitted by Larry Mac W8LM

You can still build it at home! The Radio Kit guide contains a comprehensive listing of kit providers for amateur radio.

Those interested in the wide variety of amateur radio kits available today may want to check out the following guide online:

<http://fofio.blogspot.com/2013/02/radio-kit-guide.html>

FOR SALE

Never been used Yaesu radio...

YAESU FT-100 compact mobile all-mode transceiver HF/VHF/UHF with operating manual and FP 1030A Power supply. Still in the original boxes. Price: \$600. Contact Mary Gulick N2JPU by email at: mbgulick@aol.com



R·I·T



Radio Kit Guide



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 clubs 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, cooperation 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 info
- ✓ List of past presidents (how many do you remember?)
- ✓ Online membership directory
- ✓ Order RARA logo products (hats, shirts, and mugs)
- ✓ Useful Internet links
- ✓ Ham Radio 101—tons of tutorial info, plus net & repeater listings



THE RARA MARKET PLACE

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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You'll Silence It for Conversation, Mute It for Safety by TIP-TOE—
Press the foot-knob lightly and program is hushed so you may talk to passengers, or listen all-quietly for any reason whatsoever. Release pressure and program goes on again—instantly—warm-up.

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The automotive industry has always led the way in adopting the new and practical to promote greater driving safety, convenience and pleasure.

That's why today you never crank an engine, nor use a hand throttle, nor reach a hand to dim your headlamps. You do it by foot! In tomorrow's cars you'll tune in the radio by foot. Station after station, as loud or soft as you please without ever taking your

hands off the wheel or your eyes off the road. Leading car designers, safety engineers and insurance companies welcome foot-control as the modern trend in auto radios. It is destined to be as great a safety factor as four-wheel brakes, shatterproof glass and all-steel bodies.

Zenith is proud to make this contribution toward the ultimate in driving pleasure and safety for America's motorists.

The foot-control auto radio is ready. It was developed by Zenith for America's car makers. It will be sold only as original equipment and through car manufacturers and their dealers.



Buy More War Bonds!

THE RARA RAG

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..... Sabrina Hamill, WD2STK
Club Historian Ed Gable, K2MP
Club Station Trustee Jim DiTucci, N2IXD
Education Coordinator
Hamfest Producer
Public Service Coordinator Joe Walker, KA8WJH
License Testing Coordinator Ken Hall, W2KRH
Membership Secretary Lisa Schramm, K2BGR
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Refreshments Coordinator Tom Austin, KA2GXX
Webmaster Frank Schramm, WB2PYD

RaRa meets on the first Friday of each month from September through May at 7pm. come join us at:

Henrietta Fire Company No.1
3129 East Henrietta Rd.
Henrietta, NY 14467

[Get Directions](#)

Rochester Area Radio Club Contacts

Antique Wireless Association (AWA)

Lynn Bisha, W2BSN lbisha@rochester.rr.com

Drumlins Amateur Radio Club Ltd. (DARC)

Glen Bruemmer, KC2YGH kc2ygh@yahoo.com

Fisherman's Net Amateur Radio Club

Jim Sutton, N2OPS jim@otrym.org

Genesee Valley Amateur Radio Assn

Bill Boyd, N3DSP N3DSP@lafireline.net

Monroe County ARES

Jim DiTucci, N2IXD n2ixd@arrl.net

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Frank Schramm, WB2PYD wb2pyd@arrl.net

Rochester DX Association (RDXA)

Mark Hazel, K2MTH mthazel2151@yahoo.com

Rochester Radio Repeater Association (RRRA)

Brad Allen, KB2CHY kb2chy@frontiernet.net

Rochester VHF Group (RVHFG)

John Stevens, WB2BYP wb2byp@arrl.net

Squaw Island Amateur Radio Club (SIARC)

Steve Benton, WB2VMR sbenton2@rochester.rr.com

XEROX Amateur Radio Club (XARC)

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June Rag Deadline
May 15, 2013

