

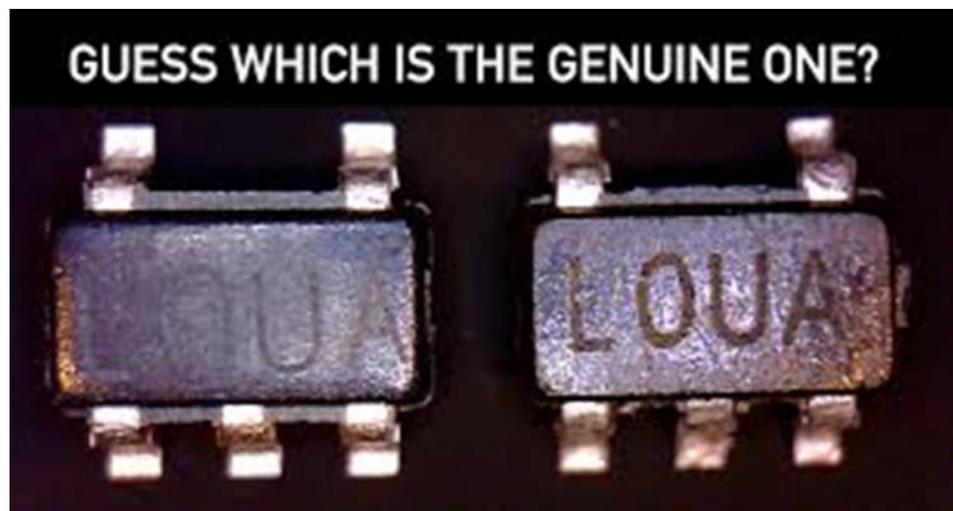


THE RARA RAG

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

WHICH ONE IS GENUINE

ANAND CHOUDRI, KC2KPG - RARA VICE PRESIDENT



I can't tell – I have no clue what those things are. I am sure that all of us have at some point in time bought something that was not genuine. I am sure because counterfeiting is so prevalent that if you haven't bought a counterfeit product by now, you will at some point in the future. The odds are against you. However, you can minimize your chances of getting duped by equipping yourself with information.

Knock-offs, these days, look so good that it is truly difficult to tell the fake from the real one. I recently was planning on buying an antenna for my HT. Is it that cheap because it is made in China or because it is a fake? It was probably a fake made in China. Yes, China is a source of an incredible amount of counterfeit goods.

As I said, information is power and we have someone with that power who has kindly agreed to share his knowledge with us. Tom Calvete, KA2OMQ, will be the speaker for our February RARA meeting. Tom was first licensed in 1982 after completing a RARA class. He has been employed by Harris RFCOM since 1977 as a Quality Engineer, a Test Engineer since 2000, and as a Component Engineer. He has worked on counterfeit issues since 2006. So he has quite a depth of knowledge regarding counterfeiting. His process DPMO (that is, Defects Per Million



FEBRUARY 2016
VOLUME 68, ISSUE 6

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Opportunities) since 2006 is about 500. He'll explain what that means. Tom is a member of the SAE G19A Counterfeit Avoidance Test Procedure committee (AS-6171). He, as part of this group, is writing the SAE standard to be used by all US defense contractors.

Do you know what happens to your cell phone after you drop it off for recycling?

How is Mr. T involved in Counterfeit item detection?

Where is Shenzhen and how does it relate to Counterfeits?

Come join us on Friday February 5 to find the answers to all these questions and more when we explore the business of counterfeit electronic parts. How can we find them and how can we avoid them. Tom will also talk about the history of counterfeiting, but only from 2003 to date, so as not to bore you.

Why did counterfeiting start? How are counterfeits produced? How can they be detected? What is the government and industry doing to avoid counterfeits? And most importantly, how can you avoid counterfeit parts? Remember, Friday February 5th at 7:00 pm in the Boys' Scouts building at 2320 Brighton-Henrietta Town Line Road.

CALENDAR OF EVENTS

FEBRUARY 5TH - RARA General Meeting

7:00 PM at BSA Headquarters, 2320 Brighton Henrietta Town Line Rd

FEBRUARY 18TH - RARA Board of Directors

5:30 PM RIT Engineering Hall, Room 2110

FEBRUARY 20TH - VE TESTING

9:45AM till 12 noon RIT Gleason Hall, Room 9-3139

FEBRUARY 20TH - RARA WINTERFEST

11:30 AM STEWART LODGE - MENDON PONDS PARK

PREZ SEZ

WILL MULLANEY, KC2VJSJ—RARA PRESIDENT

Welcome to another edition of Prez Sez! During our January meeting, we announced that we temporarily suspended our VE testing sessions. Based on feedback from applicants, VE's, and other observed over the period of a few months, I posed a motion to the board to suspend testing, remove our then-current VE coordinator, and direct the Board to form a committee to address the issues, appoint a new coordinator(s) and create policy and procedure that would make the testing experience better for both those taking and those administering the test. The board passed the motion unanimously and our January testing session was cancelled, ending the reign of 4 hour long testing sessions. The following week, the board met and appointed Don Kiser to lead this committee, comprised of several interested VEs and RARA members.

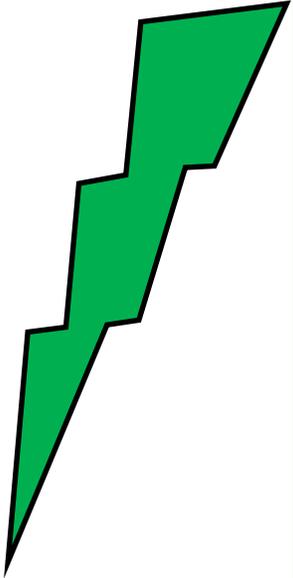
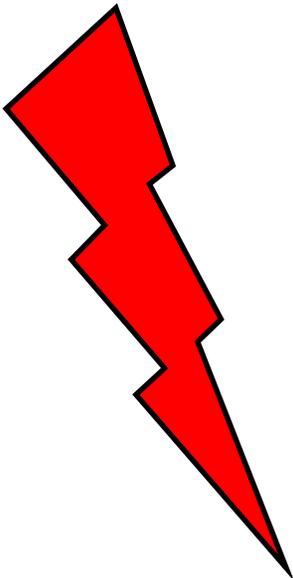
Don and several VEs spoke with Laurel VEC, then met immediately to discuss the issues that had been occurring and to determine ways to solve them. The VE team held in-person training with regard to their new procedures and has returned notice to the board that they will be ready to resume testing in February, held on our normal date of the 20th. Don Kiser and Gary Skuse will act as VE coordinator and assistant coordinator respectively, and the team will continue to refine their policies and procedures as they move forward. An independent BoD member will attend the next few sessions to provide independent oversight and feedback.

I'm proud of the efficiency and expediency with which this issue was handled. I believe that this will put things back on track and restore the testing process to be like the great experience I had when I tested at RIT several years ago for my general license. Additionally, as this revamping has been performed by VEs who actually have done the job and understand the process, I believe the policies and procedures produced will be more efficient and useful than having an outside group (such as the RARA BoD) attempt to create them for the VE team. My sincere gratitude to all those who stepped up in such short notice, and all the VEs and club volunteers in general who spend their own time and money to help the club and to help other HAMs in the community.

With that said, there will indeed be VE testing at the Rochester HAMFEST! Both members and non-members may attend free VE testing at the HAMFEST. Speaking of the 'fest, you're probably wanting some more details. Our festival committee, led by Ev Tupis, has been hard at work identifying a great site and putting together all the details. Unfortunately, as many things in life tend to go, we're held up on our announcement while we finalize our negotiations with the site and sign on the dotted line. Anyone who has ever closed on a house probably knows how there always one last little thing holding up the works, and while that won't be sorted by the time this article gets submitted to our editor, I think we should be squared away by the time you're actually reading this. We'll make a follow-up announcement to keep everyone in the loop.

Finally, don't forget that this month is our RARA Winterfest. Check out Anand's article on it; I hope to see you there. Our meeting this month is scheduled for Friday the 5th, and we will continue to offer a break-out session for beginners. Join us at both events!

Regards,
Will Mullaney, KC2VJSJ



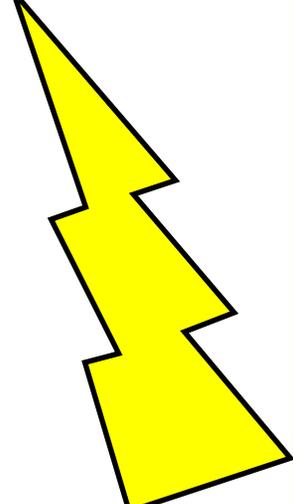
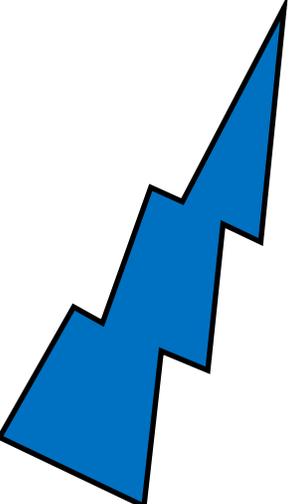
VE Testing Resumes

Saturday February 20th

RIT Room 3139

Registration starts at 9:45AM

Testing from 10:00 till 12:00 (noon)

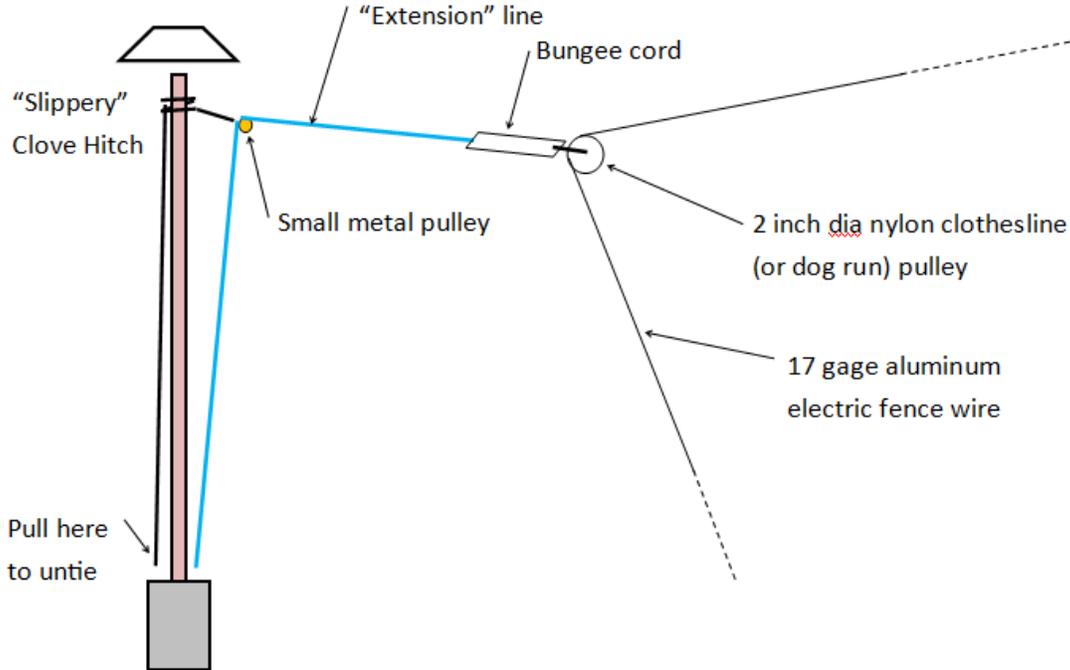


A TRANSPORTABLE ALL BAND WIRE ANTENNA, PART 2

Paul Conaway, KD2DO

Extension

With the elevation taken care of it is time to consider the attachment to the antenna, strain relief and the ultimate perimeter of the loop. An extension line does this as shown in figures below.



The Extension Line



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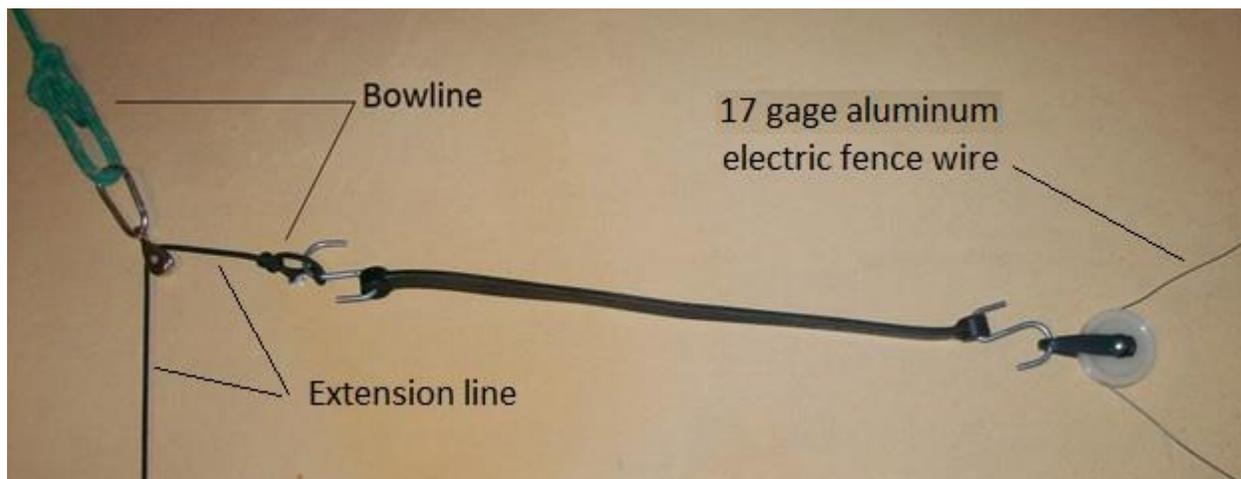
Frank Schramm
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Antenna attachment to a corner elevation point

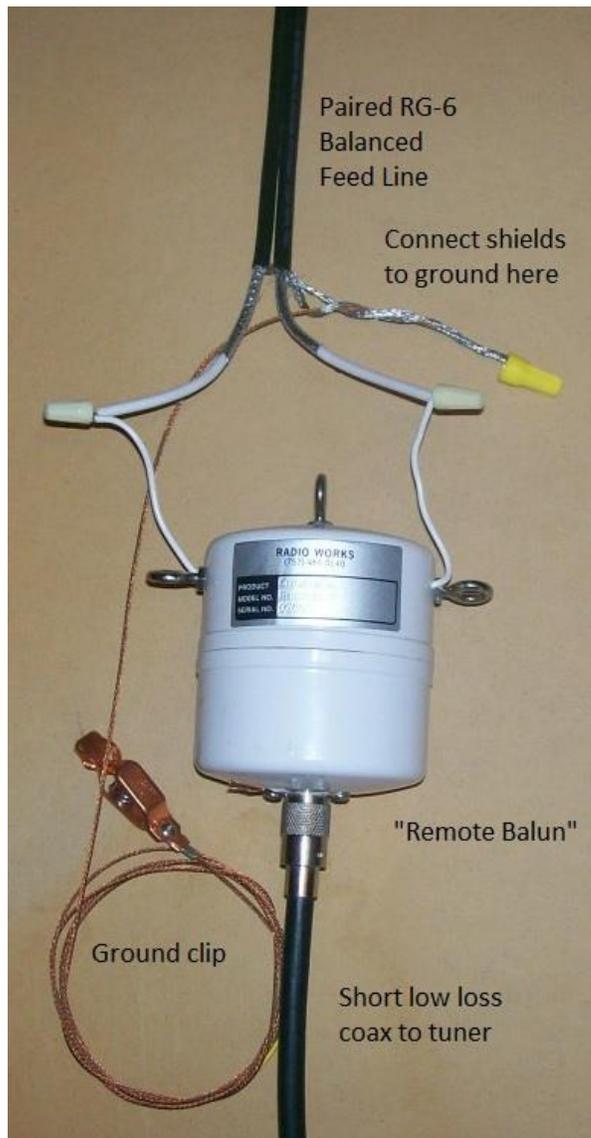
Erection Procedure

To make this process simpler, I set up the whole antenna at about 6 feet off the ground. This way I can do any adjustments for length or feed point placement easily. If there is any foot or vehicle traffic in the parking lot this is where assistants can come in very handy.

1. Take the 4, or in this case 5 lengths of large diameter rope and tie the slippery clove hitch around each of the corner support poles. Keep the antenna side short.
2. Attach a small pulley, the extension line and a bungee cord at each corner. Tie off the extension cord to the base of the lamppost at some convenient length.
3. Slip all of the 2 inch plastic clothesline pulleys over the free end of the wire at the spool. (Did I mention that it is a good idea to have your wire premeasured and cut to length?)
4. Attach the wire to one side of the feed point fixture. (This will hold the free end at the first support corner.)
5. Starting at the corner nearest where you want the feed point, hook the pulley to the bungee cord.
6. Keeping a small amount of tension, unwind the wire and walk the perimeter hooking pulleys to bungee cords as you go. Be sure there are no kinks in the aluminum wire.
7. Back at the feed point connect the other end of the wire to the feed point fixture.
8. Connect coax to the feed point fixture. Pull it to the desired location. The whole antenna can move through the corner pulleys.
9. Adjust length of extension lines as needed to observe antenna layout at near ground level.
10. Working one corner at a time, loosen any tension by releasing its extension line and push the slippery clove hitch up the pole as high as possible.
11. Tighten up all extension lines and tie each to the base of its lamppost.
12. Connect the Balun to the coax with wire nuts. As shown in the following figure.
13. Connect the shields of the paired RG6 balanced feed line to ground at the transmitter end.
14. Connect the Balun to the tuner and the tuner to the transceiver. Keep the length short, 8 to 10 feet max. Use good low loss coax.

Modifications

If you happen to be short of parking lots but find yourself in a forest meadow with a more than a half-acre of open space, and surrounded by tall trees, you can use an air powered launcher, spud gun, or other mechanism to put lines over nature's finest antenna supports and proceed with the setup. In this case you may not need to use two lines at each corner. The higher the better.



Connection to the balun

Operation

Nothing could be any simpler than picking a frequency and doing the tuning process for your tuner. My LDG tuner shows 1.5 or less for any band between 160m and 6m, even the MARS frequencies and SWL frequencies.

The closed loop nature of the antenna does seem to reduce receiver noise.

Even at a lower height above ground, the antenna does very well as a "cloud burner" for NVIS operation. At higher heights it becomes reasonable for DX.

Summary

This all band antenna can be set up almost anywhere by one person (if need be) in about an hour. Although much advanced prep went into some parts of it, now those parts fit nicely into a tote box with the ropes, cords, pulleys and wire, and can be easily transported.

Bibliography

Loop Antenna Info

If you Google "Loading Loop Antennas," or just "Loop antennas" you'll get many others. I think these are the best.

http://www.n1wpm.net/loop_antennas_and_calculator.htm

<http://www.donkeith.com/n4kc/article.php?p=12>

<http://www.hamuniverse.com/kl7jr80loop.html>

<http://www.surriel.com/radio/multi-band-hf-loop-antenna>

<http://n1su.com/loop.html> (...but mine works all the way to 10m and even 6m)

<http://www.radioworks.com/cremote.html> (this is the Balun I use on 3 different installations)

<http://www.radioworks.com/nloop.html>

<http://www.arrl.org/hf-loop-antennas> (pay special attention to: The Loop Skywire Nov '85)

IT CAN STILL BE DONE!

KIT BUILDING IS ALIVE AND WELL

Kevin Carey, WB2QMY

Note: This article is adapted from the original version, which appeared in the October 2015 issue of *The Spectrum Monitor* (www.thespectrummonitor.com).

For those with a technical bent, kit building was an extremely popular activity from the 1950s through at least the early 1980s. Several companies served this industry, including Dynaco, Eico, Heath, Knight, and even Radio Shack. Perhaps the best known, and longest lived of these was Heathkit of Benton Harbor, Michigan. The Heath Company traces its roots in kits to a build-it-yourself airplane kit introduced in 1926, and later, to innovative uses for war surplus components after World War II. Their first major electronic kit was a 5-inch oscilloscope, something that most hobbyists could never afford to buy in a commercial, pre-built form, but which was very affordable as a kit.

Up until the 1980s, the benefits of kit building were abundantly clear: It often saved you money, you learned something from the experience, and you had the pride of being able to say “I built it myself.” In short, it was a fun and economical way to build up your shack, electronic shop, or Hi-Fi layout. I had the thrill of building a few Heathkits in my time, even though I got into the game toward the end of Heath’s heyday in kits. My projects included an IM-5228 Vacuum Tube Voltmeter (VTVM), an HA-201A 2-Meter RF Amplifier, an HD-15 Phone Patch, and an ID-1290 Weather Station.



IM-5228 VTVM

In Rochester we were fortunate to have a local Heathkit store on Jefferson Road in Henrietta, which gave the opportunity to peruse many kits, and purchase them without waiting for mail delivery—instant gratification! Local ham Dick Goslee, KG2I was the longtime Manager of the Heathkit store, working there from 1976 right up until they closed their doors in 1992.



Dick Goslee, KG2I

I fondly recall building each of my Heathkits at home, and dutifully checking off the boxes in the well-written and beautifully illustrated construction manuals. Heath was especially known for the quality of their manuals. Each kit worked well, and I still have some of them today. It was an almost magical time during my young adult years. I finally had a little extra change in my pockets, and the time and knowledge to take on these mid-level kits.

It was apparent that something had changed in the kit building trend by the 1980s, and it wasn’t good for those of us who enjoyed building things at home. People didn’t seem to have the leisure time that they used to, and they wanted more advanced products with ultra-compact construction. This often meant using surface mount technology, which posed a real challenge for the home builder. In addition, the economics of the time meant that pre-built products from overseas could often be had at a lower cost than would come from building a

kit—and you could have it without the hours of construction time involved. With these factors at play, who would set out to build a complex kit such as a color TV set when you could simply buy one for a few hundred bucks and start using it right away?

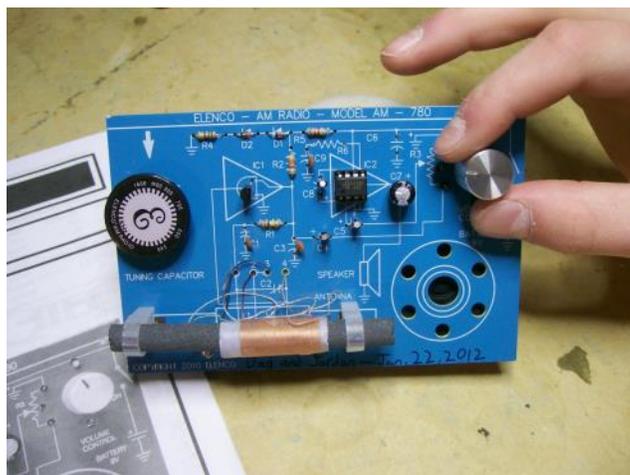
Although the reasons for the downturn in kits were clear, it was still hard to watch the situation unfold. When Heath finally announced their departure from kits in 1992, it felt like the floor had fallen out from under many of us in the radio, audio and electronic hobbies. Just recently (early January 2016), we learned that another major kit supplier, Ramsey Electronics (Victor, NY) was exiting the kit business after some 40 years of success. With big names like these throwing in the towel, it may seem that the good times are gone forever. But are they?...

As is often the case in change, you need to look beyond the obvious to see the full picture. Indeed, some major names have left the kit building scene, and certainly the nature of kits has changed in a significant way, but the *ability* to construct things at home is still with us. This has been the case through all the years since Heath’s big announcement, and speaking of Heath, a new owner has re-launched the brand, and promises some new, innovative kits coming soon. You can watch for their progress at www.heathkit.com.

Helping to keep the flame alive, even during the lean years, was the growing interest in QRP (low power) ham radio operation in the 1980s. A growing number of firms came out with simple transmitters, receivers, and accessories for the QRP hobby, and some of these firms remain with us today. For a time, I actually explored the idea of entering the QRP transmitter/receiver market during those exciting days. I had plenty of enthusiasm for the idea, but I lacked the business acumen to make it happen. A good friend of mine had ideas for a startup business in computers and electronics, and he possessed the business skills to do it, but he did not share an interest in a QRP kit line. As a result, I shelved my idea and focused on building QRP circuits for my own use—something I still enjoy today.

QRP gear later became a huge business segment for amateur radio, with some firms, such as Elecraft going first class in their offerings and even developing full-featured transceivers that included models right up into the 100-watt class. No longer did the kit builder have to settle for homemade appearance in a ham station. Several leaders in the market remain active today, and the interest in QRP continues to be strong (see listings at the end of this article, part 2, for current suppliers).

The educational aspects of kit building also helped keep the spirit alive. Schools and technical institutes have long been users of kits to help teach the practical side of learning the technologies they teach. There were still some companies who produced kits for these markets after Heath left the scene. This last factor—educational learning—was most likely behind the kit I found that seemed to be a good candidate for my 14-year old son and I to tackle a few years ago: An Elenco Electronics, Inc. **AM-780K Radio Kit**. Finding this kit was a natural process. Just a few weeks earlier, I'd purchased an Elenco Frequency Counter (not a kit), and being quite pleased with it, I began to look at their other offerings online, and the AM-780K stood out to me in one of their listings.

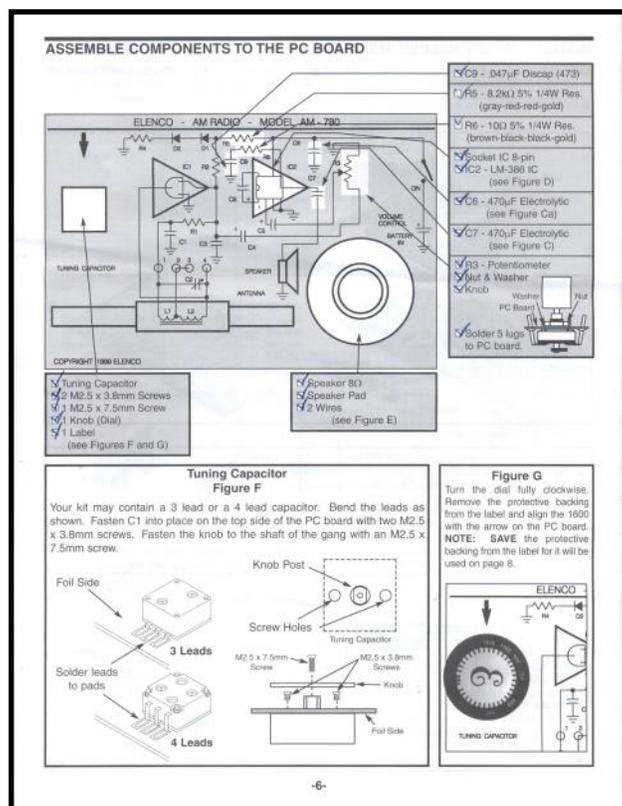


AM-780K Radio Kit from Elenco Electronics

The kit was given as a Christmas gift to my son, and it sat for a while until we could find the time to dig into it. He was excited to begin, not only to hear his own radio playing, but also to learn the techniques involved with soldering, identifying parts, and discovering a bit about how radio works. What follows is an overview of our experience with this kit, as well as some tips for success when introducing a newcomer to the wonders of kit building. Although the focus is on the AM-780K, many of the principles here apply to kit building in general.

The manual supplied with the AM-780K kit is quite impressive. Having worked for many years in the field of writing technical guides and manuals, I was immediately impressed by the clarity, depth, and print quality of this publication. We read through the manual as an overview of what we were getting into. This is a step I would recommend for *anyone* preparing to build a kit. Doing so allows you to become familiar with how the kit is built, learn the conventions of the manual, and to gain some theory on how the circuit actually works. In addition, I recommend going online and looking for any updates to the documentation, as well as for tips and tricks written by others working on the same kit. You might be able to avoid trip-ups in this way.

Practically everything we needed to begin the AM-780K kit was included in the package, including the solder (the new lead-free type). So, with a soldering iron in hand and a few hand tools at the bench, we were able to begin. We laid the parts out on the bench by type, and got everything ready to start building. We found that good lighting and lots of elbow room at the bench are a big plus. As such, it was necessary to clear away a few in-process or pending projects in order to gain the room. Besides common hand tools, we also made liberal use of a "third hand" jig, which is nothing more than a small stand with alligator clips attached for holding the PC board or other items at a



AM-780K Manual Page



3rd Hand Tool

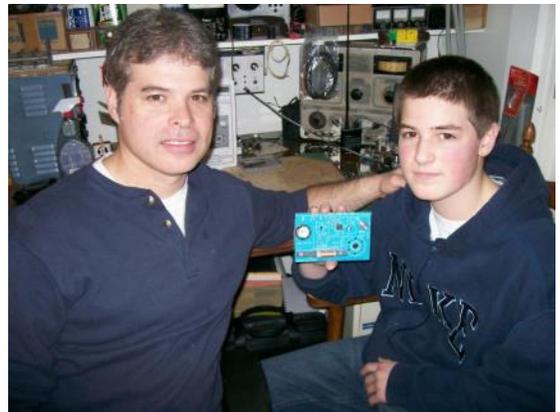
convenient angle for the installation and soldering of parts. Our bench light was of the magnifier type, and it proved extremely useful in identifying the parts (especially for my more “seasoned” eyes). It also provided general illumination of our workspace, although I have since installed a 4 ft., dual bulb LED shop light above my bench for even better illumination. Anyone interested in such a light, may wish to search for “Feit Electric LED Shop Light.” I purchased mine at the new Costco store in Rochester at a cost of \$29.99.

We followed the instructions for our AM radio kit step-by-step, checking things off as we went along, following the Heathkit tradition. For the most part things went very well. We did encounter a few difficulties along the way, and these were solved after we contacted Elenco via an e-mail message. Mr. Marc Lehner of the company replied with useful information, even giving us a phone number to call in

case we had any further problems. This kind of support reminded me of Heath’s old expression being put into action: “We will not let you fail!” Our difficulties with the kit and their solutions were as follows:

1. The holes for the ferrite bar antenna leads were marked on the PC board, but not drilled through it. We had to drill these using the smallest drill bit I could locate in my toolbox. It was an error in the board, we were told. Easy enough to fix at home.
2. The mounting of a 470 uF electrolytic capacitor was not entirely clear to us. The printing on the PC board seemed to indicate it should be mounted on the front of the board, while the instructions told us it should be mounted on the back. We were told it was now mounted on the back, as a safety precaution in the event it ever blew up, something that can happen with electrolytic capacitors when something goes wrong. Usually, this just creates a loud pop and a small confetti show, but injury is possible, so I suppose it was a prudent measure on the part of the kit maker to relocate the component. The instructions simply needed to be updated.
3. Finally, there was some confusion in my mind on just where to set the trim adjustment on the tuning capacitor to begin aligning the set. The email clarified in that this should be set at the *minimum* position, so we were good to go. The instructions could be improved to clarify this.

All in all, our kit building experience with the AM-780K was a very positive one, and my son and I enjoyed the chance to work on something together, not to mention the thrill of turning the power on and hearing it play right away. We were impressed with the potent audio level, and the smooth feel of the volume control. This kit has a very clear manual that not only has assembly information, but also supplemental details on soldering, theory, and parts identification. Construction was an enjoyable and straightforward process.



Kevin and Jordan with the finished radio



2P3 Superheterodyne Radio

As you might expect for such an elementary kit, the tuning calibration, sensitivity, and selectivity of the set is not quite on par with a commercially built radio, yet it is quite serviceable for local stations and even a bit of nighttime DXing. Areas for improvement in my opinion are: better sensitivity across the dial (our set worked best above 900 kHz and below that it was a bit sluggish), better coverage of the high end of the dial (ours did not tune much above 1400 kHz without realignment), and correction of the hardware issues listed earlier, which in our case were resolved by contacting the factory. The bottom line is that for a price of \$17.95, I feel this kit is an excellent value, especially for someone just getting started in kit building at home. As of late 2015, the folks at Elenco advise that the AM780K kit is still available, plus the following additional radio kits: AM550CK, FM88K, and AMFM108CK. You can review the information and manuals for these kits and others online at www.elenco.com.

Next up on my bench will be a Tecsun 2P3 Superheterodyne AM pocket radio kit. This is a product I spotted one day while searching for “radio kit” offerings

online (\$25.95 on Amazon.com). It turns out there's quite a history behind this particular set. Excerpt from the description: "In mid 1960s, due to a steadily available stock of domestic made transistors, there was a huge DIY wave of transistor radio in the world. The big issue for a DIY transistor radio is how to make it look good, and the Tecsun 2P3 radio kit was made to fulfill this demand." I'm looking forward to building this kit, just for the experience of being able to still do it in 2015.

I was too young to experience the thrill of building such a kit in the 1960s, but now I will have my chance. I do remember receiving my first transistor radio as a kid, and how I treasured its leatherette case, earphone, and instruction guide, all of which I kept carefully tucked away in the storage box when not in use. Even the *scent* of the electronics inside this radio made a big impression on me, and evokes special memories to this day. Am I alone in these memories? I suspect not. Having your own personal radio was like having a link to the outside world! At any rate, building the 2P3 should create a new memory, and allow me to live through an experience I missed out on the first time around.

The conclusion of this article will appear in the March 2016 RAG. The remaining sections Are: Kit Building Today, Radio Kit Suppliers, Electronic Project Lab Kits, Taking the Next Step, and Conclusion.



SIGN UP FOR SPRING LICENSE CLASSES!

Pam Kasperkoski, W2PHK

Have you been thinking about upgrading your license to General or Extra, but could use a little coaching? Maybe you have friends who have noticed your excitement about your hobby and are interested in finding out more for themselves. If so, you are in luck! There are highly qualified and experienced instructors waiting to help you out.

RARA will again be offering license classes beginning in March. Classes run for 10 weeks and will be held on Tuesday evenings on the RIT campus in Henrietta. Classes are FREE to RARA members and students under age 21.

Please feel free to e-mail me (pamelakasper@frontiernet.net) for further information or to sign up!

Pam Kasperkoski W2PHK
RARA Education Coordinator

Silent Key

Thomas S. Ely, M.D.
W2ODW
December 22, 2015

RARA WINTERFEST 2016



Our sixth annual RARA Winterfest is right around the corner and it's time to get excited. We are bringing back our very popular crockpot cook-off and everyone is invited to bring their favorite crockpot creation to share. You are encouraged to bring anything you can make in a crockpot. We anticipate seeing, and eating all sorts of soups, chili, casseroles, lasagna, pizza, stew and who knows what else. As before, we will be awarding prizes of RARA membership points to the top three entrants. The first place winner will receive 50 points, second place will get 30 points and the third place winner will receive 10 points. These points can be redeemed when you renew your RARA membership, make reservations for the annual RARA banquet or for

anything else club-related.

We are also inviting everyone to bring a dessert to share. In fact we are so excited about dessert that we will be judging dessert creations and awarding 25 RARA membership points for the best dessert. Desserts do not need to be made in a crockpot but if you can do that, go for it. We encourage you to put on your chefs' hats and wow us with your sweet culinary creativity. Of course there is no entry fee for these cook-offs so simply sharing the wonderful delicacies will make everyone a winner.



As always we encourage you to bring radios and antennas so we can operate and have fun. During the past several Winterfests we have had visitors who were interested in becoming hams. Active operating positions are a great way to introduce them to the hobby and encourage them to become hams themselves. Of course, if you know anyone who would like to learn more about our wonderful hobby please invite them to join us.

We will be there around 10:00 am to set up radios and antennas and anyone willing to help is welcome to join us. We encourage everyone else to plan to get there around 11:30 am when the eating and operating will begin.

RARA will provide non-alcoholic beverages along with all the necessary paper products that will be needed to enjoy the great food we will certainly have. I'll look forward to seeing everyone there.

The 'fest will be held on Saturday February 20th at the Stewart Lodge in Mendon Ponds Park. The lodge has heat, a fireplace, it is located near the bathrooms and there is plenty of parking. You can find a map [here](http://www2.monroecounty.gov/files/parks/Maps/MendonPark.pdf). (<http://www2.monroecounty.gov/files/parks/Maps/MendonPark.pdf>)



RMSC HOLIDAY SCIENCE AND TECHNOLOGY DAYS

Vic Gauvin, K1PY



4 days, 182 contacts, and 15 volunteers contributing 124 public service hours summarize this year's stats for the **RDXA** portion of the annual joint club effort with **RARA** and **XRX** to display Amateur Radio to a well-attended **RMSC Holiday Science and Technology Days**.

But the real success is both the inter-club camaraderie that makes it happen, and the interaction with those folks that stop by to see and hear what we're doing.

We were back to the main lobby this year – prime real estate. The G5RV was again on the roof thanks to **Doug N2BEG** and the team (see later).

XRX ARC again provided the IC-746 thanks to **Bob K2OID**.

Peter W2SKY and **RARA** provided the neat tech hands-on displays.

At the **RDXA W2RDX** station, we had two really nice monitors (read “large”), one provided by **John W3OAB**, and one from the museum for the first time.

We love these monitors because they provide a great, attention-grabbing visual accompaniment to the back-and-forth audio of the on-going QSO.

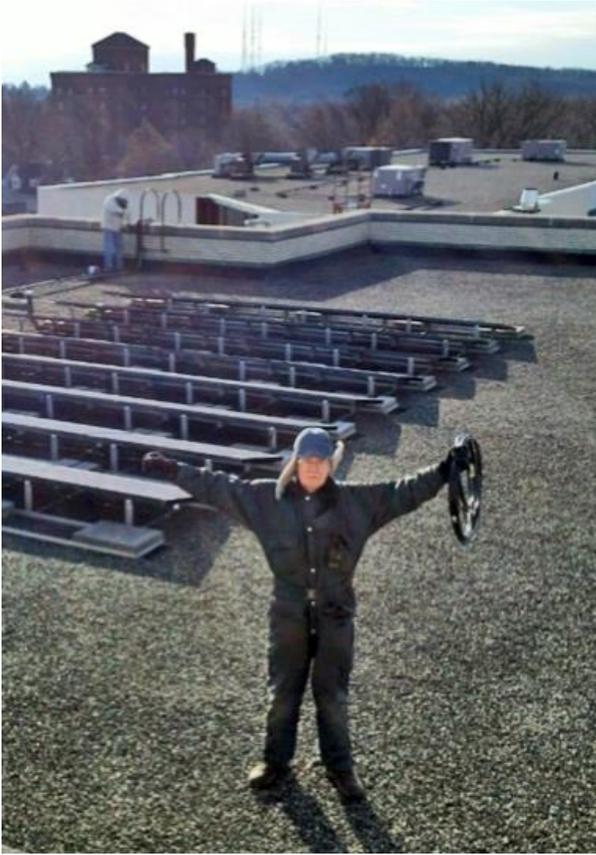
The photo in this article didn't happen to

catch the QRZ page for the current contact, but the left monitor is used for that as it's right next to the walking area past the station. We engage passersby by pointing to the QRZ info and then telling them that this is the person we're talking with. It's a great ice-breaking tool.



And of course, **RDXA** provided what it takes to make the **W2RDX/RMSC** station part of this event happen – people! Thanks to (alphabetically):

Bob K2OID
Chris K2CS
Dan N2DD
Dave N2CK
Doug N2BEG
Duane K2SI
Gayle N2TWI
Irv AF2K
Jennifer N2DD daughter (up from MS!)
John W3OAB
Kathleen KD2JZU (congrats on new call!)
Larry W2LB
Mike N2UJN
Rich W2FBS
Tom KC2VHS
Vic K1PY



Mike KD2KCL, who hadn't yet received his call as of the museum event, was a big help with our laptop/monitor interface challenges, and we want to extend our thanks to him for this, along with **Rich W2FBS** and **John W3OAB** – our IT team.

It's *always* nice to have YLs on board, especially, as we all know, on the air. **Gayle N2TWI**, **Kathleen KD2JZU**, with a nice new call, and N2DD's daughter **Jennifer**, who grew up around the radio with Dad, were all participating this year.

Irv, John, and Vic win the "**Iron Men Award**" for participating all four days. (Perhaps this really might be the "**Tolerance for crowds in a Public Area Award**," but we won't nit-pick.)

Doug N2BEG, John W3OAB, and Larry W2LB, as has become the tradition, win the "**Outdoorsmen Award**" for G5RV installation and takedown. (This has its name from the typically challenging and unpleasant weather on the days for this task – this year they got a nice break.)

Thanks to **Peter W2SKY** for coordinating the **RARA** side of the exhibit. Together we've expanded our club's joint efforts to being by far the largest and one of the best received of the event. The museum has repeatedly indicated how much they appreciate our being there.

We want to extend our thanks to **Kara Verno** and the **museum staff** for being gracious and very helpful hosts for this event. They

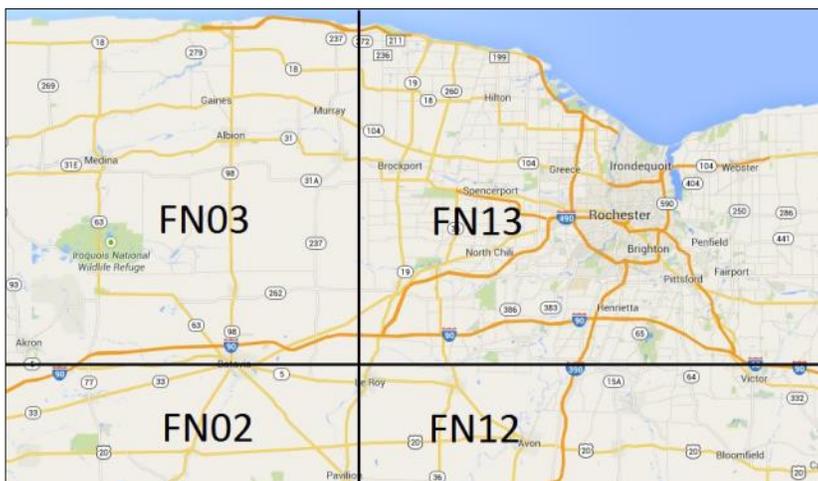
provided wonderful support, and make it easy for all three clubs to proudly display Amateur Radio to folks in our little corner of the world.

JANUARY VHF / UHF CONTEST

Jarred Jackson, KF2MR, Rochester VHF Group

The January VHF/UHF contest starts on January 30th at 2pm and runs through Sunday January 31st at 11pm. The purpose of the contest is to contact as many amateurs as possible on as many VHF/UHF and microwave bands as you can, using FM simplex (no repeaters), or narrow-band operating modes (SSB/CW). Two stations only need to exchange call signs and grid squares (see the map below).

Western NY is home to several stations that are consistently at the top of their class or within the Top 10 as published within QST. In the 2015 January VHF contest, Western NY stations took home awards for being #1 nationwide in the "FM-Only" category and the "Limited Multi-Operator" category. Don't worry if you don't have a competition class station. In addition to individual efforts, the ARRL recognizes the cumulative efforts of club members through the Affiliated Club Competition. This feature provides a great opportunity to showcase your club. So even if you just turn on the radio and call CQ on the way to get coffee on Sunday morning, your efforts help out the local contesting community, and might even make a difference in the Affiliated Club Competition.



If you have limited time to participate in the contest, it's recommended that you operate the first hour of the contest (2-3pm) and again "On the 8's" or 8pm both days and 8am on Sunday. Weather permitting, a handful of local rovers will activate all four grids near Le Roy from approximately 12:30 – 2:00pm on Sunday 1/31 to provide some additional local activity. Meet the group on 146.55 simplex to join in (or come out to the grid corner and participate!). If you have questions before or after the contest, please contact me at kf2mr@yahoo.com. Are you operating Winter Field Day or another special event that weekend? No problem, we can make all necessary exchanges for event credit. My rover station is shown in the picture above, so feel free to stop and say hello if you see me out and about (you can't miss me!)

You can find more details about the contest, including log sheets and log submittal information on the ARRL website: <http://www.arrl.org/january-vhf>.

VE TESTING

Don Kiser, AC2EV

The VE Team is alive and well. Don Kiser, AC2EV is serving as the new team leader. The next session is Saturday February 20th at RIT in Gleason Hall room 9-3139.

While on the surface it may look like business as usual, the team has been hard at work to make the process better. But we are not done yet; more changes will be coming as we start to introduce new procedures and technology.

RARA RAGS OF THE PAST

Ed Gable, K2MP – RARA Club Historian

20 YEARS AGO, FEBRUARY, 1996

The February meeting brought an interesting topic with information on a ham radio mode of operation with little participation by most, Amateur Television (ATV). Presenting for the evening was George Lloyd, N2UIO, who just happened to also be the RARA Secretary. Quoting the often stated phrase, "a picture is worth a thousand words," Lloyd told of how RACES/ARES has plans for increased ATV usage for such events as the Ginna Drills and RARA public service events. Written herein was an announcement telling of the Spring RARA Code and Theory classes beginning February 19th. Classes for Novice, Technician, General and either Advanced or Extra, depending on demand, will be offered. New instructors this session included Tim Magee WB2KAO for Novice CW and Neal Eckhardt WB2EKP for theory. Bob Erskine W2NVZ, was appointed Chmn of the Nominating Committee. Another Lloyd, this time Lloyd Caves WB2EFU, wrote a teaser of an article telling us all of some of the features and programs planned for the 1996 Rochester Hamfest. Lloyd listed programs such as: satellites for beginners, a program on Nikola Tesla, an ARRL forum featuring so far four Division Directors and a future ARRL President, and local talent George Lloyd N2UIO and Bill McDonnell KG2F demonstrating ATV. With regret it was reported that C. Friend Stafford W2AAU and Roy Dennison WB2PMM, were reported as Silent Keys. From the Want Ads you could buy 27 years of QST magazine for only \$120.00 from Roland K2JWJ. Glenwood Sales of Hague Street remained a long time advertiser.



the RARA RAG

Published by
ROCHESTER AMATEUR RADIO ASSOCIATION, INC.

VOL. 48 February 1996 NO. 6

FEBRUARY MEETING TO FEATURE AMATEUR TV

The program for February 2, 1996 will be a demonstration of amateur TV, and the new repeater on the top of 111 Westfall. The presenter will be George Lloyd N2UIO. One of our own directors, Amateur TV is coming into its own for public service events, such as Ginna drills, where amateur radio is mandated. The more TV becomes available, the more it will be utilized, because, as has often been said, a picture is worth a thousand words. Some of the usefulness, will be in the reporting of various situations that amateur radio can become involved in, such as the races of all kinds, the walkathon, and deathalons.

There is not a great deal of activity at the present, but amateur TV may be the wave of the future. There is still time to get in on the ground floor. For those of you who are interested in amateur radio and are not turned on by voice, CW or the digital modes, this may spark your interests. Camera's do not have to be ultra sophisticated, and the receivers and transmitters needed are within the budget of most amateurs.

RaRa MEETING

February 2, 1996
8:00 P.M.
Henrietta Fire Hall
3129 East Henrietta Road
Amateur TV
by George Lloyd N2UIO

RaRa CODE AND THEORY CLASSES START FEBRUARY 19th

RaRa is pleased to announce the formation of its Spring 1995 Code and Theory Classes. Classes will be offered for Novice, Technician, General and either Advanced or Extra.

If you are interested in the Advanced or Extra class, please leave a message on the RaRa hotline at 442-0587 giving your name, phone number, and the class you are interested in. If there is interest in the Extra class, it will be held in place of the Advanced Class. If there is not sufficient interest, the Advanced class will be held again.

Spring registration will be held at 111 Westfall Road at 7:00 p.m. The first session will start after all are registered. The classes normally start at 7:30 p.m. and last until 9:30 p.m. each Monday evening and will run until approximately May 13. A testing session is planned for May 13.

The total cost for the program, including registration is \$14.00 for Novice and Technician and \$ 12.00 for General and Advanced or Extra. If you are not a current member of RaRa please add \$6.00 if unlicensed, and \$10.00 if licensed to the above figures. This will cover your membership in RaRa.

Our teaching team looks forward to seeing you on February 19, even though this is a holiday. See you there.

RaRa Hotline

(716) 442-0587
24 hours a day

SILENT KEYS

C. Friend Stafford
W2AAU
December 23, 1995

Roy E. Dennison
WB2PMM
January 2, 1996

40 YEARS AGO, FEBRUARY, 1976

A very popular speaker talking on a very popular subject was this month's program when Gordon Wendell, W2FDI, rose to speak on amateur antennas. The 15th annual RARA Valentine Dinner Dance was also held this month at the new Airport Holiday Inn. The big announcement and large article was penned by Harold Smith WA2KND, who revealed that he arranged a special tour for the Dayton Hamvention. Harold really greased the skids for local amateurs by arranging two-way airfare and hotel rooms for the bargain price of \$92.00 per person. (This editor was aboard the flight and a great time was had by all. /Ed) Gene Molter, WB2BAM, reported that the Office of Emergency Services (formally Civil Defense) was granted eight new FM Transceivers to be used in support of Monroe County RACES. The Genesee Repeater Association, operators of the popular 19/79 auto-patch repeater, announced their annual general meeting would include a film on the Blue Angels Precision Flying Team. Not only does the subject have a lot of appeal, but local amateur and Kodak'er Ralph Amdursky W2DFS, photographed the film. From the Want Ads you could buy a 6 meter AM transmitter from Florence Kirkbright WB2QXB. RAMCOMM Communications of North Chili, featuring Regency FM equipment, remained a long time advertiser.

The RARA RAG

Published by
The Rochester Amateur Radio Association
INCORPORATED

VOL. 28 FEBRUARY 1976 NO. 6

Antenna Forum with W2FDI at February 6th Meeting

Gordon Wendell, W2FDI, a foremost antenna expert will conduct a ham antennas-- design, assembly, matching, phasing and performance--for our February 6 meeting. The meeting will be held at the Farm & Home Center on Highland Avenue at South Avenue at 8 p.m.

Gordon has devoted a career to antennas. He served as Production Manager for antenna design and production for the Elenex Corporation, and has made more than 35 presentations on his subject of expertise at amateur gatherings throughout the Northeast U.S. and Canada.

At our meeting, antenna subjects will cover antennas from below 2 MHz to above 432 MHz in many configurations including loops, yagis, verticals, horizontals, single and multi-band and phased arrays.

In this forum, Gordon prefers to let your questions from the floor guide the direction of the discussion so that the meeting is responsive to the greatest interest. Amateurs at all levels, from novice to expert, should gain from Gordy's knowledge and his outstanding ability to communicate his subject clearly.

Dayton Hamvention Trip Planned

The Dayton Hamvention, the largest hamfest in the nation will be held this year on April 23 thru 25. A large group of Rochester area people make the trip there each year.

As a result of the response last year, a special tour group is being formed so expenses for the trip can be trimmed. A special air fare of \$69.10 round trip will be available to those who will take advantage of the opportunity. Regular air fare is \$99.00.

A block of rooms at the Holiday Inn, Englewood, Ohio (between the Dayton airport and the hamfest) has been reserved for the Rochester area people. Room rates are \$23 per night for each room.

A note at this point - unless you are willing to stay at a motel in places such as Columbus, Cincinnati or other such cities - it will be impossible to reserve a hotel room on your own. All the hotel/motel rooms in Dayton for their hamfest weekend are booked already.

In order to take advantage of the opportunity, please have a check in the amount of \$92.10 payable to Harold Smith in his hands not later than Friday, March 5. Any space not reserved and paid for by that date will be turned back to the Dayton committee for others to use.

Valentine Dinner-Dance Feb. 14 at Airport Holiday Inn

Valentine's Day is when the 15th annual RaRa Valentine Dinner-Dance is scheduled this year. It will be on Saturday evening, February 14, at the new Airport Holiday Inn, 911 Brooks Avenue.

That evening is the one each year when we honor our loved ones with a night on the town. The evening begins with a fine dinner. Gene Molter, WB2BAM, then takes the floor to provide some entertainment. Then the lights are lowered and the orchestra plays for dancing and socializing the balance of the evening.

There are three dinner choices this year: Prime Rib, Veal Cordon Bleu or Stuffed Shrimp. Dinner tickets cost \$10 each (or two for \$20).

The February 6 club meeting will be your last opportunity to pick up your tickets in person. Tickets may be ordered by mail. Be sure to specify dinner choices and include first names so name tags can be prepared in advance.

Dayton Hamvention Trip Planned

The advance payment covers a round trip airline ticket and one night at the hotel. For those who will drive but wish a hotel room, the advance payment should be only \$23.00 per room. And, for those who will have other accommodations and only wish to get the reduced air fare, their advance payment should be only \$69.10.

Schedule: Leave Rochester at 10:16 a.m. Friday, April 23; arrive Dayton 12:24 p.m. Leave Dayton 12:20 p.m. Sunday, April 25; arrive Rochester 3:10 p.m.

Everyone must depart Rochester at the same time and on the same flight. Return times may be different if desired.

Remember -- \$92.10 payable to Harold Smith, WA2KND, not later than Friday, March 5. Remember -- advance payment covers air fare and one night at the motel. You are on your own for the second night rent and meals, etc.

This offer is open to all upstate New York amateurs, who wish to make the trip to Dayton from Rochester.

RARA CALENDAR

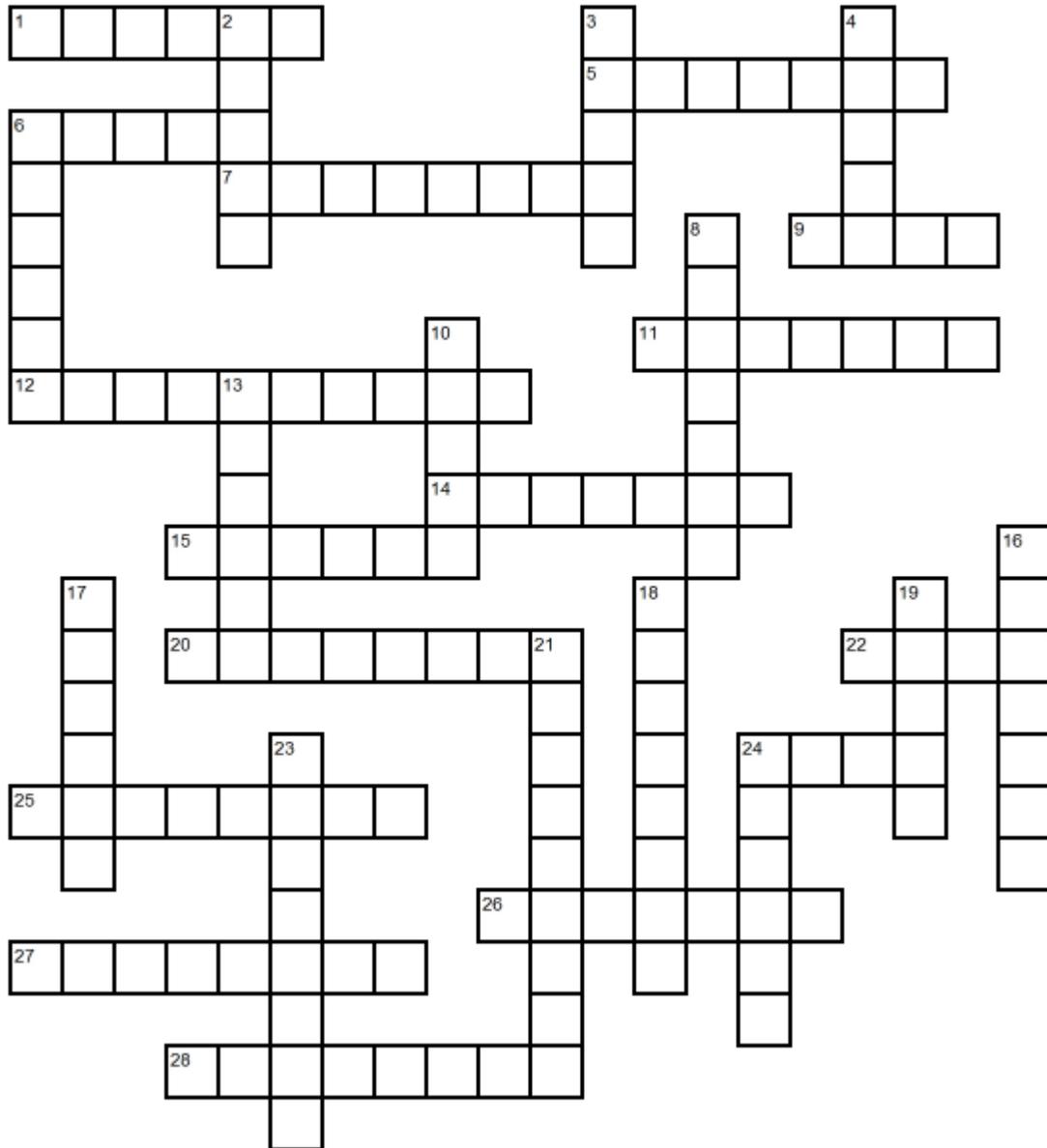
Tim Barrett, K9VB

February 2016						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2 QRP Fox Hunt Phone Fray	3	4 QRP Fox Hunt NCCC Sprint	5 RARA Monthly Meeting 7:00pm, BSA HQ, 2320 Brighton Henrietta TL Rd YLRL YL-OM Contest Triathlon DX Contest	6 YLRL YL-OM Contest VT MN BC QSO Parties Triathlon DX Contest 10-10 Winter SSB Contest Black Sea Cup FISTS Slow Speed Sprint Mexico RTTY Contest
7 VT BC QSO Parties 10-10 Winter SSB Contest Black Sea Cup Mexico RTTY Contest 10-10 Winter SSB Contest NA CW Sprint	8 Run For The Bacon QRP Contest ARRL School Club Roundup	9 QRP Fox Hunt Phone Fray ARRL School Club Roundup	10 SIARC 7.30pm ARRL School Club Roundup	11 QRP Fox Hunt NCCC Sprint ARRL School Club Roundup	12 ARRL School Club Roundup	13 CQ WW RTTY Contest SARL Field Day Asia Pacific CW Sprint SKCC Sprintathon Dutch PACC Contest OMISS QSO Party NH QSO Party FISTS Winter Sprint RSGB 1st 1.8 Mhz Contest
14 CQ WW RTTY Contest SARL Field Day SKCC Sprintathon Dutch PACC Contest OMISS QSO Party NH QSO Party PODXS PSK31Club Sprint	15 Run For The Bacon QRP Contest	16 RDXA 7.30pm QRP Fox Hunt Phone Fray	17	18 QRP Fox Hunt NCCC Sprint	19 RRRA 7.30pm	20 ARRL CW DX Contest Russian PSK Contest Feld Hell Sprint AWA AM QSO Party
21 ARRL CW DX Contest Russian PSK Contest AWA AM QSO Party CQC Winter QSO Sprint	22	23 QRP Fox Hunt Phone Fray SKCC Sprint	24 UKEICC 80M Contest	25 QRP Fox Hunt NCCC Sprint	26 CQ 160M SSB Contest	27 CQ 160M SSB Contest REF SSB Contest (France) UBA DX CW Contest SC QSO Party NA RTTY QSO Party
28 CQ 160M SSB Contest REF SSB Contest (France) UBA DX CW Contest SC NC QSO Party NA RTTY QSO Party SARL Digital Contest	29 NC QSO Party					

Print this calendar and leave it by your radio.

CROSSWORD PUZZLE

DXCC Call Sign Prefixes



ACROSS

1 3X

5 G, GX, M

6 I

7 ZP

9 XW

11 CN

12 LX

14 CP

15 YL

20 CT

22 KH2

24 CM, CO

25 GM, GS

26 HV

27 VR

28 4S

DOWN

2 SU

3 5Y, 5Z

4 VU

6 4X, 4Z

8 4L

10 P4

13 3A

16 6Y

17 F

18 LZ

19 ST

21 LY

23 XU

24 PJ2

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.

The next ARES Meeting will be held on: **Thursday, February 25, 2016, 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 8:00 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

Severe Weather Alerts: Summer often brings severe weather in the form of heavy rain, wind, hail, lightning and thunderstorms. If you experience any of these forms of severe weather, and 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. 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)

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 2016.

ROCHESTER RADIO REPEATER ASSOCIATION, RRRRA

The Rochester Radio Repeater Association, RRRRA, invites you to attend its February meeting. The date is February 19th and the place is the Pittsford Town Hall basement starting at 7:30 pm. Refreshments will be served. RRRRA and its affiliates provide 17 of the local Rochester area repeaters.

I hope to see everybody there on the 19th. Bob O'Dell N2BZX

ROCHESTER VHF GROUP

The Rochester VHF Group holds monthly meetings on the second Friday of the month between September and June. Meetings begin at 7:30 PM and are held at the Spencerport Wesleyan Church, 2653 Nichols St. (NY Route 31) in Spencerport. Visit our website www.rvhfg.org for details.

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

More club information can be found by visiting www.rvhfg.org or just calling in any Monday or Thursday night. All are welcome to check in to these nets.

ROCHESTER DX ASSOCIATION, RDXA

February Meeting: Tuesday February 16, 2016

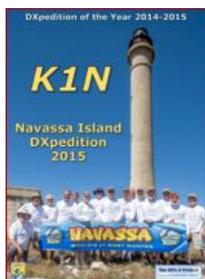
Time: 7:30pm

Location: Monroe County EOC Building, room 101 **NOTE room change**

1190 Scottsville Road, Rochester, NY 14624

Program - The program for the meeting will be a video of the K1N DXpedition

All are welcome.



XRX AMATEUR RADIO CLUB

The next meeting of the XRX Amateur Radio Club will be at 6PM on Feb. 11, 2016, at the Webster Recreation Center. Details at <http://xarc.us>

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. We have License Exam Testing every other month which begins at 6:30PM with the regular meeting beginning at 7:30PM. The February meeting will be on Wednesday, February 10th at 7:00PM.

AMATEUR RADIO ASSOCIATION OF THE SOUTHERN TIER

A.R.A.S.T., took a small break from its regular schedule of meetings for the month of December and has resumed meetings. AARES meets the first Tuesday of the month except February. ARAST meets the third Thursday of every month at the Town & Country Fire house in Horseheads.

There are a lot of things coming up in the new year including the September hamfest and the Wineglass marathon in October. Committee meetings will resume in January for the Hamfest. The Wineglass has started to enroll runners so we can expect a large group of runners for 2016. Help is always needed for the wineglass and the southern tier in the fall it's always a good day trip around that time of year.

COMMUNITY AMATEUR RADIO CLUB, CARC

The Community Amateur Radio Club focuses on emergency communications via simplex (When the repeater goes down, we're already on simplex!) and helping to ensure our community is disaster ready. Each meeting has a brief training/ refresher period with upcoming topics including: formal traffic handling, net protocol, and digital signaling. Meetings are held the first Saturday of the month at 7pm - join us on Saturday, February 5, 2016 at the Hoag Library (134 S. Main St. Albion, NY). TESTING SESSION to be held Saturday, February 27, 2016, 6:30pm (Tech-Extra testing available), at the Hoag Library. 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! Take a look at the club website for more info: www.k2srv.org

DIGITAL COMMUNICATIONS ASSOCIATION OF PERINTON, DCAP

DCAP is happy to report that the DStar hotspot located high above the RIT campus is back on the air and is demonstrating excellent coverage throughout the area. The hotspot is a simplex device based on a [Raspberry Pi](#), a [DVRPTR](#) and a GE Phoenix radio. The callsign is W2RIT and the simplex frequency is 446.125. We invite you to try operating through the hotspot using the normal DStar addressing conventions using the B user and G gateway ports. Of course a DStar radio is required but if you have one please give the hotspot a try. Very recently two of our members started experimenting with DMR using inexpensive Chinese [handhelds](#). Hopefully we'll have more to report about those efforts very soon. You can learn more about DCAP and our digital explorations here www.dcap-kb2vzs.net.

INTERLOCK ROCHESTER - K2HAX - ROCHESTER'S HACKERSPACE

Here's some of our events for the month of February:

- * Tuesday, February 2, 7pm: Monthly Business Meeting & Member Presentations, open to the public.
- * Friday, February 5, 7pm: Rochester 2600 Meeting - <http://www.rochester2600.com/>
- * Friday, February 12, 7pm: Software-Defined Radio (SDR) Meetup
- * Friday, February 19, 7pm: TOOOL Rochester Meeting - <http://tooolroc.org/>
- * Saturday, February 20, 12pm to 4pm: Linux Workshop

Mark your calendars for Rochester's only free and open hacker conference, BSidesROC, on April 23 at RIT! See <https://www.bsidesroc.com/> for more information.

Interlock is open most every Tuesday night at 7pm. We're in the Hungerford Building (1115 East Main Street, Rochester NY), just north of Village Gate. Come to Door #7 (next to Comics Etc) and buzz Suite 200.

Visit our website at interlockroc.org and contact info@interlockroc.org with any questions, or find us in #interlock on Freenode IRC.

Hamfests

Niagara Peninsula ARC Hamfest and Electronics Flea market

February 6, 2016
Merritton Lions Club Community Centre
7 Park Ave, St. Catharines, Canada
<http://www.nparc.on.ca>

Winter Hamfest

February 27, 2016
Big Flats, NY
<http://www.ka2lim.com/7.html>

Drumlins ARC

April 23, 2016
Palmyra, NY
<http://drumlinsarc.us/>

Dayton Hamvention

May 20 - 22, 2016
<http://hamvention.org>

RARA Hamfest

Coming Soon!
Watch your email for details
<http://www.rochesterhamfest.org/>

RAGS 2016 Hamfest

July 10, 2016
Cicero, NY
<http://ragsclub.org>

Ithaca Hamfest

August 6, 2016
Trumansburg, NY
<http://tcara-ny.org/hamfest/>

KLARA Hamfest & Campout

August 8, 2016
Hornell, NY
<http://klara.us>



How many hams does it take to melt solder?

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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Quarter Page	- 4.2 x 3.5	\$300
	- 2 x 7.3	\$300
Half Page	- 4.2 x 7.3	\$600
	- 8.6 x 3.5	\$600

The above prices are **per year** - not per month as is typical in other publications.

Your advertisement will be seen by amateurs in Rochester, Monroe County, New York State, the United States and even the rest of the world. RAG circulation is approx. 8,000.



Get your message through!
Advertise in the RaRa RAG -
Read by over 8,000 radio enthusiasts each month.
For more information: Editor@RochesterHam.org

RARA OFFICERS

OFFICERS

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FEBRUARY 15, 2016



**RARA meets at 7PM on the
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ROCHESTER AREA RADIO

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Published by

Rochester Amateur Radio Association, Inc.
P.O. Box 93333, Rochester, NY, 14692-8333
Hotline – (585) 210- 8910
Website – <http://www.rochesterham.org>