



THE RARRA E-RAG

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Summer Fun for Everyone!

By Duane Fregoe, K2SI and
Frank Schramm, WB2PYD

Mark your calendar: This summer will be the most eventful summer for RARA. Beginning on **Friday May 30th** with your **RARA Hamfest!** This will be the 74th Hamfest RARA has produced. The outdoor festivities will begin at 6:00am for you early birds, and the Dome opens at Noon. At 6:30pm the Annual **RARA Banquet** will be at the RIT Inn and Conference Center. This is our time to gather with friends and family, and have a nice meal. Bring your spouse, a date, your significant other, life partner – or all of the above. So disregard the typo in the Hamfest mailer; Banquet tickets ARE sold separately from Hamfest tickets. And remember: The Banquet is for everyone, it's not by invitation only... if you need a written invitation, here it is in your hands! We will also have our Hospitality Suite open after the banquet in room 522 so if you can't make dinner, do stop up and say hi.

On **Saturday May 31st** the excitement will be back at the Dome beginning outdoors at 6:00am and indoors at 8:30. Your Hamfest Committee has arranged for some great programs running throughout the day along with our dedicated VE testing team. For a complete listing and schedule visit the Hamfest site at :

www.rochesterhamfest.org.

Rochester Hamfest May 30-31, 2008

Saturday June 21st is your RARA Picnic at the Creekside Lodge in Ellison Park. This year we are extending an invitation to the members, and their families, of all the radio clubs in the area! We expect a great turnout with lots of fun for everyone. For those of you who may not have attended a RARA Picnic in a while, the club provides hot dogs, rolls, condiments, chips and soft drinks. As inclusive as that may seem a dish to pass is always welcome (perhaps a salad or a desert). Just bring the family and an appetite! It's FREE! That's right, read my lips: Free food. All we ask of you is to drop an e-mail to: wb2sxy@arrl.net and let him know about how many people will be in your party so we have enough food for N2IXD to

burn for you. Jim will be playing with matches about noon, so plan your arrival accordingly. KB2CHY will be monitoring 146.88 and 146.52 to help get you lost in the park... we suggest you refer to a map.

RaRa Annual Picnic

June 21, 2008 - 12 Noon
Creekside Lodge, Ellison Park
Talk-in on 146.88 & 146.52

For what may be another first: We will be meeting throughout the summer. Due to the Independence Day holiday, our July meeting will be on **Friday July 11th** at Bill Gray's in Henrietta. The program will be: **RARA Cruise Night!** We will begin at 6:30pm so come grab a burger, fries, and a shake! We want to see your best set of wheels; be it a car, truck, or cycle, whatever you have - with or without a ham radio! A prize (prizes???) will be awarded for the best non-commercial mobile (HAM) installation! Don't forget to bring your YL, XYL, etc!!!

On **Friday August 1st** we will meet at the Henrietta Town Park for **Fox Hunting 101!** We'll be starting at 6:30pm to take advantage of maximum sunlight. John Dickason, N2JAC will teach us how to find a hidden transmitter. A full fledged Fox Hunt will ensue after the presentation / instruction so be sure to bring your 2m HTs!!!



SILENT KEYS



Gerald G. Tyror, KB2WVR

January 16, 2008

Rev. Keith F. Freeberg, Jr., N2BEL

April 14, 2008

Richard B. Hilsinger, WA2ATV

April 14, 2008

Russell G. Schroeder, II, W2DYY

May 8, 2008

THE RARA E-RAG

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The Prez Sez

By Frank Schramm, WB2PYD
President, RARA

It's difficult to believe an entire year has passed since I became your Vice President. In case you couldn't tell by my depressing writings and gloomy meeting drone: I had a blast! It was tremendous fun and I'd do it again in a heartbeat. But the By-Laws state that I move on and drive the club into the future as your President. So buckle your seat belts-we're in for a ride!

My first new initiative is summer programs. The July and August festivities are listed on the front page and will be seen again in detail in the e-RAGs you'll receive (if you signed up with Dick) throughout the summer as the event time nears. Remember there will only be e-RAGs, no paper RAGs during the summer!

Going forward, my objectives for the coming year include:
Increasing club socialization – I intend to make our monthly gatherings 99% social time. Subject to your BoD approval, I propose the committee reports be summarized in the RAG. No one seems to pay any attention to them at the meeting and that's coffee & donut and presentation time wasted.
Continue presenting entertaining and educational programs - I promise to perpetuate the legacy I inherited as VP from Jim, N2IXD by working closely with Duane Fregoe, your new VP, and produce interesting programs.
Improve RARA Family events – The RARA Banquet and Picnic are events we create each year for you and your family to enjoy. The picnic is totally free for your whole family, a benefit of your membership in RARA. Anyone who doesn't take advantage of that is... well... um... an idiot!
Increase the value of RARA membership - I have some new ideas about ways to increase the value of being a member of RARA. It would be premature to elaborate here and now, but I'm going to give it a go for you. As well as increasing your benefits, I hope they make RARA membership more compelling to all licensed HAMs who are not currently RARA members.
Increase membership – We are holding steady at a healthy level near 500 members strong. I hope to attract more active members, especially the under 40 crowd, because we need that younger demographic to perpetuate a healthy club long into the future.

I'm going to try my hardest to fulfill these objectives. If our first Board meeting is any indication; your new Board of Directors is a very energetic bunch! I'm very confident we will be successful in any endeavors we set our energies on. I look forward to serving you and making RARA worthy of your membership.

73 – See you at the Hamfest!

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.....W2EOC, Lloyd Caves, N2PU

RaRa Rag 20 Years Ago: June, 1988

By Ed Gable, K2MP
RARA Historian



Writing for the RaRa Picnic committee was John Lloyd, KA2KFV, announcing the June 11th picnic at Wadhams Lodge in Powder Mill Park. Free food and fun for all, touted John, who also encouraged people unsure of directions to call the talk-in station on 146.28/88.

On a similar note, Neal Ekhardt, WB2EKP, wrote informing members of RaRa's camping trip plans for the summer. Three camping trips were planned for trips to Geneva, Ithaca (coinciding with the Trumansburg Hamfest) and Weedsport.

Town of Greece amateurs were surprised at the Town's proposed antenna zoning changes that allowed towers only 15 feet above any structure. Confused with towers versus the many TVRO dishes popping up, the erroneous zoning laws were about to become law. Luckily Tony, KA2WMH, became aware of the proposals and alerted local amateurs and the Town. Greece Supervisor Riley was very supportive and scheduled a meeting with Greece amateurs to help write a better worded law. Involved were WB2HDM, KA2WMH, N2BNE, K2YA and K2MP.

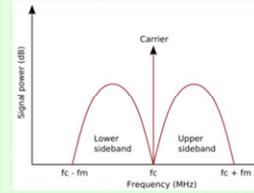
In a public announcement the FCC reported that it has passed laws to allow cordless telephones to move from 27 to 48-49 MHz. There were concerns by 6 Meter enthusiasts at those Part 15 devices. Published in this issue were hard to find details on the *Russian Woodpecker*, a nasty over the horizon radio system causing interference to HF radio services including hams. So pervasive was the interference that Amateur Radio equipment manufacturers started to program their noise blankers to specifically cut in at the 10 Hz pulse rate. The Russian radars watched the U.S. ICBM launch sites with 40 megawatt pings. They were really, really loud.

From the Want-Ads you could buy a tri-band three element quad from Jim, NK2M. Mike Rice, KB2SG, Attorney At Law, remained a long term advertiser.

RaRa Annual Picnic

June 21, 2008 - 12 Noon
Creekside Lodge, Ellison Park
Talk-in on 146.88 & 146.52

Sidebands: Amateur Radio in the News



By Larry Wallnau, W2ZEY

Memristors: New Life for Moore's Law? An entirely new kind of electronic component has been reported by researchers in the British scientific journal *Nature*. The new component, developed by scientists at Hewlett-Packard, is known as a "memristor" and was originally proposed nearly 40 years ago. Memristors were recently fabricated and already have been used to build transistors with novel properties. Memristors were first proposed in 1971 by Professor Leon Chua, of UC Berkeley. "I'm thrilled because it's almost like vindication. Something I did is not just in my imagination, it's fundamental," said Dr. Chua upon hearing the news. The memristors get their name because they still "remember" the amount of charge that has flowed through them after the power has been switched off. This could allow researchers to build new kinds of computer memory. Today, most PCs use dynamic random access memory (DRAM) which loses data when the power is turned off. However a computer built with memristors would allow a PC to start up instantly and exactly where it left off when shut down, or they would allow laptops to retain sessions long after the battery dies. The research team has already shown that they can build transistors by putting two memristors together – a configuration called a crossbar latch. And these devices can be made much smaller than a conventional transistor, which means they might play a role in the electronics industry's ongoing pursuit of Moore's Law. This law was first proposed by Gordon Moore, co-founder of Intel, and it is based on his observation that the density of transistors on a microchip doubles at a fixed cost every two years. **Source: BBC News**

Dallas BPL Plan Abandoned. Current Group, LLC has announced plans to abandon its ambitious plans for providing BPL internet service to 2 million Dallas homes. The plan had been promoted in conjunction with DirectTV. Current will sell its Dallas BPL network to Oncor, a regulated electric distribution and transmission business, for \$90 million. Oncor reportedly has no plans to offer internet service but will use the network to detect distribution network issues. Oncor spokesman Chris Schein confirmed that the company will use the network only for monitoring the power grid: "Our business is delivering electricity, not being an internet provider or a television provider." **Sources: Dallas Morning News, The Houston Chronicle**

VoIP Hurricane Net Volunteers Needed. The VoIP Hurricane Net is looking for volunteers for Net Control Operators (NCOs) [see <http://www.voipwx.net/>]. The NCOs assist with the weekly Hurricane Preparation Net and help during Hurricane Net activations. The VoIP Hurricane Net, created in 2002, is a support net working with WX4NHC [see, <http://www.fiu.edu/orgs/w4ehw/>], the Amateur Radio station at the National Hurricane Center. The VoIP Net Management team is looking for NCOs from the US or any world geographic area to maintain a net for as long as emergency communications are required before, during and shortly after hurricanes. **Source: The ARRL Letter**

Expanded Privileges for Japanese Amateurs. Japanese hams will receive more privileges on 75/80 Meters. As of April 28, 2008, the following frequency privileges went into effect for the 75/80 meter band: 3.500-3.520 MHz (CW only), 3.520-3.525 MHz (Digital Mode and CW), 3.525-3.575 MHz (CW and Phone), 3.599-3.612 MHz (CW and Phone), 3.680-3.687 MHz (CW and Phone), 3.702-3.716 MHz (CW and Phone), 3.745-3.770 MHz

(CW and Phone) and 3.791-3.805 MHz (CW and Phone). "This makes it a bit easier for US amateurs to make contacts with Japanese amateurs, especially in contests, since Japan does not have phone privileges on the 160 meter band," said ARRL Membership Services Manager Dave Patton, NN1N. **Source: The ARRL Letter**

From the desk of the RRRR VP

By Brad Allen, KB2CHY
Vice-President, RRRR

It's that time again. Hamfest is right around the corner and we are in full swing of the construction season. Help is needed for the RRRR Talkin booth. Take a load off all the walking and take a break at the Talkin booth at the Hamfest. Please contact KB2CHY via email at kb2chy@frontiernet.net if you plan to help out. No time schedule is needed. Talkin requests have been down over the years with the advent of low cost GPS receivers. We are also going to be APRS active with full positioning information. Check out your favorite APRS mapping software to find us. The Talkin is on the local 146.880 repeater. This means the receive frequency is 146.880 and you will use a minus 600 offset. If your radio shows it, when the transmitter is keyed, you will see 146.280. We also REQUEST you run 110.9PL. This is so you can hit the multiple receivers in the area. You can however run no PL and get into the system as well, but don't call from 30 miles away. Help us help you by checking the web and have a map or MapQuest instructions with you. We really don't know how to get you here from Timbuktu. At this time we do not have a check in prize, but you never know, so when you come into the area of the Hamfest, be sure to give the Talkin station a call. The call sign used is the same as the repeater, K2RRR.

On the local club front, RRRR is looking for candidates to run for office. Election evening is in June at our annual meeting at the Pittsford Town Hall at 8:00PM. It's really not a lot of work and you need attend just one extra monthly meeting. Please contact anyone at the K2RRR/RRR Hamfest booth, or come to the meeting this month May 16 or June 20.

I am, as I write this, working on annual checkups to the 88 repeater. We have had a few problems in recent weeks as the activity on the system increases. We found a switch moved to the wrong position due to activity around the area of our system at Cobbs Hill. We also found a coax for the receiver at the North site chewed up as it got caught in the door. That coax has been replaced. The radio itself is old pieces and parts of Harris equipment and is in bad need of replacement. The radio is also being repaired as it has an issue. We have a replacement to go back on site and that will be in place by the time you read this.

All in all, the modular design of the 88 rebuild in 2001-2002 is paying off. A receiver has done something weird and the spare is being tuned and checked so it can be replaced. All link receive radios were built identical for this reason. This is the first time a piece of the rebuild hardware has given us any trouble. These receivers are Hamtronics receivers and are built and designed locally. The quality and cost of the receivers and all the other products Hamtronics builds is the main reason we will use this same equipment when we replace the unit at the North site. Hamtronics is local and located in Hilton and has been building commercial quality gear for 40 years. Please support this local ham radio business.

We are now ready to get serious about RRRR having a Hamfest/swap meet here locally near the end of the summer/fall time frame. Due to gas prices for our travel, populating areas with more hamfests /swapmeets will keep our gas consumption to a minimum. On the other hand, the increased cost of travel for vendors will most likely be passed along to us in items for purchase. So here is the trade off, spend money on gas to travel to hamfests hours away or spend that money on more Radio

stuff. Hmm, no brainer here. What I am asking for is a number of us to get together as we have tried to do for some time now, and work on the feasibility of actually putting something on. Expenses can be held to a minimum. It can be a no frills get-together. Just contact me at 585-216-5066 if interested in helping out or email me at kb2chy@frontiernet.net. Our website is <http://www.rrra.us>. Please visit and if you are a member and have not updated your email address, please do that on the website or at the Hamfest booth or email it to me. I will forward it to the membership chairman. Thanks for reading this.

Spring Licensing Class Recap

By Brad Armstrong, W1YX
License Class Coordinator

The Spring session of licensing classes for this year has been over for a few months, but the good results continue to come in. Let me explain. I moved the location for the classes this go-round. John Arney and Jim Stefano have been more than generous with the resources of the Science and Engineering Departments at RIT for years and they are to be commended for their willingness to stand up for us as the school incrementally restricted where and when we could meet. Many good suggestions, and several introductions, I was given by Club members were key in the search for a new place that was suitable. The new location is very suitable. Director of Operations Mike Shannon was willing to lend us the use of Greece Volunteer Ambulance's training facility, located on English Rd. Their membership has proven that they have the same volunteer spirit that we do, by helping us at every turn, cheerfully and without hesitation. It is the perfect place to introduce new hams to what we do and how we do it. I look forward to seeing new students and upgrades learning there in the future. Our Fall session is already on GVA's schedule. That is a good result!

My class of new hams was very successful. Of those who attended the class, all have passed! New licensees are Frederick Mohr, KC2TCH; Robert Beltran, KC2TCJ; Jay Hamill, KC2TCM; Sabrina Hamill, KC2TCN; Steve Powell, KC2TCL; and Sandra Meyer, KC2TCE. Sabrina Hamill even upgraded to General at the Newark Hamfest. That is a good result!

Dave Hassett and Bill Kraft taught the General session, along with guest lecturers Ed Gable, Peter Fournia, and Raj Dewan. Most of their students have already passed the General! New Generals are Anita Morse, KC2TDQ; Tom Morse, KC2TDR; Kenneth Corl, WB2WDC; and Joseph Merolillo, KC2QZR. That is a good result!

Peter Schuch once again took on the Extra session single-handedly using a conference space generously loaned to us by Harris RF. This work by Peter and his students has also resulted in a few upgrades. New Extras are Wayne Friert, WB2LYL and Thomas Murray, Jr., W2TCM. That is a good result!

RaRa Hotline
NEW NUMBER
(585) 671-2424
24 Hours a Day

2008 Hamfest Information

By Dick Goslee, KG2I
Asst. General Chairman

We are looking for people to help with working at the "Outdoor Flea Market" during the Hamfest this year. This will only take a few hours of your time which will leave you plenty of time for the rest of the activities at this year's show. The "Flea Market" Co-Chairman Jim Karpick, K2TTP and Tom Austin, KA2GXX will have the area marked out in advance but we need people to help show people where to park and also to insure that all of the sellers in the Flea Market have a pass. If you would like to help out (you will get a FREE admission pass to get in the Hamfest) please contact the Assistant General Chairman Dick Goslee, KG2I at rgoslee@rochester.rr.com.

Any Clubs or groups that want a booth at the 2008 Rochester Hamfest must fill out a booth order form to be included. The form is available at:

www.rochesterhamfest.org/exhord8.htm.

Please include the names of up to 2 members who will be working the booth and who will require credentials necessary for admission to the Hamfest grounds. These credentials will be prepared in advance and must be picked up at the Hamfest Hotel (The RIT Inn & Conference Center). They will be available starting at noon on Thursday May 29th in the front lobby. There is no charge for booths for groups.

2008 Memorial Scholarship to be awarded at Hamfest Banquet

by Dick Goslee, KG2I
Treasurer, RARA

The Memorial Scholarship winner for 2008 is Robbie Escriva, KC2DQN. Robbie will be presented with his award at the Hamfest Banquet May 30, 2008. The annual scholarship fund was established by generous donations in memory of A. Leland Zwack, W2WPF; William Buchan, W2OMV; William Resch, K4VOS; Keith Freeberg, N2BEL and David Stewart, K2ZCD.



Shorts & Sparks

By I. M. Zapped, FZZ1POP
Reporting From the Geek Isles

New Ionosphere Mapping Tool. Researchers at the **Space Weather Workshop** in Boulder, CO released a new "4D" live model of Earth's ionosphere to the general public. From the comfort of your ham shack, you can "fly" through the ever-changing layer of ionized gases surrounding the Earth at the edge of space. According to solar physicist Lika Guhathakurta of NASA headquarters in Washington, DC. "The ionosphere is important to pilots, ham radio operators, earth scientists and even soldiers. Using this new 4D tool, they can monitor and study the ionosphere as if they're actually inside it." Visit

<http://terra1.spacenvironment.net/~ionops/ES4Dintro.html>

July-August Calendar of Events

7-11 – RARA Cruise Night – 6:30PM, Bill Gray's Restaurant, 1225 Jefferson Rd.

8-1 – RARA Fox Hunt – 6:30PM, Henrietta Town Park, Calkins Rd.

Upcoming Hamfests

July 19 ..Genesee Radio Amateurs Alexander (Batavia), NY

http://www.geocities.com/gram_Radio_club?index.html

July 19 Utica Amateur Radio Club, Frankfort, NY

<http://www.uticaarc.com>

Aug 16 Rome Radio Club, Westmoreland, NY

<http://pages.prodigy.net/romeradioclub>

September Rag Deadline August 6, 2008

RaRa Amateur Radio License Testing



**All Elements needed
to complete a license class.**

**3rd Saturday of each
Month, September – April**

**Registration – 10:00AM
Testing – 10:15AM**

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