



# the RARA RAG

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**ROCHESTER AMATEUR RADIO ASSOCIATION, INC.**

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APRIL 2002

NO. 7

## The Science And Art Of Troubleshooting

Ron Jakubowski, K2RJ  
Marykay Vesco, KC2DPG

We are going to have another very special program this month. Do you remember Mr. Ron Jakubowski, K2RJ?? He is a Life Member and Past President of RARA and also, a Past President of RARRA, in addition to being the editor of the *RARA RAG* in the early 80's. Well, he is going to join us at 8:00PM for our April 5<sup>th</sup>, 2002 general meeting at the Henrietta Fire Hall. He will be presenting a "killer" program on "The Science and Art of Troubleshooting" or a simpler title "How to Fix Something that's Actually Broken!"

Ron has had many years of experience in troubleshooting equipment and systems through his work experience at Harris/RF, Antenna Specialists, Allen Telecom and TX RX Systems as well as through his over 40 years of ham radio.

He is a past president and life member of RARA and served as editor of the *RAG* from 1981-86. While in Rochester, he was also Technical Director of RARRA and is one of their past presidents as well. He is now Chief Engineer — RF Systems of TX RX Systems,

*(Continued on page 4)*

### RARA Meeting

April 5, 2002

8:00 PM

Henrietta Fire Hall,  
3129 E. Henrietta Rd.

### The Science And Art Of Troubleshooting

Presented by  
Ron Jakubowski, K2RJ

## Scholarship Deadline Is April 15<sup>th</sup>

Richard Goslee, K2VCZ

Time is running out for submitting applications for the Memorial Scholarship. The "Rochester Amateur Radio Association Memorial Scholarship" was established with generous donations made in memory of A. Leland Zwack, W2WPF; William Buchan, W2OMV; and William Resch, K4VOS. The scholarship is available to any licensed Amateur Radio operator who is or will be pursuing any degree of Associate level or higher in any accredited school beyond high school. The individual must be a member of RARA and a resident of New York State. The scholarship is for one individual for one year, but the recipient may reapply for subsequent years. Kellie M. Gauvin, KB2CHC was the winner of the first Memorial Scholarship, which was presented at the Hamfest Banquet last June.

Applications are due no later than April 15<sup>th</sup>. The RARA Board of Directors and Scholarship Committee will make a final decision by May 15<sup>th</sup> of each year. The actual award will be presented at the annual RARA Hamfest Banquet held shortly thereafter.

Applications for the scholarship may be obtained at RARA general meetings, by mail at P. O. Box 93333, Rochester, NY 14692-8333 or by calling the RARA hotline at 442-0587. Additional information and a copy of the application is also available on the Rochester Amateur Radio Association web site at <http://www.ggw.org/rara/scholarship.htm>, or from one of the officers.

Additional "tax exempt donations" in memory W2WPF, W2OMV, K4VOS or other silent keys may be sent to: Rochester Amateur Radio Association, Inc., Memorial Scholarship, P.O. Box 93333, Rochester, NY 14692-8333.

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ROCHESTER AMATEUR RADIO ASSOCIATION, INC.

P.O. Box 93333, Rochester, NY 14692-8333

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RARA Life Membership is available for twenty times the annual dues.

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## Prez Says

Peter Fournia, W2SKY

Here are notes about current RARA activities that are in the works:

First, Ed Holdsworth, N2EH got an encouraging response from the Office of Emergency Preparedness regarding tour arrangements at the new communications center on Scottsville Rd. Although tentative, details will appear on the web page, the RARA reflector and *The RARA RAG* as they are confirmed.

Your BOD and committees have reached a consensus regarding the objectives, purpose, focus and methods of publicizing amateur radio. Keith Freeberg, N2BEL provided a Power Point document outlining this which can be found in the "Current Events" section of the web page. Activities are continuing including an appointment with R-News to tape a batch of amateur radio activities.

How'd you like the last few general meetings? Feedback continues to be favorable. The business portion is consistently less than 45 minutes, sometimes 35 minutes. People liked the 10-minute break that we inserted between the business meeting and the featured speaker. This provided time for refreshments, socializing and the purchase of raffle tickets before our speaker started. At the last meeting, Bernie Fuller, N3EFN our ARRL Atlantic Division director gave us a good insight into the current hot issues facing the hobby today. Ron Jakubowski, K2RJ will address us on the topic of troubleshooting equipment at the April 5<sup>th</sup> meeting.

The Hamfest organizers are still looking for exhibitors in the dome arena. Your suggestions for exhibitors, including non-ham related are requested. Also requested are e-mail messages to be sent to potential exhibitors inquiring/requesting their presence at the Rochester Hamfest, particularly in the dome exhibit area. Please reference the Hamfest web page at [www.rochesterhamfest.org](http://www.rochesterhamfest.org).

Turnout at our amateur radio course was inspiring. The count is 27 people and most of them will be new hams! Norm Turner, WB2LBQ has more about that elsewhere in this newsletter.

(Continued on page 6)

## Hamfest Programs – Part III

Lloyd R. Caves, WB2EFU

This is the final month that you will be able to read a brief description of some of the programs and that will be taking place at the Rochester Hamfest. As you know the past couple of months have had some of the programs already listed. Next months issue of the *RAG* will give you the scheduled times and meeting rooms for each program. It is hoped that everyone has the dates set aside for the Rochester Hamfest/Atlantic Division Convention. If not you better mark May 31<sup>st</sup>, June 1<sup>st</sup> and 2<sup>nd</sup> on your calendar so that you don't miss it.

### ARRL Forum:

Being the ARRL Atlantic Division Convention gives us the ability to have many of our elected officials on hand to talk with. Bernie Fuller, N3EFN the Atlantic Division Director and Bill Edgar, N3LLR the Vice Director will host this year League Forum. Join your Atlantic Division leaders and stay informed as to what is taking place both within the ARRL, the Atlantic Division, and the FCC. A lot of changes have taken place recently and this is a good place to stay informed and ask questions. Also, a good time to let your ARRL leaders know what changes, if any, that you would like to see. Two-way communications is always welcome.

### MARS:

This year there will be three MARS Forums taking place. If you are a member of the MARS network you will want to attend one or two of these meetings for sure. It is a good way to stay current with any and all changes or proposals. Also, for those who are not currently a MARS member but are interest in more information about becoming one, these meetings are the place to be. Steve Pertgen, AAA2NY (W2FXJ), NY State Army MARS Director will host the Army MARS. The Joint MARS forum will be presented by Steve, along with Wells Farr, AFF1NY NY State Air Force MARS Director and Ed Kessler, NNNØGBJ Navy-Marine Corps Northern NY Area Coordinator. Ed will then host the Nave-Marine Corps MARS meeting.

### The Rochester VHF Group:

The Rochester VHF Group presents a Rover

forum with four 1/2-hour tech sessions starting out with Paul Meyers, N2OPW and Roving 101. Next is Jim Howard, N2JMH with station integration for a rover. Following Jim will be Todd Donath, N2WVK with a construction session for making a laser communicator from inexpensive parts. The last 1/2-hour will be a show and tell of some of the RVHFG rovers along with a question and answer period. This will be a very interesting forum for all to attend.

### W2“Ruf and Ready” Code

#### Proficiency Tests:

Kevin T. Kedzierski, WA2FKV Special Events Coordinator for the Radio Association of WNY will conduct code proficiency tests. A beautiful four color certificate, showing the date and speed achieved, will be given to those participants who's copy has at least one perfect minute at 7.5 WPM or more.

#### DX Card Certification:

QSL cards will be checked and certified for WAS, VUCC and DXCC. Our own Ed Gable, K2MP who is our local ARRL Field Checker, will accomplish this. For further information on what cards can be handled by Ed you may go [www.arrl.org](http://www.arrl.org). This is a great way to credit for the awards you are after without having to mail your precious cards to Newington to be checked.

There you have it. Adding this to the past two months issues of the *RAG* you have a little background on all the programs available. Take the time to look them over and plan on attending the ones that are important to you or just look interesting. Remember that there is always something new to be learned and these meetings are a great place to learn it.



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# RARA RAG 20 Years Ago, April 1982

Ed Gable, K2MP

The April meeting was Old Timer's night hosted by the Club Historian, Bruce Kelley, W2ICE. Bruce's slide program covered DX antennas including W6AM's 60-acre Rhombic Farm. The venue was the Gleason Works Recreation Center on University Avenue. Membership Chairman Irv Goodman, AF2K reported that RARA's membership stood at 839, including 195 new members. Don Partis, WA2AIV the Western District Emergency Coordinator, announced the appointment of Ed Holdsworth, N2EH as the ARES Emergency Coordinator for Monroe County, replacing retiring George Negus, K2OIU. Mr. Holdsworth additionally held the position of Radio Officer for Monroe County, taking over from Jim Collinsworth, N2JC. Writing for Wayne County RACES, Bruce Blair, WB2QKO reported on the joint Wayne/Monroe County test of the Ginna Emergency Response plan. Several days later the real thing occurred when a Site Area Emergency was declared at Ginna. Continuing with a public service theme, Don Partis, WA2AIV also penned an article on the formation of the SKYWARN program in WNY. Dick Goslee, K2VCZ supplied a (what else) Heath 2 meter transceiver for use at the WX station, which, during storm activity, was manned by early SKYWARN members Ed Mahar, WB2ZJY and Art Bohnke, KA2BGW. Silent Keys reported this period included Onalee Gessin, KA2FIS, who is remembered for her planning and organizing of RARA picnics and Valentine Dinner-Dances. The Harris/RFA announced a new talking repeater on 449.29. It used a then new, high tech, National Semiconductor Digitalker chip. One problem arose; the gang can't get the chip to say "Bristol New York." A new advertiser is *Robinson Rochester Cycles* featuring BSA, Triumph and other fine machines, with Jim Lill, WA2ZKD, your contact. From the Want Ads you could buy Model 15 Teletype equipment from Chet Selbert, WB2ZFS.

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# Don't Hoard Experience Elmer's Wanted

Bill Kasperkoski, WB2SXY

So, you paid your dues; you spent a lot of time, energy and money learning about amateur radio, and now you think amateur radio can learn a lot from you. We agree. Pass your experience and skills on to the aspiring and less experienced hams. What comes natural to you now, after operating all these years, can be a real stumbling block to others, until they learn the way.

That's where you come in; you can show them the way. In 30 years they may not remember what kind of car they owned, but they will remember that W2... was his Elmer. Be an Elmer; contact John KC2DVX, (585) 334-9039, [jmay2@rochester.rr.com](mailto:jmay2@rochester.rr.com).

## The Science And Art Of Troubleshooting — (Continued from page 1)

Inc. in Angola, NY.

Most hams get caught-up in having to troubleshoot a problem with a piece of radio or ancillary equipment which today even includes computers and software. Problems range from reports of poor audio quality, key clicks and poor antenna VSWR to strange smells and smoke emanating from our equipment! Before attempting repairs on your own or even sending equipment out for repair, it is important to understand where the problem is occurring and be sure that the piece of equipment we are blaming is really broken. A simple example would be replacing the power cord when the real problem is a circuit breaker that's turned off. This program will challenge you to think in a more-structured way about any equipment or system that is not meeting expectation and to give you hints on how to make sure something is really broken before you try to fix it.

This is going to be an excellent program, so please come and make sure you invite a guest to come with you. This guest does not have to be a ham so this is a great opportunity to bring someone with you that has shown any interest in electronics or repairs.

## Rochester ACTIVE Radio Association

Bill Kasperkoski, WB2SXY

RARA is asking for your input on some serious issues facing your club and Amateur Radio in general. I presented EVERY point from the last surveys to your Board of Directors and Officers, and the RARA Leadership wants to use your input to make a better club for you. Some of the respondents had the passion to mail stamped letters to me - Thanks! - And your ideas about station ACTIVITIES, meeting location, cost savings, recruitment have been passed on. Send more!

RARA has a very aggressive schedule of excellent ACTIVITIES that is coordinated each month by Vice President Marykay Vesco, KC2DPG. What topics and ACTIVITIES would you like to see presented? ACTIVITIES attract members and generate fellowship so send in those ideas!

What is your pet public service project that you would like to see RARA provide volunteer communications support to, or even a special event station given enough interest? RARA has experienced people that can help you coordinate these popular ACTIVITIES! Utilize them!

What club ACTIVITIES (operation, construction, social, public service, youth, camping/travel, tours, breakfasts, equipment demos, contests, foxhunt, geo-cache, etc) would most attract you and your family?

What provisions can/have you and your family (employer?) made to assist our communities in public service and emergency ACTIVITY endeavors?

Do you have a list of friends who would like a sample copy of the RARA RAG, ACTIVITY Calendar and application form?

What club ACTIVITIES can RARA organize where Old-Timers can pass on their experience and expertise to our newer and prospective hams?

What is your favorite Hamfest ACTIVITY?

Is there a "Special Niche ACTIVITY" in which you would like to see RARA participate?

Is RARA heavy on ACTIVITY? You bet! For the complete ACTIVITY list e-mail or call me and sign up for the e-mail reflector.

I will route this month's response and issues

## A Thank You From The Radio Coaches

Peter Fournia, W2SKY

Your response from last month's appeal has been very generous. The Radio Coaches and the school are highly appreciative of this. Last month's appeal was for \$200 to transport our students to an RIT program. We received about \$300. Unfortunately we missed that program because of funding uncertainty. However, we plan to apply the funds to our fall 2002 program as we expect the same situation to arise.

Although local amateur radio operators have supplied a big part of the Radio Coach funding we continue to look beyond the ham community for additional funds. For example, the QUAD program supplied us with a sizable grant that covered about 3-4 semesters of the program. Our program will continue to be financially constrained in the short term until we receive another grant. Our operating costs run about \$400 to \$500 each semester. We think it is asking too much of the ham community to supply all of this. There are other programs such as the RARA Scholarship fund that requires support. However, sharing the costs among the hams, the school and a grant have been working.

Again, thank you for your response. We have enough funds to complete this semester and the next fall semester. Take a look at the impressive list of Radio Coach supporters on our web page at [www.ggw.org/rara/radiocoach.htm](http://www.ggw.org/rara/radiocoach.htm). The coaches, the school, the community and our 6<sup>th</sup> grade students appreciate your support.

**NEXT RAG DEADLINE  
APRIL 12, 2001**

to the responsible RARA Officer or Committee. Every answer is important so please respond. The best way is to e-mail me. The next best is to leave a voice message at (585) 987-3680 after 5PM. Let me know if you would like a personal reply; I will need a way to get back to you. Venting and grumbling is OK too! All replies are strictly confidential. E-mail addresses are for RARA use only.

# As We Build, Why Do They Come?

Bill Hopkins, AA2YV

They are out there in the woodwork. It's just a matter of finding them. Many of us ham operators could think that our radio-building hobby is populated these days by more "mature" citizens. No matter our age, some of our neighbors smile and extend their hand outward in a tap-tap-tap motion, saying "dot-dash-dot-dash," to indicate they are morsing out the word "fogey." Fact is, though, we might be kinda happy they don't take an interest. Who, after all, wants an HF competitor just down the street? (Is this really a problem?) Where, then, does our new ham community come from?

There are at least three kinds of people who have and will become active ham operators (VHF/UHF or HF). The first is youth, that neighbor's kid who comes through a joint-club station setup at the Rochester Museum and Science Center or the Hilton Applefest. Let me tell you: it's just like marketing widgets at a trade fair. In one day, out of the hundreds of the children-cum-parents who amble by, there will be many girls and boys who can't be torn away from the 10 meter QSO with Europe or the audio lure of automatic CW at the touch of their fingers. Yes, CW! Smart kids can easily find their own reasons for liking the hookup between a paddle, a keyer and the lap-top. (Just wait until they see slowscan TV from Russia or a PSK31 message from the edge of the Kalahari. And a portable satellite station will impress just about everybody.) By doing programs through RARA to build QRP-style kits or to visit area high tech industries, these young people will become fellow hams and they could be "set" for a good college major and a career.

Youth aren't the only interesting people with a passion to explore and be wowed. The February announcement in the Democrat and Chronicle newspaper helped bring out 26 women and men for the new RARA license classes, just one club's efforts. (The class hasn't been this large since Hurricane Agnes in 1972.) Some wanted to upgrade to General or Extra Class. The classroom for beginners is filled and their reasons for coming include: job

advancement; revisiting a childhood dream; enhancing college studies; graduating from CB-land; etc.

The third group is for you to identify. Why do people become hams? Why did you join up? There are tinkerers, knob turners, antenna junkies, incessant talkers, tight-lipped short-wave listeners. There are women who have decided to join the OM's other love; strung out 50-ish types who need to lower the old blood pressure; the real builders who need a kilowatt cause; and especially, those who know it's time to be of service to their local and national community.

So, while we are happy that youth can really be sparked and adults come for whatever reason, let's appreciate those who know, after "9/11" *that ham radio can and will be their home for public service.* Who knows?; you might get a colleague from work or that neighbor to help you put up your next invisible 40 meter dipole. And as you and he or she recall our recent national disaster, you just could help that friend realize a value you are providing to the community. She just might join our hobby and our club.

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## Prez Says *(Continued from page 2)*

The end of this ham season is within view. The deadline for the RARA Scholarship is April 15<sup>th</sup>. We have only one BOD's meeting and 2 general meetings remaining before our VP, Marykay Vesco, KC2DPG takes charge. A nomination committee is being formed to propose the next slate of officers. We're getting around to plan the RARA booth at the Rochester Hamfest. It's your last 2 months for hamming before the summer sets in!

See you at the April 5th RARA meeting.

**NEXT RAG DEADLINE  
APRIL 12, 2001**

## Membership, What Does It Mean

Brad Allen, KB2CHY

Membership, what does it mean? If you are a member of the AAA, you pay a fee for the year and get a service sometimes worth way over what you pay to belong. If you are a member of the ARRL, you get a service, a magazine, membership only services, etc. What do we get if we belong to a local radio club?

The fact that clubs are local means that you can have a say in what the club does as a group. You can participate in activities. RARA has a club station that is available to all members. RRRA has a repeater or two on the air for everyone's use, although to maintain this equipment, we expect your support by becoming a member. There is an unwritten rule that if you use the repeater, you also support it financially by becoming a member. You can become an officer and help guide a club along the road to the future. What's really important is that you put the dates of the meetings on your calendar and go to the meetings. You have a voice in who heads up the group on your behalf. You just can't pay \$10.00 and sit back and complain in the background where no one can hear you. You also, CANNOT pay \$10.00 and sit back and complain and expect anyone to listen. You have to understand that coffee, donuts, hall rental, newsletter, repeater and equipment upgrades, phone bills for auto-patch all cost money out of the treasury. Lack of membership causes lack of funds to provide these items.

What membership means is to become a part, be an officer, volunteer to help on a committee, raise your hand and come up with ideas to make things better when called upon. Membership means never to accept status quo. Membership is coming to a meeting and backing the officers; taking the time to show up and to support their efforts. After all, they are there because YOU voted them in and they showed enough interest to run for the office. Membership is smiling and shaking the hand and welcoming the newcomer. Membership is talking up the club and asking people to join and knowing the answer as to why they should. Membership is knowing that the officers you elect are doing their best and will perform bet-

## RARA License Class Update

Norm Turner, WB2LBQ

The spring season of the RARA License Classes got off to a wonderful start on February 11, 2002. There was a large, enthusiastic group of students to be welcomed and many of the board members and officers of RARA were present to do just that. There are 18 candidates for the Technician theory and the five WPM Morse code classes. Allen Skiles, N2VY is the instructor for the Technician theory while Lynn Rosenberg, N2IZX, is teaching the Five WPM Code. There are 5 candidates for upgrade to General class, who are very fortunate to have Bill Kasperkoski, WB2SXY as their instructor. There are 6 candidates in the Extra theory class who are being instructed by Carl Preddy, KU2N. Each of these dedicated people deserve the heartfelt thanks of the Amateur Radio community for giving of their time and talents to assist in growing the ranks within our hobby.

The turnout for this session is a marked improvement over the previous two sessions. The Board of Directors took a very serious look at how the classes were advertised and improved the methods of promotion. Thanks go to George Platteter, AA2FO for the wonderful article in the Democrat and Chronicle that helped spread the word so effectively. Thanks also go to Peter Fournia, W2SKY; Keith Freeberg, N2BEL; Lloyd Caves, WB2EFU; Dick Goslee, K2VCZ; Keith Bozek, N3HGN; and Mary Kay Vesco, KC2DPG, for their assistance at the registration session and for providing a welcoming atmosphere to get our classes off to a great start. I'm sure that this will be one of the most exciting and productive class sessions ever.

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ter with a show of support. By doing and understanding all these things, you become a GOOD member that cares. So join in and support your clubs today. Please note that RRRA is the repeater group and you cannot get codes for the repeater by joining RARA. Although we need to work together, we are two different organizations. If you have any questions be sure to ask any officer of either group for guidance as to which club you should become a member of.

# From The President Of The Rochester Radio Repeater Association

Brad Allen, KB2CHB

As I have stated in the last few *RAG's* we have made some major modifications to the "88" repeater. I guess not everyone shares the excitement that we do, but then again, some of those people have not endured being the laughing stock of a broken down, fix or repair daily repeater that the "88" has been for a while. The club needed a boost in the arm. It seems we can barely get more than 15 members to meetings, membership is down and just what do we offer for membership. RRRA was at a null status for a while as we on the board tried to find our nitch on what to provide to the membership. We decided that the club would have to attract members on it's own and in order to get the boost in the arm for membership, we needed to act and upgrade the one thing that makes us who we are. The "88" repeater IS the main ARES and RACES repeater in the area. The attraction of autopatch is a thing of the past. Our purpose in life is to provide good reliable communications via a reliable repeater system. We had failed to do that through no fault of our own, just a victim of the times.

Looking the repeater over for things that had to have our attention, we found that we had to act fast because of the malfunctions. The RC 850 controller has been intermittent for a number of years. Adjustments and adding to the system was cumbersome and entailed major amounts of time that nobody seemed to have. Access to the site had been curtailed heavily after the 9/11 attacks in New York City due to increased security procedures. We had to deal with this.

The attitude of the upgrade from some of the more senior hams of the area really hit home and was taken a bit personal. Those hams that have been in this hobby for years and who I respect highly did not seem to share the success that I felt RRRA had achieved. We did what we felt was right. Most of those complaining or have condemning comments have not been members for years. We now have a repeater that is solid and has good coverage. I will not apologize for the change. It is done. I

have always said that when this hobby becomes a burden and the efforts become unappreciated, it is time to give it up. I have come close to that, but looking it over, I don't think I am going to give up the many years of effort and time over a few hardliners, but I respect their comments. I realize that I alone did not make the decisions to upgrade. It was the board of RRRA and the need to serve the people who use the repeater. Many areas across the country are upgrading their repeaters for the very same reason.

The talk by Bernie Fuller called "Who Moved My Cheese" could be changed to "Who Changed Our Repeater." It is all about change and dealing with the reason Ham Radio exists. This is not what I was taught in the radio class I took when I got my license. Unfortunately, if you upset the apple cart, there is going to be some bruising to deal with. Well RRRA flipped the apple cart. We took a bold stand, as the board should. That is why we are paid the big bucks. Change is inevitable.

I worked hard and spent many hours researching the equipment that was presented to my board for purchase. Every piece of gear we have is owned by our CLUB!! We have noticed a pickup in usage and our membership is increasing a bit at a time. The NEW rebuilt "88" will benefit all of us. Those that have a problem with it, I can only say, give it a chance and dust off your handheld, find your manual and figure out how to put the PL tone in your radio. You will need this to access the link receivers in the north and at Cobbs Hill. The Westfall receiver is still an open carrier. Autopatch will be open, but to know the other user codes, you will need to become a member.

In closing, I only hope that those that know me, also know that I will help in leading our club into the future. I only hope that those that have their noses out of joint will stand behind us as we move forward. Ham Radio is needed. The enhancements of the repeater will benefit all of us as well as support for the ARES and RACES groups and activities. The "88" is the core of emergency communications of our area and I invite those in the decision making positions of these groups to use the repeater designed and born to do that job. Forget the past, it is the future we need to deal with. We will do that much better if we do it together, than if we do it apart in small entities of our own. We

*(Continued on page 9)*

## Silent Auction

John Rogers, W2JTR

The RARA Silent Auction has lived up to its name. It was very silent; no one participated. This is an opportunity for all of the members to sell unwanted ham gear that they will be able to repurchase at future local Hamfests. Let's try again in April. We will provide the table; you bring the "stuff".

### SILENT KEY

Phil Teck, N7OY  
(ex-N2WLQ)  
February 18, 2002

### The President Of The RARRA *(Continued from page 8)*

have a lot to lose if we are not ready for the worst. Let's be ready together as a HAM RADIO community. That's what we are here for. Let's prove our service is in fact worth what we put into it, our time, money and effort. Let's also not forget that our service is for fun as well. Let's not forget the friendship and "eyeballs" that we have all had over the years. Let's not forget those that are now silent keys that once peppered the airways with their knowledge and voices. Let's work together for all these reasons.

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## Historical Bits

Ed Gable, K2MP

- 1936 — Edwin Armstrong demonstrates FM to Radio Club of America
- 1946 — The first 6 meter transoceanic contacts are made.
- 1999 —USA Amateur population 740,000, Japan's JA Ops exceed 1.4M.

## RARA Amateur Radio License Testing

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To Complete a License Class

**Saturday**  
**April 16, 2002**

Registration - 8:30 AM  
Testing - 9:00 AM

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**Rochester, NY**

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[aa2fo@rpa.net](mailto:aa2fo@rpa.net)

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