



the **RARa RAG**

Published by

ROCHESTER AMATEUR RADIO ASSOCIATION, INC.

VOL. 39

SEPTEMBER 1986

NO. 1

SEPTEMBER MEETING NOTICE

On September 5, 1986 the new RaRa season will open with again an excellent program featuring a member of the ARRL staff. The meeting will be held at the Farm & Home Center on Highland Avenue and our guest speaker will be Jerry Hall, K1TD, Associate Technical Editor and Deputy Manager of the Technical Department at ARRL Headquarters.

Jerry has to his credit the 13th and 14th editions of *The ARRL Antenna Book*. He works with the technical articles you see in *QST* each month and is currently working on a new edition of *The Antenna Book* due out in 1987.

He has an extensive background in research in the field of ionospheric propagation with Raytheon Corporation before joining the League Staff.

Jerry will be talking with us about "*Antenna Facts and Fallacies*". He has a unique style of presenting his subject - he asks the questions.

We thank Ed Holdsworth, N2EH, Affiliated Club Coordinator for Western New York, who arranged for Jerry to appear at our opening meeting.

RaRa MEMBERSHIP

RaRa continues to grow! Last season the club, once again, reached an all time high in membership with a total of 897 members. This is a 3.3% increase over the 1984-85 season. Be sure to maintain your membership status in RaRa by renewing early. You can do this by sending your membership renewal application to:

RaRa

P. O. Box 1388

Rochester, NY 14603-1388

or by bringing it to one of the general meetings.

RaRa is a special service club of the ARRL. If you are renewing your ARRL membership or would like to join for the first time, you should look into doing so through RaRa. This could save you \$2.00. Ask for details.

Looking forward to seeing you Friday, September 5th.

73,

Lloyd Caves, WB2EFU
Membership Chairman

HELP WANTED

NEW RAG EDITOR NEEDED

RaRa is looking for someone to become the editor of our monthly newsletter, the "RAG". Our editor for these last few years, Ron, K2RJ, has moved to Cleveland and we are looking for a replacement.

The editor is responsible for putting together the various articles that are sent in each month, and also extracting articles from the various newsletters from other clubs that we exchange with. The editor then sends the material over to the printer where it is typeset and is then returned. The editor then lays out the typeset material in the final form that we see and pastes it down. It then goes back to the printer where the final result is printed. After printing the editor and his or her

HELP WANTED

staff put the "RAG" into the mailing envelopes and put the labels on them. It then goes to the post office and the editor gets to take a breather for a week or so before the next issue.

We publish 10 issues per year from September to June, and in talking to our last editor he figured that on the average he spent about 10 - 12 hours per month on the project.

If you think you would be interested in doing this job (or co-editing with someone else) please contact Dick, K2VCZ, at your earliest convenience either by phone or in person. The "RAG" is the backbone of our award winning club and we need an editor. Think about it. Thanks.

the **RaRa Rag**

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P.O. Box 1388, Rochester, NY 14603-1388

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VOL. 39 SEPTEMBER 1986 NO. 1

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The RaRa RAG (USPS 605-440) is published monthly except July and August by the Rochester Amateur Radio Association, 446 Cedarwood Terrace, Rochester, NY 14609. Subscription price \$4.00 per year (included in \$8.00 annual membership dues). Second class postage paid in Rochester, New York. Postmaster - send address changes to RaRa Rag, P.O. Box 1388, Rochester, NY 14603-1388. Full permission is granted for reprinting articles provided a credit line is given to the RaRa RAG. The RAG exchanges with other organization's publications.

HEATH/ZENITH

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(716) 424-2560
937 Jefferson Road Rochester, NY

"THE PREZ SEZ"

Another year is upon us and the officers and directors of RaRa would like to welcome you all back. For those of you that are reading this and are not currently members of RaRa, we wish you would consider joining us. We have planned many fine activities and meetings for this year and I believe there will be something of interest for each of you, whether you are a traffic handler, DX chaser, packeteer etc. We hope to have something for each of you.

I would also like to thank all the officers and directors who worked so hard last year. It was a very successful year for us and it was due to the fine efforts that each of these people put forth. Without them we would not have succeeded.

Being a member of RaRa can also save you money when it comes to joining the ARRL, (see the article from our membership chairman WB2EFU). I hope you will also consider joining some of the special interest groups exist in the RaRa family as well. These include repeater, packet, and VHF. By belonging to RaRa and the other organizations you will be better informed on many different phases of amateur radio and able to enjoy it even more.

If any of you are interested in being the editor of our monthly "RaRa Rag", or RaRa Public Relations Officer then please read the adjoining help wanted ads and contact me at your earliest convenience. These can be a very rewarding jobs yet not require a lot of time.

During this next year if you have any suggestions or comments about RaRa please feel free to contact any of the officers or directors, or leave a message on the answering machine on the club phone and we will contact you. We will be happy to listen as your ideas are always welcome.

ARRL AWARDS NOW AVAILABLE THROUGH RaRa

by Ed Gable, K2MP

As another service of RaRa, your ARRL Special Service Club, you can now apply for ARRL awards locally.

VUCC and WAS awards, and indorsements, can be processed here without the need and risk of sending your precious QSL cards through the mail to ARRL Headquarters. Ed Gable, K2MP, has been appointed Awards Chairman and should be contacted directly for this service. Call or write Ed Gable, K2MP, 737 Latta Road, Rochester, NY 14612, (716) 621-6692.

Amateur Radio Exams In Rochester

For the 1986-1987 season we have scheduled Amateur Radio Exams to be held on every third Saturday from September 1986 through April 1987.

The dates are:

- Saturday, September 20, 1986
- Saturday, October 18, 1986
- Saturday, November 15, 1986
- Saturday, December 20, 1986
- Saturday, January 17, 1987
- Saturday, February 21, 1987
- Saturday, March 21, 1987
- Saturday, April 18, 1987

Times for the exams are:

- 8:00 a.m. Novices
- 9:00 a.m. 20 WPM Code
- 9:15 a.m. 13 WPM Code
- 9:30 a.m. All written exams

Location:

The exams will be held in the Monroe County Social Services Building, 111 Westfall Road (corner of West Henrietta Road, Rt. 15 and Interstate 390), Rochester, New York.

We request 10 days preregistration to allow the VE-team to prepare for the test session. We will allow walk-ins, if the candidate arrives before the exam starts, early enough to fill in the 610 form and only if space and testing material is available.

Send all correspondence to:

A. G. "Albert" de Blicek, KW2X
59 Bay Knoll Road
Rochester, New York 14622

Pre-registration must include a completed 610 form and a copy of your current Amateur Radio license. He will return your SASE the same day with a 610 form in it.

The charge for taking an exam is \$4.00, which must be paid on the day the test is taken. Please pay by check or money order, payable to:

Metroplex/VEC

The May 1987 exams will be held during the Rochester Hamfest. Details of these exams will be announced separately.

All tests are RaRa sponsored, coordinated by Metroplex/VEC and taken under the direction of J. L. Schooley, K2NC, VE Team Director.

We trust that this will provide sufficient opportunity and satisfy the need for Amateur Radio exams in the Rochester area.

*73 and UPGRADE
Albert G. de Blicek, KW2X*

RAG SEPTEMBER CALENDAR

- 5 - RaRa meeting, 8 p.m., Monroe County Farm & Home Center, 259 Highland Ave.
- 6 - HAM-O-RAMA and COMPUTER-FEST, Niagara Falls Convention Center, Niagara Falls, NY
- 12 - October *Rag* deadline
- 13-14 Palmyra Canaltown Days, Public Service Event
- 21 - JCC 10K Human Race Public Service Event
- 21 - Annual Bike-A-Thon Public Service Event
- 29 - RaRa Licensing Classes start, 7:30 p.m., County Social Service Building, 111 Westfall Road

LICENSE COURSE

by Ed Holdsworth, N2EH

The fall license course will get underway, as usual, in September. They are scheduled to start on Monday, September 29, 1986. The hours will be 7:30 - 9:30 p.m. each Monday night until December 15, 1986. They will, as usual, be held in the Monroe County Social Services Building at 111 Westfall Road.

The cost for the courses will be as follows:

Technician/General

Registration fee	\$ 3.00
Membership	8.00
Books	10.00

Novice

Registration fee	\$ 3.00
Associate Membership	4.00
Books	10.00

I would appreciate it if you advise me if you are planning on attending. The sign up sheets will be available at the September meeting or drop a card to Ed Holdsworth, N2EH, 518 Parish Road, Honeoye Falls, New York 14472.

PUBLIC RELATIONS OFFICER WANTED

RaRa is looking for a new Public Relations Officer as Ed Neubauer, N2BXA, has left the Rochester area. The job entails sending out press releases to the local papers to let them know about our activities. The job should take a very little amount of time and can be a rewarding experience. If you are interested please contact President Dick, K2VCZ.

BEST WISHES TO RON & KATHY



How can these two look so relaxed and happy? If you are aware of one quarter of what Ron does for RaRa you are wondering where he finds time to be an active ham. But, he *is* a very active ham. When he and Kathy are not busy with their family of two daughters, they are active in church. Ron was twice elected to the Parish Council of the St. Johns Evangelist Church. Kathy is active in the Memorial Orthodox Presbyterian Church. Her biggest block of time has been educating their two girls at home, which she takes in stride with home-making, volunteering, being a Christian parent and writing a book about teaching children to pray.

Our photo caught them relaxing at home between the job at Harris/RF and Antenna Specialists. They are in the process of selling their home in Rochester and moving to Solon, Ohio where their new home will be available in early fall.

Ron has joined Antenna Specialists and has been working since July 7th, as Manager, Systems Engineering & Marketing. His former job at RF was Senior Test Engineer in the Long Range Radio Special Projects Department. Ron is not too sure how “*radio-active*” he’ll be, as he anticipates the new job will keep his spare time to a minimum. But those who know him will not give up hope as we know how adept and organized he can be.

Ron and Kathy met while in college at Gannon College/University. Both grew up in Erie, Pennsylvania, where they were married September 18, 1971. After college, Ron was a Lieutenant in the U.S. Army working at Ft. Huachuca, Arizona. When he left active duty, he joined RF in 1974.

He got talking one day to Joe Hood, K2YA, and was invited to become active in the repeater technical group. Ron was one of those who built the “88” repeater into the green box it now lives in up upon Cobb’s Hill. Ron also was involved when the Sister Cities had a convention here in 1975. He was trustee of the special event station *WH2SCI* in the then Americana Hotel on State Street. In the RRRRA, Ron has served on the Technical Committee, as Officer, Program Chairman, and became involved in the RRRRA UHF repeater when it joined the RRRRA. With RaRa, Ron has served as President, Vice-President, Treasurer, Editor of the *RaRa RAG*, the Hamfest committee and of course participated in many public service activities.

Ron started in ham radio as a novice in the fall of 1962 as KN3VXE. He was then K3VXE conditional and upgraded to Extra in 1968. While in Arizona, he was W7JRL. That became W2HXP when moving to Rochester. In 1977, the FCC allowed him to pick out his own callsign, he chose K2RJ. His wife Kathy became N2AGQ at the 1977 Rochester Hamfest.

Meanwhile, sandwiched in among all this, Ron is AAR2FS in New York State Army M.A.R.S. and is active as their Repeater Co-ordinator.

Ron and Kathy are making the most of the present, as they have since coming here to live. We all wish them well in the new endeavors. We know that many of us are going to be needed to fill in the footprints they have left. A little bit of what is the community of Rochester, RaRa, and RRRRA is much the better for their stay.

“*Tnx QSO, gl es bcnu, 73*”
Rag Staff

ANNUAL HOME BREW NIGHT

The first annual "Home Brew Night" which was to be held last February was snowed out with a very bad storm and was rescheduled for this year at the October meeting. The prizes will still be the same. There will be a dinner gift certificate in the amount of \$30.00 given for first place in each of the three categories and additional awards based on the number of entries in each category.

The categories are as follows:

1. Transmitters/Receivers/Accessories – This would include preamps tuners, filters, as well as transmitters and receivers and antennas.
2. Computers and Accessories – This would include Packet, Amtor etc. Anything having to do with the computer or computer connection to your radio equipment. **NO SOFTWARE PROGRAMS WILL BE ALLOWED BY THEMSELVES.**
3. Test Equipment – Including scopes, counters, grid dippers, etc.

All entries may be from an original design by you or copied from a design out of a book or magazine. No kitbuilding of commercial kits, like Heathkit or Hamtronics or Dick Smith Electronics Kits. The construction and workmanship must be yours.

You may enter in more than one category.

If you are going to enter complete the following form and return it no later than October 1, 1986. The meeting will be held on the **SECOND FRIDAY** in October. The date is October 10, so mark it on your calendar right now. It will be a night you won't want to miss, and we promise there will be no snow.

THE RaRa Rag 20 YEARS AGO, SEPTEMBER 1966

by Ed Gable, K2MP

In this issue President Eddie Dunn, WA2KMI, authored the traditional welcome back message after RaRa's close of meetings for the summer. Eddie also introduced the program for the September meeting, a film of the Gemini space program.

Dave Russell, WA2GIA, VHF Group Chairman, announced that Bob Jeffers, W2ALL, will present a meeting on VHF linear amplifiers. Also in the VHF line was the announcement of the popular 12th Annual VHF Roundup sponsored by the Syracuse VHF Club. Ray Springett, WA2AIL, told of the next Novice class with a new assistant this year, Bob Erskine, W2NVZ. Bruce Kelley, W2ICE, reported on the AWA's sponsoring of a Radio Historian meeting at the Franklin Institute. In attendance were notables from the Smithsonian Institution and the Dearborn Museum. Bruce further related on how Perry Esten, a former WHEC Engineer, was appointed Director of Engineering for the Voice of America. Working with Esten was another Rochester Amateur, Fran Sherwood, W2QCF.

The June picnic was well covered in a photo section showing such people as Vice-President, Charlie Hooker, W2SXV; and Chef Gail Heinzman, K2BCL, performing the cooking duties. Corny Unruh, WA2EOQ, reported that the Kodak Radio Club was becoming active again and sported a new call, WB2WZQ. John Wenrich, WB2FJU, is the new VP.

To: RaRa Home Brew Contest
c/o Bud Young, WA2UGE
79 Bartholf Road
Rochester, NY 14616

From: Name _____ Call _____

Address _____

Phone number _____

_____ Transm/Rec/Accy _____ Computer/Accys _____ Test Equipment

Amateur Space Telescope Planned

The Independent Space Research Group (ISRG) recently moved its headquarters here to Rochester. The ISRG is attempting to construct an launch of a small (18" diameter) orbiting telescope for use by amateur astronomers and educational institutions of all levels. The satellite, called the Amateur Space Telescope or AST, is being designed to transmit pictures in digital form over amateur radio bands, so that anyone with modest amateur radio gear can receive pictures.

A few months ago, AMSAT accepted a proposal for AMSAT participation in the AST project. AMSAT has agreed to build communication devices for the satellite, help organize a control station network, and allow the use of phase III satellites as relays between the AST and the ground. Dr. John Champa, of AMSAT, will be organizing teams for this purpose.

We are seeking area amateur radio operators who would be interested in becoming involved in our project. In particular, there are two projects that we would like to carry out during the next year:

– A test, in cooperation with AMSAT, of the Phase III satellite's ability to act as a downlink relay. We wish to set up a station on the ground that will mimic the proposed communication system planned for the AST, in terms of ERP, data rate, etc, and use it to transmit digital pictures from a CID camera up to the satellite and back to earth.

– Design and construction of a prototype interface capable of taking recorded digital pictures from the satellite and creating a picture on a TV screen or homemade photographic printer.

Of course, we welcome volunteers in other areas as well, not only in technical areas, but also for things like paperwork, artwork, drafting, and writing.

Anyone who is interested should contact Jesse Eichenlaub at 1170 Genesee Street, Building 5, Apartment 3, Rochester, NY 14611 or phone 464-0125. Please leave a message on the machine if no one answers.

NEW WEST TEXAS SECTION

The ARRL Executive Committee approved the creation of a new West Texas Section, comprising the western 40% of the state, effective January 1, 1987. The remaining sections are restyled North and South Texas Sections respectively. The area encompassed by the new West Texas Section presently includes 952 ARRL members.

Tnx ARRL LETTER

RaRa MEETING CALENDAR

September 5 – ARRL – Farm & Home Center

October 10 – Home Brew Nite – 40 & 8

November 7 – Auction – Police & Fire Academy

PUBLIC SERVICE

by Ed Holdsworth, N2EH

The response to a real emergency was rapid and well organized when on Tuesday, July 8, 1986 a utility crew in the process of replacing a pole on Main Street, Victor, New York inadvertently struck the telephone cable that provided service to the area. The Fishers VFD lost phone service and asked the Monroe County Office of Emergency Preparedness for assistance.

Bud Young, WA2UGE, Assistant EC/RO for Monroe County received a call for assistance from the Office of Emergency Preparedness. Bud reported to the O.E.P. and made arrangements for an operator to report to the Fishers FD to provide communications between them and the Monroe County Fire Depatcher and the Ontario County Sheriffs Dispatcher. Bud was able to find Bob O'Connell, NF2Z, and made arrangements for Bob to report to Fishers FD where he remained until the emergency was ended when limited phone service was restored at 1700 hrs.

I wish to commend both Bud and Bob for their excellent response to this emergency. It is thru continued training that they are able to respond in such a professional manner. I also want to thank the Rochester Radio Repeater Association officers and members for having and maintaining a fine repeater, without which, most of these events would not be possible.

KOREA SPECIAL EVENT STATION

The Korean Amateur Radio League (KARL) will be operating special event stations on the occasions of the 1986 Asian Games and the 1988 Olympic Games to be held in Seoul. Look for 6K86AG during August and September during the Asian Games. The station is authorized to conduct international third-party traffic on behalf of athletes if an agreement exists between the countries concerned. Athletes who are licensed amateurs in their home countries may also operate the station. KARL reminds amateurs planning to visit that it is illegal to bring any type of portable transceiver, including hand-held radios, into Korea.

Tnx ARRL LETTER

AMATEURS MAN SUPERSTATION AT VANCOUVER WORLD'S FAIR

A state-of-the-art amateur station is one of the features of Expo 86, the World's Fair of Transportation and Communication, held in Vancouver, British Columbia, Canada from May 2 to October 13 this year. The station is in the main hall of the Canada Pavilion, which is dramatically located in a spectacular harbor setting linked to the rest of Expo by a rapid-transit "Sky-Train".

The station operates on all bands, from 1800 kHz (160 meters) through 1.2 GHz, and in all modes, including SSB, CW, RTTY, AMTOR, Packet, FM, ATV, and SSTV. The station's call sign is VE7EXPO. Operation is from 10 a.m. to 10 p.m. local time daily; it should provide an interesting introduction to amateur radio for many of the more than 13 million visitors expected at Expo 86. A computer system that permits the public to ask questions about amateur radio is also featured.

Station VE7EXPO is manned entirely by volunteer amateur operators, providing not only a massive public-relations opportunity for ham radio, but an information center for many non-local amateurs. Local repeaters on 146.94, 224.30, and 443.525 MHz are monitored. Visiting hams who wish to take part as a group or to arrange contacts for special events may reach the VE7EXPO Amateur Radio Society at 202-13640 67 Avenue, Surrey, BC, Canada V3W 6X5.

RADIO-ELECTRONICS, Aug. 1986

A SAD POSTSCRIPT TO FIELD DAY

Just at press time, we received word of a Field Day accident which cast a shadow across this usually fun and festive occasion. North Dakota Section Manager Mike Mankey, WBØTEE, was killed when an antenna he was helping to install at a Field Day site came into contact with power lines. The familiar site had trees that looked ideal as antenna supports, but it was discovered – too late – that there were power lines hidden behind them. Mike was 36 years old. Our deepest sympathies go to his family.

While it cannot in any way reduce the loss to Mike's family, and to the Amateur Radio community, we hope this note will remind all of us to put safety at the top of the check list for antenna projects, at home or in the field.

Thx ARRL LETTER

PUBLIC SERVICE

by Ed Holdsworth, N2EH

The usual public service events have gone on with more still on the schedule. The Pittsford Carriage Association held their Fifteenth Annual Walnut Hill Driving Competition in August. We participated in that event with the usual group of communicators to assist with safety communications.

The Hamlin Beach Triathlon was held the same weekend, August 17, 1986 with Ed Gable, K3MP, in command. We also had the Pre-Drill for the Ginna Nuclear Plant Evacuation drill to be held on September 10, 1986. We will also be participating with the Drumlins ARC in the Palmyra Canaltown Days celebration to be held the weekend of September 13-14.

The J.C.C. will also hold their 10K Human Race on Sunday, September 21, 1986 and the Bike-A-Thon will be held also on Sunday, September 21. If you would like to participate in any of these events – I will have the necessary sign up sheets at the September meeting.

Remember, one of the basic reasons for the existence of the Amateur Radio Service is to provide an ideal training ground to be better prepared in an emergency.

ESTATE, PLUS — SALE SALE SALE

Kenwood Hf Transceiver model TS-520 with DG-5; AT-200; SP-520; D-140 mic.; Kenwood TV-506 verserter for 6 meters, and antenna for 80 to 10 meters.

Drake 2 meter rig, 12 channel, fm mode including internal supply for AC/DC.

Lafayette 6 meter transceiver, (HA-460) with vfo.

Icom portable (04-AT) 450 mHz.

Standard portable, 2 meter, FM, 5 channels.

Heath receiver SB-301 80 to 10 meters.

TS-530S; TS-830S; Drake T4X, R4C; Atlas 210X SB-220 PA; SB-221 PA; Tower, Rotor, and TA-33 antenna.

ANTENNAS: Tribander beam 10-15-20 (TH-3). Eleven element 2 meter beams. 440 mHz beams. Ringo. TH-33 beams. Rotators, Controls, Towers, Cables. 12 V.D.C. power supplies.

Many switches, controls, meters, things and goodies too numerous to list. New items being added, call for update. Contact "Len", WA2ZNC at 248-2511.



MEMBERSHIP APPLICATION

Send to:
**The American Radio
Relay League, Inc.**
225 Main Street
Newington, CT 06111

* Note
If you are joining the ARRL for the first time and you wish to thank the ARRL-Affiliated Club that introduced you to the ARRL, please enter its 4-digit code (club members can tell you what their code is) in the space provided at the top.

Cl- Along fold and detach

* Enter 4-digit code for sponsoring club, if any:

0	3	5	2
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Name _____

Call _____

Street _____

City _____

Prov. State _____

PC/Zip _____

\$25 in U.S./\$30 in Canada/\$33 elsewhere (U.S. funds)

Persons, age 17 or under or age 65 or over, upon submitting proof of age, may request the special dues rate of \$20 in the U.S. (\$25 in Canada, \$28 elsewhere in U.S. funds)

For postal purposes, 10% percent of dues is allocated to QST, the balance for membership

Charge to AMEX, VISA or MC No. _____

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Good through _____

CI 1-85

K2JD ENGRAVING

P.O. Drawer G Pittsford, NY 14534

CALL SIGN BADGES

Size • Up to	Cost
3/4 x 3 (1 line)	\$1.25
1 1/4 x 3 (2 line)	\$2.00
2 x 3 (3 line)	\$2.25
2 x 4 (4 line)	\$2.75

Base station sign

2 x 8 (2 line)	\$3.00
Walnut base	\$3.50
Plastic base	\$1.50

Clip fastener on badge instead of pin add 25¢

RUBBER STAMPS

Design your own stamp using the sample type sizes shown below. \$2.50 for three lines. Add 50¢ for each additional line.

36 PT

24 PT

18 PT

12 PT

10 PT

8 PT

Most color badges are in stock.

ARRL sig on stamp or badge add 50¢

FOR SALE— Icom portables (2-AT) & (4-AT), with two extra BP-5 batteries, and BC-30 Charger. Also HM-9 Speaker/Mic. \$400.00 or best offer. Alliance HD-73 Heavy Duty Rotor — \$65.00. AEA Isopole antenna for 2 meter FM — \$25.00. TET (SP-33) Tribander beam — \$60.00. Contact “Warren”, N2AUV, at 467-2360.

FOR SALE: Kenwood TS520 HF transceiver. Includes Digital Freq. Display Unit, CW Filter, VFO-520 External VFO, Desk Mike — \$450.00. Contact: Dave, N3CKH, 442-4318.



Amateur Radio News Service

WANTED: Collector/Historian wants to buy older tube type communications receivers, accessories, literature, etc. Please contact Ed Gable, K2MP, 737 Latta Road, Rochester, NY 14612, (716) 621-6692.