



# the **RARA RAG**

Published by  
**ROCHESTER AMATEUR RADIO ASSOCIATION, INC.**

VOL. 37

SEPTEMBER 1984

NO. 1

## **RaRa MEETS SEPTEMBER 7th PROGRAM ON CELLULAR RADIO**

The first meeting of the 1984-85 season will take place Friday, September 7th, 8 p.m., at the 40/8 Club, 933 University Avenue across from Gleason Works. This is the time to visit with Lloyd Caves, WB2EFU, our membership chairman and get your dues up-to-date for this season.

Our program this month will be a presentation on Cellular Radio by Dave Hayes, an engineer with Harris-RF Communications Mobile Telephone Division here in Rochester. Dave has been highly involved with the installation of a test-bed cellular system in Rochester and will explain the reasons for all the excitement generated across the country for this new mobile telephone system.

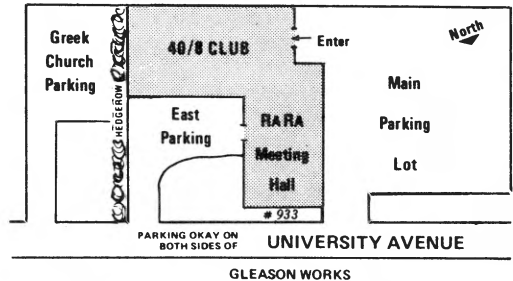
In addition to the program, there will be our usual awards presentations and excellent refreshments. Come join your friends for this first social event of the season and get up-to-date on all the latest happenings!

## **WELCOME TO RaRa**

If you've received this issue of the *RaRa RAG* by third class mail, it means that you are one of the 1700+ amateur radio operators in the RaRa service area (144-145-146 zip codes) who are *not* a member and we cordially invite you to join the largest ARRL-affiliated Special Service Club in the country.

RaRa is dedicated to providing the maximum amount of services to the Amateur community as well as the community at large. We provide communications for a multitude of public service events, sponsor licensing and upgrade classes and can now offer regularly scheduled Amateur Radio examinations for all classes of licenses. We conduct the largest Hamfest east of Dayton and print a directory of all Hams in the Rochester area.

For only \$7 you get all this plus a subscription to the *RAG*. Why not join us? We'd love to have you! A membership application is included for your convenience.



## **40/8 PARKING**

### **INSIDE:**

- September Calendar
- "While You Were Away" ... and Much More!

## **RaRa BEGINS VOLUNTEER TESTING**

Since all of the exam questions have now been released, we are now ready to get underway on a regular program of examinations in the Rochester area. We have established three firm dates on Saturday spaced about 30 days apart, and plan to continue on a monthly basis throughout the year. Our firm exam dates are September 22, November 3, and December 8, 1984.

The examinations will be held at the Monroe County Social Services Building located at 111 Westfall Road within sight of the Route 15 exit on Interstate 390. Examinations for Technician through Extra Class will be given as follows:

20 wpm code (Extra)	9:00 a.m.
13 wpm code (General)	9:45 a.m.
Written exams only	10:30 a.m.

Novice class examinations will not be given since they are readily available from any amateur in the area.

The contact person for exams will be John Schooley, K2NC, 329 Fiesta Road, Rochester, New York 14626, telephone 716-225-3626. No prior appointment will be required to take an examination.

As the program gets underway we will establish a continuing sequence of dates for 1985.

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

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**VOL. 37 SEPTEMBER 1984 NO. 1**

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Secretary: John Lloyd, KA2KVF 254-2394  
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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 \$1.00 per year (included in \$7.00 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.

## HEATHKIT ELECTRONIC CENTER

### Amateur Radio Equipment and Accessories

Keyers, Antenna Tuners, SWR/Wattmeters,  
Coax, Connectors, Wire, Test Equipment,  
Educational Courses, etc.

(716) 424-2560

937 Jefferson Road Rochester, NY

## PRESIDENT'S CORNER

by Ray Roberts, WA2SSU

I would like to thank you for the honor of being your president for the coming year. The club officers have many fine activities planned for you and I encourage your participation in all of them.

Our committee chairmen are listed below. Please contact them if you wish to help or have any suggestions or questions.

N2EH	Ed Holdsworth	Public Service, Licensing, Club Station, Hamfest
N2CUN	Howie Davies	Awards
WB2EFU	Lloyd Caves	Membership
N2DPF	Dave Bernheisel	Computer, Social
K2HC	Harold Smith	Hamfest
N2BXA	Ed Neubauer	Public Relations
K2RJ	Ron Jakubowski	RAG, Directory, Programs
KA2KGM	Steve Sykes	RFI/EMI
KD2K	Harold Mundy	Audit
K2NC	John Schooley	Exams

Our goal this year is to remain one of the top radio clubs in the country and I would like to see our membership top the 1000 mark.

The club is for everyone and if you have any questions or problems please take them up with the appropriate committee chairmen or myself. We will all be happy to serve.

## RENEW/JOIN ARRL VIA RaRa AND SAVE!

Did you know, RaRa members who join or renew their membership in ARRL through the club will automatically get a \$2.00 rebate on their current RaRa dues. To do this simply fill out your ARRL renewal or application form and send it along with your check for \$23 made out to RaRa. At this point, the membership chairman will handle the rest.

The \$2 rebate is per application, not the number of years being renewed. For example, if you are renewing or joining for more than 1 year, the RaRa dues rebate is still only \$2. It also does not apply on life memberships or family memberships in ARRL.

For more details or questions about this new service see Lloyd Caves, WA2EFU, membership chairman.

## LICENSE COURSE

by Ed Holdsworth, N2EH

The fall license course will again be offered starting on September 24, 1984. We will offer the usual Novice and Technician/General classes both in Theory and Code. Registration will be done on the first evening but it would be appreciated, if you plan on attending, that you sign up at the September meeting or drop a card to Ed Holdsworth, N2EH, 518 Parish Road, Honeoye Falls, New York 14472. This will be a great help in making arrangements for books and supplies.

The classes will be held at the same location, 111 Westfall Road corner of Mt. Hope Avenue. They will be held on Mondays starting at 7:30 p.m. and ending at 9:00 p.m. I want also to remind you that License Testing will be offered for Technician and up this fall by RaRa. See other articles in the RAG for details.

The registration fees will remain the same as previous years and are as follows:

### NOVICE

Registration	\$3.00
Book	\$2.00
Associate Membership	\$4.00
Total	\$9.00

### TECHNICIAN/GENERAL

Registration	\$3.00
Book	\$4.00
Regular Membership	\$7.00
Total	\$14.00

## TOWN OF RIGA TO CELEBRATE 175th BIRTHDAY

by Billie Robinson, WB2FNF

The Bicentennial Committee of the Town of Riga is making plans for an all day celebration including special exhibits of a historical nature, Square Dance demonstration, Monroe County Parks Band, a parade, and a *Special Events Station*. The festivities will start about 9 a.m. and go on all day at the Harvey E. Noon Post on Buffalo Road, Churchville, New York, September 1st, 1984.

We plan to be on the air from 9 a.m. to 5 p.m. using the call W2XG, (Thanks Bob!). We plan to use the General portion of 40 meters, and for any of the local that want to join in. We expect to be on 146.55 also. There will be a certificate offered to commemorate the occasion. We ask that anyone wishing to receive a certificate send a QSL and a dollar to WB2FNF to help cover the cost of printing and mailing.

So listen September first for W2XG and help Riga celebrate it's 175th Birthday. Come out and visit the town and join in the festivities.

## RAG SEPTEMBER CALENDAR

- 1 - Town of Riga 175th Anniversary Special Event Station W2XG
- 7 - RaRa meeting, 8 p.m., 40/8 Club, 933 University Avenue
- 8 - Hamburg Hamfest "HAM-O-RAMA", 7 a.m., Erie County Fairgrounds, Hamburg, NY
- 12 - RaRa Board of Directors meeting, 7:30 p.m., QTH of N2BEL
- 12 - October RAG deadline to KB2BU
- 15-16 Palmyra Canal Town Days public service event
- 18 - Rochester DX Association meeting, 8:15 p.m., Colonial Restaurant, 1129 Empire Boulevard
- 21 - RRRRA meeting, 8 p.m., Pittsford Town Hall
- 22 - AMATEUR RADIO EXAMS, 9 a.m., Country Social Service Building, 111 Westfall Road
- 23 - Bike-a-Thons public service event, Greece and Perinton
- 24 - RaRa Licensing Classes start, 7:30 p.m., County Social Services Building, 111 Westfall Road
- 29 - Elmira Hamfest, 6 a.m., Chemung County Fairgrounds, Horseheads, NY

## COP'S CORNER

by Howie Davies, N2CUN, RPD

D.W.I. - Three letters with a very serious meaning. Having a few *pops* with your friends and then climbing into your automobile to drive home is a sad mistake. The driver who drinks and drives is using very little common sense.

Recently in New York State there is a big push on to catch the D.W.I. driver. Extra police officers are working overtime to stop these violators before they become involved in an accident.

The second most important factor is for the courts to follow through with stiff fines or even prison terms.

I know how my fellow officers feel about drunk driving and we do all we can to try and stop it. Also, you, the citizen, can do something to stop a drunk from driving.

If you are at a party, a dinner or some other social engagement and think a friend is too drunk to drive, be a friend - take their keys and arrange a *safe* ride home for them. Don't let them chance losing their life or taking someone else's, or getting arrested and losing a license. We, the police need your help, too!

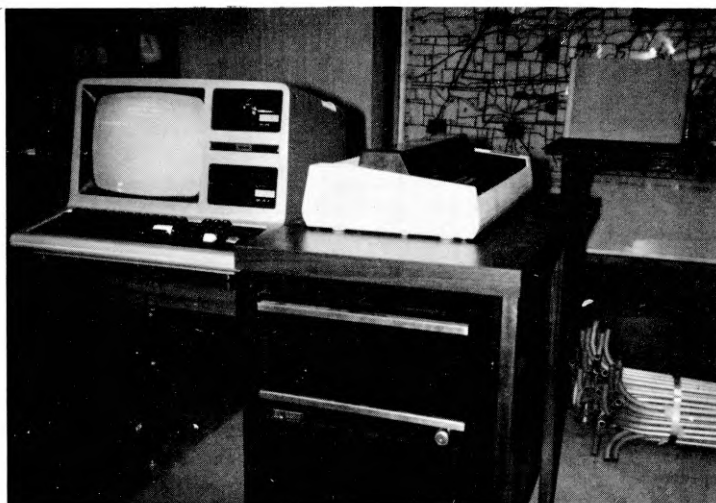
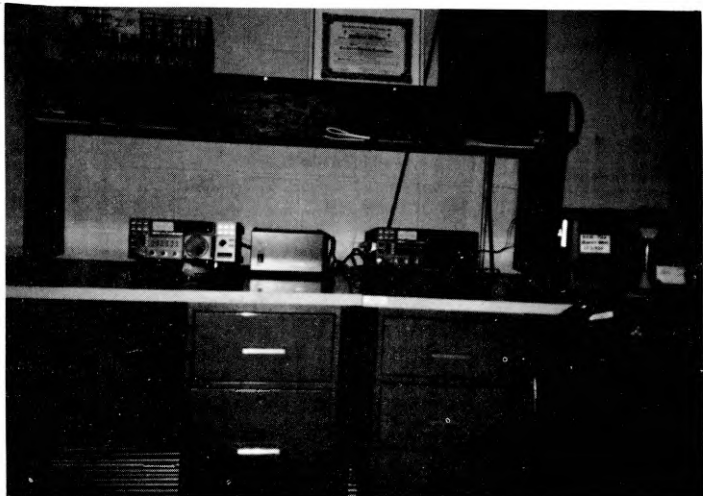


**K2**

**RA**

**CLUB S**

**ARMY MA**



**JD**  
**RA**  
**TATION**  
**AAR2USM**



# WHILE YOU WERE AWAY....

## FCC Actions

On July 12, the FCC acted on four items of interest to Amateurs.

1. The Commission adopted rules to permit the recoupment of out-of-pocket expenses by volunteer examiners and volunteer exam coordinators, VECs. The rules provide for considerable flexibility on the part of VE's and VEC's but do not *require* that either party be necessarily reimbursed. VEC's will be permitted to make estimates of anticipated expenses to establish a fee structure. If actual expenses are less for the year, the VEC will be allowed to simply reduce fees accordingly in the following year.

2. Acting on a number of petitions for reconsideration of its Volunteer Examination rules, the Commission adopted a number of minor changes. The most significant of these is that VEC's will be permitted to design their own exams in accordance with a Commission-supplied formula. The revised rules envision, two years in the future, permitting VE's themselves to design exams.

3. The FCC adopted a notice of proposed rule-making (NPRM) in which it is proposed that non-government broadcasters licensed by the FCC in ITU Region 3, for example, Guam, be permitted to use 7100 to 7300 kHz.

4. The FCC adopted another NPRM which proposes to revise part 73 of its rules to eliminate the requirement that broadcast stations obtain prior FCC permission before rebroadcasting Amateur Radio transmissions. At the same time, FCC proposes to clarify Amateur Radio rules to make it clear that Amateur Radio stations may not, even in an emergency situation, be used to supply communications on behalf of the media.

## FCC Rules on Phone Band Expansion

On July 20th, the FCC released a second Report and Order on the HF phone band expansion docket, PR Docket number 82-83, and also granted the petition, RM 4228, filed by Randall F. Soball, KH6XX, allowing phone operation on 7075 to 7100 kHz in the states of Hawaii and Alaska.

Effective 0001 UTC, September 1, 1984, the new HF Radiotelephone sub-bands are:

- 3750 to 3775 kHz Extra
- 3775 to 3850 kHz Advanced and Extra
- 3850 to 4000 kHz General, Advanced and Extra
- 21200 to 21225 kHz Extra
- 21225 to 21300kHz Advanced and Extra

21300 to 21450 kHz General, Advanced and Extra

28300 to 29700 kHz General, Advanced and Extra

## ARRL Now a VEC

The American Radio Relay League became a Volunteer Examiner Coordinator on July 21st. Representatives of the ARRL and the FCC signed a memorandum of agreement at the ARRL National Convention in New York City.

The agreement authorizes the ARRL to accredit Volunteer Examiners and coordinate giving Amateur exams in each of the 13 FCC defined regions. The ARRL will now proceed coordination Technician, General, Advanced and Extra class exams at hamfests and conventions in September and October.

Beginning in November, ARRL will coordinate exams at any location. Sponsors must register their intent with the ARRL VEC Office, 225 Main Street, Newington, Connecticut 06111, at least 75 days in advance.

## 220 UP FOR GRABS?

In early August, the FCC received two petitions for rulemaking requesting that the 220 MHz band be shared with Land Mobile radio services. (Remember, these are petitions for rulemaking and not FCC Notices of Proposed Rulemaking.)

RM 4829, filed by the Land Mobile Communications Council (LMCC) principally seeks frequencies in the 800 MHz band, but says that portions of the 220 and 225 MHz band could also be used for land mobile radio services.

RM 4831, filed by a local manufacturer of Amplitude Companded Sideband equipment, Sideband Technology, Inc. of Scottsville, asks the Commission to reallocate 216 to 222 MHz for narrow-band ASCB channels for private and government land mobile systems.

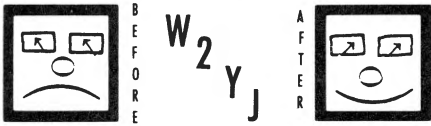
Comment deadlines for both petitions were August 29th, with reply comments due on or before September 13th.

**FOR SALE:** Cleaning shack, selling used 19-inch racks/accessories:

- Enclosed, floor, double doors \$55
  - Double-wide desk for above \$25
  - Ball bearing slide shelves \$10
  - Open-floor rack \$25
  - Enclosed desk-top cabinets \$10-25
- Jim, WB2WWV, 227-3084

**FOR SALE:** TEN-TEC Delta 580 digital 9-band xceiver, CW filter and power supply 280. \$425. Carl, KU2N, 544-9382.

## COMMERICAL COMMUNICATIONS



All Type Amateur Radio Repairs

Call 716-684-3562 after 5 p.m.

*EX DX Communications Repairman*

George L. Krickovich  
47 Wren Avenue  
Lancaster, NY 14086

## RRRA MEETS SEPTEMBER 21st "HOW TO SAVE A LIFE"

The September meeting of the Rochester Radio Repeater Association, Friday, September 21st at 8 p.m. in the Pittsford Town Hall will feature members of the Pittsford Volunteer Ambulance group giving a demonstration on life-saving techniques. Dues for the coming year also become payable at this meeting. Also, come to find out about our new club stickers and the Turkey Shoot being planned. A membership form is included in this issue of the *RAG* for your convenience.

## 2-METER MSO NOW OPERATIONAL

A new Message Storage Operation (MSO) is operating on 144.920 from WB2VPH in Brockport, New York. The SYSOP is Rich Lievens and hours are from 5:30 p.m. to 10:00 p.m.

The bulletin board is run on a Commodore C-64 with a Kenwood TR-7930 and an Isopole antenna. So if you can work RTTY on 2-meters then give it a try.

To get into the MSO, type (carriage return or ENTER)//AWAKE (c/r), then to log in (c/r)//LOG(callsign) (c/r). To get a list of commands type //HELP  
*Rich, WB2VPH*

## OSCAR 11 MOVING ALONG

The UOSAT-OSCAR 11 gravity gradient boom was deployed under onboard computer control at 1035 UTC, July 24th, on orbit 2113.

## NEW THIRD PARTY AGREEMENT

The United States has signed a third party traffic agreement with St. Christopher, Nevis, and Anguilla. St. Christopher is also known as St. Kitts. Callsign prefixes are VP2E and VP2K.

This agreement became effective August 8th.

## RDXA MEETS SEPTEMBER 18th

by Fred Gern, KB2SE

How would you like to meet the members of the world class contest team that operated XF2GW in the 1984 ARRL DX contest and scored almost 8 million points? The crew operated a multi-single station on Grand Cayman and all operators but one are Rochester DX Association members.

If contesting isn't your cup of tea, you might be interesting in meeting the local hams who have achieved the Honor Roll status in the DXCC chase. Several members have worked them all, several more have almost worked them all. We also have several dedicated DXers among those who have achieved the prestigious 5-Band DXCC Award (after you work them try collecting the 500 QSL cards!).

To add spice to the group we even have a member who feels that DXing is a VHF-UHF affair both in card collecting and contesting.

Another important group of RDXA members have not contested at all or have only tried it once or twice. Why, we have members who have worked 300 countries and still don't have the basic DXCC Award. There are also many still looking for their first 100 and some working DX and not keep even keeping track of the numbers.

Join us on Tuesday, September 18th, at 8:15 p.m. at the Colonial Restaurant, 1129 Empire Boulevard.

## RaRa CLUB STATION — K2JD

by Ed Holdsworth, N2EH

In this issue we have put together some pictures of the Club Station as it appears at this date. We had a small work party on August 11 to make repairs to the rotator on the tri-band beam, reinstall the mast for one of our dipoles and install and make the necessary connections to make our new computer operable.

This station has been developed over the past twelve years with the help and guidance of a few dedicated people that have made it grow from one HF transceiver to what we have today. We now have three HF transceivers, four VHF transceivers, one UHF transceiver, two computers and eleven antennas to go with it all.

We are at the station on Monday evenings, when the classes are on, from about 6:00 p.m. till 9:30 p.m. This allows anyone that would like to, the chance to stop in and see it or operate it. The station is also available to members on a 24 hour, 7 days a week basis. All that is required is that you be checked out on the equipment and are issued the proper I.D. There is no additional charge for this service.



# THE RaRa RAG 20 YEARS AGO — SEPTEMBER 1964

by Ed Gable, K2MP

RaRa's new President, Cliff Milner, K2SKO, welcomed the nearly 400 members in a very timely editorial which clearly stated the Association's objectives. VP and Program director, Harold Smith, WA2KND, announced the September program as a talk by Rochester Weatherman, John Williams, K2VOI, on the subject of Tropospheric Bending.

Membership Chairman, Pat Hennessy, WB2FVG, announced the availability of a new Rochester area Amateur Directory. The data on some 1300 area Hams was extracted manually from the Callbook and fed into an IBM 1401 computer for compiling and printing.

Continuing an already long term tradition, Ray Springett, WA2AIL, and Dave Hassett, K2QSI, announced the start of RaRa's Code and Theory classes. In another article the Ontario County Board of Directors, citing long and continuous service, awarded certificates to Hank Blodgett, W2UTH, and Bruce Kelley, W2ICE.

The Rochester VHF Group officers for the season were Chairman Carl Thoresen, K2HCD; Charlie Burke, WB2EUE, in the number two slot, and John Morris, K2BPV, Secretary and VHF Editor.

Other RaRa officials for the season include Larry McConnell, K2UCI, Treasurer; and Hank Kreutter, WA2IKB, Secretary. Heading up the TVI Committee are Art DeBruycker, W2YGW, and Stan Hazen, K2SSB.

Lafayette Electronics advertised their model HE-80 receiver, at \$134.95, as the one to have.

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## MEMBERSHIP REPORT

RaRa offers a variety of services and activities throughout the community and the year. Your interest and support in the past has been greatly appreciated by the Club officers and directors.

The 1983-84 membership season for RaRa ended with a total of 829 enrolled. With your early renewal it may be possible to surpass that figure for the 1984-85 season. This can be accomplished at the September meeting or by mailing an application to the RaRa Post Office Box.

Looking forward to seeing you Friday, September 7th.

*73, Lloyd Caves,  
Membership Committee*

## AUGUST BOARD MEETING SUMMARY

BY John Lloyd, KA2KFF, Secretary

Hi! My name is John, KA2KFF, and it's my intention as your secretary to relay some of the happenings at the monthly board meetings. Anyone is welcome to attend any of the board meetings usually held the Wednesday following the regular membership meeting. Keith, N2BEL, will be hosting the next board meeting September 12 at his home.

Ray, WA2SSU, provided the meeting place for the initial board meeting. Everyone at the meeting was assigned with some type of committee to work on.

A goal was set for the Membership Committee. Lloyd, WB2EFU, as membership chairman has been given a goal to sign 1000 members this year. Our total last year was 843, so it's not totally out of the realm of possibilities. I urge everyone to renew their membership as soon as possible so Lloyd can get a better perspective on his goal.

Better awards at the meetings were discussed. So if you've got something in mind call Howie, N2CUN, our new Awards Chairman.

Dave, N2DPF, is again head of the computer committee and is assembling quite a system. Most of the expansion equipment has been supplied by hook and crook and has not cost the club very much.

Dave had also agreed to head-up the social committee, so call him with any ideas you may have on that. How about a winter cabin party (around February 14)? This was discussed.

If you have any ideas for programs at the meetings give Ron, K2RJ, a call. As Vice-President, he is also program chairman.

John, K2NC, has done a fine job working with Metroplex and upgrade exams are scheduled for September, November, and December. Look elsewhere in this issue for pertinent details.

Every year more Community Service events are scheduled. Ed, N2EH, has done a fine job organizing this effort but would like to see more operators involved. As Ed says these can be a lot of fun and the more people helping the easier it becomes.

Steve, KA2KGM, is still working on any RFI problems.

ED, N2BXA, has agreed to serve as Public Relations Officer.

Ed, N2EH, will coordinate Amateur Radio Classes.

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**FOR SALE:** ICOM 211 Multi-mode 2-meter receiver and microphone, \$250. Roger Pawlowski, WB2GVB, 247-5274.



## MICROPHONE EQUALIZATION FOR RADIO COMMUNICATIONS SUBJECT OF SEPTEMBER 14th T.R.N.

Want to increase your effectiveness in working DX? Want your audio to be pleasant and easily understood? Or would you like to understand more about the principles of audio that effect communications quality and effectiveness? The facts are tht many transmitters and receivers are deficient (do you know what *your* transmitter sounds like over the air?). You can find the answers to these questions by tuning into the North American Teleconference Radio Net (TRN) on Friday, September 14, 1984, at 8:30 p.m. EDT. The subject will be Microphone Equalization for Radio Communications presented by Bob Heil, K9EID.

Bob will discuss such factors as: the history of audio as related to hearing and communications; ear response (what we hear) including Fletcher-Munson curves; audio processing by limiters, compressors, and equalizers; microphone frequency response and proximity effect; and speaker system limitations. Most important, Bob will describe *practical* ways to apply this information to improve the sound and effectiveness of your radio station.

Bob is especially qualified to speak on audio in radio communications. Early on he trained and perfected his listening as a professional musician. He then moved on to the design, development, production and operation of sound reinforcement systems for prominent performers. He is the

## RaRa DIRECTORIES TO BE MAILED

The RaRa Directory, a compendium of all Rochester post office area Hams will be given the final update within the next six weeks and will be mailed before the end of the year. *Another service of your club!*

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**FOR SALE** – Bus Radio, two frequency Motrac, 6 Mtr FM on 52.525, \$45.00 or offer, very clean and Exc. working Condx., K2MP, 621-6692.

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**WANTED** – Older tube type SW or Ham Receiver. Especially by RME, Howard, Sargent, Bretting and other oddities. Cash and finders fees paid. Ed Gable, K2MP, 621-6692.

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**INFORMATION NEEDED:** Would like to talk with anyone who has or had a Swan FM1210-A 2-meter transceiver. Howard P. Caudle, W2RSU, 490 Holt Road, Webster, 14580, 872-4684.

These ads are free to RaRa members.

author of the book *The Practical Guide to Concert Sound* (as well as a handbook for radio amateurs) and serves as a college lecturer on audio systems. Bob was honored at Dayton as 1982 "Amateur of the Year". He is also a well known proponent of converting surplus CB transceiver boards to 10-meter FM as a practical way to encourage building activities by amateurs.

TRN may be heard on the K2SA 146.19/79 and WB2AQQ 144.51/145.11 repeaters.

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## ROCHESTER RADIO REPEATER ASSOCIATION, INC.

### MEMBERSHIP APPLICATION

Please Print Name(s) \_\_\_\_\_ Call(s) \_\_\_\_\_

Address \_\_\_\_\_ ZIP \_\_\_\_\_

I enclose \$5 dues for myself and \$1 for additional family members who wish to join. \$ \_\_\_\_\_

The following information would be useful for our files but is not necessary to join:

Phone — Home \_\_\_\_\_ Work \_\_\_\_\_ Employer \_\_\_\_\_

License Class \_\_\_\_\_ ARRL Member? \_\_\_\_\_

2-M FM Equipment \_\_\_\_\_

220 FM Equipment \_\_\_\_\_

440 FM Equipment \_\_\_\_\_

Mail to: RRRRA, Inc., P.O. Box 92031, Rochester, NY 14692

# PUBLIC SERVICE — 1984

by Ed Holdsworth, N2EH

The 1984 season has been a successful one with our involvement to date in 10 events. We have worked on several events that are repeats, such as the Susquehannock Pro Road Rally, March of Dimes and the Mendon Pony Rally and also on some new ones, such as the Great Canal Caper and the Lake Ontario Marathon. I will, at this time, pass along my sincere appreciation for the excellent turn out of Volunteers this year and also for the very professional job of communications that everybody performed.

The events we have worked on so far have utilized our operators for 1434 man hours. We still have 9 events to go yet this year and include the Rochester Marathon on September 3, Ginna Drill on September 12, Palmyra Canaltown Days on September 15-16, Bike-A-Thons on September 23 in Greece and Perinton and Light the Lights on November 23.

I would like to point out, as I have in the past, that our Volunteer Public Service is performed by a small dedicated group. We have had an increase over the years in people that turn out for these events and I hope to see this trend continue. These events are, in my opinion, the best way to train people in handling the multitude of problems that could arise in the event of a true emergency.

Why don't you join us on one of these events and see if you enjoy meeting new people and possibly talk to someone about Amateur Radio, extending a positive picture of some of the activities that we are involved in. Again, you may have some FUN.

## 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

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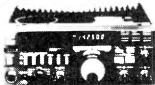
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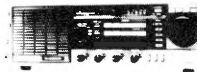
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