



the **RARRA RAG**

Published by

ROCHESTER AMATEUR RADIO ASSOCIATION, INC.

VOL. 38

NOVEMBER 1985

NO. 3

RARRA AUCTION AT POLICE AND FIRE ACADEMY

Well, its that time of year again – the first freezing rain or snow of the year always seems to fall on the night of the Auction. Will this year be any different?

Divide your excess equipment into the *goodies* and the *junk*, leave the junk at your curbside and bring all the goodies to the Police and Fire Academy on Scottsville Road (next to the Burger King) on Friday, November 1st. Doors will be open at 7 p.m. and the auction will start promptly at 8 p.m.

The auction is open to all RARRA members and a guest. Sellers will pay 10% of the sale price to the club. Club memberships may be obtained at the door.

All items must be marked with the seller's name, a brief description of the item and its condition, and a starting bid. Be sure to make the starting bid attractive – there will be no Chinese bidding this year – in order to try to keep the length of the auction reasonable.

Your auctioneers this year will be Smiling Ed Gable, K2MP, and Lenny Gessin, WA2ZNC.

RRRA FM CLINIC — NOVEMBER 15th

The Rochester Radio Repeater Association, Inc. will hold its annual FM clinic at the Pittsford Town Hall, 8 p.m., on Friday, November 18. Ron Jakubowski, K2RJ, RRRA Technical Director will head-up the committee offering their services to check-out and perform *minor* tuning and adjustment on FM transceivers. *No basket-cases please!*

SILENT KEYS

WA2YFO

Edwin R. Hurysz
September 17, 1985

K2CKN

Lee G. Blauvelt
October 9, 1985

LOCAL ANTENNA REGULATIONS PRE-EMPTED BY FCC!

While the ongoing fifty year antenna struggle between amateurs and the public they serve is undoubtedly not over, it has been greatly aided by a September 16th official government statement.

The Commission has **declared a limited pre-emption** over state and local regulation concerning amateur radio facilities holding that there is a strong **federal interest in promoting amateur communications**. The FCC has taken the position that local and state governments can not **arbitrarily** prevent antenna effectiveness by ruling against them.

THE 1985 FCC DECLARATORY RULING

The Commission ruled on PRB-1 during mid-September. *“While recognizing that there are certain general state and local interests which may legitimately affect amateur radio facilities,”* the FCC said that ... *“state and local regulations which preclude amateur communications are in direct conflict with federal objectives and must be pre-empted.”*

The Commission declared that *“local regulations which involve placement, screening or height of antennas based on health, safety or aesthetic considerations must reasonably accommodate amateur communications and represent the minimum practicable regulation to accomplish the purpose of the local authorities.”*

While the declaration by the FCC is a welcome legal milestone in amateur radio communications, a question remains ... *“what role does ‘aesthetics’ now play in local and state antenna zoning ordinances?”* My dictionary defines *“aesthetic”* as *“artistic, in good taste, well-arranged ... beautiful.”* Will cities decide that amateur installations are just the opposite and continue to regulate against them?

Action by the Commission, September 16th, 1985, by **Memorandum Opinion and Order** (FCC-85-506) Commissioner Fowler, Chairman, Quello, Dawson and Patrick with Commissioner Rivera not participating.

Tnx W5YI REPORT

the **RaRa Rag**

Published by

ROCHESTER AMATEUR RADIO ASSOCIATION, INC.

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ARRL MEMBERSHIP CAMPAIGN

If you are a member of RaRa and are not registered as an ARRL member, you will be receiving an important mailing very soon.

The ARRL is in the middle of a membership drive which features competition and incentive for ARRL affiliated clubs. Clubs all over the country are competing to see which can sign up the highest number of *new* members before the end of the year. When these memberships are processed, the club not only gets credit, but also a check for \$5 – the incentive!

New members and renewals alike are given incentive to renew through RaRa because the club gives an instant rebate of \$2 for each full membership.

If you've been sitting on the fence, now's the time to join. The ARRL is the only coherent voice that we Amateurs have in the nation as well as the world, and its representation is only as good as its membership. Not to mention that included in ARRL membership is a subscription to its journal, *QST*, the premiere magazine of Amateur Radio.

So, watch your mailbox! (By the way, if you are an ARRL member and get our mailing, let our membership chairman know so he can correct the club records.)

VOL. 38 NOVEMBER 1985 NO. 3

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THE RaRa RAG 20 YEARS AGO — NOVEMBER 1965

by Ed Gable, K2MP

The November meeting then, as now, featured the annual RaRa Auction. Banging the gavel at the Farm and Home Center site was Cappy Capauldy K2UXF. "Gimme a bid on this Macaroni box," was a familiar call.

Chuck Hilliker, K2IML, wrote urging that more people enter the November SS Contest for RaRa. Only 29 of the 300 members participated last year. In an article that is still very good reading, Dick Bourne, WA2HUV, gave a very nice description of what goes on behind the scenes at the W2/K2QSL Bureau run by the NJDXA. Linc Cundall, W2QY, writing for the Rochester VHF Group, reported that Dave Russell, WA2GIA, and Doug Ames, K2ACQ, gave talks at a recent meeting on their 432 Mcs activity. Bob Bancroft, WB3GNC, SIARC president, stated they were going to tour QROC. At a October 13th meeting, the Kodak Park ARA was formed with Armand LaMay chairing the first meeting.

The February 12th Valentines Dinner Dance at the Manger Hotel is already being pushed.

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THE NEW FCC CLASSIFICATION OF EMISSIONS

The first character describes the type of modulation of the main carrier.

- N Emission of an unmodulated carrier
- A AM double sideband
- H Single sideband, full carrier
- R Single sideband, reduced carrier
- J Single sideband, suppressed carrier
- B Independent Sidebands
- C Vestigial sidebands
- F Frequency Modulation
- G Phase Modulation
- P Unmodulated sequence of pulses
- K Amplitude Modulated sequence of pulses
- L Width/Duration Modulated sequence of pulses
- M Position/Phase Modulated sequence of pulses
- Q Angle Modulated sequence of pulses

The second character describes the nature of the signal modulating the main carrier:

- 0 No modulating signal
- 1 A single channel carrying quantized or digital information without the use of a modulating subcarrier
- 2 A single channel carrying quantized or digital information with the use of a modulating subcarrier
- 3 A single channel containing analog information
- 7 Two or more channels containing quantized or digital information
- 8 Two or more channels containing analog information
- 9 Composite system with one or more channels containing quantized or digital information, together with one or more channels containing analog information
- X Cases not otherwise covered

The third character describes the type of information to be transmitted:

- N No information transmitted
- A Telegraphy for aural reception
- B Telegraphy for automatic reception
- C Facsimile
- D Data transmission, telemetry, telecommand
- E Telephony
- F Television
- W Combination of the above
- X Cases not otherwise covered

NOVEMBER RAG CALENDAR

- 1 - Annual RaRa Auction, 8 p.m., Rochester Police and Fire Academy, Scottsville Road (next to Burger King)
- 6 - RaRa Board of Directors meeting, 7:30 p.m., Club Station, 111 Westfall Road
- 8 - VHF Group meeting, 8 p.m., Monroe County Social Services Building, 111 Westfall Road
- 12 - RDXA meeting, 8:15 p.m. Colonial Hotel, 1127 Empire Boulevard
- 13 - L.A.R.S. Annual meeting, 8 p.m., Big Tree Inn, Geneseo, NY
- 14 - Rochester Packet Radio Club meeting, 7:30 p.m., Tele-Connect Systems, 320 South Avenue
- 15 - December *Rag* Deadline
- 15 - RRRRA meeting, *FM Clinic*, 8 p.m., Pittsford Town Hall
- 16 - RaRa Amateur Radio Exams, 9 a.m., Monroe County Social Services Building, 111 Westfall Road
- 21 - **HAPPY THANKSGIVING!**
- 22 - Light-the-Lights Public Service Event, Downtown Rochester

BREAKFAST AND VHF TALK — NOVEMBER 10th

"*The Wonders of VHF and Above*" will be the topic of a presentation at the November breakfast meeting of the JCC Amateur Radio Club on Sunday morning, November 10. This outstanding tape/slide show will be presented by Evan Tupis, WB2ELB, and members of the Rochester VHF Group, the oldest VHF society in the world. The breakfast and presentation will take place at Howard Johnson's Restaurant, 1881 Monroe Avenue (12 Corners - Brighton). We will meet for breakfast at 9:30 a.m., followed by the talk at 10:45 a.m. All interested amateurs are invited and welcomed to join us for breakfast.

A few examples of the new emissions standards used by amateurs:

- J3B Single sideband suppressed carrier telephony
- A1A Continuous wave (CW) telegraphy
- F1B FSK RTTY
- F3E Frequency Modulated Telephony
- A3C Amplitude Modulated Facsimile
- F3F Frequency Modulated Television

Tnx VHF JOURNAL

SWEEPSTAKES '86

IS JUST 3 MONTHS AWAY !!!!!

by Ev Tupis, WB2ELB

Yes, it seems just yesterday when the all too familiar cry of CQ Contest was permeating the Rochester airwaves. Yes, folks, we came in second. Let's just shake the dust off our feet and start on our journey into the future. A journey that will tell us if the Rochester VHF Group has a membership that really wants to be number 1. What did he say????? Do you mean that there are people that *don't* want to be number 1? You answer that question. I won't. Often the argument that I hear is that there is a 4:1 QSO advantage down in the VHF corridor of Boston-NYC-Philadelphia-Washington DC as compared to Western New York. I must agree, however if you read the contest column last month, I'm sure that you will agree that WNY can work more multipliers than the people in the corridor.

So what can we do to increase our QSO total? Let's rely on our natural resources. Rochester boasts over 2500 amateurs in the 144xx-146xx zip code blocks. That's roughly the area from Medina in Orleans County to Bergen in Genesee County, through Sodus Point. That doesn't even count such amateur radio strongholds as Batavia! Of the 1500 amateurs in this area, roughly half or 1300 belong to an amateur radio club. It appears as though we need to get some of these clubs *actively* assisting the VHF Group's effort. Come on guys, we are amateur radio operators first, let's have a show of solidarity in the Western New York area!

As an incentive, allow me to introduce *The Rochester Cup*. The Rochester Cup is a trophy to be awarded to the custody of the most qualified Rochester area club for one year. In order to qualify for the trophy, *a club must appoint a contest manager*. This manager will be responsible for collating the necessary information from each of its contest participating members and forwarding this information to me as VHF Group contest chairman. Each participating club that submits their logs to the VHF Group for inclusion in their total score will be rated in the following categories:

- 1) Total logs submitted by club
- 2) Percentage of total club membership participating
- 3) Total multipliers represented by participating membership (if your club submits log from stations in FN13, FN03, FN12, and FN22, then there are 4 multipliers represented by participating membership)

4) Total QSO's (add all QSO's from all participating members: W2AA had 150 QSO's on 2 meters, 40 on 432/450 MHz and W2BB had 225 QSO's on 6 meters, 170 on 2 meters, the Total QSO's is 150+40+170+170 or 585)

5) Best club score / participating membership ratio, minimum participating membership of 10

It is plain to see that #1 and #4 favor larger clubs; #2 and #5 favor smaller clubs; #3 favors no one in particular.

One last comment: In order for The Rochester Cup to be awarded, there must be at minimum of 3 clubs competing.

Do you want your club to be the FIRST winner of The Rochester Cup? Start now to promote activity during the January Sweepstakes '86. I will be more than happy to help. If you would like to have us put on a VHF presentation (called *The Wonders of VHF and above*) for your club or group, be sure to call. Ev Tupis, WB2ELB, and Frank Pollino, K2OS are ready, willing, and able to put on the show for you, complete with audio and visuals. Call Ev at work or at home for more information. Work: 247-7400 - Home: 638-8269.

METEOR SCATTER COMMUNICATIONS TOPIC OF NOVEMBER VHF GROUP

The November 8th meeting of the Rochester VHF Group will feature Lloyd Luke, an engineering manager from Harris Corporation, RF Communications Group, speaking on meteor scatter communications. Lloyd is the design engineer on the Canadian JANET Communications System which employs meteor scatter to communicate throughout Western Canada.

The VHF Group meeting will start promptly at 8 p.m. and is located at the County Social Services Building, 111 Westfall Road, in the first floor auditorium. There is plenty of parking on the south side of the building.

W2YJ

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XEROX AMATEUR RADIO CLUB REPEATER UPDATE

by Pete Secrist, WB2SUN

The installation of the 220 repeater has been completed. As of the deadline for this issue, the 440 repeater to be linked, has not been received.

The present repeater is on top of Xerox Square and has the following features:

- Autopatch
- 200 Phone number autodial capability
- Fuzz-Buzz
- Touch Tone Test

The "Fuzz-Buzz" access code is 911 and #50 to disconnect. The autopatch is available for any one who desires it. The access codes for the autopatch are still restricted for club members. Any control operator, or club member, will be happy to access the patch for you if you desire.

Some may think the repeater is down from time to time. This is because the controller will not permit the repeater to operate unless a carrier is on the air for at least 2 seconds. While you are holding the key on the mike for two seconds you might as well identify your call and satisfy the FCC at the same time.

The frequency for the 220 repeater is 224.26 mhz output with the standard offset of -1.6 mhz. The 440 linked repeater will have an output frequency fo 444.8 mhz with a +5.0 mhz offset.

The repeater was funded with 20% membership contribution and 10% from the club treasury and the remaining 70% from Xerox community involvement funds. If there are any questions, please call.

FCC SCUTTLES WAITING PERIOD FOR RE-EXAMINATION

Effective November 8, 1985, FCC has amended the amateur rules to eliminate the 30-day wait before an applicant for an amateur examination may retake a failed examination element. This action, in PR Docket 85-21, is the result of a petition filed by Phil Miller, KB8QX, in 1984. Miller had requested that the waiting period for re-taking an amateur exam be reduced from 30 days to 7 days. FCC's Notice of Proposed Rulemaking proposed elimination of the waiting period altogether, and included a proposal to require public announcement only of examination sessions intended for five or more candidates. The extent rule required Volunteer-Examiner Coordinators to publicize all exam sessions.

Tnx ARRL LETTER

RUSSIAN PREFIX IDENTIFIERS

DXCC Country Name	Callsign Positions		
	1	2	3
Russian SSR (E)	U	A, V, W, Z	1 - 6
-----	R	A, V, W, Z	1 - 6
Russian SSR (A)	U	A, V, W, Z	7 - 0
-----	R	A, V, W, Z	7 - 0
Ukraine	U, R	B, T	5, 4+3-1, 6-0
Byelorussian	U, R	C	2, 1+3-0
Azerbaijn	U, R	D	6+5-1, 7-0
Georgia	U, R	F	6+5-1, 7-0
Armenia	U, R	G	6+5-1, 7-0
Turkomen	U, R	H	8+9, 0, 7-1
Uzbekistan	U, R	I	8, 9+0, 7-1
Tadzhikistan	U, R	J	8, 9+9, 0, 7-1
Kazakhstan	U, R	L	7, 8+9, 0, 6-1
Kirghizia	U, R	M	8, 9+0, 7-1
Moldavia	U, R	O	5, 4+3-1, 6-0
Lithuania	U, R	P	2, 1+3-0
Latvia	U, R	Q	2, 1+3-0
Estonia	U, R	R	2, 1+3-0
Franzjosefand	U, R	A, V, W, Z	1
Kaliningrad	U, R	A, V, W, Z	2

The new callsigns do not depend on the number in the prefix plus the first two letters to identify the Union Republics as in the past.

1. The first letter of the call can either be "R" or "U" on all bands.
2. The second letter of the call is the Union Republic identifier.
3. The number can be any number from 1 to 0 with any prefix. The new prefixes will start with the traditional numbers. *Tnx RDXA*



PALMYRA CANAL TOWN DAYS

September 30, 1985

Rochester Amateur Radio Assoc.
P.O. Box 1388
Rochester, New York 14603

Dear Friends:

Once again the Canaltown Days Committee thanks you for taking part in our recent celebration. The contributions made by the radio people are invaluable to us all. The success of the 19th annual Canaltown Days is due in no small measure to the participation and hard work of the many organizations, businesses and individuals involved.

Shortly we will begin our plans for Canaltown Days 1986 - September 17th and 18th. We hope that the members of your group will continue to be a part of our celebration.

Sincerely yours,

Rich Watson
Richard W. Watson
General Chairman

PALMYRA CANAL TOWN DAYS - BOX 64 - PALMYRA, N.Y. 14522

BROADCAST USE OF AMATEUR RADIO - MEXICO CITY

To what extent can amateur radio be used by broadcasters during an emergency? That is really **the big radio story** to come out of Mexico City. Powerful tremors rocked the world's second most populated city on the morning of September 19th downing phone lines and knocking out long distance communications.

Quickly reacting to the disruption in commercial communications, the news media for the **first time** established logistical radio circuits right in the middle of the ham bands. They said the "**new rules**" allowed it. Radio and television news correspondents and anchors converged on Mexico City ... their travel and support coordinated on amateur radio by broadcast hams.

On June 7, 1985, the FCC finally released their ruling entitled "**Rebroadcasts of Transmissions of Non-Broadcast Radio Stations.**" It was printed in the June 18th Federal Register (...Pages 25241 to 25247 if you want to read it at your public library). We reported on it in our July 1st issue.

It set forth the following rule changes:

(1) – The FCC eliminated the prohibition on rebroadcasts of Personal Radio Service communications stating that they "*were sensitive to the First Amendment rights of broadcasters and do not wish to impose any regulation that might necessarily restrict broadcaster access to information sources.*"

(2) – The FCC was concerned in 1984 that their amateur rules "*might be insufficiently specific with respect to (their) intent that they prohibit all activities involving use of amateur stations for broadcast purposes.*" They proposed to "*resolve this by rewriting parts of the amateur rules and including a specific prohibition on the use of amateur stations for broadcast news gathering and other program production purposes.*"

Two powerful broadcast organizations, the National Association of Broadcasters (NAB) and the Radio-Television News Directors Association (RTNDA) supported bona fide news event gathering by amateur radio when other telecommunications facilities were not available or inadequate. NAB membership includes more than 4,500 commercial radio stations, 800 television stations and the major commercial broadcast networks. RTNDA is a professional journalism organiza-

tion of more than 2,000 news directors and others involved in supervising, reporting and editing news programs. Both groups are very well funded.

The ARRL opposed their position saying it was overly broad and inconsistent with the non-commercial nature of the amateur radio service.

The final FCC **amateur rules clearly prohibited** use of amateur stations for broadcast news gathering or production as originally proposed. § Part 97.113 was rewritten to make this crystal clear. **There were no exceptions!** The FCC said in new § Part 97.113 that ...

(a) **An amateur station shall not be used to engage in any form of broadcasting, that is, the dissemination of radio communications intended to be received by the public directly or by intermediary relay stations ...**

(b) **An amateur station may not be used for any activity related to program production or news gathering for broadcast purposes.**

(c) **An amateur station shall not retransmit programs or signals emanating from any class of radio station other than amateur except for emergency communications which were redefined by the Commission to insure against any misinterpretation.**

The redefined definition of "*Emergency Communication*" (Part 97.3(w)) is "*A non-directed requested for help or a distress signal directly relating to the immediate safety of human life of the immediate protection of property.*" The key word is **non-directed**. It was a very narrow and clear definition.

The FCC acknowledged, however, that broadcasters had sought a much broader application of amateur radio to broadcast purposes. The RTNDA and the NAB wanted to use amateur radio circuits when commercial facilities were not available. Ham operators ... and communications ... are always readily available. There are few remote locations where a ham station is not already set up and operational. Broadcasters wanted to use them.

The FCC decided **not** to provide for any "*unnecessary exceptions in the amateur rules which could needlessly encourage unauthorized broadcast related amateur transmissions.*" At least that is what they said in one portion of the Order.

In another, the FCC said RTNDA's needs could be accommodated by a "**rule of reason.**" While **never appearing in the written amateur rules**, the Commission wrote in paragraph 22 of their Order that ...

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MEXICO CITY

(Continued from page 6)

“Conveying news information directly relating to an unforeseen event which involves the safety of human life or the immediate protection of property falls within this rule of reason, if it cannot be transmitted by any means other than amateur radio because of the remote location of the originating transmission or because normal communications have been disrupted by earthquake, fire, flood, tornado, hurricane, severe storm or national emergency.”

The Commission further added that *“We believe acceptable uses of amateur radio in emergencies are governed by traditional common sense interpretations.”*

When broadcasters received the new rules last June, they took particular note of paragraph 22. Here was a loop-hole in the ruling. The RTNDA's legal counsel, Larry Scharff of the Washington law firm of Pierson, Ball & Dowd, put out a **“Special Report”** in August that was very widely distributed. Every newsroom across the country got it.

In it, Scharff said that the FCC's Order was complex when applied to their request for increased journalistic use of ham radio during an emergency. The RTNDA published paragraph 22 of the Order in their Special Report. While acknowledging that the FCC generally reinforced its rules prohibiting ham radio stations being used for broadcast purposes – the RTNDA opinion to news broadcasters said the paragraph ...

(1) – *“... went beyond its new non-directed ‘distress call’ emergency communications definition to include transmitting news information during a disaster when normal channels have been disrupted.”*

He was right! While paragraph 22 used the word *“emergency”*, it also related it to *“conveying news information directly related to an unforeseen event ...”*

(2) – the FCC is not expected to interpret the *“safety of human life... the immediate protection of property ... or the newly adopted ‘emergency’ rule”* requirements *‘narrowly’*.

(3) – *“... the FCC condones ‘common sense interpretations’ of ham radio use in emergencies.”*

(4) – *“... it is the RTNDA's legal opinion ‘that paragraph 22 permits cooperation between broadcasters and ham operators in such instances as immediate post-hurricane or immediate post-plane crash coverage, even when there is nor immediate threat to life of property ...”*

(5) – News organizations were advised to have their attorneys review **the new rules** *“to determine the extent to which ham facilities may be used for broadcast purposes.”*

While it never made it to the rules, the League also noted paragraph 22. They filed a **Petition for Reconsideration** on the emergency communication definition and criticized the *“rule of reason”* broadcast/ham operator cooperation approach taken by the Commission. Another amateur, **David B. Popkin, W2CC**, of New Jersey also took issue with the ruling.

Both said there were shortcomings in the Order. The League said that clear parameters for amateur operation during emergencies should be stated in the amateur rules. In responding to the two **Petitions for Reconsideration**, the NAB and RNTDA jointly agreed that a clarification of paragraph 22 was needed.

The NAB and RTNDA again in August asked that the FCC *“adopt, as an exception to the prohibition against business communications and broadcast related activities of amateur radio, a provision that would allow voluntary cooperation between an amateur operator and a broadcast journalist for news gathering and reporting when information concerning extraordinary and important news event cannot be transmitted by other means of communications.”*

The NAB and RTNDA said that *“At minimum, the Commission should add a footnote to § Part 97.3(w) stating:*

For purposes of amateur radio operators cooperating with the news media in certain emergency situations, a “rule of reason” will apply”.

They also added that without further clarification *“... that aids the free flow of information to the public, the Commission's new rules raised serious due process and First Amendment issues”*. The NAB and RTNDA again *“urged the Commission to adopt rule changes that would permit amateur radio operators to cooperate with journalists for news gathering and reporting purposes when information concerning extraordinary and important events cannot be transmitted by other means of communication”*.

All of this ... the legal interpretations by the networks and their industry association counsels ... the Comments on them ... the RTNDA **“Special Report”** ... was going on between July 1st and the end of August.

(Continued on page 8)

MEXICO CITY

(Continued from page 7)

On the morning of September 19th, Mexico City was devastated by a terrible earthquake that killed over 5,000 ... and knocked out most, but not all, long distance communications. Satellite circuits were still available and used to transmit video and telephone communications out of the city.

Freshly armed with all of the high priced legal opinions, reports, and interpretations of what the FCC said in their June **Report and Order** could be done on the ham bands during an "emergency", the media took matters into their own hands. They established amateur radio logistical and news gathering links which they maintained were legal and specifically provided for. They had been given an inch ... they took a mile. In effect, broadcasters "tossed the ball" into the FCC's "court" and have now forced a confrontation.

One thing is known! The Commission never intended to provide for any amateur radio circuits being used for news media support, period! The FCC went to great pains to preclude it. Still, their handling of paragraph 22 remains a mystery.

Tnx W5YI REPORT

ST. JOSEPH'S VILLA TAKEN OFF HOLD

by Keith Freeberg, N2BEL

In the September issue of the "RAG", a call was raised to help some of the children of St. Joseph's Villa who were waiting to learn about amateur radio. Thanks to Tim Wettach, N2TW, that group of eight children now have class for the next six weeks, including a field trip to K2JD.

Tim says there is a need for other amateurs who might be interested in helping children understand amateur radio. Tim has related to me that he will not be able to continue his commitment past the current six week session due to other commitments over the winter months.

If you can find a few minutes, in your busy schedule, Tim or I would be happy to talk to you further about the program to bring more young people into our mutual hobby. Please feel free to call me at home if you have any thoughts, concerns or suggestions.

FOR SALE: Ten Tec Century/22 transceiver, with calibrator and 979 power supply - \$325.00. Call Jack, KJ2P, 342-3476.

RaRa MEMBER HELPS WITH MEXICO TRAFFIC

Ron Langly, KB2KZ, was Rochester's chief link with Mexico City after the devastating earthquake in September. He spent all his waking hours of nearly a week trying to relay the status of relatives of twenty families in Rochester. Many other stations tried, but he was the only station with a good enough signal to consistently be heard by the stations in Mexico City.

Channel 13 spent over an hour in his shack videotaping a news spot and interviewing him. He appeared on the news several times and provided some very good local PR for Amateur Radio. Thanks for a job well-done!

FOR SALE: Ringo Ranger II-ARX2B. 4 element quad beam for 2 meters. Both brand new. Call Al Dobbs, KA2OMT, 473-1180 or evenings 473-4262.

FOR SALE BY JCC-ARC: Commercial HF gear. Scientific Radio 1 KW broadbanded linear amplifier, mounted in a 6-foot heavy-duty instrument rack. Includes 6-channel xtal HF transceiver. \$350 or best offer. Call N3CKH, Dave Rubin, (442-4318) or KA2JRK, Norm Adams, (244-4005).

FOR SALE: Eico scope - \$30. VHF-SCR-522-BC 625 Xmtr-BC-624 Recv., B.O. Lafayette VHF converter-10-6 meters, \$12. Call Earl, W2WQV, 377-7401.

FOR SALE: VIC-20 and Kantronics software for RTTY, CW, also Amtor. Call Pete Secrest, WB2SUN, 256-2028.

FOR SALE: 30 ft. radio tower and tri-band antenna. You remove. \$80 or best offer. Call (716) 773-5509 (Grand Island, NY).

FOR SALE: ICOM 27A (2-meter FM) with scanning microphone, 25/5 watts. Mint. \$265. Ron Benjamin, W2GTE, 624-4692.

FOR SALE: SB301/SB401 with all filters, unused since fully aligned by Heath. Excellent condition - \$325 for pair. Call Al, 385-2430.

FOR SALE: Henrietta 3 bedroom ranch with regulation 34 ft. tower, 80/40 M dipoles. Call NM2H, 334-6763.