



the **RARA RAG**

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ROCHESTER AMATEUR RADIO ASSOCIATION, INC.

VOL. 40

SEPTEMBER 1987

NO. 1

SEPTEMBER 11th MEETING FEATURES ARRL'S RILEY

by Dave Bernheisel, N2DPF

This month's meeting will be held on Friday evening September 11 beginning at 8:00 p.m. The meeting will be held at the Farm and Home Center, located on Highland Avenue east of the intersection with South Avenue.

Our speaker for the evening will be Mike Riley, KX1B, a member of the ARRL staff. Until recently Mike conducted the Public Service column in *QST*. The August issue announced that he had been promoted to the position of Assistant to the Executive Vice President. He has been an amateur for 17 years and prior to joining the League staff served in the Navy in Southeast Asia and worked for Motorola, Inc.

Mike will give a presentation on the priorities and focal issues for the League, including but not limited to: preservation of the 220 Mhz amateur allocation, the bicentennial special callsign program, and related topics. Mike has indicated that he is anxious to answer any questions we may have on these and any other related topics. The formal part of the presentation will be followed by a question and answer period, and everyone is encouraged to come prepared to participate. Mike has indicated that he hopes to return to his office with a feel for the concerns and priorities of the Rochester amateur community. This is your chance, so come out and help make the program a success.

The meeting will be followed by an informal social period for which George Muller will provide the donuts and coffee in his inimitable style. Be there or be square!

OLD TIMERS LUNCHEON

Another "Old Time" luncheon with program is scheduled by RaRa and AWA on Tuesday, October 20 at the Maplewood Inn. Mark the date on your calendar. Additional information in the October *RAG*.

IMPORTANT NOTICE

This issue of the RaRa *RAG* is being mailed to all licensed amateur in the greater Rochester area. This includes all the 144-145-146 Zip Codes. Would you please take a few moments and check the mailing label on the envelope that your "RAG" was delivered in. If there are any errors or omissions PLEASE contact us immediately. This will allow us to correct the information we have on file before we print our directory of all Rochester Amateurs in October. It is important that we have everything as accurate as possible, especially call letters.

If there are any errors or omissions please drop a note to the following address or give me a call. Thanks.

RaRa Directory Editor
Richard A. Goslee, K2VCZ
24 Elaine Drive
Rochester, New York 14623
Phone evenings - (716) 334-1762

NEW ARRL MEMBERSHIP SERVICE

Commencing with the August ARRL membership expiration notices, members are now being reminded of their *FCC license expiration date*. Amateur licenses are renewed by filing FCC Form 610 which is available from HQ for an SASE. Remember, there is no fee charged to renew an amateur license.

Tnx ARRL Letter

SILENT KEYS

JACOB "NICK" NEUSATZ
N2BQH

CHARLES I. OTERO
EX-W2UPH
June 11, 1987

the *RaRa Rag*

Published by
ROCHESTER AMATEUR RADIO ASSOCIATION, INC.
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THE RaRa RAG 20 YEARS AGO — SEPTEMBER 1967

by Ed Gable, K2MP

This was a large issue, as the September issues tend to be, led by a long editorial from incoming president Charlie Hooker, W2SXV. Rag Editor Harold Smith, WA2KND, continues his superb job at the helm.

Upon renewing from Membership Chairman Ed Gable, W2MPM, you will receive the new RaRa Directory with over 1600 listings of area Hams. Gene Handler, W2LF, and George "Doc" Smith, W2RGA, were listed as area Silent Keys. Both were past RaRa Presidents. Mr. Kermit Hill, after a meeting with Harold Smith, WA2KND, Monroe County CD Radio Officer, promised more support of area Amateurs in matters of Civil Defense. Big in the Hams news at this time was Incentive Licensing. A letter from ARRL General Manager John Huntoon, W1LVQ, told of current status of Docket 15928. Harry Lott, W2ARX, wrote a column of QRP activity where he and Joe Phillips, W2DHF, are local enthusiasts of low power operation. The Antique wireless Association announced that they will support a National Historical Radio Convention at the Henry Ford Museum in Dearborn, Michigan. The code and theory classes started on September 15th as announced by Wally Kincaid, WB2HZG, Course Director.

Other 1967/68 Officers were Ernie Crewdson, WA2FVG, VP; Joe Castro, WB2HLI, Treasurer; and Al Mumby, WB2MCP, Secretary. A new advertiser is HI-CORE Electronics at Dewey and Ridge.

VOL. 40 SEPTEMBER 1987 NO. 1

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Amateur Radio News Service

CANCELLING A LICENSE OF A SILENT KEY

The FCC no longer deletes calls of Silent Keys unless its cancellation is specifically requested. Since the term of an amateur license is now 10 years, the family of the deceased amateur could continue to receive correspondence, which is sent based upon FCC records, for at least that period. In order to avoid this, families of deceased amateurs should send the license, or a letter if the license cannot be found, requesting its cancellation to FCC, Consumer Affairs Office, Gettysburg, Pennsylvania 17326.

Tnx ARRL Letter

HAMS RESPOND TO BROCKPORT EMERGENCY

On Friday, July 31 about 10:30 a.m. a fire was reported in a large warehouse in Brockport containing agriculture chemicals. Because of the possibility of toxic fumes a state of emergency was declared.

When it became known that evacuation of a large number of people would be necessary, the Monroe County Office of Emergency Preparedness requested communications backup from the Amateur community through RACES at approximately 11:20 a.m. The RACES station (RaRa club station) K2JD was activated and a callup of operators was initiated. By 11:30 a.m. operators were on the way to the command post and staging area in Brockport.

An operator was also assigned to Red Cross headquarters in Rochester. Communications were established with all points and when an evacuation center was opened at Spencerport High School operators were dispatched to that point.

All operators remained at their posts until re-entry allowed the evacuated people to return to their homes a total time of about 10 hours.

The operations of the RACES group went off without a hitch. The training of the Rochester group at Public Service events and practice drills paid off when the real thing happened.

We would like to express our appreciation to the Rochester Radio Repeater Association for the all day use of N2JC and WB2KAO repeaters and for the invaluable assistance of Ray Pickens, WA2MYG, who acted as control operator of the repeaters, a function required because all timers and phone patch had been disabled for the duration of the emergency.

The operators who participated in the exercise were – NF2Z, WB2EKP, N2EH, WB2EFU, KA2J, N2GLH, KB2BU, WA2UGE, W2DBU, N2DPF, WB2HBV, WA2MYG and N2DZS. Thanks and “Well Done”.

We also wish to thank the many operators who called in and offered their services if needed.

Final note, Thanks to Ed Holdsworth, the Monroe County Radio Officer for RACES and Emergency Coordinator for ARES, whose dedication to training and practice drills paid off with a smooth operation.

SEPTEMBER 1987 CALENDAR

- 5- 6 - “National Championship” contest,
CW & Phone (see July’s 73)
- 7 - LABOR DAY!!!
- 7 - Full Moon at 1813 Z
- 9 - W1AW Qualifying Run - 10-35 WPM -
0200 Z
- 10 - Rochester Area Packet Group meeting
7:30 p.m. - Monroe County Social
Services Building - 111 Westfall Road
- 11 - RaRa Meeting - 8:00 p.m.
- 11 - Rochester VHF Group meeting
7:30 p.m. - (*tentative date*) - Monroe
County Social Services Building -
111 Westfall Road
- 12 - HAM-O-RAMA, Niagara Falls
Convention Center, Niagara Falls, NY
- 12-13 - European DX Contest - phone
(see August’s *QST*)
- 12-14 - ARRL VHF QSO Party
- 13 - North American Sprint - CW - 0000 Z
- 15 - RDXA Meeting - 8:00 p.m. -
(*site to be determined*)
- 19 - CAN-AM Contest - Phone - 0000 Z
- 20 - W1AW Qualifying Run - 0200 Z
- 20 - North American Sprint - CW - 0000 Z
- 23 - Kodak Park Amateur Radio Club meet-
ing - 12 Noon - Bldg. 28 - 4th Floor
- 23 - Fall Equinox - 1400 Z
- 24 - ROSH HASHANAH
- 25 - RRRRA Meeting - Pittsford Library
(basement meeting room) - 8:00 p.m.
- 26 - ELMIRA HAMFEST - Chemung
County Fairgrounds - Horseheads, NY
- 26-27 - CQ WW RTTY DX Contest
- 26-27 - World Radio Championships - Phone &
CW - (*see Radiosporting magazine*)

AMATEUR RADIO GETS BIGGER AND BIGGER . . .

As of July 1st, the latest callsigns the FCC has issued in the Second District, which includes New York, are as follows:

Extra – NX2S

Advanced – KE2AZ

Technician/General – N2HIX

Novice – KB2EBW

Makes you wonder how up-to-date is that Callbook you bought last January, doesn’t it?

FROM THE CO-EDITORS . . .

Welcome to RaRa's monthly newsletter, the *RAG*. This is a "special edition" of the *RAG*. No, no ... we don't have any more of those special features on Ollie North, nor anything of Sean Penn punching out photographers. Not even anything on the tenth anniversary of Elvis Presley's death. This issue is being sent to all the amateur radio operators in the 144 - 145 - 146 Zip Codes - about 2500 hams through central and western New York - to give you a bit of a look at the Rochester Amateur Radio Association.

From Ed Gable, K2MP, with his column of "The RaRa Rag 20 Years Ago" to what will be happening during next month's RaRa meeting, the *RAG* gives the amateur information on the local amateur radio scene.

We hope you'll be able to join us each month, if not at each month's meetings and activities, then at least through the *RAG*. We've even provided a membership application with this issue in hopes you'll join what we think is the nation's biggest and best amateur radio association.

73's and see you next month!!!

- Jack, KA2PJJ
- Neal, WB2EKP

THE FCC HAS DECERTIFIED FOUR MORE VECs

"The decertified organizations are Adirondack ARC VEC (New York), AE4N/Mark4 VEC (North Carolina), Dunedin VEC (Florida) and Director of MARS VEC (Puerto Rico). "According to FCC these VECs were decertified due to inactivity or failure to provide the FCC with the required annual Cost of Recoupment Certification. "This now leaves 21 different VEC organizations of which four - ARRL, W5YI, Central Alabama and DeVry - conduct 85% of the testing".

Tnx ARRL Letter

HEATH/ZENITH

Zenith - Apple - Heathkit - Epson
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AMATEUR RADIO ACCESSORIES

Heathkit - Cushcraft - ARRL
Ameco - Van Gordon

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Rochester, NY

SPECIAL CALLSIGNS

PRB-3 from the Federal Communications Commission outlines how the FCC hopes to "farm-out" the issuance of special amateur radio call-signs for special event stations and other reasons (e.g., wanting to get back your very first call or the call-sign of a deceased relative to keep it in use).

The ARRL has already made comments to this proposal to the FCC, but now comes word that Forest International Telecommunications of Eugene, Oregon wants to enter the re-allocation of call-signs involved under PRB-3. Forest is already involved with amateur radio communications, and in its' comments to the FCC Forest indicated its' background with electronic databases may make it possible for them to co-ordinate PRB-3 call-signs at a "reasonable cost" to the amateur radio community.

The FCC has yet to decide if PRB-3 will be implemented nor who would co-ordinate it if it goes into effect.

Co-editor's comment ... My vote is with the ARRL. They have an impressive computer system on-line in Newington, and special call-signs shouldn't have to be "paid for" when "reasonable cost" could prove to become someone's "reasonable profit". -- Jack, KA2PJJ

ADVERTISING REMINDER

Any current member of RaRa can advertise any extra equipment in the *RAG*. Just send a note to either co-editor (their addresses are on page 2) or button-hole them at any RaRa meeting.

Any RaRa member who owns or operates his/her own business is encouraged to advertise their goods and/or services in the *RAG*. The *RAG* reaches better than 875 members a month. This special issue of the *RAG*, which is mailed to all amateur radio operators who live in the 144 - 145 - 146 Zip Codes, reaches some 2500 hams!

Rates are quite reasonable, so just contact Dick Goslee, K2VCZ.

FOR SALE - Dentron MLA-2500 Linear Amplifier, 160 through 10 meters. Good condition. Asking \$450. Irv Goodman, AF2K, 671-4430.

FOR SALE - Heathkit HW-101 w/matching speaker/power supply, cw filters, turner hand mic, and all manuals. Good condition, \$250.00 or best offer. Call Scott, KA2VZH, 442-9791.

AMATEUR RADIO EXAMS

Amateur radio examinations for the 1987-1988 season are scheduled to be held on the third Saturday of each month from 19 September 1987 thru 16 April 1988. Examinations are also planned for the Saturday of the Rochester Hamfest on 21 May 1988. The Hamfest testing activities will be detailed at a later time.

The regular season dates are:

Saturday, 19 September 1987
Saturday, 17 October 1987
Saturday 21 November 1987
Saturday, 19 December 1987
Saturday, 16 January 1988
Saturday, 20 February 1988
Saturday, 19 March 1988
Saturday, 16 April 1988

The schedule for each of the above dates is:

8:30 a.m. – Fee collection and walk-in
registration begin
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 (Route 15) and Interstate 390), Rochester, New York.

Preregistration, postmarked 10 days before examination day is requested to allow the VE-Team time to prepare for the test session. Walk-ins will be permitted if the candidate arrives before the exam begins with enough time allowed to fill in the 610 Form, and if space and testing materials are available.

Preregistration must include a completed 610 Form and a "COPY" (not original) of your Amateur radio license (*DO NOT SEND FEES*). Requests for 610 forms must be accompanied by a stamped, self-addressed envelope.

Send all correspondence to:

RaRa VE-Team
P.O. Box 15381
Rochester, New York 14615

The examination fee is \$4.35 (subject to change), which must be paid on the day of examination by money order or check payable to W5YI/VEC, or by cash.

We strongly advise novice to take their novice examinations independently from two qualified amateurs rather than at the VE sessions. The advantages are avoidance of the examination fee and the extra time required when submitting paperwork through the VEC, rather than directly to the FCC.

All examinations are RaRa sponsored, coordinated by W5YI/VEC and taken under the direction of John Schooley, K2NC, VE-Team Director and Dick Critchell, KY2Y, Assistant Director.

We expect that this 1987-1988 program will provide adequate opportunity for all Rochester area amateurs to upgrade.

Study hard – we wish you success.

73'

Richard A. Critchell, KY2Y

KODAK PARK CLUB

The new president of the Kodak Park Amateur Radio Club, Jim Briggs, WB2HDM, tells the RAG that the KPARC bunch has been quite busy over the summer improving their club station, WB2WXQ. Jim says that they have installed a 440-to-2 Meters duplex repeater, and soon will be installing a better antenna system on top of Building 28 at Kodak Park.

The first meeting of KPARC will be Wednesday, September 23rd at 12-Noon in their meeting room on the 4th floor of Building 28 at Kodak Park. The meeting will show off the station improvements to those who can attend.

ARRL AWARDS AVAILABLE THROUGH RaRa

As another of the various services from RaRa, an ARRL Special Service Club, now you can have Worked All States (WAS) and VHF/UHF Century Club awards (VUCC) administered locally. No longer is it necessary to send your precious QSL cards through the mails to ARRL HQ. Ed Gable, K2MP, has been appointed local area Awards Manager. Contact him at (716) 621-6692 for forms and other arrangements. ARRL DXCC awards cannot be handled in the field at this time.

ASSEMBLERS WANTED: We need a few capable people to assemble kits at home in their spare time. Would also be ideal in-home, part-time job for wife of experienced ham willing to train and supervise. Must be able to do professional quality work and build from kit manuals and schematics. Requires following exacting details and ability to accurately check finished product.
HAMTRONICS, INC., Hilton, NY - 392-9430

LICENSING COURSE

by Ed Gable, K2MP, RaRa License Course Director

The Fall Licensing Courses will begin Monday evening, September 21, 1987. Classes will be held every Monday thereafter, from 7:30 to 9:30 p.m., at the Monroe County Office Building, 111 Westfall Road.

After doing such an excellent job last year, Bob O'Connell, NF2Z, will be leading the Novice instruction team while Ed Gable, K2MP, and Bud Young, WA2UGE, pair up for the General/Technician Theory and Code. Watch the *Rag* for future announcements on possible Advanced and Extra theory classes. Novice exams will be administered by RaRa. Technician and higher examinations will be handled by the regularly scheduled VE Team examinations. These are approximately 30 days apart. Again, watch the *RaRa Rag* for announcements.

Course fees are the same as last year, \$15.00 for Novice and \$20.00 for General/Technician. Deduct membership dues if already a member. This is the only announcement. Word of mouth advertising has always resulted in over-full classes. Pass the word, but do give advance notice of intent to join. Please write to me at 737 Latta Road, Rochester 14612, or call at 621-6692.

A side benefit of the Classes is that the RaRa Club Station, K2JD, is always open during classes. For those many members who have never seen or operated K2JD, this is an excellent opportunity to drop down.

ESTATE SALE— ICOM, 2M-FM, IC215 and 2OL and PS - \$150; Mosley, TH33A, 10/15/20, Beam, 600w - \$100; Lumitime Clock, 24 hr 2" #s w/ alarm - \$20; M.I.C. 2M FM 25-100 watt PA (new) - \$125; TenTec 160M converter M-240 - \$15; Gonset 2M AM Transceiver - \$25; KLM 2M multi mofe PA 10-80w - \$125; Heathkit HM102 uswr meter - \$25; Heathkit HM15 uswr meter - \$20; Johnson (2) CB Portables 5W, 5ch (2) pair - \$25; ICOM O4AT new + accessories \$475; Regency AM/FM station Receiver - \$20; Regency VHF 140-170 Receiver - \$20; HB 80/40 Wire Dipole + 150' coax - \$25; HB 20/10 Wire Dipole + 50' coax - \$20; HB 80/40 Wire Dipole + 50' coax - \$20; Big Wheels 2M antenna (3) ea - \$5; DB 6M 3el + Mast (30') + Hardware - \$15. WA2ZNC, (716) 248-2511.

DID YOU WORK THE GOODYEAR BLIMP?

Among the more interesting sites during this year's Field Day was the Goodyear blimp *Enterprise*. According to a news release, Chuck Bachus, WA4KVI, operated using his call sign on the *Enterprise* during Field Day on Saturday, June 27. The operation took place at the Goodyear blimp base in Pompano Beach, Florida, and a special QSL will be sent to stations worked.

Tnx ARRL Letter

LOCAL HAM CHASES YL'S

by Ed Gable, K2MP

No, this isn't a typical story which would follow a Headline like that in the paper tabloids, but the story of an Octogenarian living in nearby Spencerport, New York. This person does his YL chasing during the annual ARRL YL/OM contest. He won his first event for CW only, 2nd Call District, back in 1964. Since then he has repeated this task some twenty times with his most recent first place this year. Who is this romantic of the air waves? None other than our own long time RaRa member C. Friend Stafford, W2AAU.

FOR SALE— Hygain thunderbird TH3-MK3 3 element triband beam. 10, 15, 20 meters with BN-36 matching balun. Cushcraft A147-11 11 element 2 m beam. Hustler MO-2 foldover mobile mast and RM-40-S 40 meter 2KW loading coil. Kenwood TR2500 2 m synthesized, digital readout, 2.5 w, 10 memory, scan up-down, mobile snap in base, speaker mike, extra battery. WA2RBO, 621-7583.

MICHAEL G. RICE

(KB2SG)

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HAM RADIO HISTORY

- 4 Billion B.C.: Earth is a swirling ball of flaming gasses. Propagation is extremely poor.
- 1 Billion B.C.: First day land appears. It is divided up into squares. First DXpedition. Credit disallowed because of questionable licensing arrangement.
- 400 Million B.C.: Flowering plants and grasses evolve. Telerec invents first beam antenna but sales are slow because of lack of suitable structures.
- 300 Million B.C.: First tree appears. It is immediately cut down, stripped of branches, placed in a concrete base and named a telephone pole. Telerec sells first beam.
- 200 Million B.C.: Second beam sold by Telerec. Installer falls from top of pole. First safety belt sold.
- 100 Million B.C.: First mountain appears. Repeaters invented.
- 50 Million B.C.: It is decided by WARC that "seek you" is too cumbersome on CW. So abbreviation "CQ" is adopted.
- 4 Million B.C.: Humans replace swine as dominant species. The name "Ham Operator" hangs on, however.
- 3 Million B.C.: Dugout canoe invented. Maritime Mobile net formed on 14.313 MHz.
- 2 Million B.C. to 800 A.D.: Nothing much happens for a long time.
- 900 A.D.: Chinese invent gunpower. WY1AA is first "Big Gun" DXer.
- 1790 A.D.: Ben Franklin invents long wire receiving antenna. Ground switch invented.
- 1961 A.D.: Second repeater erected. First repeater group refuses to change frequency. First frequency coordinator appointed.

Tnx K0CNV via Charro and Metroplex

FOR SALE - 2 Meter FM XCVR, Yaesu FT-227R Memorizer, Excellent condition - \$100. 2 Meter FM XCVR, Kenwood TR-7500, Good working condition - \$50. 2 Meter Repeater, built at RF Communications using all solid state assemblies. 50 watts out of six cavity Decibel Products duplexer. All supplies, logic, timers, IDer, included in five foot enclosed cabinet. This professional repeater, with all documentation, is offered at less than cost of duplexer - \$500. Call Bill at (716) 377-0856.

FCC DENIES EMP PETITION

In July, two individuals submitted a petition to the FCC requesting a Notice of Inquiry on the subject of Electromagnetic Pulse (EMP) and possible countermeasures. This included a possible FCC requirement that some civilian communications be shielded and bypassed against EMP. On December 5, the FCC denied the petition. The FCC said that comments it had received on the petition pointed out that the President had established the National Security Telecommunications Advisory Committee (NSTAC) in 1982. NSTAC has established an EMP task force to examine the EMP threat. At the urging of the task force, the American National Standards Institute is developing standards for implementing the EMP task force recommendations.

In denying the petition, the Commission stated "Although the issues raised by Petitioners are topical and important, they do not warrant examination by the Commission at this time. A comprehensive study of these issues is in progress and should be permitted to proceed unimpeded... based on the number of comments received, the EMP issue does not appear to require an immediate public forum."

Tnx ARRL Letter

FOR SALE - Drake Twins ... R-4C, T-4XC, MS-4 speaker, power supply, connecting cables. All mint, with manuals. \$330. Irv Goodman, AF2K, 671-4430.

FOR SALE - ICOM IC Micro 2AT with BP 24 battery - \$175.00. Kenwood Th-41 AT with PB 21H battery with SMC-30 spk/mic - \$175.00. Hustler GP7 7DB 2 MTR. Base Ant. - \$85.00. Warren, N2AUV, 467-2360.



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ARRL MEMBERSHIP APPLICATION (FOR RaRa MEMBERS)



Name _____ Call _____
Street _____
City _____ State _____ Zip _____

\$23 (includes \$2 rebate on RaRa Dues)
Licensed amateurs, age 17 or under or age 65 or over, upon submitting proof of age, may request the special dues rate of \$18.

For postal purposes, fifty percent of dues is allocated to QST, the balance for membership.

Mail to: **ROCHESTER AMATEUR RADIO ASSOCIATION, INC.**
P.O. Box 1388, Rochester, New York 14603-1388

FOR SALE - Heathkit HW-101 w/cw filter, HP-23B power supply, GH-12A mic, HD-15 phone patch. Very good condition. \$225 or best offer. Call Bill, WB2OEV - 716-288-3241.



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FLOWER CITY HOMEBREW NET

With the arrival of Novice Enhancement, a new weekly net has started to help the Novice and Technician operator to keep on track trying to improve their amateur radio knowledge and skills.

The net meets every Thursday night at 8:00 p.m. at 28.455 MHz - U.S.B. The net continues to aid the ham in amateur radio theory as well as Morse Code practice (and who couldn't use more practice?). Hams should listen for N2HFP as the control station for the Flower City Homebrew Net.

LRRR PACKET LOST & FOUND DEPARTMENT GROWING

As the popularity of packet radio grows, more and more operators are experiencing lost packets during QSO's. To help alleviate the problem, the League of Radio Relaying Americans (LRRR) early this year established a Packet Lost and Found Department at LRRR Headquarters. Lost packets are held by LRRR for 12 months before being offered for sale at public auction. Since establishment of this service, 2,341 lost packets have been returned. Another 1,967 packets are waiting to be claimed by their owners. All hams who have lost packets in the past six months should contact LRRR immediately.

Tnx GEARVAKf

NEW RUSSIAN SATELLITE

W4HHK reports reception of an apparent new Russian satellite on 2304.0 MHz. Acquisition time is 1148 UTC at an azimuth of 37 degrees. Loss of signal occurs five hours later at 90 degree azimuth and 15 degrees elevation. Total positive doppler shift is 21 kHz. Its signal to noise ration is better than 23 DB on an 18 foot dish. Its format is the same as 1984 and 1985 cosmos satellites. For more information contact Paul Wilson, W4HHK, P.O. Box 73, Collierville, TN 38017, Tele: (901) 853-7373.

WANTED: Older tube type Ham and Communications receivers; National, Hallicrafters, RME, and oddities. Also literature and advertising items. Please call Ed Gable, K2MP, (716) 621-6692.