



the RARA RAG

Published by
ROCHESTER AMATEUR RADIO ASSOCIATION, INC.

VOL. 50

May 1998

NO. 9

May 1st Program – Old Timers' Night

By Rick Wells, W2RW

At each annual May meeting we feature an *Old Timers' Night*, and we certainly have enough old timers to go around! The club historian traditionally presents this program. Earlier this year we were sad to lose our Historian, Bruce Kelley, W2ICE, now a silent key. We are however, delighted to introduce Ed Gable, K2MP, who in addition to being the new club historian, is now the curator of the Antique Wireless Museum in East Bloomfield, New York.

Ed has prepared an interesting presentation for the May meeting. Topics will include early amateur licensing requirements, call signs and other interesting facts. Also, he has promised to bring in some old QSLs for us to look at. Additionally, we'll hear about some early RARA history. How many of you know how long RARA has been serving the Rochester area amateur community?

In addition, Ed may be looking for the **oldest** old timer around. So, all you old, old, old timers, come on out! You'll have to stand up and be counted at the May meeting. And have pity on us youngsters and leave your Wouff Hongs and rettsynitches at home.

RAG EDITOR RETIRES

By Neal Eckhardt

After 12 years of faithful service, it is time to pass the reigns on to somebody else. Those of you that know me, know that I have been commuting to Syracuse daily for the past 2 years. It is now time to move to Syracuse, and we plan on moving around the end of May. I enjoyed working with everybody in the club, and I look forward to seeing you all again at the hamfest. Anyone wishing to contact me can E-mail me at eckhardt@usa.net.

RaRa MEETING

May 1, 1998

8:00 P.M.

Henrietta Fire Hall

3129 East Henrietta Road

ANNUAL MEETING

Old Timers Night

NEW RAG EDITOR ANNOUNCED

With the moving on of our last editor, the duties of Rag editor have been taken on by George Platteter, AA2FO. George is looking forward to maintain the high quality you, the members, have come to expect. He will also continue in his position of License Testing Director as well as Rag editor. Don't forget to congratulate him at the next RaRa function.

Amateur Radio to be at St. John Fisher Science Fair

By Jack Tripp, N2SNL

Amateur radio will be represented at the annual Science Fair at St. John Fisher College, May 13th and 14th. Plans are being made to have a representatives from the various clubs in the area to demonstrate the different aspects of ham radio such as HF, VHF, Packet, etc. Groups that participate are to name a few: RG&E, Harris, MCC, U of R. There are some special interests clubs as well, about 30 or 40 different organizations. The Fair attracts 4,000 to 5,000 students from area high schools over the two day period. The hours are 9:00 A.M to 2:00 P.M. on both days and 7:00 to 9:00 P.M. on Wednesday. Bob Hunter, NG2P, is coordinating the event.

the RARA RAG

PUBLISHED BY

ROCHESTER AMATEUR RADIO ASSOCIATION, INC.

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

RaRa Hotline 442-0587

Website: www.ggw.org/rara/

Editor.....Neal Eckhardt, WB2EKP

80 Authors Avenue, Henrietta, NY 14467 (716) 359-2672

Internet: eckhardt@frontiernet.net

Managing Editor.....Dick Goslee, K2VCZ

24 Elaine Drive, Rochester, NY 14623 (716) 334-1762

Internet: goslee@frontiernet.net

Advertising Editor.....Dick Goslee, K2VCZ

24 Elaine Drive, Rochester, NY 14623 (716) 334-1762

Internet: goslee@frontiernet.net

VOL. 50 May 1998 NO. 9

OFFICERS.

President: George Lloyd, N2UIO.....637-9499

Internet: n2uio@frontiernet.net

Vice-President: Rick Wells, W2RW..... 621-7583

Internet: wells@mail.dec.com

Secretary: Robert Gordon, KB2ZGN..... 218-0265

Internet: KB2ZGN@frontiernet.net

Treasurer: Richard Goslee, K2VCZ.....334-1762

Internet: goslee@frontiernet.net

BOARD OF DIRECTORS:

Lloyd Caves, WB2EFU.....671-7079

Internet: wb2efu@aol.com

Neal Eckhardt, WB2EKP.....359-2672

Internet: eckhardt@frontiernet.net

Peter G. Fournia, W2SKY.....377-0535

Internet: glide@frontiernet.net

Edwin Holdsworth, N2EH.....624-1929

Internet: n2eh@frontiernet.net

Robert A. Moore, N2USB.....663-5802

Internet: 75767,3151@compuserve.com

Keith Freeberg, N2BEL.....458-8246

Internet: kff@usa.net

Jack Tripp, N2SNL.....381-7757

Internet: jat@frontiernet.net

Club Historian: Ed Gable, K2MP

Public Service Coordinator: Edwin Holdsworth, N2EH

License Testing Director: George Platteter, AA2FO

Membership Chairman: Alex Piccirilli, NV2Y

Hamfest General Chairman: Harold Smith, K2HC

K2JD Engraving: Edwin Holdsworth, N2EH

Public Relations: Keith Freeberg, N2BEL

The RaRa RAG (USPS 605-440) is published monthly except July and August by the Rochester Amateur Radio Association, Inc., 24 Elaine Drive, Rochester, New York 14623. Subscription is \$5.00 per year (included in the \$10.00 annual membership dues). Periodicals postage paid in Rochester, NY.

POSTMASTER - Send address changes to The RaRa Rag, P.O. Box 93333, Rochester, New York 14692-8333. Full permission is granted for reprinting articles provided a credit line is given to the RaRa Rag. The Rag exchanges, with other organizations publications.

1998 Hamfest Programs-Part V

Lloyd R. Caves, WB2EFU

Ladies, gentlemen, and amateurs of all ages: it is Hamfest time!!! The end of the month of May will bring with it the 1998 Rochester Hamfest and Atlantic Division Conference. May 29, 30, and 31 to be exact. I hope that everyone is planning on attending. It would be great to see at least 90% of RaRa club members in attendance this year. Maybe you should even think about attending the awards banquet on Friday evening. One thing for sure is that some of you will want to attend the programs that will be presented at this years event. For the last four months this column has brought you a brief description of each of the programs. Below you will find the location and times of each of the programs so you will be able to schedule your days accordingly:

Friday

Second Floor-Room A

1:00-4:00 - Skywarn Training

Hosted by Judy Levan, N2TEZ of the National Weather Service

Friday

Second Floor-Room B

2:30-5:00 - ATLANTIC DIVISION AFFILIATED CLUB CONFERENCE

Hosted by Bernie Fuller, N3EFN, Atlantic Division Vice Director

Saturday

Second Floor-Room A

9:00-10:00 - Is Ham Radio for Everyone?

by Harry Dannals, W2HD, President Emeritus, ARRL and Past President, QCWA

10:30-11:30 - The Newslite Story

by Bill Pasternak, WA6ITF

12:00-1:00 - ARRL Forum

Kay Craigie, WT3P, Atlantic Division Director
Bernie Fuller, N3EFN, Atlantic Division Vice Director, Stephen Mendelsohn, W2ML, Vice President, Hugh Turnbull, W3ABC, Vice President

1:30-3:30 - VHF Jr. Academy

Hosted by Evhen Tupis, K2IV, Rochester VHF Group Chairman

4:00-5:00 - TV News and You

by Bill Pasternak, WA6ITF

Saturday

Second Floor-Room B

9:00-10:00 - The New Ham

by Dan Miller, K3UFG, Educational Activities Correspondent, ARRL

10:30-11:30 - ARRL Field Organization and NTS

Hosted by Bill Thompson, W2MTA, Western New York Section Manager and NTS Eastern Area Staff Chairman

1:30-2:30 - Advanced APRS

by Keith Sproul, WU2Z

3:00-4:00 - Application of RF Safety Standards

by Jim McHerron, K2ZI

Saturday

Dome Floor-Room 3

8:30-9:30 - Beginners APRS

by Keith Sproul, WU2Z

10:00-11:30 - Joint Mars Forum

Colin Corke, AFF1NY, (WB2RNS) Air Force MARS State Director, Ken Wasley, NNN0GBJ-15, (K2UTT) Navy-Marine Corps MARS Elizabeth (Betty) Strattan, AAA2NY, (W2PVS) Army MARS State Director

11:30-12:00 Navy-Marine Corps Mars

Ed Kessler, NNN0GBJ, (W2EQW) Northern New York Area Coordinator

1:30-2:30 - Setting Up a New Ham Station

by Dan Miller, K3UFG, Educational Activities Correspondent, ARRL

Saturday

Dome Floor-Exhibitors Booth

All Day - W2"RUF and Ready" Code Proficiency Tests

Given by Kevin T. Kedzierski, WA2FKV, Special Events Coordinator for the Radio Association of WNY

May Calendar

1 - RaRa Meeting - 8:00PM - Henrietta Fire Hall, 3129 East Henrietta Road
19 - RDXA Testing & Meeting - 111 Westfall Road.
30 - RaRa Testing - Hamfest, 1:00PM

As you can see by the room numbers some locations have changed this year. There will be two conference rooms being utilized on the second floor and only one on the Dome floor. This is just the opposite of other years. To find the one on the Dome floor enter the main exhibit area and you will find the room being used between the bleachers on the East side of the Dome (this is the side that the main entrance is on). The rooms on the second floor will be found by going up the stairs by the main entrance. At the top of the stairs you will find room A on your right (East side over looking the flea market) and room B on your left.

The Hamfest General Chairman, Harold Smith, K2HC, his assistants and all the people working for them have put in a lot of time and effort to put together another great show for you this year. We are all looking forward to seeing you there having a good time.

RaRa WINS COVETED VHF GROUP ROCHESTER CUP

At the 10th Annual Rochester VHF Group Awards Banquet, held Sat. evening, April 18th, the Rochester Amateur Radio Association was awarded this year's prestigious Rochester Cup.

The criteria for the January contest local club Rochester Cup competition is based on the total numbers of VHF Group club members worked by an individual station and then submitting the log on behalf of a specific club.

M. ORNSTEIN
WB2YYB
CONTRACTING
(716) 334-3258



Residential & Commercial	Free Estimates
Attic Ventilation	Seamless Gutters

Robert Hobday N2EVG
780 Cheese Factory Road
Honeoye Falls, New York 14472

April 2, 1998

Rick Wells W2RW
President
Rochester Amateur Radio Association

Dear Rick:

On behalf of the Nominating Committee consisting of Ed Gable K2MP, John Woika W8JW, and myself, we nominate the following slate for 1998-1999 officers and members of the Board of Directors:

Vice President Robert Moore N2USB
Secretary Scott Blystone K9EEE
Treasurer Dick Goslee K2VCZ
Board of Directors:

Lloyd Caves WB2EFU
Ed Holdsworth N2EH
Keith Freeberg N2BEL
Tim Magee WB2KAO
Jack Tripp N2SNL
Joe Walker III KA8WJH
John Woika W8JW

Under the rules of the Association, your nomination as President is automatic.

Therefore, having fulfilled our charges, the Nominating Committee stands down,

Sincerely and 73's,

Robert Hobday N2EVG
Chairman

KNOW YOUR CANDIDATES

As customary, each person who is nominated has an opportunity to present a personal statement in the *Rag* prior to the Annual Meeting. There will be an opportunity to present nominations from the floor prior to the actual voting for Officers and Board of Directors.

Vice-President

ROBERT MOORE, N2USB.

I have enjoyed serving you as a RARA Board of Directors member during the past year. I obtained my Tech Plus license through the RARA License Class and have been active in Amateur Radio since May 1993. Compared to many of my fellow Amateur Radio Operators, this makes me new to

the hobby. Though I may be fairly new to Amateur Radio, I was associated with radio communications as a Licensed FCC First Class (now General class) Radiotelephone Operator from the late sixties to the late seventies. I am currently a Senior Engineer with Delphi Automotive Systems (General Motors). My wife Rachel and I have two sons, Rob and Patrick, and have lived in Greece, New York, for the past 19 years. In 1992, I retired from the Naval Reserve after 32 years, including 20 years flying experience in Lockheed P-3 Orion aircraft as Mission Commander in both Electronic Reconnaissance and Anti Submarine Warfare Missions. I have experience as a teacher at the high school and university level and received a BS and MA from East Carolina University. My hobby interests are varied; I enjoy operating DX, operating in contest, letting the "smoke" out of the resistors I put in electronics projects, computers, surfing the web, SCUBA diving, and, like most Hams, stringing wire and aluminum across the backyard and trying to make it radiate. I take pleasure from participating in public service events, especially those events that introduce and attract young people to Amateur Radio. I hope you will consider these varied life experiences as qualifications to serve you as Vice President.

Secretary

SCOTT BLYSTONE, K9EEE

I have been nominated for the office of RARA secretary. I've been a ham for about 35 years, currently hold an Extra class license, and am active as both an ARRL and W5YI Volunteer Examiner. In the past I have served as President of the La Porte, Indiana Amateur Radio Club (K9JSI). I am very active on HF CW both as a DX-er and avid ragchewer. In addition, I enjoy building and using my own QRP CW equipment.

If elected to the office of secretary I promise to proactively, faithfully and accurately perform the duties of that office. In addition, I will work hard for the betterment of RARA in every way possible.

WALKER TOWER

**Amateur Radio Towers
Antennas & Lines
Installation
Maintenance and Service**

**Andy Walker
KA2RBW
(716) 243-1841**

Treasurer

DICK GOSLEE, K2VCZ

First licensed in 1956 as KN2VCZ, Dick holds an Advanced class license. He has been a member of RARA for 17 years and has served on the Board of Directors for the last 14 years. He is a past President and has been serving as RARA Treasurer for the past 11 years. He taught theory for the Novice/Tech class for RARA for 5 years and has also taught the Advanced class. Dick is a member of the RARA "VE" team which gives license exams to prospective new Hams. He serves as the Managing Editor/Advertising Manager for the RARA Rag, the Editor of the annual RARA Directory, and is a member of the K2JD Engraving Team.

Dick is employed as the Director of Engineering for Quality Protections Systems, and combining his love of auto racing with employment he is also employed as an IHRA Certified Technical Inspector and Chief Starter at NY International Raceway Park in Leicester, NY, and also at Norwalk Raceway Park in Norwalk, Ohio. When he can find some free time he enjoys fishing and camping with his wife Susan (N2HKA) and his daughters Karen (KB2CHE) and Cathie (KB2ESZ).

Board of Directors

LLOYD R. CAVES, WB2EFU

Lloyd has lived in the Rochester area all of his life. He and his wife Ruth currently live in the house in Webster that they bought thirty-two years ago. There they have raised their three children; one son and two daughters. They now have three grandchildren, all boys, with a fourth grandchild due in May. Lloyd has been employed by General Motors for almost thirty-six years, serving in many management positions, and is presently a Senior Purchasing Administrator.

In 1975 Lloyd joined the RaRa licensing classes and received his first ticket in February of 1976. He currently holds an advanced class ticket. During these past twenty-two years as a RaRa member he has spent fifteen of them serving on the Board of Directors, including the office of Vice President and President. He was also the RaRa membership chairman for six years. For the past four years he has been serving as Program Chairman on the Rochester Hamfest Committee. He also served as the hamfests Awards Chairman for two years. Lloyd is currently an ARES Assistant Emergency Coordinator. His main interest in ham radio is rag chewing, working DX, RACES/ARES, and working on many of the public service events that RaRa is involved with. As well as being an active life member of RaRa he is a member of the ARRL.

ED HOLDSWORTH, N2EH

Ed lives in Mendon with his wife, Joyce. He enjoys spending time with their sons, Jim, Steve, Cary and Gerry here in this area and with Keith who lives in Western Colorado. Steve is married to Debbie and have two children, Danny and Nicki. Cary is married to Linda and they have three sons, Billie, Joey and Mathew. Keith is married to Maggie and they have three children, Courtney, Meghan and Derek. Ed was first licensed in 1968 with the call WN2EKR. upgraded to advanced with the call WA2EKR and then to Extra with the call N2EH. He has served as Secretary, Vice-President and President and has been on the board of directors for 28 years. He is presently the trustee of K2JD, Emergency Coordinator and Radio Officer for Monroe County. He also is Affiliated Club Coordinator for the Western New York Section and Assistant Section Manager. Ed is also the Assistant General Chairman of the Rochester Hamfest. Ed is a Life Member of ARRL, Amsat and and RaRa and a member of QCWA.

TIMOTHY J. MAGEE, WB2KAO-

I was born 3/29/51 in Rochester, NY. At age 12, in 1963, my father found out about code and theory classes being offered at the Rochester museum. Classes were just about complete but Doc Thompson, WA2EIP, offered to tutor me privately. The CW came very easy to me and thus I thoroughly enjoyed it. In June '63 I earned a Novice license and in March '64 I passed my General. I have dabbled in many aspects of amateur radio over the years specifically CW rag chewing and VHF/UHF repeater operations. The mid 70s found me involved as both program chairman and chairman of RRRRA and mid 60s found me involved in being secretary of the Auburn ARA. In September of 1988 I was able to install an antenna on the WRMM FM broadcast tower. With the help of Rick Wells, W2RW, and other technical support, we have had a repeater operational at that site for the past 10 years. 1994 was my year of upgrade earning my advanced in May and Extra in October of that year. I am presently teaching the Novice CW class this semester. This is my third time teaching this and I am looking forward to teaching the class in the future. I am looking forward to my participation with the RARA board of directors and feel that I will be able to give some constructive input to the organization.

JACK TRIPP, N2SNL

I am retired and have been a ham for 5 'Liz years. This gives me lots of time to play radio and computer. During this time I have been active on

VHF I O meters (when open), packet. I am currently on the RaRa Board of Directors completing my second term of office I have been a Holdsworth Coolie for several years helping set up for the Hamfest and this year I am in charge of advanced tickets sales. I was Chairman of RAPS (Rochester Amateur Packet Society) for two years and am currently editor of the RAPSheet. I hope you will re-elect me to your Board of Directors.

JOSEPH WALKER, KA8WJH

As you can see from my callsign, I'm not a native Rochestarian. My family and I moved to Rochester from Ohio in 1990. I'm an Electrical Engineer and sell complex electrical systems to industrial users in western New York. I became interested in Amateur Radio when a friend invited me to his shack to make a few contacts. I was hooked! I received my license in 1984 and currently hold an advanced class license. One of the many facets that attracted me to the hobby is public service. Supporting many public service events from tornado disasters to Christmas basket deliveries, has been very rewarding. During many of the events, I included my children with the hope they would also take an interest in serving the public and Amateur radio. It worked, my wife and sons are Hams and participate in many of the public service events supported by RARA.

It would be my pleasure and honor to serve on the board of RARA.

Past Presidents On The Move

by K2VCZ, Directory Editor

Two former Presidents of RARA, who both left Rochester a number of years ago for the Cleveland Ohio area to work for the same company, Antenna Specialists, are on the move again. Dave Bernheisel, N2DPF is now working as the Product Marketing Manager for Decibel Products in Dallas Texas. He can be reached at "dbernheisel@decibelproducts.com". Ron Jakubowski, K2RJ moved a little closer to Rochester. He is working as the Systems Engineering Manager for TX RX Systems in the Buffalo NY area. He can be reached at "ronj@txrx.com". It was good to hear from both of them. We wish them the best of luck in their new jobs.

FOR SALE: Archer VHF/UHF Discone Antenna, 25 MHz to 1300 MHz (1.3 GHz), like new. Cost \$60. Asking \$39. Irv Goodman, AF2K, 716 671-4430

SOME MAJOR CHANGES FOR FIELD DAY!

Some new rules go into effect this year for Field Day. The popular summertime operating event takes place each year on the fourth full weekend in June. This year, it will be June 27-28.

A major change this year is the elimination of bonus-point credit for packet and VHF/UHF contacts. Field Day stations no longer will be allowed to count contacts via digipeaters, packet nodes, or similar arrangements. Class 2A and higher Field Day stations still may operate a "free" transmitter exclusively for VHF or UHF operation (ie, above 50 MHz) without changing their basic entry classification, but not for bonus points. "It's better than bonus points, and groups are likely to spend more time on VHF and UHF because of that," predicted ARRL Membership Services Manager Chuck Hutchinson, K8CH. As in the past, crossband and repeater contacts other than via satellite do not count for Field Day credit.

Field Day stations now can earn point credit for digital (ie, non-CW) contacts on each band. The phone, CW, and non-CW digital segments are considered separate "bands" in the Field Day rules. This means, for example, that you now may work the same station for point credit on 40 meters three times: once on SSB, once on CW, and once on RTTY, packet, or one of the 'TOR modes. SSB contacts count one point, and CW and non-CW digital contacts count 2 points apiece, so adding non-CW digital capability presents a real opportunity to rack up substantial additional points! "We're expecting an interesting year because of the digital modes," Hutchinson said.

The complete, official Field Day rules will appear in the May edition of QST. Basic Field Day rules have remained unchanged for several years now. The new rules undoubtedly will generate a flurry of computerized contest logging program revisions as developers scramble to incorporate the changes into their software.

Tnx ARRL Letter

SOCIAL SECURITY DISABILITY

Sherwood Snyder

Attorney At Law

546-7258 • 183 E. Main St.

W2KFU Suite #1024

VANITY FEE COULD DROP DRASTICALLY

The fee to obtain an Amateur Radio vanity call sign would drop drastically under the FCC's proposed fiscal year 1998 fee schedule. If adopted, the new fee will be \$12.90 for the ten-year term, payable at the time of application for a new, renewal, or reinstated license.

The new fee is contained in an FCC Notice of Proposed Rulemaking, MD Docket 98-36, Assessment and Collection of Regulatory Fees for Fiscal Year 1998, released March 25.

The current vanity call sign fee is \$50 for the ten-year term. The FCC says it has no plans to refund the difference between the current fee and the new fee for applicants who submit applications before implementation of the FY 1998 fee schedule.

The FCC has calculated the new fee based on an expected 10,000 applicants during FY 1998. The FCC says it will announce the effective date for the new fee either in the Report and Order that terminates the fee schedule rulemaking proposal or by a public notice.

Tnx ARRL Letter

FOR SALE: ICOM, IC-751A, Digital, All filters, All Mode, 160 to 10 meters, General coverage receiver, AC supply frequency talker. \$ 700.00 firm. Down East Microwave 6 meter Transverter, 10 m. IF, 15 watts out, 20mv drive. \$ 225.00. "WA2ZNC" Len, 229-5470

RaRa Amateur Radio License Testing

**Novice - Tech - Tech Plus
General - Advanced - Extra**

or

**Whatever Elements you need
to complete a license class.**

**Saturday May 30, 1998
Registration - 1:00PM
Testing - 1:30PM**

**Hamfest
For details or inquiries
Call (716) 334-4488**

AMATEUR RADIO SPECTRUM PROTECTION BILL INTRODUCED

At the request of the ARRL, a bill has been introduced in Congress to ensure the availability of spectrum to Amateur Radio operators. The bill, HR 3572, the Amateur Radio Spectrum Protection Act of 1998, would protect existing Amateur Radio spectrum against reallocations to or sharing with other services unless the FCC provides "equivalent replacement spectrum" elsewhere. The bill was introduced March 27 by Rep Michael Bilirakis of Florida, a Republican, with the cosponsorship of Rep Ron Klink of Pennsylvania, a Democrat.

If approved, the measure would amend Section 303 of the Communications Act of 1934 to preclude reallocation of any primary Amateur Radio allocations or diminution of any secondary allocations, and would block any additional allocations within such bands that would substantially reduce their utility to Amateur Radio, unless the Commission at the same time provides "equivalent replacement spectrum" to the Amateur Service.

The bill points out that a basic purpose of Amateur Radio is to provide "voluntary, noncommercial radio service, particularly emergency communications," and that Amateur Radio has "consistently and reliably" provided emergency communication during and after disasters. The measure notes that the FCC has "taken actions which have resulted in the loss of at least 107 MHz of spectrum to radio amateurs."

HR 3572 has been referred to the House Commerce Committee. An effort is under way to enlist additional cosponsors for the measure. Amateurs are encouraged to contact their Representatives and urge them to support the bill or to sign on as cosponsors. The full text of the bill is available at <http://thomas.loc.gov/cgi-bin/query/z?c105:H.R.3572>; *tnx ARRL Letter*

Patrick C. Moyer, N2AIW
Attorney & Counselor-at-Law

General Legal Services
ARRL Volunteer Counsel Participant
AOPA Legal Plan
Masters Degree in City Planning

**Day and Evening Hours
(716) 427-9907**

2128 W. Jefferson Rd. • Pittsford, NY 14534

Advertisement

FOR SALE: Heath 5" Oscilloscope, Model IO-12, \$35.00. Kenwood Phone Patch Controller, Model #PC-1A, \$50.00. Timewave Digital Signal Processor, Model DSP-9, mint, used one summer, \$100.00. Palomar Engineers 4:1 Balun, Model #SB-4, \$25.00. Vibroplex Brass Racer-Jambic Keyer, Model #EK-1, with dust cover and travel case, seldom used, \$110.00. Bill White, K2KAD, 716 671-5588

FOR SALE::ICOM IC-725 HF All Band Transceiver, \$729 new, sell \$475. MFJ-949D 300W Deluxe Antenna Tuner w/ Cross Needles, \$130 new, sell \$75. Hustler Mobile Antenna System, Includes Foldover Mast w/ assorted hardware, RM15, RM-17, RM-20 and RM-40 Resonators. Total new \$153.55, sell \$85. Barker & Williamson AP-10 Portable 40M - 2M Antenna, Includes Window Mount Antenna w/ 80 thru 10 Meter Coils & 2 Meter Jumper, \$69.95 new, sell \$40. This equipment was purchased new in 1992, has been used very little and is in mint condition. Call Bill White, K2KAD, 671-5588

RaRa Hotline

(716) 442-0587

24 hours a day

GLENWOOD

594 HAGUE STREET
ROCHESTER, NY 14606

HOURS:

M-F 9:00 AM - 5:00 PM

PH: (716) 328-1600

FAX: (716) 328-3630

WE STOCK THE FOLLOWING:

AC CORDS
CAPACITORS
COAX CABLE
CONNECTORS
DIODES
ENCLOSURES
FANS
FUSES
FUSEHOLDERS

IC'S
LAMPS
LED'S
MOTORS
POTENTIOMETERS
RELAYS
RESISTORS
SCR'S
SHRINK TUBE

SOLDER
SWITCHES
TRANSISTORS
TRIACS
TRIMPOTS
VARIABLE CAPS
WIRE/CABLE
ZENER DIODES
LOTS MORE

TRY GLENWOOD FOR ALL YOUR COMPONENT REQUIREMENTS

FULL LINE DISTRIBUTORS FOR

NTE
PRB
GC/THORSEN
SL WABER
WAHL

Replacement Semi's
VCR Belts & Accy
Tools & Chemicals
Outlet Strips +
Soldering/Drilling
Tools & Accy

TYTON
PROTEK
MUELLER
GOLDSTAR
PALADIN

Cable Ties
Test Gear
Test Leads
Test Gear
Tools