

# The RaRa Rag

Published by

The Rochester Amateur Radio Association

INCORPORATED

VOL. 30

DECEMBER 1977

NO. 4

## WHY JOIN RaRa?

by Ed Goble, K2MP, President

This question has been asked of us many times. Thus I wonder how many times this question has been repeated to you, our members. A good and fair question it is too. So here goes.

The Rochester Amateur Radio Association, Inc., now in its 46th year, is chartered under the Incorporation laws of the State of New York as a Non-profit Educational and Scientific Association and is affiliated with the American Radio Relay League. Aside from the basic fellowship with others of similar interest, RaRa offers a wide variety of programs and activities that should fulfill anyone's needs. Let me list a few. Our monthly meetings allow you to keep up with current events through various reports, informal chats with fellow members from all areas of expertise, and programs ranging from technical to travelog. Special meetings each year are devoted to our popular ham equipment auction, a program by the Antique Wireless Association, and a joint meeting hosted by one of the Kodak Amateur Radio Clubs.

On the social scene you will find a chance to treat the XYL to an excellent evening of fun at our annual Valentine Day Dinner-Dance. On the lighter side, the whole family will enjoy the fun, food, and games at our June picnic.

Service to the membership is of prime importance in any organization and RaRa is no exception. Perhaps you think you cannot benefit by joining RaRa. I doubt it! No Amateur can say he has not benefitted by the strong and ever improving posture Amateur Radio enjoys today. Just a few years ago our ranks were decreasing in numbers. Now, a tremendous turn around is in evidence by all time high Amateur population figures. This turn around is to the good of everyone and is a direct result of organizations such as RaRa. Our code and theory classes have been turning out twenty to thirty new Amateurs per year for over a decade. Other services include the local Ham Directory, an excellent monthly publication called the RaRa Rag, and a club station, K2JD. This modern equipped station is available for use by all members.

Another important aspect of Ham Radio, in fact the very reason we exist, lies in the public service we can provide. RaRa is dedicated to providing the community with a core of well trained radio operators equipped to provide emergency communications services. Our Public Service Committee works closely with

## December 2nd RaRa Meeting

Our meeting this month will be sponsored by the Kodak Office Radio Club. We will get together in their headquarters at 343 State Street. The entrance is on State Street with parking in the lot across the street. Please use the smaller entrance door to the right of the main doors at the curved driveway. Take the elevator to the 9th floor. The meeting is in the auditorium across the hall from the elevator. You will be asked by a Security Officer to sign in at the entrance door.

The program topic will be Digital Modulation Techniques, by Mr. Dave Ferre. Mr. Ferré is with Quality Control Engineering at Harris - RF Communications, and is an author, lecturer, world traveler and a former ham. I hear that this is the way we will QSO in the future.

See you there.

D. D. (ditdit) Digit

a.k.a. WA2ZNC, and suspected co-writer of "The Dit Dit Dit Dit Song"  
Copyright 1972 by Ryerson Music

## VHF Group/Repeater Group Huddle For Contest

On December 9th at 8 p.m. there will be a joint meeting for members of the VHF Group and the R. R. R. A. at the factory of RF Communications, 1680 University Avenue. The purpose will be preparation for the January VHF Contest, and to publicize some new twists and local incentives for participants. The VHF Group has elected its Contest Chairman, Dick Place, WB2JLR, from Ontario, New York.

and has the direct support of County and City officials. On the fun side of public service work, RaRa regularly supplies communications for such activities as automobile Ralleys, Cross country Balloon races, equestrian meets, yachting Regattas, parades, and the like. Perhaps this is your thing.

If not, perhaps you would like to assist on our Hamfest Committee. RaRa members are proud that Rochester sports one of the largest Hamfests in the country. This is no small feat and is possible only by the hard work of many dedicated members.

Statistics show that one out of every three Amateurs in the greater Rochester area are members of RaRa. If you are a member pass this on to a friend. If not a member, how come? I'd really like to know.

# The RARA RAG

Published by  
INCORPORATED

The Rochester Amateur Radio Association

Managing Editor . . . Harold Smith, WA2KND  
Associate Editor . . . Dwight Hill, K2KWK  
Art Director . . . . . Russ Heuer, K2PLO  
Photographers . . . . Al Crum, W2BWK  
                                  Harvey Samuels, WA2LUE  
Staff . . . . . Helen Smith, WA2YRH  
                                  IBM Computer, 360  
Editorial office, 153 Mason Avenue, Rochester,  
N. Y. 14626. Telephone: 716-225-5260.

VOL. 30                    DECEMBER 1977                    NO. 4

## OFFICERS:

President: Edward M. Gable, K2MP  
Vice-President: Leonard M. Gessin, WA2ZNC  
Secretary: Otto Bluntzer, WB2RJB  
Treasurer: Ronald Jakubowski, K2RJ

## BOARD OF DIRECTORS:

James Collinworth, N2JC  
Robert Erskine, W2NVZ  
Edwin Holdsworth, WA2EKR  
Howard Kingsford, WA2UEB  
Alan Komenski, WB2ZFM  
Fred Shippey, WA2BQA  
Harold Smith, WA2KND

Club Historian: Bruce Kelley, W2ICE  
Licensing Course Director:

Robert Lauzon, K2RL  
Membership Chmn: Robert Erskine, W2NVZ

The RaRa Rag is published monthly except July and August by the Rochester Amateur Radio Association, P.O. Box 1388, Rochester, N. Y. 14603. Subscription price \$1.00 per year (included in \$6.00 annual membership dues). Second class postage paid at Rochester, N. Y.

**ham  
radio**

your most interesting  
amateur publications

**hr REPORT**

Greenville, NH 03048

## Intruders and Other Strangers

From time to time, listeners to the amateur radio bands, particularly to the two meter repeater stations WILL hear an obvious non-amateur on the air. The radios they are using can be obtained in many ways. Sometimes they are stolen rigs subsequently sold to an unsuspecting individual who might think the rig is on the CB band.

However the non-amateur obtains the radio is immaterial once he has it on-the-air. The fact is that he has a working radio and is interfering with normal activities.

The PROPER course of action to take EVERY TIME is very simple. IGNORE repeat IGNORE the intruder. DO NOT, repeat DO NOT acknowledge that you even heard him. Continue your activities as though this person was not on the air and did not exist. He will then begin to believe that the radio does not transmit and may go away, never to be heard from again. If you must tell someone about it, make your report to a repeater control operator or other responsible individual by telephone. If the intruder continues to operate, it will be an easy matter for a few fixed stations to pinpoint his locale.

During normal conversations with your friends the next day or later, don't discuss the fact that you heard him yesterday or whenever. As soon as he hears that information, you can be assured that he will take to the air once more.

This problem will always be with us in one form or another. There is no way to completely eliminate the problem. You can help only if you remember the cardinal rule to IGNORE the intruder. Don't talk about him, don't acknowledge him, and of course, NEVER talk to him.

This is a very tall order, but we know you can handle it. Give it a try. See how well it works!

---

FOR SALE: Heath Speaker - Telephone model GR-1112. Kit original cost \$49.95, now asking \$35.00. Contact Jerry Vogt, WA2GCF, at 621-2136.

---

WANTED: Inexpensive ten meter SSB exiter, low power. For testing only, so no need to be fancy. Contact Jerry Vogt, WA2GCF, at 621-2136.

**ALLIED TV & RADIO, INC.**

142 LYELL AVE.

454-7116

◆◆◆ Service ◆◆◆

Television - CB Radio - Marine Radio

Wally Kincaid, W2PG, Pres.

# Pump Pushers Rallied To Air Again

Among the hoopla of the usual operating contests resides a non-contest event sponsored by the A. R. R. L. Some complain it's an exercise in lower arm pain accompanied by occasional ear problems. What we are jawing about is SKN, known as Straight Key Night. Really, if you can't have fun at this one, don't bother with the others. SKN is all easy going and about as informal an operating event as can be found.

Almost all who learn code use a straight key. When time comes to upgrade the key often gets dropped for the mic. or some keyer device. Ability to use the code is the common bond of all hams from dxers to moonbouncers, and even those in the very experimental UHF and SHF regions. Also it has recently become vogue to be interested in your roots - and even return to them. Thus, twice a year the ARRL runs this neat event, (they really started it before "ROOTS" was published though).

So if your sidebands are stale and your bytes are moth-eaten from the honky tonk of everyday hamming, pull out the ol pump - take a break! This year take a trip back to where it all began - in the misery and company of others on SKN. Details will be in the December issue of QST Magazine. Whether you like it or don't like it, you won't soon forget it!

'Twas the night before New Years,  
and all through the house,  
there was a great scurry  
or hurrying about.  
The OM and XYL, plus harmonics too,  
were searching and searching for  
something they knew  
was needed not oftener-  
than two times a year.  
From basement to attic  
they flew and they threw  
wrappings off old,  
and uncovered that new.  
Finally at midnight from bottom of trunk  
and loving packed with assorted junque,  
polished and pampered, ready to work,  
the old telegraph key marked-  
"Bunnell" of New York.  
So up to the hamshack they ran in a rush,  
tore open the pencils,  
gave the paper a brush.  
Threaded wires through posts,  
and then with a hush,  
carefully watched as key  
warmed to the master touch.  
Oh dits and oh dahs  
what magic you work,  
no Lake Erie Swing!  
The OM wa silent, except for his eyes,  
you looked hard to see  
thoughts of grndfather- now silen  
now silent key.  
Then laying a finger aside of his nose,  
and touching the key,  
to the ether arose the  
wonderful sound of the old Morse code.

# Postal Regulations Require . . .

The club membership application and questionnaire which was included in the September Rag concludes with the statement: "To meet Postal Service regulations, this form must be completed by everyone paying dues - even to renew memberships."

Actually, the Postal Service only requires that the club furnish them with a list of our paid members (RaRa Rag subscribers) each year in order that we may continue to qualify for the second class rates used to mail the RaRa Rag. Your signature on the form along with the statement that you have paid your dues, \$1.00 of which is for a subscription to the RaRa Rag for one year satisfies their needs.

The balance of the information asked for is being compiled for use should an emergency arise. We asked if you had an FM transceiver, a HF transceiver, AC supply, etc. We also asked your home and business phone numbers.

If that emergency situation requires that we need for example, someone with a high frequency transceiver and an emergency AC supply at home, simply by checking our list, we will be able to locate a member or members who can fill that need. If the situation occurs during working hours, we will be to locate you quite easily.

Most of our members have completed the form willingly. A few people have turned in the form with many blank spaces, which incidentally, automatically becomes a NO where a question has been asked.

And, some people have refused to give any information at all - claiming invasion of privacy. So be it, if that is their wish.

Be assured that any information listed on your membership application is kept confidential - including your phone number, be it published or unpublished in the telephone directory. We only want to be able to find our members when they may be needed most.

Item six of The Amateur's Code by Paul Segal says: "The Amateur is Patriotic . . . His knowledge and his station are always ready for service of his country and his community."

Are you ready to serve your country and community. If you are, let us know by properly completing the membership form.



ONE YEAR  
\$ 7 50

*The magazine that  
does more for you .....*

- Contests
- Propagation
- Antennas
- DXing
- Awards

**The Radio Amateur's Journal**

14 Vanderventer Ave. Port Washington, N. Y. 11050

# DX - QSL's

"TNX QSO OM — PSE QSL VIA BURO... ?

"I've done it! I've finally worked some real DX! And will I QSL? You better believe it, especially for a country all the way across the ocean. But 'via Buro'? We landed men on the moon and a vehicle on Mars and this guy thinks we're still using animals to carry the mail?

"Anyway, I'll send him a card direct with an envelope made out to me with a stamp on the envelope, just as I do when I work a new state. If I tell him he's my very first QSO with his country, that should get to him and he's sure to QSL. Let me see now, I'll need to borrow a foreign Callbook; my U.S. one won't help much. And I guess my putting a U.S. stamp on the s.a.s.e. won't do him any good either. Maybe I could send him a dollar bill, but I heard that some foreign countries come down hard when they find someone with foreign money. Sure don't want to get him in trouble; he might not QSL. Got it! I'll send him some international Reply Coupons. According to the fine print on them, each one can be exchanged for the postage required to mail a first-class letter to almost any country in the world.

"The Callbook has a listing of the number of IRCs needed to equal what an airmail reply for my card will cost him. But wait just a doggone minute. I heard a fellow on the air just the other day saying that he'd gone to the post office to get some IRCs and they now cost 42¢ each! Let me see now, two IRCs, two envelopes, my airmail postage to send him my card and the IRCs and envelope... that's over \$1 for a single QSL! I'll go broke before I get halfway to making my DXCC. There just has to be a cheaper way..."

Don't go broke. There is indeed a cheaper way, and the DX station said it: via the QSL bureau.

## HERE'S HOW IT WORKS

Each month, every member of the ARRL (except family and sightless members) is mailed a copy of QST. The address label on the wrapper of QST is the member's "ticket" for use of

the Overseas QSL Service. Twelve times per year, an ARRL member may send as many QSL cards as he wants for amateurs overseas. With each mailing member must include the address label from an October, 1976 (or later), issue of QST and \$1 (check or money order). QSLs must be presorted by prefix. Nothing but the cards, address label and \$1 may be included in the package. Wrap the package securely and address it to ARRL-Membership Overseas QSL Service, 225 Main Street, Newington, CT 06111.

"Family" members of ARRL, to whom only one copy of QST is sent, may send cards in the same package but must include \$1 for each member sending cards and indicate that the QST address label includes a "family" membership."

Sightless members, who do not receive a copy of QST, need only include \$1 with a note indicating that the cards are from a sightless member. The countries shown in Table 1. No cards will be sent to individual QSL managers.

**FOR SALE:** Heath 2 meter transceiver (HW-202). Crystals for 19/79, 28/88, 34/94, 70/70, 52/52, and 94 transmit leaving one blank receiver. Complete with hard wired TT pad and all mounting hardware. \$150.00, contact Al Mumby, WB2MCP, at 865-1889.

## ARRL AIDS

Free to members who enclose self-addressed stamped envelope with request.

### TECHNICAL DEPARTMENT

- List of Circuit Board Suppliers
- Technical Aid Sheet (Form TAS-1)
- List of dealers in surplus teleprinter equip.
- Authors guide to writing for QST
- List of available back copies of QST
- List of publications on propagation prediction
- Information sheet on Micro-TO keyer
- List of parts and components suppliers
- List of dealers offering surplus 5FP7 tubes
- Nelson reprint "Electrical Interference"
- Repeater Forms
- List of Bibliographies
- List of templates (1967-1976) (with prices)

Call or write now for your  
**FREE CATALOG**

Years of experience to advise you & in-depth stocks of---

- \* CUSHCRAFT vhf/uhf Ringos, Beams, Colinears, etc.
- \* High quality LARSEN vhf/uhf whips & 6 mount types
- \* HI GAIN hf verticals, triband beams, rubber duckies, & 2M FM Handy-talkies
- \* CDR Rotors, foam coax, connectors, & adapters
- \* AC Power Supplies in 6 models and current ranges
- \* Hamtronics vhf/uhf transmitter, receiver, and preamp kits, vhf/uhf converters, etc.

Phone for info or appointment

716-663-9254

**hamtronics, inc.**

182 BELMONT RD., ROCHESTER, NY 14612

METRO  
COMMUNICATIONS  
ELECTRONICS  
SERVING  
WESTERN NEW YORK  
(716) 621-1750

Gary - W2TR  
Jim - WB2ITL  
Mike - WB2HYP

**METRO**  **COMM**

TWO WAY • MARINE • AMATEUR • CITIZENS  
SERVICE • SALES • INSTALLATION  
DOCKSIDE SERVICE

37 STONEWOOD AVENUE  
ROCHESTER, N.Y. 14612

PROMPT and DEPENDABLE  
SERVICE

# MORE AREA NETS

**CHAMPAGNE NET** - Each evening from 8:30 to 9:00 p.m. on 146.52 using the F.M. mode. Net Control (or master of ceremonies) is usually WB2AMC. Open to all stations and international.

**FEENAGE GLOBE NET** - Each Sunday at 10:00 a.m. local time (1500 utc) on 21.4 MHz using upper sideband. Net Control usually WA2KDL. Open to all hams of age 18 and under, for sharing information, passing traffic, informal DXing. Both local and out of state, plus overseas checkins are encouraged.

# Technicians Proceed with Caution

The F. C. C. has delayed implementing the new repeater and technician privileges promised by their action on Docket 21033 on September 21, 1977. Because of petitions filed for reconsideration the rules have not changed. The new repeater subband and new Technician frequencies from 144.5 to 145.0 MHz are not yet available. Auxiliary link operation while mobile or portable is not yet authorized. There is still a freeze on new repeater, auxiliary link, and control station applications; however, modification and renewals for existing licenses will be processed.

# June VHF Contest Results

Congratulations are in order for our very own Bob Nezelek, W2CNS, who with a crew of twelve other local Amateurs traveled to Sussex county Delaware and placed in the top ten nationwide. The group came up with 61,000 points by operating all bands from 50 to 10,000 MHz. The VHF Party expeditioners consisted of W2CNS, W2IOG, K2LDU, WA2's ZKD, FQE, SEY, ZQN, MZG, WVU, WB2's BGJ, KAO, WB3HKZ, and WA4EVC. Next year - Rhode Island.

# NOTICE:

Closing date for the January issue of the RaRa Rag is December 14th Wednesday - for articles and advertising.

U.S. POSTAL SERVICE STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION (Required by 39 U.S.C. 3685)			
1. TITLE OF PUBLICATION <b>Ro Ra Rag</b>	Pub. #605440	2. DATE OF FILING October 1, 1977	
3. FREQUENCY OF ISSUE Monthly except July & August	A. NO. OF ISSUES PUBLISHED ANNUALLY 7 (Ten)	B. ANNUAL SUBSCRIPTION PRICE \$1.00	
4. LOCATION OF KNOWN OFFICE OF PUBLICATION (Street, City, County, State and ZIP Code) (Not printer) 153 Mason Avenue, Rochester, Monroe, New York 14626			
5. LOCATION OF THE HEADQUARTERS OR GENERAL BUSINESS OFFICES OF THE PUBLISHERS (Not printer) Box 1388, Rochester, New York 14603			
6. NAMES AND COMPLETE ADDRESSES OF PUBLISHER, EDITOR, AND MANAGING EDITOR			
PUBLISHER (Name and Address) Rochester Amateur Radio Assn., Inc., Box 1388, Rochester, New York 14603			
EDITOR (Name and Address) Harold C. Smith, 153 Mason Avenue, Rochester, New York 14626			
MANAGING EDITOR (Name and Address) Harold C. Smith, 153 Mason Avenue, Rochester, New York 14626			
7. OWNER (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding 1 percent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address, as well as that of each individual must be given.)			
NAME ADDRESS Rochester Amateur Radio Assn., Inc. Box 1388, Rochester, New York 14603			
8. KNOWN BONDHOLDERS, MORTGAGEES, AND OTHER SECURITY HOLDERS OWNING OR HOLDING 1 PERCENT OR MORE OF TOTAL AMOUNT OF BONDS, MORTGAGES OR OTHER SECURITIES (If there are none, so state)			
NAME ADDRESS None			
9. FOR COMPLETION BY NONPROFIT ORGANIZATIONS AUTHORIZED TO MAIL AT SPECIAL RATES (Section 132.222, FIM) (The purpose, function, and nonprofit status of this organization and the exempt status for Federal income tax purposes (Check one))			
<input checked="" type="checkbox"/> HAVE NOT CHANGED DURING PRECEDING 12 MONTHS <input type="checkbox"/> HAVE CHANGED DURING PRECEDING 12 MONTHS (If changed, publisher must submit explanation of change with this statement)			
10. EXTENT AND NATURE OF CIRCULATION		AVERAGE NO. COPIES EACH ISSUE DURING PRECEDING 12 MONTHS	ACTUAL NO. COPIES OF SINGLE ISSUE PUBLISHED NEAREST TO FILING DATE
A. TOTAL NO. COPIES PRINTED (Net Print Run)		800	900
B. PAID CIRCULATION 1. SALES THROUGH DEALERS AND CARRIERS, STREET VENDORS AND COUNTER SALES		None	None
2. MAIL SUBSCRIPTIONS		697	790
C. TOTAL PAID CIRCULATION (Sum of B1 and B2)		697	790
D. FREE DISTRIBUTION BY MAIL, CARRIERS OR OTHER MEANS 1. SAMPLES, COMPLIMENTARY, AND OTHER FREE COPIES		47	47
E. TOTAL DISTRIBUTION (Sum of C and D)		744	837
F. COPIES NOT DISTRIBUTED 1. OFFICE USE, LEFT OVER, UNACCOUNTED, SPOILED, WASTED, ETC.		56	63
G. RETURNS FROM NEWS AGENTS		None	None
TOTAL (Sum of B, C, E, and G) should equal net press run shown in A)		800	900
I certify that the statements made by me above are correct and complete.		SIGNATURE AND TITLE OF EDITOR, PUBLISHER, BUSINESS MANAGER, OR OWNER <i>Harold C. Smith, Editor</i>	
12. FOR COMPLETION BY PUBLISHERS MAILING AT THE REGULAR RATES (Section 132.121, Postal Service Manual)			
39 U.S.C. 3626 provides for payment post. No person who would have been entitled to mail matter under former section 4359 of title 18 shall mail such matter at the rate provided under this section unless he files annually with the Postal Service a written request for permission to mail matter at such rate.			
No indication after the expiration of this month. I hereby request permission to mail this publication at the 1st class postage rate presently authorized by 39 U.S.C. 3626.			
SIGNATURE AND TITLE OF EDITOR, PUBLISHER, BUSINESS MANAGER, OR OWNER		800	
<i>Harold C. Smith, Editor</i>			

# K2JD ENGRAVING

P.O. Drawer G PITTSFORD, N.Y. 14534

## CALL SIGN BADGES

Size	Up to	Cost
3/4 X 3	(1 Line)	\$1.00
1 1/4 X 3	(2 Lines)	\$1.50
2 X 3	(3 Lines)	\$2.00
2 X 4	(4 Lines)	\$2.50
Base Station Sign		
2 X 8	(2 Lines)	\$3.00
Plastic stand add		\$1.50
Clip fastener on badge		
instead of pin add \$		.25

## RUBBER STAMPS

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

# 36 PT

# 24 PT

# 18 PT

# 12 PT

# 10 PT

# 8 PT

Most color badges are in stock

ARRL Sig on stamp or badge Add \$.50



# TIRE WORLD

## STORES

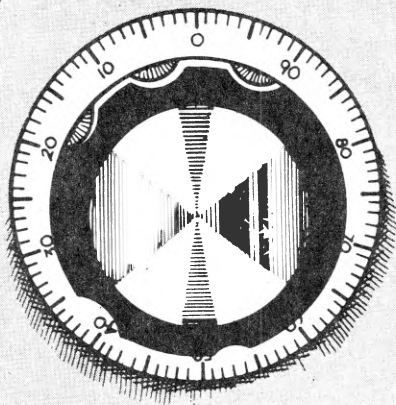
Most Complete Car Service

- TUNE-UPS
- ALIGNMENTS
- UNDERCOATING

\*Special prices to all HAMS

RAY ROBERTS, WA2SSU

2318 RIDGE ROAD W.  
ACROSS FROM LONG RIDGE MALL  
225-2220



# Adirondack has it!

- |           |           |
|-----------|-----------|
| ■ Atlas   | ■ Icom    |
| ■ Collins | ■ Kenwood |
| ■ Dentron | ■ TenTec  |
| ■ Drake   | ■ Yaesu   |

**Amateur Headquarters for the Northeast**

# ADIRONDACK

**Radio  
Supply**

185-191 West Main Street • P.O. Box 88  
Amsterdam, N.Y. 12010 Tel. (518) 842-8350  
Just 5 minutes from N.Y. Thruway — Exit 27

# JR'S

3327 LAKE AVENUE • ROCHESTER, NEW YORK 14612

**716 - 865-0430**

## JR'S X-MAS SPECIALS



<b>Shure 444 Desk Mic.....</b>	<b>29.95</b>
<b>Cushcraft 147-11.....</b>	<b>24.95</b>
<b>Midland 13-500.....</b>	<b>145.95</b>
<b>Dentron Big Dummy.....</b>	<b>25.95</b>
<b>Swan SWR-1A.....</b>	<b>21.95</b>
<b>CES Touch Tone Mic.....</b>	<b>39.95</b>

### 1978 CALLBOOKS NOW IN STOCK

U S - \$14.95

D X - \$13.95

Both For Only \$25.00

### CLOSE OUTS:

<b>1977 Handbook Regular</b>	<b>7.50 now</b>	<b>4.95</b>
<b>Understanding Amateur Radio</b>	<b>4.00 now</b>	<b>2.65</b>
<b>Swan 700CX w/ AC Supply</b>	<b>778.00 now</b>	<b>599.00</b>
<b>Mosley CL203 20M 3 Ele.</b>	<b>235.65 now</b>	<b>145.00</b>

SEASON'S GREETINGS

from

John & Ron

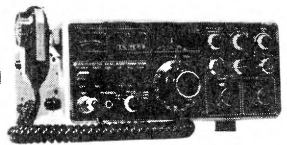


# A NEW STAR IS BORN!

hy-gain®



KENWOOD Transceiver TS-520S  
160 thru 10M \$649.

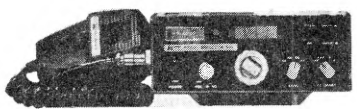


KENWOOD FM/SSB  
TS-700A \$599.

Wilson

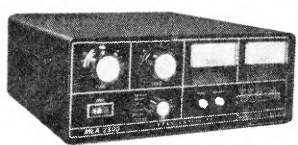


KENWOOD TR7500 2M FM

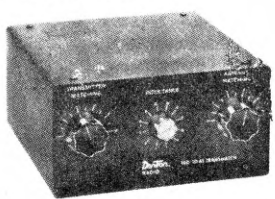


MIDLAND 13-510

Dentron



DENTRON  
MLA-2500 \$799.50.



DENTRON 160-10 AT  
Super Tuner \$129.50.

SAVE \$

## GRAND OPENING DECEMBER

3



10 a.m. to 6 p.m. - Mon., Tues., Wed.  
10 a.m. to 9 p.m. - Thurs., Fri.  
10 a.m. to 5 p.m. - Saturday



Amateur Radio of Rochester

1185 SCOTTSVILLE ROAD · ROCHESTER, NEW YORK 14604 · (716) 235-7540