

# The RARa RAG

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The Rochester Amateur Radio Association  
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VOL. 35

FEBRUARY 1983

NO. 6

## COME TO THE VALENTINE DINNER PARTY!

Get your tickets now for the *best yet* RaRa Valentine Dinner Party to be held at the Hilton Inn On-the-Campus *Packet Room*, 175 Jefferson Road on February 12th. The cost for a full-course sit-down dinner with appetizer, salad, dessert, and a carafe of wine for each table is a paltry sum of \$15.00 per person. This price also includes a flower corsage for the ladies and first class entertainment by Ralph Zwald and his Banjo Group. For those so inclined, dancing will also be available in the Hotel lounge. The cash bar will open at 6:30 p.m., and dinner will be served promptly at 7:30.

Dinner selections are *roast beef, London broil, and baked chicken*. Tickets are available from Don Drennam, W2EBF (671-3366); Alan Komenski, AC2K (248-8286); and Jim O'Brien, K2UDP (244-9905). They will also be available at this month's RaRa meeting.

Our three ticket-sellers have a friendly wager going among them. Whoever sells the most tickets will be treated to dinners by the other two. To make things even more interesting, Jim O'Brien is offering to give a pair of English China coasters with etchings of Rochester scenes on them for each pair of tickets he sells! (Wonder where he got those from!)

So as the competition is heating up, time is running out to get your tickets and treat your YL or OM to one of the most fun evenings of the year for this special Valentine treat. Hope to see everybody there.

### ELMIRA MINI-HAMFEST: FEBRUARY 26th

The Rookie Repeater Group is sponsoring a mini-hamfest at the Elmira Armory on February 26th. The Armory is located off Route 17 on Colonial Drive (south of the Mall exit on Route 17).

Hours are from 9 to 4 and admission is \$2.00. Bring your goodies!

WA2FJM

**NOTICE:** If any members who ordered the L.E.R.C. Calendar mentioned in our October issue have experienced a delay in its receipt, please write directly to the club (L.E.R.C.) address, for a replacement.

### ALL KINDS OF SIDEBANDS FEBRUARY 4th MEETING

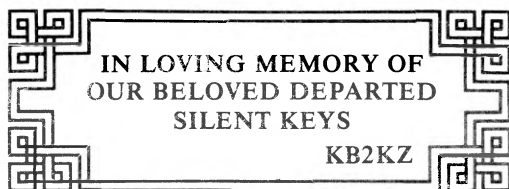
What kind of modulation is your SSB rig generating? AM, of course, might be the reply. But FM and PM also produce sidebands. And did you know that simultaneous AM and FM can produce SSB?

To find out more interesting facts about modulation, come to the February 4th meeting. Tom Wise of the Training group at RF Communications will be giving a lively presentation on this subject. Using graphic displays and equipment demonstrations, Tom will delve into some of these mysteries including, among others, a demonstration of AM stereo and the aforementioned AM FM producing SSB.

To the absolute amazement of everyone, the meeting will be held at the same place two months in a row for the first time this year. See you all at the Forty and Eight Club, 933 University Avenue (across from Gleason Works), February 4th, 8:00 p.m.

### SILENT KEY

Frank Cona, W2WPY, of Webster, NY



# The RARA RAG

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INCORPORATED

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152 West Church Street, Fairport, NY 14450 (716-223-7344)

## LETTER FROM THE EDITOR

Well, the *RAG* scored a couple of firsts in December. Those of you who received the January *RAG* received it by Air Mail thanks to an avid pilot among our ranks, Gordon Bass, K2UIR. You see, I always spend Christmas week with family in Erie, Pennsylvania and take the completed *RAG* with me to collate and stuff into envelopes there. Since the *RAG* is mailed on a second-class permit, it must be mailed from Rochester, and I usually wait until I get back to mail it. However, to make sure it got out on time, especially with the holiday mail uncertainty, Gordie flew to Erie on the Wednesday before New Years and flew it back to Rochester for mailing that afternoon. Many thanks for a job above and beyond the call of duty!

Those of you who get 73 Magazine may have noticed that the *RAG* received their "Newsletter of the Month" award in the January issue. This was a great surprise to me and of course a source of much pride. But I must also thank my great staff and the many contributors who make the *RAG* what it is. With such support, it is with great pride that I serve as Editor.

As I am composing this, I am taking advantage of a lull in the VHF contest. So I think I will get back and make a few more contacts before I hit the hay for the night.

73, K2RJ

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### OFFICERS:

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Vice-President: Bill Thiel, K2KGE 442-3111  
Secretary: Al Goss, K2SPO 482-3353  
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TEN-TEC — DENTRON  
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SUPER LOW PRICES

We will sell your used gear for you.

## LETTER TO THE EDITOR

Dear Ron:

This is to express my appreciation for the copies of *RaRa RAG* received during the past year, and to compliment you and your staff on an outstanding publication. It is certainly one of the most professional among the club bulletins I have seen, and I do enjoy the opportunity they provide for me to keep up with activities of the Rochester Amateur Radio Association and its members.

Please pass my best wishes to the members for a Happy Holiday Season and success in all the club's endeavors during the New Year.

73, Vic Clark, W4KFC  
(President, ARRL)

## SPECIAL NOTICE: MARCH DEADLINE

Due to the personal schedule of the *RAG* printing staff, the March deadline has been moved up to February 7th. Please get all material to Dwight, K2KWK, by this date. Thank you for your cooperation.

## PRESIDENT'S COLUMN

by Ed Holdsworth, N2EH

To those of you that attended the January Meeting, I would like to hear any comments you may have on the new location. The Board of Directors, at their January Meeting, voted to return to the 40/8 Club for the February Meeting. I wish to thank all those individuals that had suggestions and I believe that every location that was offered was looked at and discussed at Board Meetings.

The other item that is now at the top of the priority list is our computer applications. I am sure that I will have a report ready to present to the membership at the February Meeting and at that time I will be looking for direction from the general membership.

I am looking forward to an enjoyable and entertaining evening on February 12th at the Valentine Dinner and hope to see a good turnout. The complete details are covered elsewhere in the *Rag* and I am sure that Don, W2EBF, and Alan, AC2K, have arranged an excellent program. See you there!

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## PUBLIC SERVICE

by Ed Holdsworth, N2EH

Requests for our communications expertise have started to come in and it appears we will have a busy season again this year. I have listed below times and places that I have requests for at this time.

**Sunday, June 12, 1983** – Mendon Pony Rally, Victor

**Saturday and Sunday, June 11 and 12, 1983** – Susquehannock Pro Road Rally, Wellsboro, Pennsylvania

**August 10 - 14, 1983** – Empire State Games, Syracuse, New York

**Saturday, August 20, 1983** – Iron Man Contest, Hamlin Beach Park

**Saturday, September 17, 1983** – Palmyra Canal-town Days, Palmyra

**Sunday, September 25, 1983** – Diabetes Bike-A-Thon

If you can spare some time to work on any of these events – there will be sign up sheets at all meetings or you can call me at 624-1929. We can use assistance for any time period from 1 - 2 hours to the whole day. If you have never worked on this type of event – why not try it.

## FEBRUARY RAG CALENDAR

- 4 - RaRa meeting, 8 p.m., 40/8 Club, 933 University Avenue.
- 6 - Opening of JCC Station, 2 p.m., 1200 Edgewood Avenue, Brighton
- 7 - March *RAG* deadline to K2KWK.
- 9 - RaRa Board meeting, 7:30 p.m., QTH of K2RJ.
- 11 - VHF Group meeting, 8 p.m., Harris-RF Communications, 1700 University Avenue.
- 12 - ANNUAL RaRa VALENTINE DINNER PARTY, 6:30 p.m., HILTON INN ON-THE-CAMPUS
- 15 - RDXA meeting, 8:15 p.m., Colonial Hotel, 1127 Empire Boulevard.
- 18 - RRRRA meeting, 8 p.m., Pittsford Town Hall.
- 26 - Elmira Mini-Hamfest (see article)

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## LICENSE COURSE

by Ed Holdsworth, N2EH

The Spring License Course will get under way on Monday, February 21, 1983. They will be held on each successive Monday evening starting at 7:30 p.m. and ending at 9:30 p.m. They will be held, as usual, in the Social Service Building at 111 Westfall Road. Registration for both Novice and General Classes will take place on the 21st and fees will be as listed below:

### NOVICE:

|                      |         |
|----------------------|---------|
| Registration         | \$ 3.00 |
| Associate Membership | \$ 3.00 |
| Manuals, etc.        | \$ 2.00 |
| Total                | \$ 8.00 |

### GENERAL

|                 |         |
|-----------------|---------|
| Registration    | \$ 3.00 |
| RaRa Membership | \$ 6.00 |
| Manuals, etc.   | \$ 4.00 |
| Total           | \$13.00 |

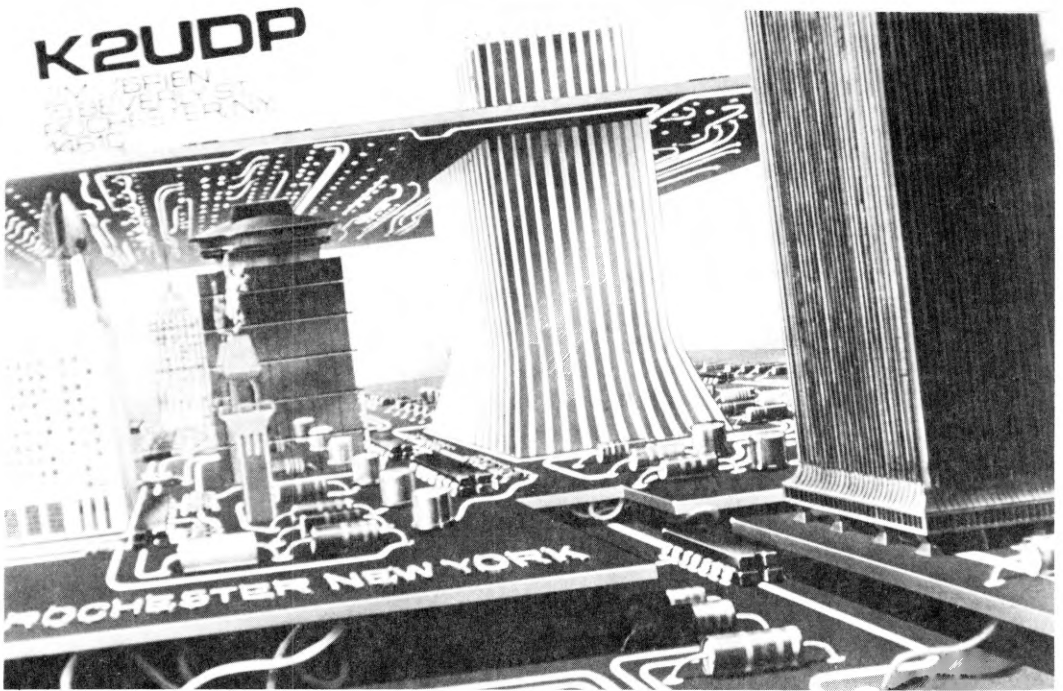
Please sign up at the February meeting or send a card to Ed Holdsworth, N2EH, 518 Parish Road, Honeoye Falls, NY 14472 indicating your desire to attend.

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## CAN ANYBODY HELP? —

A lady in Victor would be extremely grateful if any of you could monitor 21.350 to 21.370 MHz every Tuesday and Thursday evening between 8 and 9 p.m. local time to listen for CE5CYL or CE5BNC (both in Los Angeles, Chile). If you can help, please call 924-5508.

KAZKLT .



## RaRa ANNOUNCES ITS NEW QSL CARD

by Jim O'Brien, K2UDP

After nearly two years the QSL project that I had been heading became a reality at the Kodak Park December RaRa meeting. The evening brought with it an excellent slide presentation which took the audience on a trip through the design process.

The program was narrated by R.I.T. Student Kurt Jennings, from Woodstock, New York. He did a very fine job of explaining each step of the process leading to the final rendering. Kurt admits he knew little about Amateur Radio but he certainly is well-versed on the subject now.

The objective of the project was to give RaRa members a professional and meaningful QSL card which would also convey the pride we have in the Rochester Area. We wanted the QSL to transmit a message to the receiving party much  
(Continued on next page)

## HOW TO ORDER YOUR QSL CARDS

The QSL card being offered is a full-spectrum color card on heavy stock with the normal QSL information block printed on the back in black. Room has been allocated in the upper left-hand corner of the card for your callsign, name and address. The designer will be picking a suitable type-font that will be compatible with the card design. (The example on the card shown was drawn in by hand for the picture.) RaRa is negotiating with a printer for group rates on overprinting the personalized information at minimal extra charge.

The basic card will be sold for \$25.00 per thousand in lots of 1000. Shipping is not available, but local pickup points will be set-up. Full payment must accompany the order, and all orders should be in by the March 4th RaRa meeting.

### ORDER BLANK

DATE \_\_\_\_\_ NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CALL \_\_\_\_\_ PHONE \_\_\_\_\_

AMOUNT ENCLOSED \$ \_\_\_\_\_ QUANTITY (IN 1000's) \_\_\_\_\_

Shipping is not available - Local pickup is required.

Send Order to: RaRa QSL, P.O. Box 1388, ROCHESTER, NY 14603.

MAKE CHECKS PAYABLE TO RaRa QSL. FULL PAYMENT MUST ACCOMPANY ORDER.

## QSL CARD (Continued from previous page)

the same way the person mailing the card did when the on-the-air contact was made.

High Technology and the role that Rochester plays in this industry were of paramount importance throughout the design of this card. Rochester, as defined by the U. S. Department of Commerce is number 1 in high-technology exports. Rochester is becoming a worldwide leader in the electronic industry, therefore the objective was to convey a feeling of pride in these accomplishments.

The final color rendering as shown at the December meeting brought applause and favorable comments from the members. Questions such as "When can I get them?" were very common. The black and white photograph shown here (made from a color slide) will give you some idea of the design beauty of the new QSL. The addition of color really makes it sparkle.

See the adjacent article on how to order yours!

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## FCC OFFICIAL TO SPEAK AT OPENING OF JCC STATION

by Dave Rubin, N3CKH

Mr. Jim Taylor from the FCC District Office in Buffalo will be the featured speaker at the grand opening of the new amateur radio station located in the Jewish Community Center in Rochester. The festivities are set for Sunday, February 6th, beginning at 2 p.m. The Jewish Community Center is located at 1200 Edgewood Avenue, in the Town of Brighton. Mr. Taylor will speak on recent and proposed rules changes and the role of the FCC District Office in handling interference complaints.

The new Chaverim (Friends) Amateur Radio Station marks the addition of amateur radio as a JCC Program Activity.

Everyone is invited to the opening celebration; and, to join in station activities. Further information about the station can be obtained by contacting Dave Rubin, N3CKH, at 442-4318; or by contacting Ann Weiss at the JCC, 461-2000.

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## W6ZZ Formerly W2VRZ Now G5EBC

George Pugsley, W6ZZ, of Escondido, California, formerly W2VRZ of Brockport and well known in Rochester ham circles, has reportedly acquired a permanent additional call. He visited in England and came back with the new call, G5EBC, according to Jack French, W2WIT.

K2CTN

## THE ROCHESTER VHF GROUP

by Tom Richmond, WB2IEY

Our February meeting details will be announced in our Newsletter, due to a chance that our meeting will occur at a different day, different time, and different place than usual.

Where-ever our February meeting does take place – we will be having our annual awards for the 1983 VHF Sweepstakes Contest results.

See the Rochester VHF Group Newsletter for meeting details.

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## RDXA: FEBRUARY 15th

The next meeting of the RDXA is Tuesday evening, February 15th. Our meeting location is in the Colonial Hotel, 1127 Empire Boulevard. The formal part starts at 8:15 p.m.

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## YOU KNOW IT IS YOUR DAY FOR NET CONTROL

1. The weather forecasts thunder showers for the whole day.
2. Your wife wants to eat out that evening.
3. Your child has a special event that only you can help out.
4. Your auxiliary generator wasn't returned from Field Day and the power goes out.
5. You look for the rig you took to the party last night...and the net is due in 10 minutes.
6. The repeaters suddenly start to malfunction. or how about...
7. You are alone in the house and 10 seconds before net is to start the telephone rings!

Oh well..... THAT'S LIFE!

*Tnx ARNS*

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## EARLY ROCHESTER RADIO STORES

by Bruce Kelley, W2ICE, Club Historian

### PART I

#### Before WWI

Most radio amateurs assembled their receivers and transmitters from purchased or homemade components. Parts were available from several catalog houses such as Wm B. Duck and Electro-Importing Company. Local suppliers included Rudolph Schmidt & Company, a sporting goods store, and Wheeler-Green Electric Company.

## E. C. Sykes & Co., Inc.

We carry a complete line of  
**Radio Products and Parts**

Catalogue upon request

12 Front Street Rochester, N. Y.

1921

#### 1920 - 1930

This was the great building period when the home constructor built not only amateur equipment but also broadcast receivers. Here is a list of local stores:

– Rudolph Schmidt & Company located first at 51 East Main Street and later at 43 South Avenue. They were one of the leading suppliers and maintained a large stock of RCA, Grebe, Mesco, Murdock and other well known brands. Many radio amateurs worked in the store as clerks. The store even had an amateur station: 8BJM. In 1923, they published a large 207 page radio catalog.

## Rudolph Schmidt & Co.

Established 1882

Fifteen Years' Wireless Experience

51 EAST MAIN ST., ROCHESTER, N. Y.

1922

– Hickson Electric Company was owned by Lawrence Hickson who founded a broadcast station with the company's initials: WHEC. His first store was on the south side of Corinthian Street. How many can remember the nearby



Put on Your  
Head Sets and  
"Listen In"  
on These

## HICKSON RADIO SPECIALS

Sole Agents for

Grebe Radio Receiving Sets

Also Agents for

DeForest, John Firth, Clapp  
Eastham, Westinghouse, Ever-  
Ready "A" & "B" Batteries  
and Valley Battery Chargers.

## HICKSON ELECTRIC CO.

11 Corinthian St. Main 7391.

1922

Rattlesnake Pete's Saloon? This store, like others, also moved to a South Avenue address.

– Ed. T. Eastman Radio Company, 102 East Main Street. Eastman was one of the first amateurs in the area having been on the air before 1910. George Driscoll, WA2OFH, was one of the clerks.

– Robertson-Cataract Electric Company, 186 Clinton N., was a RCA and G. E. distributor who sold tubes to the radio amateur.

– E. C. Sykes & Company ran a well-known radio store for the radio amateur at 12 Front Street around the corner from Main. E. C. Sykes is grandfather to Steve Sykes, KA2KGM.

– Kelman Electric Company, corner of Windsor and East Main Street. Several hams worked in this store during the 20's.

– Mendel Schneider Radio Store, N. Clinton Avenue (between Cumberland and Central Ave.). The store carried a wide variety of amateur and broadcast parts.

– Beaucaire Mitchell, 5 Lawrence Street, had the local Philco agency. Their first popular product was the Philco A & B eliminator. Joe Marsey, N2JM, was one of their early employees.

Other stores that handled radio parts and tubes:

– Erskine-Healy Electric Company, St. Paul Street

– Wallace Electric Company, 405 East Main Street

– Huber Electric Company, 65 South Avenue

– Phillips Electric Company, 75 South Avenue

*Try Our Radio Department*

**For HAM PARTS . .**

**S. S. KRESGE CO.**

25c to \$1.00 Store

1930

All of the downtown 5 & 10 cent stores carried radio accessories. One that I can well remember was the well stock department of Pilot parts on the 2nd floor at Neisner's. Others were Woolworth's, Kresge and Grant's at the corner of Main and East Avenue. These stores carried a fairly wide range of receiving parts, tubes and a few transmitting components.

Home building peaked in the 20's and to die in the 30's. Atwater-Kent and Crosley were popular broadcast receivers while A. H. Grebe Company was a leader in the amateur field.

More in a future issue.

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## SILENT KEY

**Victor Miller**, former resident, dies in Long Island.

Word has been received in Brockport of the death December 21, 1981, of a former Brockport resident, Victor LeRoy Miller, believed to be about 73. He was supervising principal of District No. 21 Schools in Bethpage, L. I., for many years, where he resided at the time of death.

Victor apparently inherited his father's interest in electricity, and became Brockport's second amateur radio operator, after the late James W. Knapp, during the early 1920's. He received the call letters W8ARG, which were later changed to W2CET, when he moved to Long Island to teach.

During one Summer from his studies at Brockport High School, he became the radio operator of a freighter, the SS Lake Flatonia, which steamed between New York and New Orleans hauling fruit.

Vic related to a friend in Brockport that on his first voyage he was awed by the massive radio equipment and that the ship was off the coast of Florida before he was able to get his transmitter up to full power, there being no one else aboard who was familiar with the equipment.

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**FOR SALE:** Mint Drake R7 receiver, S/N 2522, with AM - CW filters and noise blanker installed. MS7 speaker, service manual, TR7 interconnect cable kit, operating manual and packing included. Cash or trade? Call: K2YCO, Chuck Oneske, 716-266-6370, Rochester, NY

## RRRA MEMBERS

### DEMONSTRATE COMPUTERS

by Ed Neubauer, N2BXA

A personal computer in every home by 1985? We're well on the way. Indeed, declining costs for microcomputer hardware combined with increased performance and function have resulted in a technology boom which has put computing power in appliances, automobiles, home video games, personal computers, and yes, nearly all state-of-the-art ham transceivers.

On February 18th, the RRRA will feature a presentation by Ed Neubauer, Data Systems Planning Manager at Sykes Datatronics. Ed, along with several other RRRA members will discuss and demonstrate the latest wave of low-cost microcomputers in the under \$500 category. This category, with base prices starting under \$100, has experienced soaring growth during the past year and is capturing the interest of many radio amateurs in Monroe County. Many area hams are combining both hobbies for maximum fun (just listen in on the 146.46 simplex crowd some evening).

February's meeting will start-off with a definition of the basics, including a description of the various types and models of low-cost microcomputers. Ed will attempt to sort-out and define the various buzzwords that make "computerese" sound so much like a foreign language. With the bits and bytes out of the way, our members will demonstrate a variety of computers now in use by area hams. Additionally, a variety of software programs will be demonstrated including many programs which benefit amateur radio operation.

If you've been wondering "What is the attraction?", and what is all the "noise" on the radio about computers, find out on February 18th at the Pittsford Town Hall at 8:00 p.m.



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Lonnie Keller, WA2AOG  
Owner



# The RaRa RAG 20 YEARS AGO

## FEBRUARY 1963

by Ed Gable, K2MP

The February 1st meeting featured an interesting talk by Jack Auer, W2SGJ, of General Railway Signal's R&D lab. Jack's topic for the evening was on the use of ultrasonic detectors as used for traffic control detectors.

Cappy Capauldy, K2UXF, announced the second annual Valentine Dinner-Dance to be held at the Manger Hotel. The entire evening including top sirloin of beef dinner was \$4.00 a person.

Typical awards at this time included a Lafayette HE-35 Six Meter AM transceiver, two 20,000 ohm per volt VOM's, a WRL all-band vertical antenna, a 24 hour clock, a carbon microphone with optional coiled cord, and numerous other lesser items.

The CD Center just received a new magnetic county map to keep track of mobile units out in the field. Paul Samay, K2THK, and Haywood Parker, K2YMM, were credited with installing the new map.

Ed Valmore, K2EVJ, worked Chuck Brelsford, W2CTA, using a new fangled transistorized six meter CW rig running .027 watts input.

The Orleans Country ARC is meeting in their new underground bunker type CD center as reported by club president Jim Wolfe, K2KQM.

From the Want Ads, you could buy a Heath Apache for \$225 or a Gonset G-50 for \$200, while Jerry, WB2DRN, advertised a service of building Heath kits.

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## NEED MILITARY MANUALS?

U. S. NAVY Publications:

Navy Publications and Forms Center

5801 Tabor Road

Philadelphia, PA 19111

ATTN. Customer Service, Cash Sales

U. S. ARMY Publications:

Department of the Army

U.S. Army General Publications Center

1655 Woodson Road

St. Louis, MO 63114

ATTN: Miss Mamelian

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FOR SALE: Collins KWM2 with Waters rejection tuning, 516F2 Power supply/speaker, manual and original carton. Excellent condition. For quick sale, only \$470. Phone Sunday - Thursday. Ollie, 288-3604.



## REFRESHMENTS NEVER FORGOTTEN

by Jim O'Brien, K2UDP

Many organizations throughout our community, especially those that depend on volunteers have their "unsung heroes". RaRa is no different. We have in our organization basically three types of members with respect to their level of involvement. And while we are talking about respect, these comments are made with a high level of respect for all of our members.

*First*, there is the individual who sees that to make the organization better - to make RaRa grow - he or she needs to step forward and accept the challenge and responsibility to make something happen. This is the member who truly knows the meaning of the terms *feeling of accomplishment* and *volunteerism*.

*Second*, is the individual who pays his dues bill right on time, attends all the meetings and is seldom seen or heard from any other time.

*Third*, is the individual who pays his or her dues bill.

Don't misunderstand. We need all of the above for a healthy organization. But I'm sure you'll agree that organizations grow only because of the commitment and volunteer spirit of its members.

George Muller, WA2IEO, our refreshment chairman exhibits this volunteer spirit. George has never missed performing his duties. He maintains an inventory of the necessities, orders and picks-up a good selection of donuts and has everything ready on-time. He manages the funds wisely, never going into the hole and almost always making a small profit for the club.



## BEACON UPDATES . . .

144.051 WB2IEY/BEACON is now operating under automatic control. It is temporarily located in Pumpkin Hook, NY (approximately 5 miles south of Macedon and RT 31), til later in January when it will be moved to its resting spot near Naples, NY. The identifier currently is sending "WB2IEY/BEACON WB2IEY/BEACON —" The output of the transmit oscillator when unkeyed is approximately 1 mw. (locals should use this to tune up receivers, and not the stronger transmitted signal.) The antenna is currently a turnstile at 25 ft. (a pair of 'big wheels' at 25 ft. are planned for Naples).

PSE QSL . . . TNX!

de WB2IEY

## NOVICE NOTEBOOK

Write these down for future reference.

**PARASITIC ELEMENTS:** A common problem, usually mistletoe growing on your dipole.

**PUSH-PULL AMPLIFIER:** Can be identified by the handle on each end of the case.

**BROADBAND:** Don't let this one fool you, YLs are not restricted to any one band.

**ANTENNA FEED:** Best to use powdered aluminum. In a pinch, Kibbles 'n Bits will do.

**DIGITAL LOGIC:** Counting on your fingers is permitted in FCC Exams, however square roots and exponential numbers are not recommended unless you are double jointed.

**FERRITE BEADS:** Highly poisonous bait for Ferrites, a small nocturnal animal which feed on coaxial cable. Handle this stuff with rubber gloves.

**DECAY TIME:** Little known property of integrated circuits. The number of days an IC will continue to function before its inside rots out. This time may be slowed down by keeping your radio in an ice box. Use of cold solder joints on IC circuits will help slow down this decay also. See also Polarization.

**FREQUENCY RESPONSE:** Your percentage of confirmed QSOs. More exactly, the number of QSLs you have received divided by the number you have sent out, multiplied by 100. 25% is doing good outside the Novice band. 99% is poor in the Novice band.

**WHEATSTONE BRIDGE:** Small village in Northern England where Marconi's first radio signals were received.

**POLARIZATION:** Operation of a radio in cold environment. CW is usually not used in extremely cold environments as the dits and dahs tend to stick together.

## ROBINSON ROCHESTER CYCLES

# TRIUMPH

- MAICO • RICKMAN • CAN-AM
- OSSA • YANKEE • SWM • BSA

# Onan

EMERGENCY GENERATORS

SPECIAL for RaRa MEMBERS

1.75 KW - \$499

Ask for Jim - WA2ZKD

COMPLETE MACHINE SHOP & SERVICE

free parking in rear

**436-4775**

900 W. MAIN ST.  
(AT BULLS HEAD)

**CHEBYSHEV FILTERS:** Russian cigarettes. Better than IRCs for getting QSLs back.

**CARRIER FREQUENCY:** A bit redundant, the first ship equipped with a radio.

**RF SUPPRESSION:** A recent attempt to put severe restrictions on power levels that are presently permitted, headed by several consumer activists. Their data was indicative that VHF and higher radio waves were hazardous to your health. For further reference see the book, "Invisible Enemy."

**DIPOLE ANTENNA:** Any antenna that is suspended from two poles. Hence the name, DIPOLE.

**FOLDED DIPOLE:** A dipole that has not been taken out of the box yet.

(From Solid Copy, South Webster OH.  
By N8CNB)

## 78/18 REPEATER NOW IN WEBSTER

Repeater pairs don't remain empty too long in the Rochester area! Since WB2AQQ moved to 145.11, KA7GXF decided to experiment with a repeater on the frequency. Equipment is crude and coverage is minimal but Rome wasn't built in a day! When you are in the Webster area, stop by on 78/18 and say hi.

## RADIO EXHIBIT AT ROCHESTER

Club members and their families might be interested in an exhibit at the Rochester Museum and Science Center. The exhibit commemorates the 60th anniversary of radio broadcasting in Rochester and was assembled with the cooperation of the Antique Wireless Association Electronic Communications Museum in East Bloomfield and WHAM. Starting in February, the display will be open to the public on Sundays. It is now being used exclusively by classroom groups as part of an educational program on radio.

*Tnx D.A.R.C. Newsletter*

## BEACONS

If you are interested in a beacon type operation, the FCC has ordered the adoption of rules defining such operation and permitting automatic operation of these stations. See the February 1982 *QST* for details.

**FOR SALE** – Kenwood #TS-520. Has the internal ac/dc supply, plus both operator and service manuals, and original box. Rig has new 6146-B tubes and put into first class shape. Must be seen. Contact Pat Hoke, W2DN. Also available; Hustler KW mobile antennas.

## ESTATE SALE of WB2KBT:

Drake TR4C  
W4 Wattmeter  
MN4C Antenna Tuner  
AC4 Power Supply  
DL200 Dummy Load  
E-TECH Frequency Counter  
D104 Microphone  
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Contact Mrs. John L. Sullivan at 335-3535.

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| 2 x 4 (4 line)     | \$2.75 |

### Base station sign

|                |        |
|----------------|--------|
| 2 x 8 (2 line) | \$3.00 |
| Walnut base    | \$3.50 |
| Plastic base   | \$1.50 |

Clip fastener on badge  
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