



# the RARA RAG

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**ROCHESTER AMATEUR RADIO ASSOCIATION, INC.**

VOL. 38

FEBRUARY 1986

NO. 6

## FEBRUARY IS HOME BREW NIGHT

The time is growing short for entries in the first annual "Home Brew Contest". The contest will end with the judges selecting the winners in each class, at the February RaRa meeting. The entry list has been growing and at this time we have over a dozen entries.

The prizes for the winners in each class will be a gift certificate for \$30.00 for dinner at a well known restaurant in the Rochester area. If there are enough entries in a class there will also be second and third prizes.

If you wish to enter it would be appreciated if you would let the program chairman (Dick Goslee - K2VCZ) know in advance. He may be reached at work at 424-2560 or at home 334-1762. All entries that are present at the meeting will be judged.

This will be a good opportunity to show off your project to everyone, or to see what others are doing. Come on down and join in the fun, Friday, February 7th, 8 p.m., at the 40/8 Club, 933 University Avenue.

## RRRA FEBRUARY MEETING TO FEATURE THE FUTURE OF PUBLIC SAFETY COMMUNICATIONS

The topic of the February 21st Rochester Radio Repeater Association meeting will be *The Future of Public Service Communications* by Len Gessin, WA2ZNC. Last month, Dave Stark, NF2G, gave a very good presentation on the new 911 system and how the dispatching function is handled. Lenny's program will go into the hardware up on Cobb's Hill and elsewhere throughout the county and how it is changing to keep pace with technology. The meeting starts at 8 p.m., and all area hams are invited.

The new software for the controller has been delivered and should be installed by the time you are reading this. There will be information available at the meeting on any changes or additions of functions.

## FEBRUARY RaRa AMATEUR EXAMS

Saturday, February 15, 1986

Write:

A. G. de Blicck, KW2X  
59 Knoll Road  
Rochester, NY 14622

## WINTER FUNFEST FEBRUARY 8th AT MENDON PONDS PARK

by Ed Kohl, WA2UBD

Don't forget! - The second annual RaRa Winter Family Funfest will be held Saturday, February 8th at Mendon Ponds Park (Hopkins Point Lodge). We have reserved a lodge and have planned an enjoyable event for everyone. The fun begins at 12 noon and doesn't stop until 6 p.m. Hot food (hamburgers, hots, chili and soup) will be served all afternoon and hot beverages will be available at all times.

In addition to cross-country skiing, sledding and other outdoor activities, there will be plenty of room inside for visiting with old friends and making new acquaintances by the fire. (Maybe we can even have a re-match at Trivial-Pursuit!)

There will be a dessert-baking contest with prizes awarded to the winning entries. So plan to bring some type of baked 'goodie' (cookies, cakes, pies, rolls, etc.) to enter in the contest and to share with everybody when the judging is over.

The cost for this Funfest is only \$2 per person, up to a maximum of \$5 per family. See you there!

## SILENT KEYS

WA2CJL  
Linwood F. Stewart  
K2INV  
Howard A. Parmelee

# the **RaRa Rag**

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## AS I SEE IT

by Ron Jakubowski, K2RJ  
President RaRa and Editor, RaRa RAG

One day last October I was updating the club membership files at the K2JD club station before a board meeting, and, as usual, took much care to make the necessary back-ups – almost. A day or two later I realized that something was *very* wrong. Somehow on one of the disks in the pair, the data had reverted to what was in early September or before! Not only had we lost all the renewal information that had been updated, but many of the address changes and the individual station equipment information that had been entered. The only way I had to recover was to go through all of Lloyd's new membership/renewal records (about 500 at that time) and check and change it if necessary.

It takes a major disaster like this to make one look more closely at procedures and tighten-up or change them. I decided it would be a good idea to keep track of the date of last update on each disk and double check it before making back-ups. So, if your mailing label reverted to an old address for a month or so, the mystery has been solved.

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### OFFICERS:

President: Ron Jakubowski, K2RJ      482-6308  
Vice President: Dick Goslee, K2VCZ      334-1762  
Secretary: John Lloyd, KA2KVF      254-2394  
Treasurer: Dave Bernheisel, N2DPF      244-1856

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## LETTER TO THE EDITOR

Several weeks ago I was given a public domain packet radio terminal controller program written by N4PY; a member of the Cary, North Carolina Amateur Radio Club and a new packet radio organization. He was happy to share the program which supports the RAPR TNC-2 attachment to an IBM PC jr, PC or XT. Thought I would send along a copy of the program for those RaRa members who might be interested in using it. Please feel free to disseminate it within RaRa with the request for the user to abide by the conditions set forth in the instructional file PTP.DOC. I would suggest that the user copy an editor, such as PE, to the disk to facilitate the personalization of the program to their specific station call, connects etc.

*Robert P. Buehlman, N4IQA*

## CALENDAR FOR BALANCE OF THE YEAR

MARCH – “*Packet Revisited, One Year Later*”  
by the Rochester Packet Group

APRIL – “*Old Timers Night*”  
and nominations for elections

MAY – “*Cable TV Leakage, The Two-Way Street*” by Earl Houseknecht of Greater Rochester Cablevision,  
and Election of officers

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## LETTER TO THE EDITOR

Perhaps there should be a "WHY" column in the *RaRa Rag*. The first "WHY" could be:

"Why is it that everytime the featured presentation begins at the club meeting, that there are some who begin talking and making noise in the back of the room?"

This is very distracting to those listening and probably for the person speaking, as well as making it difficult for the audience to hear. At the last meeting I was not the only one who was turning his head toward the back to see what was going on.

*Name and call withheld by request.*

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## ARRL BULLETIN NR 2 — FROM ARRL HEADQUARTERS — NEWINGTON, CT JANUARY 9, 1986

THE U.S. COURT OF APPEALS FOR THE 6TH CIRCUIT HAS RULED IN FAVOR OF RADIO AMATEUR WM4T IN THE CASE OF THERNES V CITY OF LAKESIDE PARK, KENTUCKY. THE DISTRICT COURT HAD UPHELD A MUNICIPAL BAN ON AMATEUR ANTENNAS BECAUSE THEY WERE NOT SPECIFICALLY PERMITTED AS ACCESSORY USES WITHIN THE CITY. THE REAL HERO IN THIS ACTION IS THE FCC MEMORANDUM OPINION AND ORDER IN PRB1, THE RELEASE OF WHICH WAS EXPEDITED IN HOPE OF TURNING THE TIDE IN THE THERNES CASE. WATCH QST AND THE ARRL LETTER FOR FURTHER DETAILS

AR

## ARRL BULLETIN NR 3 — FROM ARRL HEADQUARTERS — NEWINGTON, CT JANUARY 9, 1986

EFFECTIVE JANUARY 24, 1986, PERSONS WHO HAVE HAD THEIR AMATEUR OPERATOR LICENSES SUSPENDED OR STATION LICENSES REVOKED ARE PROHIBITED FROM PARTICIPATING IN AMATEUR RADIO COMMUNICATIONS AS THIRD PARTIES. FCC SAID THAT WITHOUT SUCH AN AMENDMENT TO THE AMATEUR RULES, A FORMER LICENSEE COULD CONTINUE TO ENGAGE IN THE TYPES OF COMMUNICATIONS THAT HAD NECESSITATED ENFORCEMENT IN THE FIRST PLACE IF

## FEBRUARY RAG CALENDAR

- 7 - RaRa Meeting, 8:00 p.m., 40/8 Club, 933 University Avenue
- 8 - RaRa Winter Funfest, 12 - 6 p.m., Mendon Ponds Park, Hopkins Point Lodge
- 12 - RaRa Board of Directors meeting, K2JD Club Station
- 13 - Rochester Packet Radio Group meeting, 7:30 p.m., County Social Service Building, 111 Westfall Road
- 14 - March *Rag* Deadline
- 14 - Rochester VHF Group meeting, 8:00 p.m., County Social Services Building, 111 Westfall Road
- 15 - Amateur Radio Exams, County Social Services Building, 111 Westfall Road
- 17 - RaRa Licensing Classes Start, 7:30 p.m., County Social Services Building, 111 Westfall Road
- 18 - RDXA meeting, 8:15 p.m., Colonial Hotel, 1127 Empire Boulevard
- 21 - RRRR meeting, 8:00 p.m., Pittsford Town Hall



Vice-President K2VCZ, Dick Goslee  
at the podium.

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PERMITTED TO OPERATE AS A THIRD PARTY BY A CURRENT LICENSEE. FURTHER DETAILS ON THIS ACTION IN PR DOCKET 85 51 WILL APPEAR IN FEBRUARY QST

AR



GIL CHAPIN, WB2UTI, SPEAKER AT JANUARY MEETING



JANUARY M



MIKE RICE, KB2SG, RDXA PRESIDENT AT DECEMBER MEETING



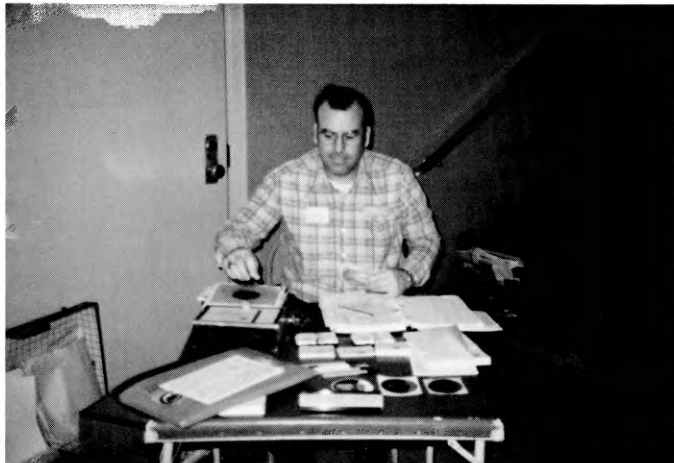
ED HOLDSWORTH, N2EH, PRESENTING ARRL BANNER TO  
RON JAKUBOWSKI, K2RJ, RaRa PRESIDENT



DAVE BERNHEISEL, M



ING TURNOUT



LLOYD CAVES, WB2EFU, MEMBERSHIP CHAIRMAN



DECEMBER RaRa MEETING AT KODAK PARK



PF, TREASURER, RaRa



REFRESHMENTS AFTER THE KODAK PARK MEETING

## CALL FOR FIELD DAY '86

### PLANNING COMMITTEE

by Keith Freeberg, N2BEL

Last March the call went out, from RaRa membership meeting, for someone willing to chair a Field Day Organization Committee. The answer was a resounding OOPS! In an effort to avoid the pitfalls of last year, we are now sending out the call for all interested parties to sign-up as interested in participating in a RaRa sponsored ARRL Field Day exercise.

I am aware of several groups in the greater Rochester Area who get together each year to plan and execute a Field Day each June. Perhaps you would rather try to join an existing group to avoid some of the potential brain-busting work of organizing and coordinating; food, shelter, rigs, antennae, support structures, CW and phone operators and site evaluation.

Be aware that some of these groups made have limited resources. This could mean they might not be able to invite you to join their outing. This is not to say anything negative about those groups, it is just a matter of SUPPLY and DEMAND.

If you have had some thoughts of participating in Field Day activities and didn't know where to turn, call me. The objective of a Field Day exercise is *not* to see who can get out there with the biggest antennae, most linear amplifiers and operate on the most bands at the same time. The object is to help us determine for ourselves our level of preparedness for emergencies and especially *HAVE A GOOD TIME*.

With just a few people, we can start planning now for the type of Field Day operation *we would consider fun*.

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## FUZZ-BUZZ COMPLAINTS???

### 911 TOURS !!!

Please route any and all complaints concerning the 911 operators to Tom Free, KA2QNT, between the hours of 4 p.m. and 12 a.m. at 428-7080. Tom is a senior supervisor at the 911 center and is the best equipped to resolve any problems.

Tom also has extended an invitation to any of the Rochester area Amateur Radio groups to tour the 911 center. Call him in advance to set up a date if you are interested. Tour groups are limited to 20 people at a time so as not to disrupt the floor operations.

## HIGH TECH COMES TO NFL FOOTBALL

While being low keyed, look for this fall's exhibition NFL football games to include the addition of an additional "super" official. A special "over-ruler" will be situated in the press box to instantly review all controversial calls. This official will be empowered to overrule blatant mistakes by on-field officials.

The mechanics have yet to be ironed out, but a permanent system could be in place in time for the 1986 season if the experiment works out. The idea is to allow game officials to obtain the same information that the homeviewing audience gets via instant replay.

NFL officials are not sold on the system since their decisions are rejected rather than instant replay information being made available to them. And the networks are less than excited about being saddled with additional "officiating" responsibilities. They fear "coverage standards" might develop.

All August pre-season NFL contests will have regular viewer instant replays immediately available for review and possible rejection of a call. Regular season games, however, will require beefed up coverage. The first game to use the instant replays will be the Dallas Cowboys - San Diego Charger August 17th pre-season game. The press box official will have 20 seconds to issue a veto or the first judgement stands! The NFL's supervisor of officials will be the first "overruler".

*Tnx - W5YI REPORT*

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FOR SALE: vertical antenna: Hustler, Model 5-BTV, 80 meters thru 10 meters. New, in box. Cost \$113, sell \$89. Roof Mounting Kit for Vertical Antennas: Hy-Gain, Model 184-4RMQ. New, in box. Cost \$40, sell \$29. N2EHR, 716-482-8829.

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FOR SALE: Kenwood TS-830; TS-820 with remote VFO; Dentron MLA-2500 linear; YAESU 2000 B linear; 2 meter equipment. Call John, 288-5740.

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W2YJ

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## INTERNATIONAL AMATEUR RADIO ARRANGEMENTS

The United States has arrangements for third-party traffic and for reciprocal operating privileges in the Amateur Radio service with the countries listed below.

### THIRD PARTY ARRANGEMENTS

The United States has arrangements to permit FCC-licensed amateur stations to exchange messages for third-party with amateur stations in these countries:

Antigua and Barbuda, Argentina, Australia, Belize, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, The Gambia, Ghana, Grenada, Guatemala, Guyana, Haiti, Honduras, Israel, Jamaica, Jordan, Liberia, Mexico, Nicaragua, Panama, Paraguay, Peru, St. Christopher and Nevis, St. Lucia, St. Vincent and the Grenadines, Swaziland, Trinidad and Tobago, United Kingdom (special event stations with call sign prefix GB followed by a figure other than 3), Uruguay, and Venezuela.

The United States also has an agreement with the International Telecommunications Union permitting third-party traffic with its amateur station 4U1ITU in Geneva, Switzerland.

International amateur radiocommunications are limited by the International *Radio Regulations*. They must be in plain language and consist only of messages of a technical nature relating to tests and to remarks of a personal character for which, by reason of their unimportance, recourse to the public telecommunications service is not justified. Business messages are prohibited.

At the end of an exchange of international third-party traffic, the FCC-licensed amateur station must transmit the call sign of the foreign amateur station in addition to its own call sign (see Section 97.84).

The United States has arrangements to grant reciprocal operating permits to visiting alien amateur operators. An alien amateur operator licensed by one of the following countries, who is also a citizen of that same country, may apply for a permit to operate his/her amateur station in area where telecommunications are regulated by the FCC. A United States citizen is not eligible for an FCC-issued reciprocal permit. Aliens are also eligible to qualify for an FCC amateur radio license.

Argentina, Australia, Austria, The Bahamas, Barbados, Belgium, Belize, Bolivia, Botswana,

## STATE SCHOOL AT INDUSTRY RECEIVED YOUR HELP

Rich Sykes, WA2EIV, wishes to thank all those who donated equipment to help build interest in Amateur Radio at Industry. The response was overwhelming and is much appreciated by the residents.

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**FOR SALE:** Collins 75S3-B receiver, 312B4 control console - wattmeter - phone patch. Call Ollie, K3BBK, 416-4246.

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Brazil, Canada\*, Chile, Colombia, Costa Rica, Denmark, Dominican Republic, Ecuador, El Salvador, Fiji, Finland, France, Federal Republic of Germany, Greece, Grenada, Guatemala, Guyana, Haiti, Honduras, Iceland, India, Indonesia, Republic of Ireland, Israel, Italy, Jamaica, Japan, Jordan, Kiribati, Kuwait, Liberia, Luxembourg, Monaco, Netherlands, Netherlands Antilles, New Zealand, Nicaragua, Norway, Panama, Paraguay, Peru, Philippines, Portugal, St. Lucia, Seychelles, Sierra Leone, Solomon Islands, Spain, Suriname, Sweden, Switzerland, Trinidad and Tobago, Tuvalu, United Kingdom, Uruguay, Venezuela, and Yugoslavia.

\*The arrangement with Canada permits operation by Canadian amateur operators in the United States without obtaining a reciprocal operating permit and vice-versa.

An alien amateur operator may apply for a permit by completing FCC Form 610-A, available from any FCC office or, in some cases, from United States missions abroad. The permit is valid for one year or until the expiration date on the alien's license, whichever comes first. The application and a photocopy of the alien's amateur license should be sent to:

Federal Communications Commission  
Gettysburg, Pennsylvania 17325  
United States of America

United States amateur operators wishing to apply for a reciprocal permit in a foreign country should contact the telecommunications regulatory authority for the country to be visited. The regulations of that country apply.

Amateur operation in areas where telecommunications are regulated by the FCC must comply with Part 97 of the Commission's Rules and the international *Radio Regulations*. Operator privileges in the United States are those authorized by the operator's own government, but not to exceed those of the FCC Amateur Extra class (see Section 97.7).

FCC

## LICENSE CLASS TO BEGIN

by Ed Holdsworth, N2EH

The spring series will commence on Monday, February 17, 1986 at 111 Westfall Road. They will be held each Monday from 7:30 to 9:30 p.m. until May 12, 1986 on which date we will hold the usual commencement exercise for those that successfully complete the prescribed course of study.

The general course will be conducted under the usual competent instructors— Ed Gable, K2MP— Theory and Bud Young, WA2UGE— Code. Russ Foster, NE2B will be on the key for the Novice Code and N2EH will be making the usual attempt at Novice Theory.

The cost for all this high grade instruction is a nominal \$12.00 for Novice and \$18.00 for General. This includes the items listed below:

### GENERAL

Registration	\$ 3.00
Membership (full)	7.00
Books, etc.	8.00
Total	\$18.00

### NOVICE

Registration	\$ 3.00
Membership (Associate)	4.00
Books	5.00
Total	\$12.00

As usual, I would appreciate advance notice if you plan or know of someone that is planning on attending either Novice or General class. Please send a card to my home address — 518 Parish Road, Honeoye Falls, New York 14472, or sign up at the February meeting. This will help me to have sufficient supplies on hand for registration on the first night. Registration on the 17th will open at 6:30 p.m.

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## ELECTRONIC TRIVIA

The term “*condenser*” was born in 1745 when a scientist was experimenting with a Leyden jar. He reasoned that the electric charges were *condensed* in the jar. A Leyden jar was the original capacitor consisting of metal foil sheets on the inside and outside of a glass jar. The foil served as the plate and the glass as the dielectric. A hundred years later, Michael *Faraday* further studied the characteristics of capacitors.

Alessandro *Volta* judged a battery by the flash he saw when he touched its wires to his eyelids! Andre Maire *Ampere* showed that when current flowed through a suspended rectangular wire loop, the loop became magnetized and acted like a compass needle and pointed north.

George Simon *Ohm* discovered curious mathematical relationships between various electrical

## YOUTHS NEEDS A HELPING HAND

by Keith Freeberg, N3BEL

This past Fall, Tim Wettach (N2TW), reached out to five eager to learn boys at St. Joseph's Villa. These youngsters are of average intelligence with an abbreviated attention span, 30 to 40 minutes. Tim enjoyed his opportunity to work with these boys but has now returned to college to further his education.

These boys need someone to continue the teaching and the caring by spending 30 to 40 minutes with them once a week to continue their electrical/electronic/communications training. These young men need a structured environment with planned activities for each meeting.

If you think you would like to share some of your time and knowledge with five very interested boys, don't let lack of teaching experience throw you. **HELP IS AVAILABLE!** I'd be happy to help anyone convert their ideas into a instruction/teaching plan. Pick something you like to do and some basic skill that needs to be developed. Such as; soldering, S W L techniques, P. C. board etching or fun with basic DC circuits. These young men need to develop all sorts of basic skills that you may already take for granted.

The length of time you wish to donate to this need not be extensive. Four to eight weeks of once a week half hour meetings will give plenty of time to approach straight-forward topics.

Supervision will be supplied at all times by St. Joseph's Villa staff. You need not be concerned about keeping the class in order. These boys are interested in learning more to better themselves.

If your thoughts range to a class project, let's discuss it. All things are possible. I may be able to find funding for your idea.

Please, don't delay. Call me as soon as you can at 544-9400 during the evening or leave a name, phone number and best time to call on the tape and I'll get back to you right away. These boys could really use your help.

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**WANTED:** Vibroplex semi-automatic key, Lightning Bug model L, in good condition. Warren Ulrich, N2AUV, 467-2360.

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components in 1827. Ohm's source of electricity was a set of Leyden jars connected by brass rods. In 1831, Joseph *Henry* discovered that electricity is induced in a conductor as a result of a magnetic field. It led to the discovery of the transformer. None of these early electrical scientists every realized the magnitude of their discoveries — but they can never be forgotten.

Tnx - W5YI REPORT