

# HAM RAG

Affiliated with ARRL

NET meets each Monday at 9:00 P.M. local time on 28.7 megahertz



SUMPUN HE CALLS RADDYOH!  
SEZ HE'S COMMUNICATING.

WELL, WE'RE NOT SURE THAT THIS IS HOW IT WORKS, BUT DAVE PIPPITT  
WILL BE AT OUR SEPT MEETING TO EXPLAIN THE DETAILS OF

### BIOTELEMETRY

SEE YOU AT THE MEETING, FRIDAY, SEPT 12, 1975, at ROCK VALLEY COLLEGE

BUILDING CL 1, ROOM 222, 7:00 PM

PRESIDENT'S LOG

Vacations, for the most part, are over, and we will be returning to a full schedule of fall activities.

The Ham-Fest was a success; and, by our September meeting, we will have a full report of our earnings. I want to thank all of the members of R.A.R.A. who helped by selling tickets and at the food wagon.

As I write this, I am sorry I am unable to report how many passed or failed the F.C.C. examinations. The examiners did a fine job of giving the examinations.

I received a letter from the F.C.C. where a party had asked for an extension until September 16 for Docket 20282. The F.C.C. refused stating that August 16 was the last day for acceptance and that the work on the docket must begin.

Plan to attend our September meeting and be brought up to date on the plans for the remainder of 1975.

Dave Pippett of Rockford College will present the program at the September meeting. He will talk on Biotelemetry, the implanting of transmitters in animals.

The Board of Directors is working on the Constitution and By-Laws; and as soon as they are ready, they will be presented to the Club.

This edition of the Ham-Rag was prepared by Art, WB9HNJ, and Mick, W9NKQ. Art has stepped into the vacancy created by Stu, K9VJE, who left the area. I am sure all the members in R.A.R.A. will give Art any help he may ask for in the future. Let's keep him well supplied with material that will make his job easier.

See all of you at the September meet.

73 — John Wacker

September 2, 1975

*Paul*

## PUTTING THE R 508 TO GOOD USE.

By. ART NELSON WB9HNJ

THE R-508 IS A PRODUCT OF ABOUT TEN YEARS OF EVOLUTION OF THE COMMAND TYPE RECEIVERS. THE R-508 IS A NINE TUBE VHF RECEIVER COVERING THE FREQUENCIES OF 118 TO 148 MHz. THE UNIT IS CONTINUOUSLY TUNABLE OVER THE ENTIRE RANGE, BUT UNLIKE THE ORIGINAL COMMAND SET THE 508 HAS NO DIAL INDICATING FREQUENCY. THE DETECTOR IS A.M. BUT BY "SLOPE DETECTION" YOU CAN COPY F.M. SIGNALS VERY WELL.

### CONVERSION

THE CONVERSION OF THE 508 IS REALLY VERY SIMPLE. ALL THAT NEED BE DONE IS TO REWIRE THE FILAMENTS FOR 12 VOLTS, AND ADD AN R.F. GAIN CONTROL. REWIRING THE FILAMENTS FOR 12 VOLTS IS VERY EASILY DONE. THE 14 SERIES TUBES AND THE 12A6 HAVE 12 VOLT FILAMENTS SO SIMPLY WIRE THESE IN PARELLEL. THE FOUR MINIATURE TUBES IN THE FRONT OF THE RECEIVER ALL HAVE 6 VOLT FILAMENTS SO THEY MUST BE WIRED IN SERIES PARALLEL. FOLLOW FIGURE 1 FOR THIS.

THE NEXT STEP IS TO ADD THE R.F. GAIN CONTROL. TO DO THIS FIRST REMOVE J-301 FROM THE FRONT. THIS IS THE TWO PIN JACK. IN ITS PLACE MOUNT A 25K POT. CONNECT A WIRE FROM THE CENTER TERMINAL OF THE POT TO GROUND. CONNECT ANOTHER WIRE TO EITHER OF OUTSIDE TERMINALS OF THE POT. THEN CONNECT THIS WIRE TO PIN E OF J-302.

FOR THE FINAL CONVERSION FOLLOW THESE STEPS. CONNECT PIN B OF J-302 TO GROUND. THIS NEXT STEP IS VERY IMPORTANT, IF THIS IS NOT DONE THE UNIT WILL NOT OPERATE. EXPOSE THE WIRING OF J-303 BY REMOVING THE SIX SCREWS HOLDING IT IN PLACE. REMOVE THE RED WIRE FROM PIN A AND RE-SOLDER IT TO THE RED WIRE ON PIN E. THIS ENDS THE CONVERSION.

### OPERATION

TO USE THE RECEIVER YOU MUST ASSEMBLE A POWER SUPPLY THAT WILL SUPPLY 12 VOLTS AT ONE AMPERE AND 200 TO 250 VOLTS D.C. AT 80 MILLIAMPERES. ANY TYPE OF SIKPLE POWER SUPPLY WILL WORK. YOU WILL ALSO NEED A SPIN TUNING KNOB WHICH WILL COST \$1.50 AND IS AVAILABLE FROM FAIR RADIO SALES. IN TUNING, TURNING THE KNOB TO THE LEFT TAKES YOU HIGHER IN FREQUENCY, AND TO THE RIGHT TAKES YOU LOWER IN FREQUENCY. USES FOR THIS RECEIVER INCLUDE AN AIR-CRAFT MONITOR, WEATHER RADIO, TWO METER RECEIVER AND MANY MORE. COST IS ABOUT 1 TO 10 DOLLARS FOR THE RADIO AT HAM FESTS.

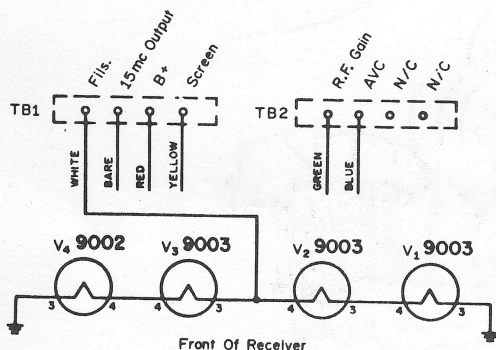
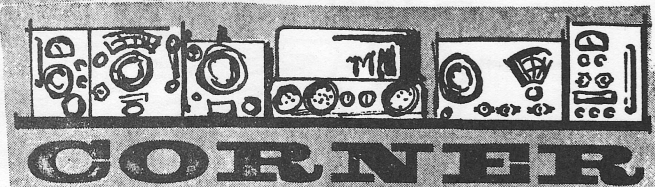


Fig. 1—Filament re-wiring for the 6 v. tubes in the preselector. The 12 v. filaments of the other tubes in the set are simply wired in parallel.

# SURPLUS



It was just about one year ago that 17 2m enthusiasts met at the home of Mick, W9NKQ and discussed the possibility of a local repeater.

From then on it was planning, work and more work. We currently enjoy one of the finest repeaters on the air in this part of the country. Comments by fellows mobiling through the area will attest to it too.

However, 1976 will be a year for more planning-and work-to improve and expand the services of EARS and WR9AES.

The next meeting of E.A.R.S. will be Sunday, Sept. 21 at 7pm. at the Red Cross building on N. Church Street, Rockford. It is imperative that all members and prospective members be there because important items will be on the agenda.

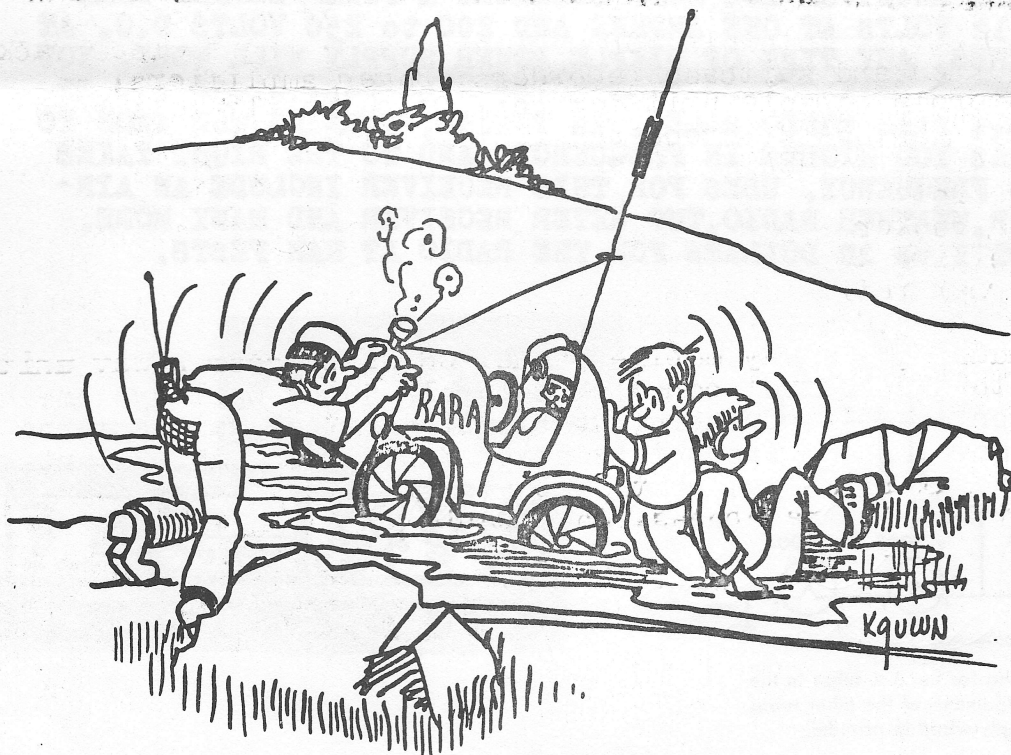
Just some of them are:

1. Appointment of nominating committee for officers for 1976. Election to be in December or January.
2. Discussion of expansion of auto-patch to area towns of Belvidere, Roscoe, etc.
3. Discussion of the use of VAR for monitoring during night hours to give 24 hour repeater operation.
4. Plans for up-dating and improving existing equipment.
5. YOUR opportunity to ask questions, express your opinion on above topics or any pertinent point of the repeater operations.
6. Fine time to have an eye-ball with fellows you talked to on the air but seldom(or never) met.

This is a very important meeting and efforts will be made to keep the meeting as short as possible but cover the topics in depth. Your participation will be needed to make it a success. MARK YOUR CALENDAR NOW.....

Thank you.

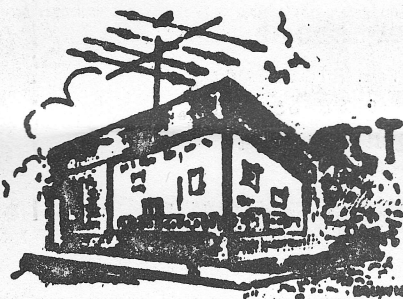
*Paul Klein*  
Paul Klein Sec. E.A.R.S.



4  
LET'S ALL GET BEHIND RARA AND PUSH!

STOLEN: One ICOM IC-230 serial number 2736, mounting bracket, home brew touch-tone pad (black crackle finish) less microphone. Watch all hamfests for this unit. Taken from P.D. "Nick" McBride W9NKG

WANTED: Your articles and adds for the Ham Rag. Mail them to: Art Nelson WB9HNJ 7650 Park St. Rockford Ill. 61103 All articles must be at my house no later than the first of the month.



## THE TRADERS CORNER

FOR SALE: 20M 1KW GG Linear Amplifier, Homebrew (worked 300 DXCC).  
-Can be modified for all-band operation.  
-Single 4-400A or PL-175A w/spares.  
-Whisper fan cooling; vacuum variable tuning capacitor.  
-Husky power supply; 2-872As with time delay on fil.  
-Power xfmr. from Collins KWL, 110 or 220V primary.  
3200-0-3200V. 1A secondary.  
-19" Rack mounting, black finish.  
- \$125 firm.

Al Friedman, W9YRA. 5911 Alma Dr. 399-0118.

FOR SALE: (2) 8-el. Hy-gain 2M beams; T-23 ARC-5 Xmtr (2M); ARC-5 receivers, complete set 200KC to 9.1MC; Browning labs multiplex receivers. Motorola T43GGV Xcvrs; Motorola 80D Xcvrs; Motorola 30D mobile & base; Magne recorder rack mounted and suitcase recorders; Bogen amplifiers; Motorola console unit for car; Delco mobile telephone unit 25W; HEATH Seneca 6 & 2 mtr. xmtr; Hallicrafters SR-42 xmtr; HEATH DX-100; Oscilloscope for video CCTV; Motorola HT-200; (2) 5 el. 6M Telrex beams; 5 doz. hot dog cooker & bun warmer; 10-15-20 Mtr Beam; Regency HR-212; Shelving & standards; Collins 51M6 receiver; 19" rack; Corner reflector ant. for 2M; 5/8 gain antennas; J-pole antennas; Coaxial antennas; 35-55 MC & 146-152 MC unipoles; Industrial 2-way mobile phone; GE dispatcher 2-way unit; Motorola control console; Motorola Quick-Call system; Precise VTVM; Cushcraft 6DB omni vertical gain antenna (2M); Communication Products Station Master 6DB omni 2M ant; Several rotators, control boxes; Microwave gear 6GC -14GC; 4ft. & 7ft. parabolas; Coax cable; Numerous other articles, Call Herb, K9AMJ. 399-6822.

**TRADER'S CORNER CONTINUED**

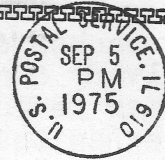
**FOR SALE: GET ON TWO METERS FOR PEANUTS! ONE MOTOROLA T43GGV TRANSCEIVERS.** Already twin-frequed. Complete with crystals for 94-94, control head, cables, mike and speaker. Only \$35.00. Two T43GGV transceivers only with tubes. \$7.50 each. Two element 40 Meter short beam. Rebuilt Mosley with new elements. Complete with RG8-U from transformer to mast. \$10.00.  
Larry Kleber, K9LKA/W9CPD. 544-2075 or 544-3794.

ROCKFORD AMATEUR RADIO ASSOCIATION, INC.  
P.O. BOX 1744 Rockford, IL 61110

1975 BOARD OF DIRECTORS

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FIRST CLASS