

HAM RAG

Affiliated with ARRL

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



NOVEMBER 1975

SEE PAGE FOR AN IMPORTANT NOTICE ABOUT
GETTING YOUR NAME RIGHT IN THE DIRECTORY
COMING OUT IN THE DECEMBER HAM RAG.

MEETING DATE
NOV. 14, 1975
7:00 PM ROOM 222
ROCK VALLEY COLLEGE

PROGRAM :

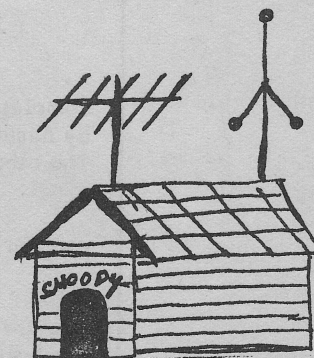
THE RFI BILL

DAN RASMUSSEN WA9UBE MAY BE THE WORLDS BEST
AUTHORITY ON RFI AND HE WILL BE AT THE MEET-
IN TO DISCUSS THE RFI BILL PRESENTLY BEFORE
THE FCC. THIS IS A SUBJECT THAT CONCERNS ALL
HAMS AND YOU SHOULD BE THERE TO SEE WHAT DAN
HAS TO SAY ON THE SUBJECT.

ALSO

PAUL DEAN WB9HGZ
WILL HAVE SOMETHING FOR US.

BE THERE.



THE PRESIDENT'S LOG

It is that time again — for a news letter from the Club.

Our October meeting had a good turnout, although we missed seeing some of the familiar faces. The program by Dave Pippitt was very well presented. After the presentation, Dave gave those present a chance to look and touch some of the equipment used in Biotelemetry.

The election was held, and a list of Officers and Directors will appear in this issue of the Ham-Rag.

We want to congratulate the new Novices in the area and hope to see them at future meetings. If any of our members know of any of these Novices, please bring them along to the meetings.

I would like to encourage all the new Novices to get on the air as soon as possible and to make good use of their tickets. Remember that the more you are on the air, the better you become at Code, which is still a requirement for upgrading your license. Two years go by in a hurry, believe me, because I have experienced it; and I can't urge you strongly enough to use that ticket.

Plans for our annual Christmas party are being worked out at this time. Please watch the mail for details and return the enclosed card with your reservation.

We need articles for future publication in the Ham-Rag. Elsewhere in this issue, you may read such a request for articles. Remember, the Ham-Rag needs these articles in order to continue to be the good reading it has been in the past.

I would be interested in hearing from the members about any ideas you might have concerning future programs you would like to have presented at our meetings. Feel free to call any officer or director of the club with your suggestions.

See you at the November meeting!

73 John Wacker

WN9SGF

October 23, 1975

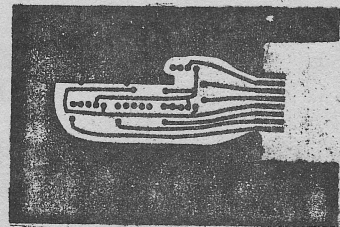
* * * REQUEST FOR VERIFICATION * * *

Again, the December issue of your HAM RAG will include two complete directories of current RARA members. One will list alphabetically by name, and will include call sign, address, zip, and telephone number. The other will be alphabetically by call, showing names only.

ONLY PAID UP MEMBERS OF RARA WILL BE LISTED, so if you still owe for your dues, please pay up at the November meeting.

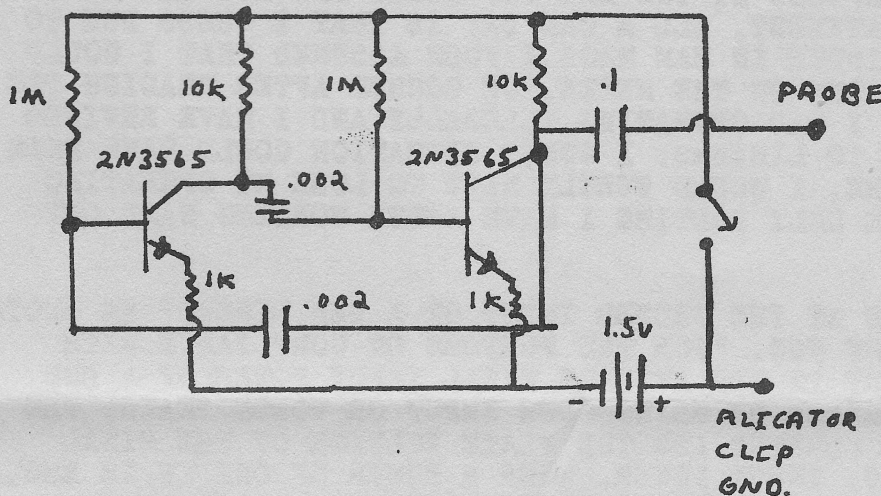
The mailing label on this November HAM RAG shows exactly how you are listed now. If your name, call, address, zip, and telephone number are not the way you want them, please see Bill, WB9KOS, at the November meeting or phone him at 877-2315 before this meeting if you can not attend. Much time goes into preparing this directory and getting it printed, so please look now at your address label, and if any changes are needed, call Bill promptly. Copy will be frozen on November 20th.

A FEW CIRCUITS...



HERE IS A CIRCUIT THAT WILL ALLOW YOU TO RUN YOUR TELETYPE PAGE UNIT FROM A TTL DIGITAL SOURCE. THIS CIRCUIT WAS DESIGNED TO MATCH THE OUT

PUT OF THE ALTAIR 8008 COMPUTER TO A MODEL 15 PAGE PRINTER. THE TWO 2N3612 TRANSISTORS SHOULD BE MOUNTED ON HEAT SINKS. ALL RESISTORS ARE HALF WATT CARBON. TNX TO KERRY TATLOW, ART WB9HNJ, AND PAUL MITKUSEVITCH FOR THE CIRCUIT AND JIM WA9BNK FOR THE IDEA.



HERE'S ANOTHER GOODIE. HOW MANY TIMES HAVE YOU NEEDED AN AUDIO SIGNAL INJECTOR WHEN YOU WERE TRYING TO FIX OR DE-BUG AN AUDIO CIRCUIT. THIS LITTLE ONE IS EASY TO BUILD AND WORKS VERY WELL. CASE STYLE AND SIZE IS UP TO YOU BUT I HAVE SEEN ONE BUILT IN AN ERSIN TYPE SOLDER TUBE. TNX TO PAUL COX WA9PBQ FOR THIS ONE.

NOW'S YOUR CHANCE TO PUBLISH THAT LITTLE CIRCUIT OF YOURS THAT EVERYONE SAID WOULD NOT WORK BUT DID. SEND THEM TO ME THE EDITOR. WE'LL SHOW EM.



THE LONG WAIT BY THE PHONE HAS FINALLY ENDED FOR TO LOCAL HAMS. BOTH MICK W9NKQ AND GEORGE WB9BHY HAVE RECOVERED THEIR LOST TWO METER RIGS, WITH THE HELP OF ROCKFORDS FINE LAW ENFORCEMENT MEN AND A FEW OTHER PEOPLE. I GUESS IT WILL BE A WHILE YET BEFORE WE HEAR F.M. ON ELEVEN METERS .

WE'RE RUNNING TWO KILOWATTS HERE OM!
BY LARRY KLEBER, K9LKA W9CPD

TUNING ACROSS THE 20 METER BAND ONE EVENING A 5TH DISTRICT SSB SIGNAL WAS HEARD THAT MORE THAN PINNED THE NEEDLE OF THE 75A-4. IN VIEW OF THE FACT THAT VERY FEW SIGNALS WERE AUDIBLE WE DECIDED TO READ THE MAIL ON THIS SUPER SIGNAL. HE HAD JUST MADE CONTACT WITH A STATION IN THE 6TH DISTRICT AND BEFORE LONG HE GAVE A RUNDOWN ON HIS GEAR ENDING WITH A HOME BREW LINEAR USING A 4-1000 RUNNING 490 MA. AT 3000 VOLTS, AN INPUT POWER OF 1,960 WATTS. 960 WATTS MORE THAN THE LEGAL LIMIT.

AFTER CAMPING ON HIS FREQUENCY UNTIL HE FINISHED THE QSO I MADE CONTACT WITH HIM AND OFFERED SOME CONSTRUCTIVE CRITICISM OF HIS INPUT AND ATTEMPTED TO EXPLAIN HOW TO ARRIVE A PEAK ENVELOPE POWER. WE WERE IMMEDIATELY TOLD, IN NO UNCERTAIN TERMS, THAT HE WAS OPERATING LEGALLY AND THAT ON SSB A 2KW INPUT WAS ALLOWED. THEN HE CALLED MY ATTENTION TO THE ADS FOR 2KW LINEARS IN THE HAM MAGAZINES AND ENDED THE QSO WITH "GET WITH IT". THE FOLLOWING DAY I WROTE HIM A LETTER AND SUGGESTED THAT HE READ THE EXPLANATION OF PEP IN THE HANDBOOK.

A FEW DAYS LATER I CONTACTED A 4TH DISTRICT STATION ON SSB ON 20. HE WAS USING A PAIR OF 4CX250B_s RUNNING 800MA. AT 2000 VOLTS. AN INPUT OF 1,600 WATTS. OUR QSO WAS FOLLOWED BY A LETTER OF EXPLANATION. HIS REPLY FOLLOWS; "DEAR OM THANKS VERY MUCH FOR YOUR LETTER. TO SAY THAT I WAS CONFUSED BY THE 2KW PEP LIMIT AND HOW YOU ARRIVED AT IT WAS NO UNDERSTATEMENT. ALL A CAN SAY IS THAT I GUESS DUE TO ALL THE 2KW FINALS LISTED IN HAM MAGS I JUST ASSUMED THAT I COULD KICK THE FINAL UP TO 2KW ON THE METER. OF COURSE AFTER READING THE HANDBOOK I FIND THAT I WAS OPERATING ILLEGALLY AND I HAVE REVISED MY IDEAS ABOUT INPUT TO LINEARS. I GUESS SITUATION COULD HAVE BEEN VERY UNPDEASANT FOR ME. I WOULD SURELY HATE TO LOSE MY OPERATING PRIVILEGES. IT IS THE ONLY PASTIME I HAVE AFTER WORKING HARD OUT-DOORS ALL DAY.

HOW DO YOU ARRIVE AT THE PROPER INPUT OF A SSB LINEAR? WE QUOTE FROM A LETTER FROM THE FCC. "FOR THE PURPOSE OF COMPLIANCE WITH SECTION 12.131 OF PART 12 THE AVERAGE FINAL INPUT POWER OF A SSB TRANSMITTER IS DETERMINED BY USING TONE INPUT OR VOICE PEAKS. THE PRODUCT OF THE PLATE CURRENT AND THE PLATE VOLTAGE OF THE FINAL WILL SHOW THE THE D.C. INPUT POWER. WHEN A POWER OF ONE KW IS SHOWN THE PEP ON VOICE PEAKS WILL EXCEED THAT VALUE."

NO ONE WOULD SUGGEST THAT YOU MUST BE AN ENGINEER TO BE A HAM BUT CERTAINLY IT ISN'T ASKING TOO MUCH THAT YOU, AT LEAST, KNOW HOW TO PROPERLY ADJUST THE EQUIPMENT THAT YOU HAVE BEEN LICENSED TO OPERATE.

UPCOMING ACTIVITIES

EARS MEETING, DECEMBER 14, AT 7:00 PM AT RED CROSS ON CHURCH STREET.
RARA CHRISTMAS PARTY, DECEMBER 13, AT THE ELKS CLUB ON JEFFERSON.

P O T P O U R R I

W9RGU Monday 28.700 kHz 9pm local Emergency Net checkins have fallen off in the past few months --average 7-8 since Labor Day. We miss several old timers and encourage you who have not joined us in the past, let's hear from you on ten meters. The EARS 2M. new antenna at 175' is radiating RF at this time, Saturday PM 2:30 Nov.1st. K9AMJ Herb, despite a sore leg, just replaced a bum transmission line connector at the top (they never, never are defective at ground level). The new skyhook sounds very good - tests will be made West and Southwest of Rockford to see if service is improved in those areas. The repeater group now has more than 70 members. Latest to join are K9KXS Andy, K9BUA Wes, K9ITW Tom, WA2AAH/9 Ed, and WB2REM/9 Jim. A quarterly meeting of EARS is scheduled for Dec 14 7PM Red Cross Bldg. Two agenda items are: election of officers and membership dues for 1976. The W9DXCC annual bash Sept 20 in Itasca was attended by K9YRA Al, K9UIY Vic, K9LKA Larry, W9DDL Dennis and WB9HHH Ralph. 226 DXers and many guests had a real fun day. WB9LOM Jerry is the latest to go for DXCC. His Heathkit station with a new SB220 will do it FB if he will keep current on his QSLs and can find the bread for the IRCs. Our RARA president WN9SGF John is also into DX on 40 M. with a JE contact(Japan) on Oct 30th. It is reported that the exhilarating experience caused a night of zero hours sleep. That's quite OK John, same here except it was a JA. A local nightowl is highly complimentary of the Big Thunder (Belvidere) Halloween 2M. mobile roaming patrol - says it is very capably handled by very business like goblins. K9YRA Al is pictured in September CQ in recognition of his position in the CQDXSSB 20M. Honor Roll. The National Weather Service station KWO39 162.55 MHz has more than tripled its power with a new antenna on Sears Tower, Chicago. A good beam on a high tower should pick it up here. WB9KOT Clyde is tearing up 40M. on CW with a new SB230 linear amplifier. Speaking of Heath, who will be the first to assemble one of their hand held one watt 2M. transceivers? With the Touchtone pad (40. xtra) it certainly looks nice in the catalog photo. Any antenna repair or installation work this Fall has been delayed by adverse WX conditions. October was neither cold or icy enough for such work. K9VJE Stu, assuming you receive the HAMRAG, how are things in the shadow of WWV? You are missed every day here on .61. The last item, a notable one, - RARA has a new member WN9SFT, XYL of WB9MMM Gene. Her name is Sherry. All the male chauvinist pigs are happy to welcome you, Sherry.! And I can't wait to hear you check in to YLISSB 14.333 1600Z.

de WB9HHH

E.A.R.S. AUTO-PATCH

The auto-patch has been expanded to include the following cities;

BELVIDERE
BYRON
CALEDONIA
CHERRY VALLEY
NEW MILFORD
POPLAR GROVE
ROCK CUT
ROCKFORD-LOVES PARK

ROCKTON
ROSCOE
SHIRLAND
SO. BELOIT
STILLMAN VALLEY
WINNEBAGO

To help you identify these towns by phone numbers, the following list of numbers are the first three digits of phone numbers that may be called via the auto-patch.

ALL OTHER NUMBERS ARE TOLL CALLS AND MUST NOT BE CALLED ON THE ROCKFORD REPEATER.

- | | |
|---------------------------|----------------------------------|
| 226 - Rockford-Loves Park | * 765 - Caledonia - Poplar Grove |
| * 234 - Byron | |
| | * 874 - New Milford |
| * 332 - Cherry Valley | 877 - Rockford-Loves Park |
| * 335 - Winnebago | * 885 - Rock Cut |
| * 389 - So. Beloit | |
| 397 - Rockford-Loves Park | 962 - Rockford - Loves Park |
| 398 - " " " | 963 - " " " |
| 399 - " " " | 964 - " " " |
| | 965 - " " " |
| * 542 - Belvidere | 968 - " " " |
| * 543 - " | 987 - " " " |
| * 544 - " | |
| * 547 - " | |
| | |
| * 623 - Roscoe | |
| * 624 - Rockton | |
| * 629 - Shirland | |
| 633 - Rockford-Loves Park | |
| * 645 - Stillman Valley | |
| 654 - Rockford-Loves Park | |

* indicates need for "1" prior to the number being called.

A REMINDER: To activate the auto-patch, first the lb. (#) and then the star(*).
To shut down the auto-patch, use the Lb.(#)sign, EVEN if the repeater times out.
ONLY mobiles may use the auto-patch.
NO business use permitted.
Give your call sign at start of auto-patch transmission.
Give your call sign and repeater call sign(WR9AES) at end of transmission.
ONLY members of E.A.R.S. are permitted to use the auto-patch.(other than hams passing thru on vacation etc)
Contact officers or control stations via the repeater or land-line for any questions or problems.

AT THE LAST BOARD MEETING THERE WAS SOME DISCUSSION ON THE HAM RAG AND MOST PEOPLE FELT THAT I WAS TRYING TO TURN IT IN TO A TECHNICAL PAPER INSTEAD OF A NEWS LETTER. THE TIME HAS COME FOR THE GRIPERS TO STOP GRIPING AND START WRITING SOME NEWS IF YOU WANT A NEWS LETTER. SEND YOUR NEWS TO ART NELSON WB9HNJ 7650 PARK STREET ROCKFORD ILLINOIS 61103. ITS EITHER THAT OR BACK TO THE TECHNICAL STUFF.

READ READ READ READ READ READ READ READ READ READ READ READ READ

TAKEN FROM THE NOVEMBER S.P.E.S.M. NEWSLETTER BY TED WA9FET ELGIN ILL.

You lost 1645 MHz a few years ago in a closed door committee decision. Now, petitioners are demanding immediate action on Docket 19759 and establishment of Class E in the 220-225 Mhz Amateur band. HIRAN is wanting to share 420-450 Mhz on a non-interdering basis, Docket 20147.

Carefully concealed and carefully dealt off the bottom of the deck, a card at a time, over twenty years, is a series of legal, little publicized committee decisions that resulted in a complete re-allocation of all frequencies from 25-890 Mhz. You are going to lose 6, 2, 220, and 432.

The FCC ignored 15 $\frac{1}{2}$ years of Amateur experience on 5, 2 $\frac{1}{2}$ meters, and the FCC botched up the original TV channel allocations so thoroughly, with no help from the networks, that it now requires a complete reshuffling of the allocations. Now the networks are hoping to take over six meters for channel one.

The business radio interests are making hay while the sun shines. Through a very well organized series of moves over a ten year period, these people are completely relocating the entire radio spectrum over 25 Mhz, so don't think they haven't divied up and dealt out our VHF Amateur bands into the reallocation pot long ago.

Amateurs can keep their VHF-UHF bands! It is going to take a lot of work and a lot of political influence, a well-placed foot on certain individual's posteriors or any other quaso-legal action to improve the amateur image and rights.

We have to band together in an all out effort to expand amateur radio. This expansion can only come in higher frequencies and this is why the Technicians can do the job. The Technician opened 6 into the band it is today. Before you gentlemen showed everyone how, 6 was deader in the peak of a sun-spot cycle than 10 is now. You must open other bands.

There are several well organized clubs across the country like SPESM, SMIRK, 6 MIKE, NCSMA, RATS abd ARRL that are supporters of the VHF-UHF bands. Become associated with them. Get on the air and create some activity on the bands. Write letters to your Congressmen about dockets you don't like. Who knows, you may be working on a new band soon.

AL FRIEDMAN W9YRA TOOK THIRD PLACE IN ILLINOIS IN THE 1975 ARRL INTERNATIONAL DX COMPETITION WITH A SCORE OF 133,722 POINTS. VIO K9UIY TOOK EIGHTH PLACE IN ILLINOIS WITH AN UNKNOWN TO US SCORE.

TRADER'S CORNER

Free service to members of RARA.

Deadline for copy = two weeks before next meeting.

Mail, phone, or hand copy to HAM RAG Editor.

FOR SALE RT-70/GRC TRANSCEIVERS, NEW MILITARY SURPLUS. 47-58 MHz
.75 WATTS OUTPUT, DUAL CONVERSION RECEIVER. COVERS THE
ENTIER SIX METER BAND, F.M. BOTH TRANSMITTER AND RECEI-
VER CONTINUOUSLY TUNEABLE. \$28.00 (limited quantity).
RT-70/GRC MANUALS \$5.00 NEW
MISC. SMALL PARTS FOR SALE CALL FOR WHAT YOU NEED.
DALE WA9BWK 398-7591 AFTER 5:30pm WEEKDAYS.

STOLEN HR-2B SER. NO. 49-01332, REGENCY ACPR-10HLU SCANNER
SER. NO. 185-A18121, HOME BREW AUTO PATCH WITH LIGHTED
NUMBERS, PACE C.B. 123-A SER. NO. 2207911. STOLEN AT
CHERRY VALE FROM GARY WA9HLJ IF SPOTTED CONTACT HIM.

WANTED SIX METER TRANSCEIVER. ALL BUT GONSET G-50.
CALL JIM MICHNA AT 968-7380 WB9RBY

FOR SALE BEARCAT CRYSTALS. 146.520, 146.760, 147.750, 161.670.
THESE CRYSTALS WILL WORK WITH ANY SCANNER WITH A 10.8
MHZ I.F. \$4 EACH CALL BOB WN9QPP AT 226-8074.

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



Paul Dean, WB9HGZ
317 Shaw Street
Rockford, Il. 61108

397-6363

FIRST CLASS