

HAM RAG

Affiliated with ARRL

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



APRIL 1972

IN THIS AGE OF COMPUTERS, BUREAUCRATES, AND SERIAL NUMBERS, IT'S A GOOD FEELING TO THINK YOU MAY HAVE A "VOICE" IN A LARGE ORGANIZATION, LIKE THE ARRL.

JUST AFTER THE LAST HAM RAG CAME OUT, WHERE I EDITORIALY "SHOT DOWN" THE ARRL FOR NOT RESPONDING WITH VIGOROUS OPPOSITION TO THE 220 MHZ. BAND C.B., I HEARD THAT THE ARRL BROKE PRECEDENCE AND FILED STRONG COMPLAINTS WITH THE FCC EARLY IN THE GAME. I CAN'T HELP BUT FEEL THAT IT WAS A LITTLE "HELL RAISING" BY CLUBS LIKE OURS THAT PROMPTED THE BOYS IN NEWINGTON TO FILE THE COMPLAINT. SO, I REACHED UP THE OTHER NIGHT AND PULLED THAT GIANT HAT PIN OUT OF THE ARRL DOLL AND PUT A BAND-AID OVER THE WOUND.

NOT ONLY DID THE ARRL COMPLAIN ABOUT THE POSSIBLE DELETION OF AMATEUR FREQUENCIES, BUT THEY ALSO REQUESTED A COMPLETE INVESTIGATION OF THE PRESENT CITIZEN'S BAND. DON'T THINK YOU'LL FIND TOO MANY PEOPLE THAT WILL DISAGREE WITH THE NEED FOR THIS... EVEN THE CB'ERS THEM SELVES IS MOST CASES ARE FED UP WITH TYPICAL ACTIVITIES ON THE 11 METER FREQS. SO, ARRL, CONGRATS TO YOU FOR FINALLY STANDING UP AGAINST CB, EVEN THO IT TOOK YOU 13 YEARS TO DECIDE TO DO IT.

THIS MONTH WE HAVE STARTED THE HAM OF THE MONTH COLUMN. THE PURPOSE IS TO ACQUAINT YOU WITH SOME OF OUR MEMBERS... AND WE ARE VERY PROUD TO START OFF THE COLUMN WITH A VERY DISTINGUISHED MEMBER OF RARA, WA9WMI. FOR MANY OF US, HAM RADIO IS NOT OUR LIFE... ALTHOUGHT WE MAY LIKE IT TO BE. BUT FOR ERL, IT IS, AND FOR MANY OTHER HANDICAPPED AMATEURS IT IS ALL THEY HAVE. NOW, A REQUEST HAS FILTERED DOWN TO THE CLUB THAT PERHAPS SOME MEMBERS OF OUR LOCAL BLIND ASSOCIATION WOULD LIKE TO GIVE AMATEUR RADIO A TRY. BOY, I WOULD THINK IT WOULD BE AS MUCH A CHALLENGE FOR THE INSTRUCTOR TO TEACH THEM AS IT WOULD BE FOR THE BLIND TO LEARN. AS YOU KNOW, WE COUNT MANY BLIND AMONG OUR RANKS NATIONALLY, AND THERE ARE MANY DEVICES AVAILABLE TO ASSIST THE BLIND IN OPERATING AN AMATEUR STATION. SO, ANYONE INTERESTED IN TAKING ON A PROJECT SUCH AS THIS??

HOPE TO SEE YOU ALL AT THE UPCOMING MEETING, APRIL 14TH.

73, DE K9PAK

Memo from the President



THANKS TO AL, K6YRA/9, FOR SHOWING US HIS SLIDES OF THE CALIFORNIA KILOWATTS, AND BIG BEAMS. VEEERRRY INTERRESTING, AND NOW WE KNOW WHY THEY ARE SO LOUD.

THE CLUB CALL, W9AXD, WAS ACTIVE IN THE ARRL DX CONTEST. OPERATORS WERE K6YRA, K9UIY, AND K9WTS. THE CLAIMED SCORE IS 782,280 POINTS, 984 QSO'S, AND 265 BAND/COUNTRIES. ON 20 METERS ALONE, 103 DIFFERENT COUNTRIES WERE WORKED IN 538 CONTACTS. (WHO SAID DXCC WAS HARD?) PROUD TO ANNOUNCE THAT W9HPG, PHIL

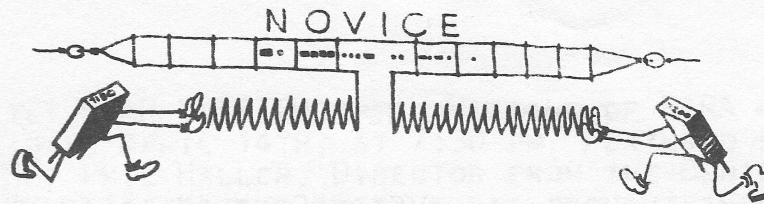
HALLER, HAS ACCEPTED OUR INVITATION TO SPEAK AT THE APRIL MEETING. IT HAS BEEN THREE YEARS SINCE HIS LAST VISIT, AND AT THAT MEETING WE HAD AN ATTENDANCE OF 60, AND MANY FAVORABLE COMMENTS WERE HEARD AFTER THE MEETING. ASK YOURSELF "WHERE WOULD HAM RADIO BE WITHOUT THE ARRL?" NO FIELD DAY, NO W1AW, NO QST, NO DXCC, ETC. ARRL IS THE BACKBONE OF AMATEUR RADIO, NO QUESTION ABOUT IT. PHIL WILL TALK ABOUT THE ARRL, THE LATEST PROPOSED CHANGES IN REGULATIONS, AND ANSWER QUESTIONS. HE WILL ALSO LISTEN TO OUR OPINIONS SO HE CAN REPRESENT US AT THE NEXT BOARD MEETING, THAT IS FRIDAY, APRIL 14TH, 7:30 P.M., AT ROCK VALLEY COLLEGE... A MEETING YOU CAN'T MISS.

PHIL, WN9HVK, HAS BEEN APPOINTED TO CHAIRMAN FOR THE NOVICE STATION AT FIELD DAY, COMING UP IN JUNE. I WOULD LIKE TO FIND A FEW KEY PEOPLE THAT ARE WILLING TO CARRY THE BALL AND BE STATION MANAGERS. IF YOU WANT TO ASK QUESTIONS... OR PERHAPS EVEN VOLUNTEER... CALL ME AT 398-8289. WITHOUT YOUR HELP THERE WON'T BE ANY ACTIVITY.

73, DE K9WTS... THE CHIEF!

BOARD OF DIRECTORS MEETING

THE RARA BOARD MET ON MARCH 21ST AT K9WTS'S QTH. THE BOARD ACCEPTED THE OFFER FROM PHIL, WN9HVK, TO HEAD A NOVICE STATION AT FIELD DAY. THE BOARD VOTED TO INSTITUTE THE CLUB CONTEST WITH THE WINNER RECEIVING A TROPHY AT THE XMAS PARTY. AN HONORARY MEMBER STATUS WILL BE INSTITUTED. EACH HAM RAG WILL FEATURE A HAM OF THE MONTH COLUMN TO GIVE A SHORT BIOGRAPHICAL SKETCH OF A MEMBER. A HAM OF THE YEAR TROPHY WILL BE PRESENTED AT THE XMAS PARTY TO A MEMBER WHO MAKES A SIGNIFICANT CONTRIBUTION IN THE FURTHERENCE OF THE CLUB AND AMATEUR RADIO. THE BOARD ASKED ETH AND PAK TO LOOK INTO THE CLUB QSL SITUATION. THE PROPOSED DESIGN WILL INCLUDE A BACKGROUND OF AN AERIAL VIEW OF ROCKFORD WITH THE CALL LETERS SUPERIMPOSED. SPACE FOR WRITING-IN QSO INFORMATION WILL BE ON THE BACK. FINALLY FURTHER ADMENMENTS TO THE CONSTITION WERE DISCUSSED. PROPOSED IS A CHANGE TO A BOARD OF DIRECTORS CONSISTING OF EIGHT MEMBERS: THIS YEARS AND LAST YEARS OFFICERS. SHOULD AN OFFICER BE REELECTED A SECOND TERM, THE VACANCY TO ROUND OUT THE BOARD TO EIGHT WILL BE FILLED BY APPOINTMENT BY THE BOARD. THIS CHANGE WILL MAKE ELECTIONS RUN MORE SMOOTHLY THAN IN THE PAST AND WILL KEEP THE IMMEDIATE PAST OFFICERS ON THE BOARD TO ACT AS EXPERTISE. GUNNY FURNISHED COFFEE AND COLD DRINKS AND BUD BROUGHT SWEETS TO FATTEN THE BOARD MEMBERS. THE NEXT BOARD MEETING WILL BE APRIL 18 AT WB9CHU.



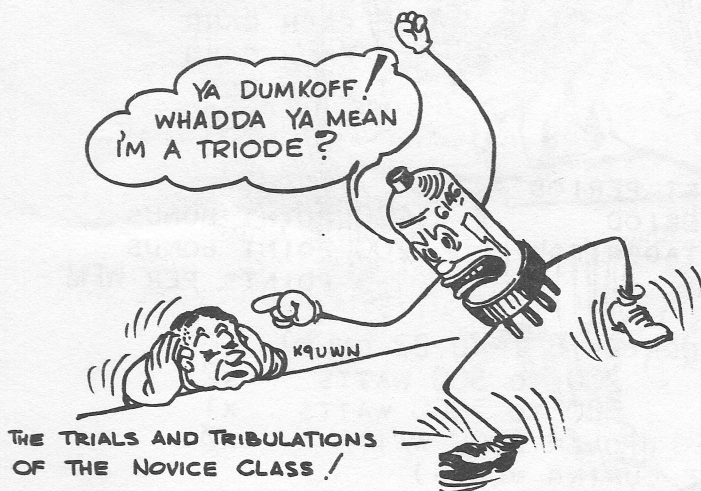
WITH ALL THE LIDS WE HEAR ON THE NOVICE BANDS, WE SHOULD ALL BE LEARNING HOW NOT TO SEND CW. I FREQUENTLY HEAR NOVICES CALLING CQ FOR LONG PERIODS OF TIME, GETTING NO RESPONSE FROM ANYONE. SOME OF THEM MAY SEND CODE QUITE WELL BUT ARE TOO FAST FOR US TO COPY. A GREAT MANY RUN THE CHARACTERS TOGETHER OR OTHERWISE SEND SO POORLY THAT WE TUNE ELSEWHERE FOR A FIST THAT IS BETTER. THIS INVOLVES THE LENGTH OF EACH DIT AND DAH, AND THE VERY IMPORTANT TIME DURATION BETWEEN CHARACTERS AND WORDS. IT IS NO SECRET THAT MUCH AND THOUGHTFUL PRACTICE WILL IMPROVE YOUR FIST. FOR ME, I'D RATHER BE COMPLIMENTED BY THE GUY ON THE OTHER END OF THE QSO FOR THE QUALITY OF MY BRASS POUNDING, RATHER THAN THE QUANTITY OF MY WPM.

TO THE BEGINNER AND IMPENDING NOVICE LICENSEES WHO ARE RECEIVING THE APRIL HAM RAG, THIS IS YOUR LAST COMPLIMENTARY ISSUE. RARA WOULD LIKE YOU ALL TO BECOME MEMBERS. YOU WILL LEARN MORE ABOUT THIS FASCINATING HOBBY BY YOUR ASSOCIATION WITH MORE EXPERIENCED HAMS, AND YOU WILL HAVE A SOURCE OF INFORMATION WORTH MANY TIMES THE YEARLY DUES OF \$5. REMEMBER, YOUR MEMBERSHIP INCLUDES THE FREE CHRISTMAS PARTY AND DINNER, THE JULY FAMILY PICNIC, AND MANY HOURS OF FELLOWSHIP.

DX REPORTS: WN9HPV, DAVE, HAD A FB QSO WITH HI3AMG, SANTIAGO, DOMINICAN REPUBLIC, ON 21.125 MHZ AT 1900Z. WN9IOG, MIKE, WORKED PY5ASN IN BRAZIL, ON 21.156 AT 2316Z. HE HAS ALSO RECEIVED HIS QSL FROM THE CONTACT IN ITALY REPORTED LAST MONTH. WN9HCL, ED, QSO'ED KH6GGZ IN HAWAII ON 21.111 AT 2239Z AND HAS THE QSL TO PROVE IT. PHIL, WN9HVK, HAS BEEN WORKING 21.237 MHZ., AND CAME UP WITH G3PBQ IN ENGLAND, VEØMCD ON THE SLOOP WINSOME V CRUISING THE PACIFIC, AND VE2BCX IN EASTERN QUEBEC. ALL OF THESE STATIONS WERE WORKED WITH PHIL ON CW AND THE "DX" ON FONE. SOME OF THESE CAME BACK TO PHIL'S CQ. WN9HHG IS READY WITH AN 18AVQ HE BOUGHT FROM BUD, CHU.

LOT OF NOVICE GEAR WILL BE NEEDED FOR THE GRADUATES OF THE NOVICE SCHOOLS ABOUT THE MIDDLE OF JUNE. PLEASE REMEMBER TO GET THIS INFO COMPILED AND BRING IT TO THE NEXT MEETING FOR A HAM RAG AD IF YOU HAVE SOME GEAR TO CLEAN OUT OF THE SHACK.

73's, DE WN9HHH.



PLEASE WELCOME THESE NEW CLUB MEMBERS: W9LX0, STEVE LINK, 409 GLENDALE RD.; JAMES DUNLEA, WN9?, 4407 BRENDENWOOD; STEVE DONALDSON, WN9JAV, 408 PARKSIDE; RICHARD BEILKE, WN9EHX, 2142 CUMBERLAND; JOHN BURKE, WN9??, 3844 HIGHCREST; AND DAVE LARSON, WN9HPV, 1403-15TH. THE WN9?'S ARE NOVICE SCHOOL STUDENTS.

THE RARA CLUB CONTEST

WHAT IS IT? THE PURPOSE OF THE CLUB CONTEST IS TO PROMOTE PARTICIPATION IN CLUB ACTIVITIES, AND AMATEUR RADIO CONTESTS AND ACTIVITIES IN GENERAL. THE CONTEST IS OPEN TO RARA MEMBERS ONLY. A SCHEDULE OF POINTS FOR PARTICIPATION IN VARIOUS ACTIVITIES IS GIVEN BELOW. AT THE END OF THE CONTEST PERIOD THE OPERATOR WITH THE HIGHEST POINT TOTAL IS THE WINNER. THE CONTEST IS OPERATED ON THE HONOR SYSTEM.

CONTEST PERIOD: MAY 1ST THRU DECEMBER 1ST, 1972

PRIZES: TROPHIES TO FIRST, SECOND, AND THIRD PLACE WINNERS. WINNERS WILL BE ANNOUNCED AND PRIZES AWARDED AT THE ANNUAL CHRISTMAS PARTY.

SCORING:

<u>ACTIVITY</u>	<u>POINTS</u>
1. ATTENDANCE AT MEETINGS (REG., BOARD, ETC)	50 PER MEETING
2. NEW EQUIPMENT BUILT AND SHOWN AT MEETING	50 PER UNIT
3. PRESENTATION OF A MEETING PROGRAM	100 PER MEETING
4. SIGNING UP A NEW MEMBER	60 PER MEMBER
5. UP-GRADING YOUR LICENSE	50 EACH STEP
6. SUBMITTING ARTICLE FOR HAM RAG	10 EACH ARTICLE
7. PARTICIPATING IN EMERGENCY OR DRILL (AREC OR RACES DESIGNATED)	30 EACH DAY
8. PARTICIPATING IN AN ON-AIR CONTEST (ARRL, ETC)	5 EACH DAY
9. ARRL CODE PROFICIENCY	10 EACH STEP
10. MESSAGE SENT, RECEIVED, OR RELAYED	2 EACH MESSAGE
11. DX WORKED	5 EACH CONTACT
12. YL'S WORKED ON CW	4 EACH CONTACT
13. YL'S WORKED ON FONE	1 EACH CONTACT
14. WORKED ALL CALL AREAS IN ONE CALENDAR MONTH	25 EACH MONTH
15. WORKED ALL VE CALL AREAS IN ONE MONTH (VE1-VE7; VE8 WILD)	75 EACH MONTH
16. DIFFERENT ILLINOIS COUNTIES WORKED	5 EACH COUNTY
17. DIFFERENT US STATES WORKED	5 EACH STATE
18. DIFFERENT COUNTRIES WORKED (DXCC LIST)	5 EACH COUNTRY
19. DIFFERENT PREFIXES WORKED	3 EACH PREFIX
20. USA QSL CARDS RECEIVED	1 EACH CARD
21. DX QSL CARDS RECEIVED	3 EACH CARD
22. CONTACTS BELOW 220 MHZ.	1 EACH QSO
23. CONTACTS ABOVE 220MHZ.	5 EACH QSO
****BONUS POINTS AT END OF CONTEST PERIOD****	
24. MOST CONTACTS DURING CONTEST PERIOD	100 POINT BONUS
25. PARTICIPATION IN 15 OR MORE CATAGORIES	200 POINT BONUS
26. CODE SPEED (ARRL CERTIFIED)	5 POINTS PER WPM

POWER MULTIPLIER: (APPLIES TO CATAGORIES 8 THRU 23 ONLY)

UNDER 50 WATTS (PEP)	x10	200 TO 500 WATTS	x2
50 TO 100 WATTS	x6	500 TO 2000 WATTS	x1
100 TO 200 WATTS	x4	OVER 2000 WATTS	x0

(MAXIMUM POWER USED ANYTIME DURING MONTH)

MORE NEWS: WAYNE, W81TH/9, IS BACK ON 2 METERS AFTER A 3 MONTH ABSENCE WHILE HIS TR-22 WAS BEING FIXED AT THE FACTORY. (3 MONTHS??!!)

DX IS GREAT... FWØAB WAS ON WALLACE ISLAND FOR AWHILE, BUT HAS QRT'ED AND HEADED FOR HOME, WB9ILH AND ETH WERE AMONG THOSE IN THE AREA WORKING HIM, BOTH ON THE FINAL DAY OF THE DX-PEDITION. VU2IRA HAS BEEN ON THE AIR LATELY (MONDAY, 4-4) BUT WAS VERY WEAK AND UF5ØD CAME ON AND COVERED HER (AROUND 14.211).

GRANDPA SEZ "IT ISN'T THE MOUNTAIN AHEAD THAT WEARS YOU OUT, BUT THE GRAIN OF SAND IN YOUR SHOE." (TNX W9VZ)

SEEMS LIKE HY-GAIN CAN'T QUITE PUT IT ALL TOGETHER WHEN IT CAME TO THEIR NEW 40 METER BEAM, ETH HAS HAD ONE ON ORDER FOR SOME TIME, AND WHEN HE HEARD THERE WILL BE ANOTHER 3 MONTH WAIT IT WAS TOO MUCH, SO HE ORDERED A PRE-PRODUCTION CUSTOM MADE JOB, JIM EXPECTS TO HAVE IT UP IN A MONTH OR SO.

JIM, WB9IQJ, WAS SHOCKED THE OTHER DAY WHEN HIS COMPUTER PRINTED OUT THAT IT WON'T WORK UNTIL IT IS ALLOWED TWO CIRCUIT BREAKS A DAY.

INCREASE YOUR SIGNAL BY SPENDING LESS THAN \$200? IMPOSSIBLE? WOULD YOU BELIEVE ONLY \$24.95 DOES THE JOB OF A BIG LINEAR? READ ON,... RESULTS OF A HIGHLY SCIENTIFIC TEST CONDUCTED BY ETH UNDER ACTUAL OPERATING CONDITIONS: (IN QSO WITH A PHOENIX STATION): JIM SWITCHED FROM HIS REGULAR MIC TO A D-104,, REPORT WAS NO STRONGER SIGNAL, BUT MORE READABLE. HE NOW SWITCHED IN HIS R-P AUDIO COMPRESSOR... WOW.. SIGNAL JUMPED TO S-7 IN PHOENIX. SWITCHED OFF COMPRESSOR, AND SWITCHED ON THE 1.5KW LINEAR, SIGNAL AGAIN WAS S7. NOW WITH LINEAR AND COMPRESSOR ON, SIGNAL WENT TO S-9, FOR \$24.95 THAT R-P THING IS QUITE A GADGET.

THE FIRST HAMFEST IS LIKE THE FIRST KISS... IT COULD LEAD TO TROUBLE BUT IT IS STILL FUN. SPEAKING OF GETTING IN TROUBLE, RAY, ILH, HAS BOUGHT A NEW HALLICRAFTERS SR-400 TRANSCEIVER, AND TRADED IN THE SIX METER RIG.

W9LVT/6 HAS BEEN ON THE AIR FROM NEW QTH, WITH THE KW OPERATING INTO A DIPOLE AT 20 FEET, HE PUTS A STRONG SIG INTO RKFD. LOOK FOR HIM ON SUNDAYS, 5:00 PM LOCAL TIME ON 14.340, CALL WTS FOR EXACT DETAILS, K6YRA/9 HAS WASTED NO TIME. HE'S ON THE AIR WITH THE NEW SB-220 INTO A DIPOLE, SNAGGING THE RARE DX, THAT LINEAR SURE PUMPS OUT THE BEANS.

WTS SEZ: "GIVE ME YOUR POOR, YOUR TIRED, AND WE'LL ORGANIZE A RADIO CLUB." LOOKING FOR W1AW FOR CODE PRACTICE LATELY? THEY MOVED TO NEW FREQS... 80 KC UP FROM THE LOWER BAND LIMITS, FOR EXAMPLE, 3580, 7080, ETC. SEE UPCOMING QST FOR MORE. LATE DX ITEM: WN9IOG WORKED KX6EB, MARSHALL ISLANDS, ON 21.132 AT 7:45 PM LAST MONDAY. WHO SAYS A NOVICE CAN'T HAVE FUN?

BETJADIDNTKNOWTHIS! THE OM HIMSELF, HIRAM PERCY MAXIM, WAS QUITE AN INVENTOR, AMONG THE INVENTIONS, WAS ONE OF THE FIRST GUN SILENCERS. DIGGING THRU SOME OLD BOOKS, K9KZT FOUND AN ARTICLE ABOUT THE OM'S SILENCER SAYING IT WAS THE FINEST AVAILABLE.

IF YOU WATCH LOTS OF FOOTBALL, BASEBALL, BASKETBALL, AND GOLF ON THE OL' BOOB-TOOB, MAYBE THE XYL WILL COMPLAIN AND ASK WHY YOU DON'T GET ON THE AIR MORE!



DOUBLE YOUR POWER ON CW!

NORMAL OUTPUT OF YOUR CW TRANSMITTER IS IN A MANNER THAT THE FINAL TUBES IN YOUR RIG ONLY WORK WHEN THE KEY IS DOWN. THE REMAINING TIME, THE TUBES ARE RESTING AND DOING NO USEFUL WORK, SO BY USING A VOLTAGE DOUBLER CIRCUIT, LONG USED IN OTHER APPLICATIONS, YOU CAN NOW HAVE TWICE THE POWER OUTPUT AND STILL NOT OVERLOAD YOUR FINAL TUBES.

ALL THAT IS REQUIRED IS A FEW CHANGES IN YOUR OUTPUT CIRCUIT TO ACCOMPLISH THIS POWER DOUBLING PRINCIPLE.

LET US ASSUME THAT YOU HAVE 100 WATTS IN YOUR PRESENT TRANSMITTER. THAT IS, WITH THE KEY DOWN YOU HAVE 1000 VOLTS AT 100 MA. THIS WOULD GIVE YOU 100 WATTS INPUT AND THE OUTPUT WOULD DEPEND ON THE EFFICIENCY OF THE TANK AN OUTPUT CIRCUITRY. ASSUMING 66%, THIS WOULD GIVE YOU 66 WATTS TO THE ANTENNA.

NOW LET US USE A VOLTAGE DOUBLER IN THE TANK CIRCUIT AND SEE WHAT HAPPENS: OUR 1000 VOLTS PEAK IS NOW DOUBLED TO 2000 VOLTS X 100 MA. = 200 WATTS INPUT, AND ASSUMING THE SAME EFFICIENCY, $200 \times .66 = 132$ WATTS OUTPUT.

WITHE THE SAME 100 MA. PLATE CURRENT WE HAVE NOT INCREASED THE DISSAPATION OF OUR OUPUT TUBES. SO NO REAL PROBLEM, JUST A BIGGER SIGNAL TO OVERCOME THE QRM.

CIRCUIT DETAILS ARE NOT DRAWN UP FOR PRINTING IN THIS ISSUE, BUT WILL APPEAR IN NEXT MONTH'S HAM RAG. ONLY A FEW ADDITIONAL PARTS AND A COUPLE OF WIRING CHANGES ARE ALL THAT IS NECESSARY TO ACCOMPLISH THIS MODIFICATION. THE AUTHOR HAS USED THIS PRINCIPLE SINCE LAST APRIL AND OPERATION HAS BEEN MORE THAN GRATIFYING.

IN TESTS ON 40 METER CW WITH VARIOUS DX STATIONS, THE FOLLOWING RESULTS WERE OBTAINED: L1ER NOTED AN INCREASE IN SIGNAL FROM 449 TO 579; U2RAT GAVE THE SAME GOOD NEWS, 569 TO 599; .4Q2OM WAS EVEN MORE ENTHUSED AND REPORTED FROM 439 TO 579. THE FINAL TUBES ARE STILL GOING STRONG WITH NO SIGNS OF DETERIORATION OR GASSINESS.

THE ONLY PROBLEM ENCOUNTERED WAS WITH THE ANTENNA INSULATORS WHICH KEPT ARCING OVER WITH THE INCREASED OUTPUT. THIS WAS CURED BY PUTTING TWO INSULATORS IN PARALLEL TO HANDLE THE LOAD.

ONE COMMERCIAL MANUFACTURER HAS ALREADY APPROACHED ME ON THE DETAILS OF THIS SYSTEM TO INCLUDE IT IN THE NEW MODELS OF THEIR CW TRANSMITTERS, SO WATCH FOR THE CIRCUIT IN THE NEXT MONTH'S ISSUE. DON'T MISS IT!

VRAH REMAH, J8XGN (+1)

APRIL 1, 1972

COURTESY YTARC SMOKE SIGNALS

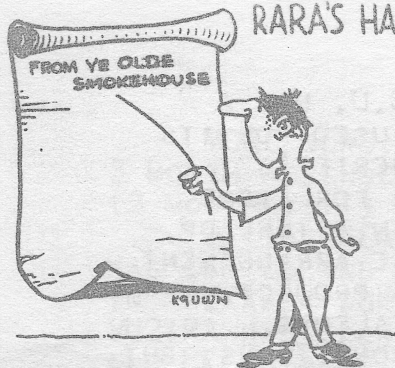
SELL: KNIGHT 5" KG-630 SCOPE, \$70. PHONE MIKE, WN910G,
1-874-4646.

SELL: ~~18AVQ VERTICAL ANTENNA~~ ~~SOL~~ ~~CHRU 10 METERS, \$30~~. HEATH HW-16 NOVICE TRANSCEIVER, INCLUDES 13 XTALS AND THE MATCHING VFO WHEN GENERAL CLASS. ADD A KEY AND ANTENNA AND YOU'RE ON THE AIR. \$100. CALL WB9CHU, BUD, 399-6375.

SELL: 2 METER FM., GENERAL ELECTRIC PROGRESS LINE TRANSCEIVER. TRUNK MOUNTED WITH CONTROL HEAD UP FRONT. TWO FREQUENCY NOW ON 146.94 AND .34/.76. 12 VOLT WITH ANTENNA INCL. ROSS AND WHITE 5 FREQ, TONE BURST INCLUDED. CALL GARY, WA9HLJ, 1-542-2412.

WANT: BEAM, EITHER 15 METER OR TRI-BANDER, AND A ROTOR. CALL MIKE, WN910G, 1-874-4646.

RARA'S HAMS OF THE MONTH



FIRST LICENSED IN 1962 AS A NOVICE, WN9FQN, ERLING MALMER OPERATED FOR A YEAR WITH A RANGER AND AN HQ-180. HOWEVER HE LET THE LICENSE EXPIRE MAINLY BECAUSE OF LACK OF TIME. IN 1967, THO, HE FOUND HIMSELF WITH MORE TIME ON HIS HANDS THAN HE CARED TO HAVE, SO TO HELP HE BONED UP ON THE BOOKS AND SOON PASSED THE CONDITIONAL EXAM. HE FIRED UP THE OLD NOVICE RIG ON 40 METER CW, BUT SOON REPLACED IT WITH A SWAN 500C AND A QUAD ON A ROOF TRIPOD. THE QUAD HOWEVER LATER SUFFERED FROM A WINTER ICE STORM AND WAS REPLACED WITH A TH6DX ON A SIXTY FOOT TOWER, AND DIPOLES FOR 40 AND 75 METERS. HE ALSO HAS UPGRADED HIS GEAR TO A DRAKE LINE, THE R4B AND T4XB, WITH A HEATH SB-220 LINEAR. IN ADDITION, HE HAS A HEATH MONITOR SCOPE, A TRANSMATCH, AND AN ELECTRONIC KEYSER.

ERL NOW HAS HIS ADVANCED CLASS LICENSE AND IS JUST ABOUT READY TO TRY THE EXTRA CLASS.

ERL OFTEN SERVES AS NET CONTROL FOR THE "PROFESSIONAL LOAFERS CLUB" THAT MEETS ON 7261, MONDAY THRU FRIDAY, 9 TO 11:30 A.M. FURTHERMORE, HE IS SECOND VICE PRESIDENT OF THAT BIG ORGANIZATION. HE ALSO FREQUENTLY IS NET CONTROL FOR THE SQUARE AND COMPASS NET ON 7295 SUNDAY MORNINGS. WHEN NOT ON THE NETS, HE TAKES TIME TO CHASE DX. HE HAS WORKED NEARLY 200 COUNTRIES WITH 171 CONFIRMED. ASK ERL TO SEE SOME OF THE ELUSIVE ONES HE HAS WORKED.

FOR A HAM THAT WAS HIT BY A STROKE FOUR YEARS AGO, LEAVING HIS RIGHT SIDE COMPLETELY PARALYZED, THIS IS A TREMENDOUS ACHIEVEMENT. JUST THINK ABOUT YOURSELF DOING ALL THE RIG TUNING, WRITING, LOGGING, CODE SENDING, ETC., WITH ONLY YOUR LEFT HAND. IN FACT, ERL TYPED THE MAILING LIST FOR THE HAM RAG MAILING IN FEBRUARY, AND THAT WAS 300 NAMES AND ADDRESSES.

WE ARE PROUD TO HAVE ERL AS A MEMBER OF RARA.

WHAT YOU MISSED AT THE MARCH MEETING!

IF YOU'VE NEVER HAD THE OPPORTUNITY TO SEE A 5 ELEMENT 40 METER BEAM OR OTHER SUCH "GOODIES" YOU SHOULD HAVE BEEN AT THE MARCH MEETING. K6YRA/9 SHOWED HIS SLIDE COLLECTION OF "TYPICAL" CALIFORNIA STATIONS, ANTENNA FARMS, AND BACK YARD "SHACKS." ALSO INCLUDED WERE SOME SHOTS OF A REAL RARE QTH, MOON, COMPLIMENTS OF NASA. IT WAS A REAL PLEASURE TO BE ABLE TO SEE THESE PICTURES, AND THANKS MUCH FOR A FB PROGRAM, AL. AS A RESULT OF SEEING THESE PHOTOS, SOME OF OUR MEMBERS HAVE DECIDED THAT RARA ALSO NEEDS A PICTORIAL HISTORY OF OUR AREA MEMBERS AND THEIR RIGS, WA9IYK HAS ALREADY STARTED ON THAT PROJECT.

DURING THE BUSINESS PORTION OF THE MARCH MEETING, THE "CLUB CONTEST" WAS INTRODUCED AND DISCUSSED. DISCUSSION OF THE BEL ROCK HAMFEST AND OF QSL'S FOR W9AXD AND MEMBERS ALSO TOOK PLACE. SEE MINUTES OF BOARD MEETING FOR FURTHER INFO.

THE USUAL COFFEE HOUR FOLLOWED THE MEETING.

NEWS NOTES

ANY MECHANICS IN THE CROWD? THE COUNTY C.D. HAS A GOOD SIZED GENERATOR WHICH IS NO LONGER BEING USED FOR ITS INTENDED PURPOSES AS EMERGENCY POWER AT THE SHERIFF'S OFFICE. THIS WOULD MAKE AN EXCELLENT GENERATOR FOR FIELD DAY AND EMERGENCY USE WHEN CLEANED UP AND GIVEN A TUNE UP. IT CAN BE ISSUED TO THE CLUB ON A 99 YEAR LEASE ARRANGEMENT SHOULD SOMEONE BE INTERESTED IN TAKING ON THIS PROJECT. SEE DAVE, K9PAK, IF YOU HAVE SOME MECHANICAL TALENTS.

REPEATER PROGRESS: SLOW, DUE TO WEATHER CONDITIONS, BUT NEVERTHELESS, PLODDING ALONG. THE CD REPEATER IS PROVIDING GOOD COVERAGE UP TO 30 MILE RADIUS, WITH SOME 15 TO 20 OPERATORS PARTICIPATING. 46/88 IS AGAIN OPERATIONAL ON EXPERIMENTAL BASIS FROM WB9EEH'S QTH, AFTER LINK PROBLEMS WERE CLEARED UP (SOMEWHAT). THE DEKALB SYSTEM (WB9ADW * .13/.73) IS PROVIDING GOOD COVERAGE TO ROCKFORD. AURORA REPEATER GROUP IS LAYING PLANS FOR A SATELLITE REPEATER IN THE DEKALB AREA. IT WILL OPERATE IN THE 147 MHZ. GENERAL PORTION OF THE BAND.

PLAN NOW FOR THE DEKALB HAMFEST, MAY 7TH, AT HOPKINS PARK. THIS IS ALWAYS A WELL ATTENDED AFFAIR, AND IS THE FIRST HAMFEST OF THE SEASON IN THE AREA. HOPE THE HAMFEST COMMITTEE WILL HAVE TICKETS AND FLYERS AVAILABLE BY THEN.

NOTICED THAT CB MAGAZINE IS CALLING FOR A NEW NOVICE CLASS OF LICENSE WITH NO CODE TEST AND VOICE PRIVILEGES IN THE 10, 6, AND 2 METER BANDS. THE PRESENT NOVICE CLASS WILL TAKE ON TECHNICIAN FREQUENCIES AS WELL AS PRESENT NOVICE FREQS. THEY ARE ORGANIZING A RADIO HOBBIEIST ASSOCIATION TO PROMOTE HOBBY TYPE RADIO OPERATION AVAILABLE TO ALL WHO WANT TO PLAY FLASH GORDON. IT'S A CONSTITUTIONAL RIGHT, THEY SAY, AND "WE" SHOULD FIGHT FOR OUR RIGHTS IN THE COURTS IF NECESSARY. THEY PLAN A CONVENTION IN JUNE IN TEXAS.

RELIABLE REPORTS INDICATE THAT IN SOME AREAS OF THE COUNTRY GENERAL CLASS AMATEURS ARE "SELLING" TECH LICENSES TO CB'ERS FOR \$30-\$35 BY "FIXING" THE MAIL EXAM. THEY ARE THEN SHOWING UP ON 146.94 TWO METER FM. THE QUAD CITIES IS APPARENTLY ONE OF THESE AREAS. PERHAPS THIS PRACTICE HAS CAUSED THE FCC TO CALL IN MORE TECHS AND CONDITIONALS THAN BEFORE FOR RE-TESTING.

INTERESTING THAT ALL THE COMPLAINTS PAK HAS RECEIVED (THE CHAMBER OF COMMERCE HAS MY PHONE NUMBER, UNFORTNATELY) FOR TVI CAUSED BY THE "HAM DOWN THE STREET" HAVE BEEN TRACED TO CB OPERATORS. OF COURSE THE TV OWNER STILL BLAMES IT ON "HAMS" AND WE CAN'T DO MUCH TO HELP THEM. THE LOCAL CB CLUB FEELS THAT IT IS UP TO THE FCC TO POLICE CB AND THEY WON'T COOPERATE. PAK SENDS THE COMPLAINANT A COPY OF THE ARRL CHART ON HIGH PASS FILTER SOURCES AND REFERS THEM TO THE FCC FIELD OFFICE. IS THERE ANYTHING MORE WE CAN DO??

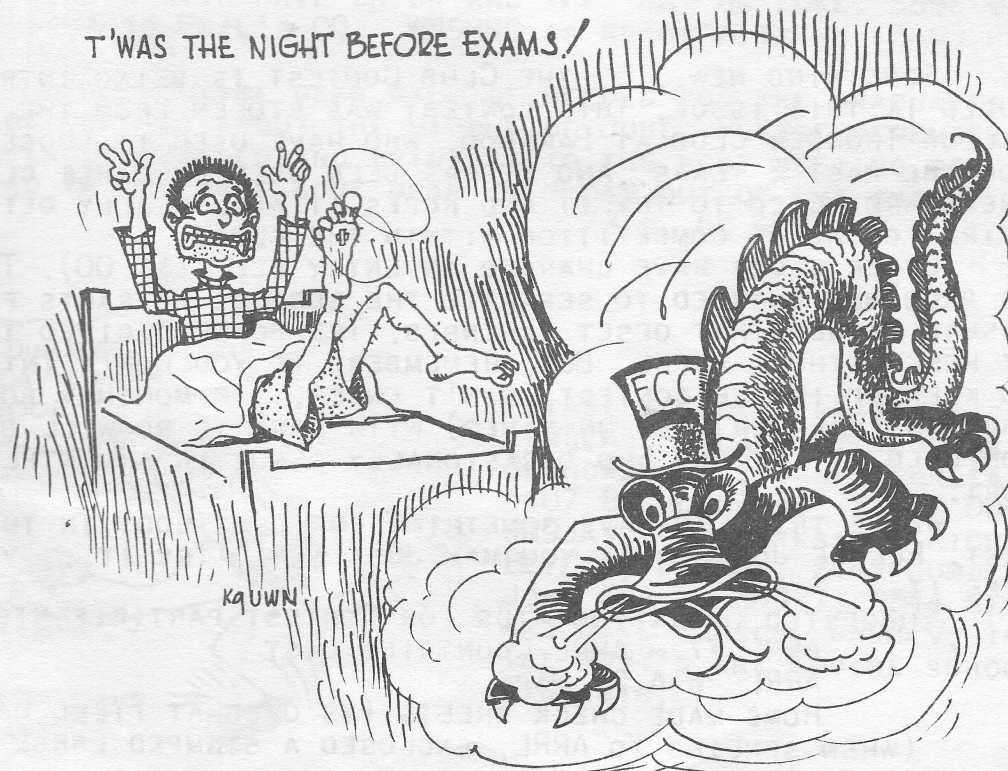
LOCALLY, JIM, W9BAV, HAS MOVED INTO HIS QTH. WELCOME TO ROCKFORD, AL, YRA, SHOULD BE SETTLED BY NOW. ERNIE, W9MAP, FINALLY DISASSEMBLED HIS ROCK CRUSHER. HE BUILT IT DURING THE WAR YEARS AND SCROUNGED METAL FOR CHASSIS AND PANELS BY POUNDING OUT AUTOMOBILE HOODS. STANDING 6 FEET HIGH IT OCCUPIED A PROMINENT SPOT IN THE SHACK. HE PLANS TO REPLACE IT WITH DRAKE TWINS.

FOR SALE: HY-GAIN 2 METER J-POLE, 4 ELEMENT MODEL SJ2S4...
FOR 2 METER FM GIVES UP TO 10 DB GAIN. NEW! \$50.
HY-GAIN PHONE PATCH... NEW! Now \$12.95.
MERIT FISKE, W9QMB, (608)362-4770 (BELOIT)
(NOTE: MERIT IS CLOSING DOWN FISKE RADIO AND GOING INTO RETIREMENT.)

HEAR YE! HEAR YE! THE APRIL MEETING OF RARA WILL BE HELD ON FRIDAY, APRIL 14TH, AT 7:30 PM, FEATURED SPEAKER WILL BE W9HP, PHIL HALLER, DIRECTOR FROM THE CENTRAL DIVISION TO ARRL. IS IT TRUE THAT HE HAS BROUGHT THE OL' WOUOLF HONG FOR PAK? OR, IS THERE ANY FACT TO THE RUMOR THAT HE CARRIES A TWO METER FM HANDI-TALKIE IN HIS VEST POCKET BUT WITH A CW KEY ATTACHED? WELL, COME TO THE MEETING TO FIND OUT. WE HAVE EXTENDED AN INVITATION TO THE BELVIDERE AND FREEPORT CLUBS TO ATTEND THIS SPECIAL MEETING SO WE ARE LOOKING FORWARD TO A BIG TURN-OUT, THE MEETING WILL BE HELD IN THE SAME BUILDING AT ROCK VALLEY, BUT UPSTAIRS IN A LARGER ROOM, ENTER THE SAME DOOR, THE NEW HAM RADIO SIGNS WILL BE UP TO DIRECT VISITORS TO THE PARKING AREA, HOPE TO SEE YOU THERE AND LET OUR ELECTED REPRESENTATIVE KNOW WHAT WE WANT FROM THE ARRL.

Betchaittooklongerformetotypethisanitdidforyoutoreadit!

If there is one thing you're editor ain't, it's a typist. So, I am looking for someone who can type our monthly HAM RAG. As you can easily see, no skill is involved, but, we would like to have it done on a good typewriter. I am typing this on an IBM electric with a carbon ribbon. It's easy to see the difference from the rest of the HAM RAG pecked out on an old manual typewriter. So call or see PAK if you have any ideas.



MADISON REPEATER EXPANDS

ANNOUNCING NEW COVERAGE AND NEW FACILITIES FOR MEMBERS OF THE MADISON AREA REPEATER ASSOCIATION, MARA HAS RECEIVED PERMISSION TO INSTALL AN "ON-SITE" REPEATER SYSTEM AT WISC-TV'S TRANSMITTER BUILDING. THE RECEIVING AND TRANSMITTING ANTENNAS WILL BE AT THE 400 AND 250 FOOT LEVELS ON THE TOWER. ACCORDING TO OUR ELECTRICAL ENGINEERING TECHNICAL COMMITTEE, THIS WILL GIVE 40 MILE LINE OF SITE COVERAGE FROM THAT LOCATION, WHICH SHOULD BLANKET FROM БЕЛОIT-ROCKFORD AREA TO THE SOUTH TO THE BARABOO-DELLS-PORTAGE AREA NORTH.

THIS EXTRA COVERAGE, COMBINED WITH A DEPENDABLE WORKING TOUCHTONE SYSTEM, WILL PROVIDE EXCELLENT AMATEUR SERVICE TO ALL ITS MEMBERS AND TRANSIENT AMATEURS ALSO.

FURTHER INFORMATION MAY BE HAD BY EITHER WRITING, CONTACTING BY RADIO, OR TRIPPING OVER ANY MEMBER OF THE BOARD OF DIRECTORS OR MEMBER OF MARA.

OFFICERS AND COMMITTEES ARE:

CLYDE DOWNING, W9HSY, PRESIDENT
LLOYD BERG, WB9CRG, VICE PRES. - CHIEF ENGR.
PAUL GOEMANS, WA9PWP, SECRETARY
PAUL HENNING, WA9HHT, TREASURER
BILL DUMKE, WA9PWR, TECHNICAL COMMITTEE
GARY CHATTERS, WA9ZZZ, " "
JIM WEITZMAN, K9YTJ, LEGAL CONSULTANT
DENNIS RUSKIN, WA9ZXA, MEMBERSHIP COORDINATOR

WE MAY BE REACHED ON EITHER 146.16/.76 OR .34/.76 (WA9PBW) OR ON .94 OR .52 SIMPLEX. MAILING ADDRESS IS P.O. Box 3403, MADISON, WIS. 53704.

SOMETHING NEW..... THE CLUB CONTEST IS BEING INTRODUCED IN THIS ISSUE. THIS CONTEST WAS STOLEN FROM THE YELLOW THUNDER CLUB AT BARABOO, WHO HAVE USED IT SUCCESSFULLY FOR THE PAST 2 YEARS, AND IT HAS BEEN USED BY OTHER CLUBS, TOO. THE BOARD VOTED TO TRY IT AND HOPES IT WILL REALLY GET THE SPIRIT GOING OF COMPETITION WITHIN THE CLUB.

OTHER CLUBS HAVE CHARGED AN ENTRY FEE. (\$1.00). THIS FEE IS PROBABLY CHARGED TO SEPARATE THE SERIOUS ENTRANTS FROM THE CASUAL RATHER THAN OFFSET EXPENSES. THE BOARD DECIDED TO TRY IT HERE WITHOUT A FEE. BUT, REMEMBER, IF YOU DON'T INTEND TO KEEP UP IN THE CONTEST, DON'T ENTER. THE MONTHLY BOOKWORK THAT THE MANAGER (YET UN-NAMED) WILL HAVE TO DO WILL BE CONFUSED BY THE GUY WHO OCCASIONALLY SENDS IN A MONTHLY REPORT.

WE'VE TRIED TO HAVE SOMETHING FOR EVERYBODY IN THE CONTEST. PLEASE JOIN IN... YOU MAY JUST WIN! TRY IT... YOU'LL LIKE IT.

SUGGESTED OPERATING AIDS FOR CONTEST PARTICIPANTS:

ARRL #7 - ARRL COUNTRIES LIST

ARRL W.A.S. MAP

HOME MADE CHECK SHEETS (AS USED AT FIELD DAY)

(WHEN SENDING TO ARRL, ENCLOSED A STAMPED LARGE ENVELOPE)