

HAM RAG

Affiliated with ARRL

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



MARCH 1972

AS MANY OF YOU KNOW, ONCE IN A WHILE YOUR EDITOR LIKES TO STICK A FEW PINS INTO THE ARRL DOLL THAT HANGS ABOVE MY RIG. I WOULD JUST LIKE TO LET YOU KNOW I SHOVED A FEW MORE INTO IT THE OTHER DAY. WHY? WELL, ALONG COMES THE REPORT OF THE LATEST ARRL BOARD MEETING. WE ARE TOLD THAT WE NOW HAVE A NEW PRESIDENT. FUNNY, I DON'T EVER REMEMBER RECEIVING A BALLOT FOR VOTING FOR PRESIDENT (AND MY MEMBERSHIP IS PAID UP). I DARE SAY THERE ARE NOT MANY ORGANIZATIONS THAT DO NOT ALLOW THEIR MEMBERS TO VOTE FOR PRESIDENT. AND, WITH RUMORS WILDLY FLYING THAT WE ARE ABOUT TO LOSE ANOTHER AMATEUR BAND DUE TO LACK OF OPPOSITION BY THE AMATEURS AND THE ARRL, I'M GETTING A LITTLE SICK OF THIS WHOLE DEAL. WHEN CAN WE GET SOME "STAND UP AND FIGHT" ACTION OUT OF NEWINGTON, INSTEAD OF THE APPARENT "IGNORE IT AND HOPE IT WILL GO AWAY" ATTITUDE?

EVERY SPRING OF THE YEAR, WITH THE TORNADO SEASON ONCE AGAIN APPROACHING, THE RED CROSS AND C.D. PEOPLE GET ANXIOUS. LET'S REVIEW JUST WHAT TO DO IF WE SHOULD BE HIT WITH SOME KIND OF DISASTER. OF COURSE, YOUR FIRST CONSIDERATION IS YOUR OWN FAMILY'S SAFETY. THE BEST WAY TO PREPARE THEN IS TO HAVE SOME SORT OF WARNING. WHEN STORM CONDITIONS DEVELOP STICK CLOSE TO YOUR RADIO. BOTH WROK AND WRRR HAVE DIRECT TELETYPE TO THE WEATHER BUREAU FOR EARLY WARNING. SO DO SOME OF THE TV STATIONS. SO DOES THE ROCKFORD FIRE DEPT. AND RKFD. COMMUNICATIONS CO. THEY BOTH BROADCAST WARNINGS ON THEIR FREQUENCIES (154.19 - FIRE, AND 152.09 MHZ. RKFD. COM). LISTEN TO THEM FOR ADVISORIES. THE OTHER PUBLIC AGENCIES RECEIVE THEIR INFO FROM THESE SOURCES. WE HOPE TO SOON HAVE THE C.D. REPEATER (147.3 MHZ.) RELAYING WARNINGS FOR YOU TO MONITOR ALSO. AS YOU CAN SEE A PURCHASE OF AN INEXPENSIVE POLICE MONITOR (\$15-20) WOULD BE A GOOD INVESTMENT. BE SURE IT COVERS DOWN TO TWO METERS AND THAT IT HAS SQUELCH. NOW IF WE SHOULD GET HIT DO NOT, REPEAT, DO NOT RUSH TO THE SCENE. INSTEAD, REPORT IN ON THE TWO METER FM FREQUENCIES, OR GO TO THE RED CROSS FOR INSTRUCTIONS. AS SOON AS POSSIBLE THE STATIONS ON 28.7 AND 146.94 WILL BE ACTIVATED AT THE RED CROSS. MOBILE OPERATION WILL BE HANDLED ON 146.94 AND THE REPEATERS. 28.7 WILL BE USED TO FUNNEL TRAFFIC FOR WELFARE PURPOSES TO OTHER FIXED STATIONS FOR RELAYING INTO NETS, ETC.

SO, BE ADVISED TO CHECK OUT YOUR GEAR AND BE PREPARED AS ANYTHING MIGHT HAPPEN AT ANY TIME.

DE K9PAK

TECHNICAL TOPICS

A LOT OF GUYS LUCK OUT BY HAVING NO DRIFT WHEN BUILDING A VFO. I'M NOT SURE I BELIEVE THEM. AFTER READING EVERYTHING I COULD FIND ON THE SUBJECT OF VFO'S HERE ARE SOME OF MY FINDINGS:

MECHANICAL CONSTRUCTION IS OF THE UTMOST IMPORTANCE WHICH GOES ALONG WITH HEAT DISSIPATION. USE HEAVY METAL AND LOTS OF IT. MOUNT ALL COMPONENTS VERY RIGIDLY.

TOROIDAL INDUCTORS ARE ABOUT THE BEST THAT CAN BE HAD, THE "L" AIR CORE INDUCTOR IS NEXT BUT THE PROBLEM IS MOUNTING AND IT MUST BE RIGID. CERAMIC COIL FORMS ARE ALMOST AS GOOD AND CAN BE MOUNTED RIGIDLY. SLUG TUNED COILS ARE IN MANY WAYS NOT SO GOOD, THE IRON CORE IS VERY TEMPERATURE SENSITIVE AND RIGID MOUNTING CAN BE A PROBLEM. ALSO THE "Q" IS MUCH LOWER, AND IT MAY BE DIFFICULT TO GET THE CIRCUIT TO OSCILLATE. THE "Q" OF A TOROID CAN EASILY BE AS HIGH AS 250 WHILE THE SLUG TUNED COIL MAY BE ONLY 50. PAINT THE TOROID WITH A GOOD QUALITY VARNISH TO KEEP THE TURNS OF WIRE FROM MOVING.

JUST ABOUT THE MOST IMPORTANT COMPONENTS ARE THE CAPACITORS. SILVER MICA SHOULD BE USED EVERYWHERE THEY POSSIBLY CAN AFFECT THE FREQUENCY. FOR SOME REASON, THE OLD MOLDED OR POSTAGE STAMP SILVER MICAS TENDED TO CAUSE LESS DRIFT THAN THE NEW DIPPED SILVER MICAS. I JUST MAY BE UNFAIR IN THAT STATEMENT BECAUSE BOTH TYPES ARE AVAILABLE WITH VARIOUS CHARACTERISTICS. THE OLD ONES PLAINLY INDICATED THIS BY COLORED DOTS; THE NEW ONES BY A LETTER IN THE MODEL NUMBER. THE LETTER IS QUITE OFTEN ONLY ON THE PACKAGE SO WE MAY NEVER KNOW THE EXACT CHARACTERISTICS UNLESS THEY ARE ORDERED SPECIAL WITH THE WRAPPERS.

TO BE CONTINUED...

RALPH HANNA, W8QUR
VIA AMATEUR RADIO NEWS SVC.

MEMO from the President

THANKS TO DAVE, K9PAK, AND PAUL, W9ZND, FROM WAUKEGAN, FOR PUTTING ON A VERY INFORMATIVE PROGRAM AT THE LAST MEETING ON FM AND REPEATERS. ALSO AT THE LAST MEETING, THE SUBJECT OF CHANGES TO OUR CONSTITUTION WERE BROUGHT UP. A MOTION WAS MADE AND PASSED TO HAVE THE BOARD OF DIRECTORS STUDY THE CONSTITUTION, AND MAKE PROPOSED CHANGES FOR YOUR CONSIDERATION AT THE MARCH MEETING. THE BOARD MET ON FEB. 22ND AND COMPLETELY REVIEWED THE CONSTITUTION AND WILL PRESENT THE CHANGES FOR YOU TO VOTE UPON. THE MAIN CHANGES INVOLVE THE ORGANIZATION OF THE BOARD AND THE ELECTION OF OFFICERS.

ALSO, AT THE MARCH MEETING K6YRA WILL TELL US WHAT IT'S LIKE TO OPERATE A CALIFORNIA KILOWATT AND SNAG SOME OF THE RARE DX. HE HAS MANY SLIDES OF "TYPICAL" CALIFORNIA STATIONS AND ANTENNA FARMS WHICH HE WILL SHOW. THIS MEETING SHOULD BE ON YOUR "MUST SEE" LIST. HOPE TO SEE YOU THERE. THAT'S FRIDAY, MARCH 10TH, 7:30 PM AT ROCK VALLEY COLLEGE.

BEEN LOOKING OVER THE MEMBERSHIP LISTS AND I FIND MANY WHO WERE MEMBERS LAST YEAR WHO HAVE NOT RENEWED THEIR MEMBERSHIPS. PERHAPS IT WAS JUST AN OVERSITE, SO THERE IS ANOTHER COUPON IN THIS HAM RAG FOR YOUR CONVENIENCE. WE NEED YOU. 73, DE K9WTS

THE FUNNY MODULATION PAGE

IT'S EASY TO TELL WHO GOT A NEW FM RIG FOR CHRISTMAS. HE IS THE GUY THAT HAS BEEN OPERATING FOR YEARS ON 75 OR 20 METER SSB, AND BOUGHT A SHINEY NEW FUJI MARK XVI TO SIT ON TOP OF THE THUNDERBOOMER TO TALK TO THE GANG. HE SECRETLY WANTS TO HOOK A VOX TO THE FUJI SINCE EVERY PAUSE BETWEEN PHRASES IS EXPERTLY FILLED WITH "AAAAAH'S". HE IS ALWAYS AFRAID A CALIFORNIA KILOWATT WILL GRAB THE FREQUENCY SO HE IS SURE TO JUMP RIGHT IN AS SOON AS THE OTHER GUY LETS UP ON THE MIKE. AND WHEN HE DOES GET HIS CHANCE, HE'S SURE TO REPEAT EVERY WORD AND THOUGHT A COUPLE OF TIMES JUST IN CASE THAT KILOWATT COMES ON ANYWAY. BETTER GIVE CALL SIGNS WITH EVERY TRANSMISSION TOO, JUST IN CASE A RARE DX IS LISTENING. HE'S ALSO THE GUY WONDERING WHY THE MOBILE NEVER CAME BACK AFTER HIS LAST TRANSMISSION... AFTER ALL HE SHOULD HAVE THE COURTESY TO SIT IN THE CAR AND LISTEN TO HIM "WRAP UP A REALLY FB QSO."

FM OPERATING HINTS

1. KEEP TRANSMISSIONS SHORT. USE YOUR FM RIG LIKE A TELEPHONE RATHER THAN YOUR 75 METER RIG.
2. IDENTIFY AT THE BEGINNING AND END OF QSO AND EVERY 10 MINS. NO MORE PLEASE.
3. LEAVE A FEW SECONDS BETWEEN TRANSMISSIONS FOR BREAKERS.
4. ALLOW A BREAKER TO TRANSMIT NOW... NOT AFTER YOUR NEXT TRANSMISSION.
5. CLEAR OFF 94 FOR YOUR RAG CHEWS IF POSSIBLE. 34 AND 52 ARE SUGGESTED SIMPLEX CHANNELS FOR THE AREA.

GET SET (FINALLY) FOR THE N.I.R.A. REPEATER TO HIT THE AIRWAVES. THE RECEIVER AND LINK EQUIPMENT IS NOW FUNCTIONING. IT'S BEEN ON AND OFF ON AN INTERMITTANT BASIS FROM THE QTH OF WB9EEH AND SHOULD BE PERMANENTLY SET-UP VERY SOON. BUY YOUR CRYSTALS NOW... AVOID THE RUSH. WORK ON THE MADISON LINK IS PROGRESSING TOO. THE C.D. REPEATER IS DOING ITS THING.. REPEATING SIGNALS ALL OVER THE PLACE. WORK ON AN AUTOPATCH AND CLEARING UP SOME OF THE DESENSING PROBLEMS ARE ON THE AGENDA.

LATEST TREND IN REPEATER OPERATION IS TO INSTALL LINKS ON 29.68 MHZ. IF TEN METERS OPENS, A COAST-TO-COAST QSO ON 2 METER HANDI-TALKIES IS THEN POSSIBLE THRU THE REPEATERS. TEN METER FM ACTIVITY IS GAINING POPULARITY IN SOME AREAS. 29.60 MHZ. IS THE USUAL FREQ. MADISON (WA9PBW) REPEATER MAY DROP .34 INPUT IN FAVOR OF .16. TREND ON EAST COAST IS TO MAKE .52 THE NATIONAL CALLING AND WORKING FREQ INSTEAD OF .94. THIS WILL FREE .94 FOR UNIVERSAL 34/94 REPEATERS.

HAVE YOU BEEN HONORED TO RECEIVE A COPY OF DEEK. THIS IS A "NEWSPAPER" THAT SOME LOCAL AMATEURS ARE PUTTING OUT. NEVER HAS THERE EVER BEEN SUCH A LARGE COLLECTION OF MIS-INFORMATION. ONE STORY ON THE MADISON REPEATER IS SO FOULED UP THAT THE AUTHOR SURELY DIDN'T KNOW WHAT HE WAS TALKING ABOUT. MAYBE THAT SHOULD BE APPLIED TO THE REST OF THE ARTICLES TOO.

JUNGLE JIM'S JAMBOREE

THE R.A.R.A. IS HAVING A LANDFALL OF LICENSE UPGRADING THIS YEAR, PAUL, WB9HGZ, PASSED HIS GENERAL EXAM ON FEB. 11TH, JIM, WB9ETH WENT WITH PAUL TO CHICAGO AND PASSED THE ADVANCED TEST. A WEEK LATER RAY, WB9ILH, AND BUD, WB9CHU, WENT TO THE BIG SUB-URB TO THE EAST AND PASSED THEIR ADVANCED TESTS. RAY SHOULD HAVE SPECIAL NOTICE SEEING THAT 9 MONTHS AGO HE DIDN'T KNOW A RESISTOR FROM A HIRAM PERCY MAXIM AND WASN'T SURE IF -- WAS R, K, OR U. JIM, WB9IQJ, DIDN'T EVEN BOTHER WITH THE GENERAL AFTER HIS NOVICE EXPIRED. HE WENT RIGHT TO ADVANCED CLASS.

WITH ALL THE NEW ADVANCED LICENSES, LEE, WA9WVY, GOT THE OLD TAPE RECORDER DUSTED OFF AND BROUGHT OUT THE LICENSE MANUAL TO BRUSH UP FOR THE ADVANCED IN A FEW WEEKS, AND BILL, WA9IYK, SAYS HE'LL GIVE IT A COLLEGE TRY, TOO. SO, WHAT'S THE MATTER WITH THE REST OF YOU SITTING BACK ON YOUR SOFT DUFFS? (I'LL TAKE THAT PERSONALLY... ED.)

LAST SATURDAY, A.M. I WAS TUNING AROUND ON 15 METERS AND IN THE GENERAL PORTION THERE WAS NOT ONE DX SIG TO BE HEARD, BUT IN THE ADVANCED PORTION I COUNTED 8 EUROPEANS FROM 6 DIFFERENT COUNTRIES. THAT MAKES ALL THE STUDYING WORTH IT!!

FOR WHAT IT'S WORTH, HY-GAIN IS PUTTING THEIR 40 METER BEAM BACK INTO PRODUCTION, AND THERE ARE OTHER COMPANIES MAKING 2 AND 3 ELEMENT 40 METER BEAMS. THE SUNSPOTS ARE ON THE DOWNHILL SLIDE AND 40 METERS IS BECOMING MORE IMPORTANT. IF YOU HAVEN'T HEARD THE DIFFERENCE BETWEEN A 40 METER DIPOLE AND A BEAM... WOW!!

WHEATON HAMFEST: WHAT A CROWD! WE ARRIVED ABOUT 11:00 A.M., AND IT WAS WALL TO WALL PEOPLE AND FLOOR TO CEILING SMOKE. YOU COULD HARDLY WALK AROUND AND GET NEXT TO THE TABLES. I THINK THERE WAS MORE GOOD EQUIPMENT FOR SALE THAN AT ANY OTHER HAMFEST I'VE BEEN TO, I DIDN'T NOTICE THAT PRICES WERE LOW BUT THE STUFF WAS SELLING. THERE WERE SEVERAL MANUFACTURERS THERE AND A HOST OF RETAIL STORES, ALL DOING A GOOD BUSINESS. ERICKSON F.M. COMMUNICATIONS WAS THERE WITH THE TEMPO LINE AND THE NEW HANDI-TALKIE LOOKS GREAT WITH 2 SETS OF CRYSTALS INCLUDED AND A NI-CAD BATTERY. 3 OTHER CHANNELS ARE AVAILABLE... ALL FOR \$279. USED ONE CHANNEL MOTOROLA HT-200'S WERE \$250, SO THE TEMPO LOOKS LIKE A GOOD DEAL. THE WEATON CLUB SHOULD HAVE MADE MONEY ON THAT HAMFEST... LET'S HOPE ITS A GOOD SIGN OF THINGS TO COME.
DE WB9ETH

HAM AD\$

FOR SALE: NOVICE TRANSCEIVER, HEATH HW-16 IN GOOD CONDITION. 80,40, & 15 METER CW, INCLUDES 13 CRYSTALS AND ACCESSORY HQ-110B VFO. \$100. CALL BUD, 399-6375.

FOR SALE: EICO 720 NOVICE CW TRANSMITTER, 75 TO 90 WATTS. 80 THRU 10 METERS. NOW ON AIR AND MAKING CONTACTS COAST TO COAST. INCLUDES CRYSTALS, PHONE, PHIL, 399-9404.

WANTED: AUTHORS AND REPORTERS FOR HAM RAG. NEED EQUIPMENT REVIEWS, FUNNY EXPERIENCES, RARE DX WORKED, ANY LITTLE TIDBITS. SALARY?... FAME. SEND ARTICLES TO K9PAK.

FOR SALE: KNIGHT VTVM, \$15. KNIGHT 5" SCOPE - FACTORY WIRED, WITH 2 PROBES - \$70. KNIGHT STAR ROAMER RECEIVER - \$25. HEATH AT-1 CW TRANSMITTER WITH 6 CRYSTALS, GUD FOR NOVICE USE - \$25. PHONE MIKE, 1-874-4646.

AND NOW THE LATEST NEWS...

HAPPY TO REPORT THAT AL, W9PAE, SEEMS TO BE ON THE ROAD TO RECOVERY AFTER A LENGTHY STAY IN THE HOSPITAL. HE IS HOME NOW. A TOTAL OF 37 STUDENTS HAVE REGISTERED FOR THE THREE NOVICE SCHOOLS IN THE AREA. THAT HAS GOT TO BE AN ALL TIME RECORD. AND HAPPY TO REPORT THAT CLASSES WILL BE STARTING LATER THIS SPRING FOR GENERAL CLASS STUDIES. SEE NOVICE COLUMN. ARRL NEWS: MEMBERSHIP IN ARRL SHOWED A 5.2% INCREASE IN 1971. DUES TO ARRL WILL BE INCREASED TO \$7.50 EFFECTIVE JULY 1. A SPECIAL LAPEL PIN WILL SOON BE AVAILABLE FOR DXCC HONOR ROLL MEMBERS.

CONGRATS TO W6AM WHO HAS WORKED 176 COUNTRIES FROM THE MOBILE DURING NORMAL TO-FROM WORK DRIVING, ABOUT 1 HOUR A DAY AVERAGE. HE RUNS 1KW ON CW IN THE MOBILE! K6YRA NOW OPERATING /9 HAS BEEN MADE AN HONORARY MEMBER OF THE So. CAL. DX CLUB FOR HIS MANY EFFORTS WHILE A MEMBER OUT THERE. AL, WE'RE GLAD TO HAVE SUCH A DISTINGUISHED HAM IN ROCKFORD. AT THIS TIME AL IS BUSY MOVING INTO HIS NEW QTH.

ONE MEMBER (WHO SHALL REMAIN ANONYMOUS) BROUGHT A CURVACEOUS YL WITH A NICE BUILD TO THE LAST MEETING AND ALL THE OM'S BECAME BUILDING INSPECTORS. FCC NEWS: ACCORDING TO W4BW CHIEF OF AMATEUR DIVISION, FCC, PHONE BAND EXPANSIONS WILL PROBABLY TAKE PLACE ON 75 AND 40 METERS BUT NOT ON 20, 15, OR 10. EXTRA CLASS CW SEGMENTS WILL BE RETAINED. CRACKDOWNS WILL BE STARTING ON OVER POWER OPERATION. MORE TECHS AND CONDITIONS WILL BE RECALLED FOR EXAMS, AND A CONDITIONAL MAY BE LIMITED TO 2 TO 3 YEARS. SPECIAL CALL SIGNS MAY BE INSTITUTED TO INDICATE THE LICENSE GRADE.

RARA STATIONERY IS NOW AVAILABLE FOR OFFICIAL CLUB CORRESPONDENCE. SEE THE SECRETARY. HAMFEST COMMITTEE HAS SELECTED AUG. 20, 1972 AS THE DATE FOR BEL-ROCK HAMFEST. A BIRD WATTMETER WILL BE PURCHASED FOR 2ND PRIZE. NEXT HAMFEST MEETING MARCH 29TH. W9VZ STEPPED ON A SCALE THE OTHER DAY AND GOT A FORTUNE-TELLING CARD THAT SAID "DON'T FORGET TO DIP YOUR FINAL." WELCOME TO JIM, W9BAV, WHO HAS MOVED TO ROCKFORD FROM SAVANNA, ILL. HIS IS ON 2 METER FM IN THE MOBILE AND ON LOW BANDS AT HOME. HE SAYS HE HEARD ABOUT ALL THE ACTIVITY IN ROCKFORD ALL THE WAY OVER TO SAVANNA. A DEFINITION OF WIRE TAPPING: THE JR. OP AND A YL WITH BRACES KISSING.

WANT A COMMERCIAL TICKET? ROCK VALLEY WILL START A COURSE FOR FIRST & SECOND CLASS RADIOTELEPHONE TRAINING ON MARCH 7TH. SHOW UP AT THE FIRST MEETING IN THE ELECTRONICS LAB (WHERE RARA MEETS) TO REGISTER. COURSE WILL MEET TUES. AND THURS. EVES AT 7 P.M. FOR 16 WEEKS. CALL DIVISION OF TECHNOLOGY FOR MORE INFO.

R.A.R.A. c/o LELAND GEHLHAUSEN, 4610 CAYUGA, ROCKFORD 61107

OM, ENCLOSED IS \$5.00 FOR MY DUES FOR RARA MEMBERSHIP FOR 1972. PLEASE SEE TO IT THAT I RECEIVE EVERY ISSUE OF THE HAM RAG AND THAT I GET INVITED TO THE FREE CHRISTMAS PARTY.

NAME _____ CALL _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

- I AM A STUDENT AND WISH TO APPLY FOR STUDENT MEMBERSHIP AT \$2.00

NOVICE and BEGGINNER

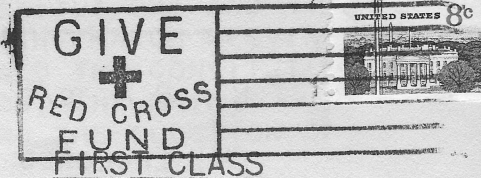
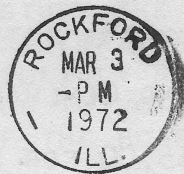
NOVICE DX: YOUR BEST BET IS 15 METERS WHICH IS OPEN FROM MID OR LATE MORNING TIL ABOUT 2 HOURS AFTER DARK. A GOOD TIME FOR WEST COAST, ALASKA, OR HAWAII SEEMS TO BE 1400 TO 1900 CST. I WORKED A WL7 (ALASKAN NOVICE) AT 1422, A KL7 AT 1538, AND A WH6 (HAWAIIAN NOVICE) AT 1501. AROUND 1600 TO 1900 I'VE HEARD MANY WN6'S IN QSO WITH JA'S (JAPAN). SOMETIMES THE JAP STATION IS COMING THRU BUT NO SUCCESS YET AFTER MANY TRIES FROM THIS END. TO HEAR DX YOU HAVE TO LISTEN A LOT AND BE PATIENT. TRY PASSING OVER SOME OF THOSE S9 SIGNALS AND LISTEN THRU THE QRM FOR THE WEAKER BUT MORE INTERESTING CALL SIGNS. YOU WILL HAVE TO REMEMBER THAT PROPAGATION IS NOT ALWAYS GOOD EVERY DAY BUT THERE ARE MORE GOOD DAYS THAN POOR ONES. JUST REMEMBER... LISTEN AND BE PATIENT.

NEWS: HAVE A LOW POWER RIG... 15 TO 20 WATTS... THAT YOU WANT TO INCREASE TO A NOVICE GALLON... 75 WATTS?... TALK TO PAUL, WB9HGZ. HE HAS BUILT A MINI-LINEAR USING 3 TUBES. WN9ISU, TIM, NOW HAS A HEATH DX-100 AND A NEW INVERTED "V". HE FINDS LITTLE TIME FOR THE SHACK DUE TO WORK AND SCHOOL. WN9IOG, MIKE, MOVED HIS DIPOLE OUT OF THE ATTIC OVER THE ROOF AND SAT DOWN FOR A GREAT QSO WITH ITALY. PHIL, WN9HVK, HAS HIS TA-33JR UP ON THE ROTOR BUT PLANS TO RAISE IT HIGHER. IF HE SELLS THE EICO 720 HE WILL BUY A DRAKE 2NT. WN9HCL, ED, HAS HIS 14AVQ UP WITH RADIALS.

FLASH: FOR NOVICES WHO WANT PROFESSIONAL HELP ADVANCING UP TO GENERAL OR TECH, CLASSES WILL BE BEGINNING THIS SPRING AT ROCK VALLEY COLLEGE. TAUGHT BY PROFESSOR VITO, K9UCM, YOU MAY CHOOSE BETWEEN THE FRIDAY CLASS 6 TO 10 P.M., BEGINNING MAY 5, OR A SATURDAY CLASS, 8 TO 12 NOON, BEGINNING MAY 6. GRADUATION DAY WILL BE JULY 14 OR 15TH. CLASS SIZE IS LIMITED. GET YOUR REQUEST IN EARLY.
73, DE WN9HHH

PLEASE WELCOME THESE NEW RARA MEMBERS: WN9EHX, RICHARD BEILKE, ROCKFORD; WA9VCE, JIM RAFFERTY, LIBERTYVILLE; AND K9UIY, VIC SHIELDS, FREEPORT. PRESENT MEMBERSHIP IS ONLY 42 FOR 1972. PLEASE SEND IN YOUR DUES TODAY. THIS YEAR'S GOAL IS 100 MEMBERS.

ROCKFORD AMATEUR RADIO ASSN.
P.O. BOX 1744
ROCKFORD, ILL. 61110



PAUL K. DEAN WB9HGZ
317 SHAW
ROCKFORD, ILL. 61108