

HAM RAG

Affiliated with ARRL

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



NOVICE NIGHT!

FOR ALL NOVICES FROM 9 TO 90, THIS IS YOUR NIGHT.

"ALL YOU HAVE EVER WANTED TO KNOW ABOUT SETTING UP A NOVICE STATION BUT DIDN'T KNOW WHOM TO ASK".

ALL NOVICES ATTENDING WILL BE ELIGIBLE FOR SPECIAL DOOR PRIZES.

COFFEE & DOUGHNUTS WILL BE SERVED.

7:30 PM OCT. 13, 1972 at Rock Valley College

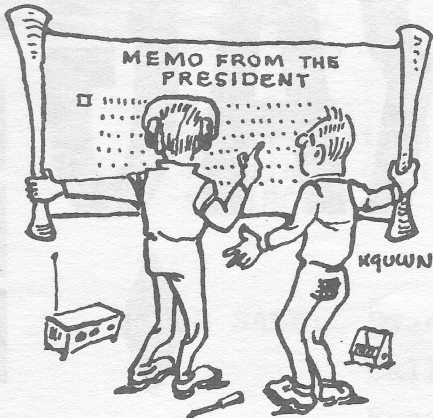
Classroom Building 1, Room 222

Enter from Spring Brook, drive to the North east corner of parking lot

OCT. 1972 ISSUE

ROCKFORD AMATEUR RADIO ASSOCIATION INC.

PRESIDENT - GUNNAR F. OHLSON, 5408 LACUMBRE [399-8289] K9WTS
SECRETARY - RALPH L. SHAFF, 1927 HANCOCK ST. [964-8736] WN9HHH
TREASURER - L.E. GEHLHAUSEN, 4610 CAYUGA RD. [399-3716] WA9WVY



Erl, WA9WMI and Paul, K9VJJ have located and made reservations for the RARA annual Christmas dinner. It will be held Thursday, December 14, 1972 at PINK PONY and we are getting the West Dining Room. Club members free, guests (wife, girlfriend, etc) \$5.00 each. Mark your calendar for this big event. Reservation cards will be mailed out at the end of November with all details. Note: Anyone joining RARA now is entitled to the free dinner. There will be door prizes!

This Ham-Rag is publishing "typical" questions asked by the FCC on the General/Technician examinations. Before you take the test, read the Ham-Rag!!!

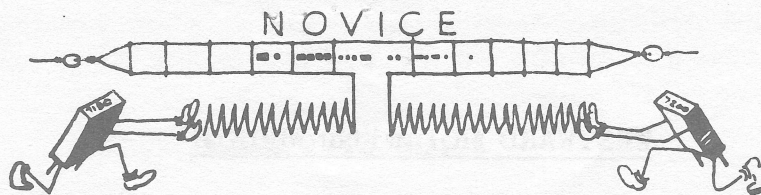
A few RARA member WB9ETH, K9UIY and K9WTS, are on the "payment" plan for ARRL life membership. WB9CHU recently became a life member and K9SAN is a charter life member.

RARA welcomes the following six new members: W9TET Carol Carlson, WN9KOT Clyde Aspling, WN9KOJ Reinhold Miller, WN9IED Dick Connors, WN9??? Tom Silletti and Duane Hyland.

The final HAMFEST meeting was held at Leland WA9WVY September 13. The net income was \$978.93 of which RARA obtained \$540.00. About 754 tickets were sold. It should be remembered, that the profit from the Hamfest does pay for the Christmas party and therefore deserves the support of all RARA members.

In all it was felt the Hamfest turned out good, well publicized in QST, CQ, 73 and Ham Radio. Attendance was also good and lots of old timers and newcomers were there. Without a doubt there are several areas that could be improved. Next yeat Belvidere will host the event and RARA co-sponsoring.

Red, W9FX, has an EXTRA CLASS LICENSE! Congratulations! Getting his first license 1911 sure helped him. WB9ILH was in Michigan for a few weeks with regular sNeds with Rockford on 40 meters. WB9IQJ, Jim, our vice-president is moving to Joliet, he accepted a new job there.



The RARAs meeting on the 13th is to be NOVICE NIGHT. Our club now has about 20 licensed novice members, if we count WN9HHG, Al, and WN9KOL, Randy, who have indicated they will raid the cookie jar in plenty of time for the Pink Pony Christmas Party. For the October program we expect to have a short talk in generalities about novice station equipment; transmitters, receivers, antennas and TR- switches. And then comes the part we think, and we hope you have been waiting for. Each individual novice or beginner who wants to participate will be paired off with a general, advanced or extra, for a private conversation. This is your opportunity to get the answers to the questions or problems that have been bugging you. Ask anything about ham radio. Put the question to your private list that you wouldn't ask before a larger audience because you might think it betrays your lack of knowledge. We suggest you come prepared with notes so that you will remember what you want to ask. If you know of anyone, fellow or gal, young or older who has an interest in ham radio, RARA welcomes everyone to this meeting.

If you are chasing DX you should have been aware in recent weeks that seasonal propagation conditions are changing for the better day by day. In the third week of September there were 2 or 3 days when signals from Europe were the best I have heard on the 15 meter novice frequencies. From around 10 AM till late afternoon. I copied stations as far east as Finland, Romania, Yugoslavia, Hungary and Czechoslovakia. You will find them mostly from 21.105 to 21.160 and if the long skip is in, which cuts out most of the state side QRM, their signals are easily copied without a Tribander at 75'!

Some time ago it was expected that decreasing solar activity would cause a considerable reduction in DX in the 15 meter band. Happily, CQ Magazine now reports that this fall and winter should have FB DX during most of the daylight hours.

WN9KOH John has been licensed only several weeks and has been doing very well with his DX. He reports WSOs with CT1ISH Portugal, PY2AEK Brazil and ZL3JO in New Zealand. WN9IOG Mike continues his FB DX, listing LA9JM Norway, DL6PE Germany, ZM4PM New Zealand and JH1FEL Japan. Mike has just home-brewed a 3-band QUAD at 35' and first reports are good. My DX in September includes YU2QZ Yugoslavia, YV3BT Venezuela, WH6HRG Hawaii, SL7BC and SM5ELP Sweden and for the second time G3YJI England.

Now lets be sure all the novices and beginners turn out for the October meeting.

WESTWARD HO! with WB9ETH

I tried it, I liked it!! In August we enjoyed a 3-week trip west in a 24' motorhome, and that's the only way to go. You wonder what that has to do with Ham Radio, well it makes a beautiful Ham Shack, complete with 2 meter F.M. for mobile contacts, and 10-40 meters for Stationary contacts.

I had a Hy-Gain 5/8 wave whip with a magnetic mount and a Drake Marker Luxury on 2 meters, and it worked great. I made several contacts on .34-.94 into several repeaters all the way out route I-80. Everyone on the band was extremely nice and helpful when directions were needed.

I think the most impressive repeater was the Squaw Mountain repeater maintained by the Denver Club. I made contact with the repeater almost 100 miles East of Denver, with solid copy all the way. There is a retired Ham "Joe" WØDCY in Georgetown that is a sort of Public Relations man for the repeater and he welcomes you to the system and invites you to use it as much as you like as long as you sign on and off with the time for logging purposes. I had my TR-22 (1 watt) along also, and I worked the repeater from Pikes Peak about 80 miles South of the repeater site. I talked to Joe WØDCY again which was about 150-175 miles, not bad for 1 watt. The farther north we got the less activity there was, but if you've ever been to Wyoming you'll know why, because there aren't any people, much less Hams.

I mounted my 14 AVQ on the roof of the Motor Home, and what a perfect ground plane that made for the vertical. I worked Bud WB9CHU, Ray WB9ILH, Lee WA9WVY, and Erl WA9WMI on 20 and 40 meters from various locations, using my little SB-34 (135 watts). I had a Swan Mobile antenna on the bumper, but being so close to the side of the Motor Home there was just too much capacitance to ground, and I couldn't get it to work at all. Next time I'll have to rig a mobile antenna on the roof with a spring base so I can pull it down when near trees or in town. All in all it was a terrific trip seeing all the sights around Colorado Springs including the Airforce Academy which was very impressive and beautiful. Next was Grand Teton National Park which is one of the prettiest spots in the country with the crystal clear lake and the Grand Tetons for a back drop.

Yellowstone Park with all the geysers and pools is still an impressive sight and interesting to see. The Bears were getting out of hand while we were there and several had to be trapped or shot with a tranquilizer and brought up to the high country away from the tourist area. One night they dumped over 18 garbage cans, one of which was about 50 ft. from our campsite. These were grizzly bears, full size, and about 8 foot high when standing erect.

The return route was through Buffalo, Wyoming and Rapid City, South Dakota to see the flood damage which was really devastating. Houses were moved 40 to 50 feet off of their foundations, and some just crushed and smashed. There is a fine repeater on 34-94 in Rapid City, and the total 2 meter FM population is 13.

EXAM QUIZ NO. 1

You must be able to answer these questions on a general class examination! A number of selected questions will appear each month.

1. The Gilbert is the basic unit of electrical _____.
Resistance Power Current Conductance
Magnet~~o~~-Motive force
2. What is the unit of electrical frequency?
ohms/sec meters/sec amps/sec cycles/sec
Feet/sec
3. When 2 resistors are connected in Series the total resistance equals?
Difference of the individual resistance values
Product of the individual resistance values
Sum of the individual resistance values
Square root of the largest value
Square root of the smallest value
4. When 2 resistors are connected in parallel the effective resistance equals?
Difference of the resistance values
Sum of the resistance values
Product of the resistance values
Quotient obtained by dividing the large value by the smaller one
Product of the resistance values divided by the sum of the resistance values
5. What is the total capacitance of 2 capacitors connected in parallel?
The sum of the capacitances
The difference of the 2 capacitances
The product of the 2 capacitances
Less than the smaller capacitor
Square root of the large capacitor

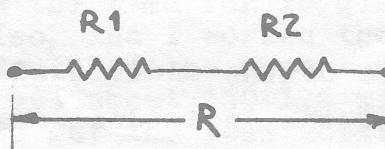
6. What is the voltage drop across a resistor having 5,000 ohms and carrying a current of 20 milliamperes?

- One volt
- 10 volts
- 100 volts
- 1000 volts
- 110 volts

ANSWERS TO QUIZ NO. 1

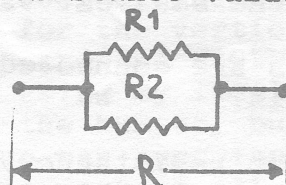
1. By definition Gilbert is Magneto-Motive force.
2. The unit of electrical frequency is cycles/sec or Hertz.
3. Two resistors connected in series have a total resistance equal to the sum of each resistor.

$$R = R_1 + R_2$$



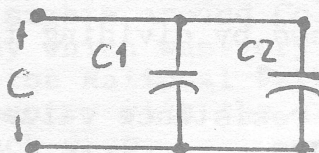
4. When two resistors are connected in parallel the effective resistance equals the product of the resistance values divided by the sum of the resistance values.

$$R = \frac{R_1 \times R_2}{R_1 + R_2}$$



5. The total capacitance of two capacitors connected in parallel is the sum of capacitance.

$$C = C_1 + C_2$$



6. The voltage drop across 5000 ohms carrying a current of 20 mA = 100 volts
 $E = I \times R = 0.020 \times 5000 = 100 \text{ volts}$

MEMBERSHIP APPLICATION

ROCKFORD AMATEUR RADIO ASSOCIATION INC.

NAME _____ CALL _____

ADDRESS _____ CITY _____

STATE _____ ZIP _____

MAIL TO: "HAM RADIO" BOX 1744 ROCKFORD, ILL.

RARA NEWS

Worlds largest 20 meter beam? 13 elements on a 140 foot boom at 120 feet high, designed and constructed by WA6ZZK. That antenna and other famous stations of Southern California DX Club was shown by Al Friedman, W9YRA, at the well attended September meeting. Thanks Al!



HAM GEAR FOR SALE OR TRADE?
NEWS ITEMS, JOKES OR CARTOONS OF INTEREST TO HAMS?
FEATURE ARTICLES OR SMALL HAM GEAR BUILDING PROJECTS?
WE WOULD LIKE TO PRINT THEM IN THE "HAM-RAG" - CALL:

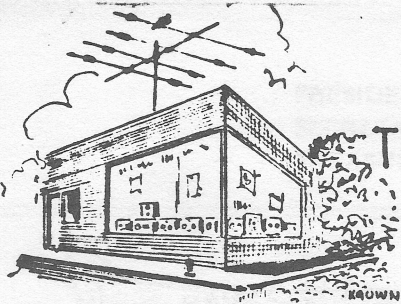
Jack, K9UWN, 399-3890

Gun, K9WTS, 399-8289

Ralph, WN9HHH, 964-8736



HUNG UP ON SOME PROBLEM?
DON'T SHOOT YOUR GEAR!
RARA CAN HELP YOU DEBUG IT.

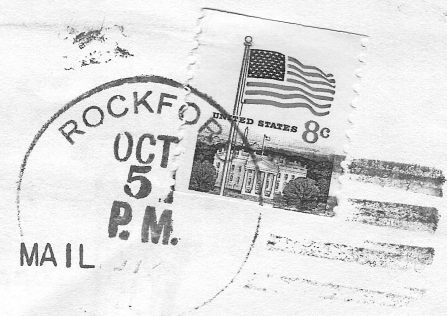
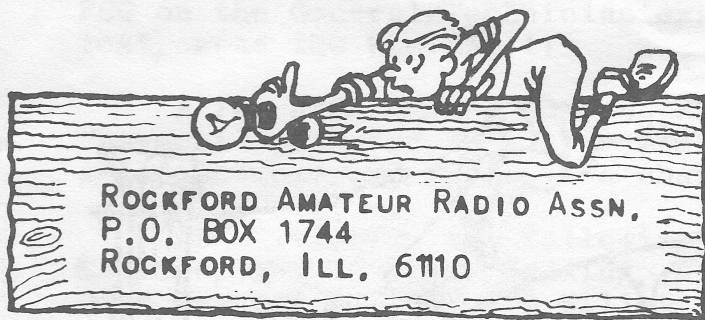


THE TRADERS CORNER

For Sale: Amateur receiver 80 - 10 meters, SSB-AM-CW sensitivity 1 microvolt, Heath HD-11 Q-multiplier. Original cost \$200 +, manual included. \$85 mike, WN9IOG phone 1-874-4646.

FOR SALE: Swan 250C with remote VFO and power supply.
Call Mrs Harvey James at 633-0087.
Excellent condition, reasonable price.

FOR SALE: Heath compact linear, HA14, 1 KW with AC supply \$110.00
3 element 20 meter beam Hy-gain used \$25.00
K9WTS Phone 399-8289



Paul Dean WB9HGZ
317 Shaw Street
Rockford, Ill. 61108