

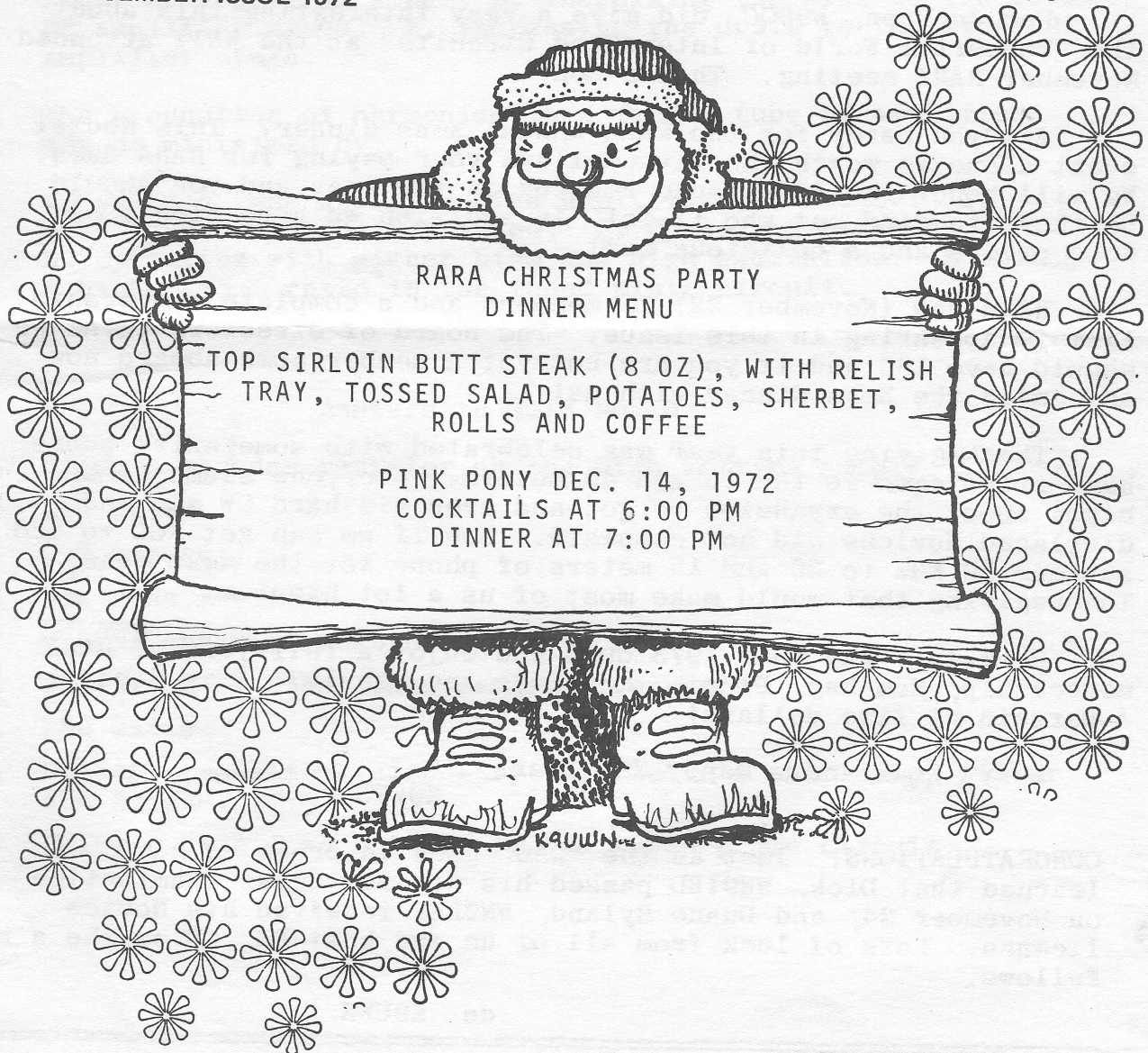
HAM RAG

Affiliated with ARRL

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



DECEMBER ISSUE 1972



RARA CHRISTMAS PARTY DINNER MENU

TOP SIRLOIN BUTT STEAK (8 OZ), WITH RELISH
TRAY, TOSSED SALAD, POTATOES, SHERBET,
ROLLS AND COFFEE

PINK PONY DEC. 14, 1972
COCKTAILS AT 6:00 PM
DINNER AT 7:00 PM

KQUWN



NOVICE & BEGINNER

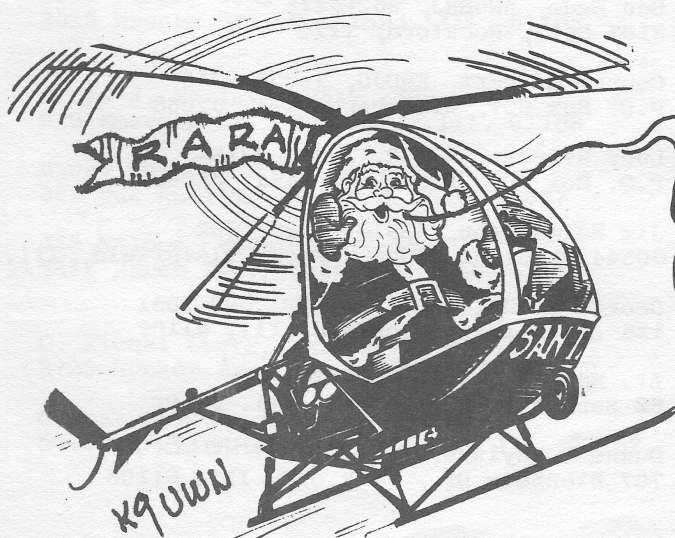
Well, friends of RARA, my time has come. This OM either goes for his general ticket or its off the air in a few short months. A FB friend, WB9KOS Bill, needled me at exactly the right time in exactly the right place and now I'm off to the races! WN9IOG Mike and I have a target date of December 15, to go to the city and face the Feds at the FCC. I feel on the ragged edge of being confident I can trade the WN for a WB but I sure know also theres many a slip twixt the cup and the lip and I won't fret if I have to go back and try again after five weeks. Cathode follower? $Z = 276 \log b \text{ over } a$? How about that knee in the zener diode's curve?

I think none of us would trade the new 100 KHz on 10 meters for our 100 KHz on 15 because 10 is not as reliable; is not open as much. But I did notice on Thanksgiving day or the day after, when schools were closed, the 10 meter segment was loaded with novice and other signals. I haven't checked 10 meters often and have not heard any good DX. On November 22nd and for a couple of days after, a few novices forgot to remember they should move down 50 KHz on 40 meters and sure enough they heard about it from the fone boys. Some novices with their new VFO privileges are operating perilously close to the band edges and going over the edge is a no-no, remember?

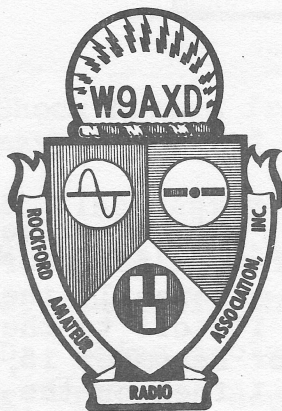
WN9KOT Clyde is properly proud of his new Drake 2 NT.
 WN9IOG Mike has upgraded his receiver to a Hammerlund 170A.
 WN9IST John is hearing loud and clear with a new Drake R4B.
 WN9KOO Gus will be sounding off as soon as his antenna is repaired, using a Knight T60 and a Heath SB300.

If you are an ARRL member send an S.A.S.E. to the League office in Newington, Conn. 06111 and ask for copies of "Members Guide to U.S. Ham Bands" form S15 and "Operating Aid #14 Ending Signals etc." You'll be glad you did. They're free of charge.

73 De WN9HHH



MERRY XMAS AND A
 HAPPY NEW YEAR
 TO ALL OF YOU. DE
 UR HAM RAG STAFF.



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EXAM QUIZ NO. 3
General Class License

15. Shock hazard from high voltage condensers remaining charged may be reduced by:
- A. Increasing the capacity of the condensers.
 - B. Doubling the number of the condensers.
 - C. Turn off the filament or heater supplies.
 - D. Using a bleeder resistor on the high voltage supply.
 - E. Carry a double indemnity life insurance policy.
16. The plate power input to an R.F. amplifier stage having a plate potential of 1000 volts and drawing a plate current of 100 milliamperes is:
- A. 10, B. 100, C. 200, D. 400, E. 1000 watts
17. What value of DC plate current is required to produce a plate input power of 300 watts if the plate voltage is 1500 volts?
- A. 0.2 amperes
 - B. 0.01 amperes
 - C. 1.0 amperes
 - D. 5.0 amperes
 - E. 150 amperes
18. Which of the following type of message has preference over all others?
- A. Government traffic, B. Meteorological telegrams, C. Urgent private and press telegrams, D. Official and Service telegrams relevant to trouble in communication channels. E. Distress messages.
19. Frequency modulation of an amplitude modulated radio frequency carrier:
- A. Is permissible in the lower frequency amateur bands.
 - B. Reduces the interference potentialities of the emission.
 - C. Prevents the radiation of spurious frequency.
 - D. Causes serious sideband distortion. E. Cannot be received on a badly tuned transmitter.
20. An unneutralized triode Class C amplifier stage in a transmitter may cause:
- A. Reduction of even harmonics. B. Excessive plate current. C. Reversed grid current. D. Power supply to become overloaded. E. Radiation of other than the desired frequencies.

21. If the plate input power to an amplifier tube is 200 watts and 50 watts is dissipated in the plate element as heat, what is the plate power output?
- A. 25 watts, B. 50 watts, C. 150 watts, D. 100 watts, E. 125 watts.
22. Interference to TV reception caused by the radiation of harmonics by an amateur station may be suppressed by:
- A. Proper transmitter circuitry and adequate shielding, filter and bypass. B. Reducing the value of capacitance in the tank circuit of the final RF amplifier stage. C. Increasing the values of inductance in the plate tank circuit of the final RF amplifier stage. D. Increasing the bias to the final RF amplifier stage. E. Increasing the drive to the final RF amplifier stage.
23. The production of harmonics in a vacuum tube RF amplifier may be minimized by:
- A. Using a tube having a high amplification factor. B. Harmonics cannot be minimized. C. Operating class C. D. Operating with higher bias and high excitation. E. Using a high C to L ratio in the tuned plate circuit.

Answers to Quiz No. 3

15. Using a bleeder resistor on the high voltage supply.
16. 100 watts.
17. 0.2 amperes.
18. Distress messages.
19. Causes serious sideband distortion.
20. Radiation of other than desired frequency.
21. 150 watts.
22. Proper transmitter circuitry and adequate shielding, filter and bypass.
23. Using a high C to L ratio in the tuned plate circuit.

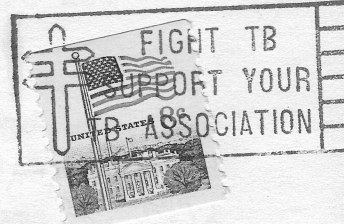
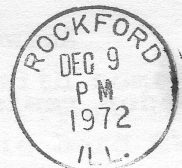


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FIRST CLASS

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