



Novice

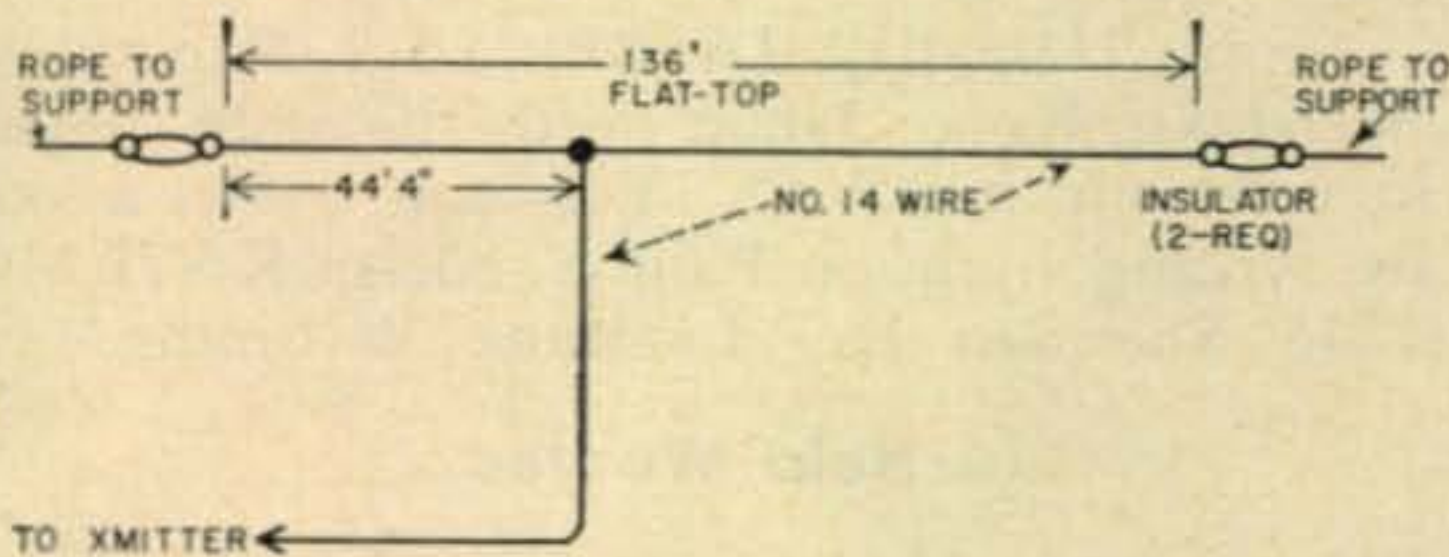


Fig. 1—The popular Windom Antenna for 80-40-20-10 meter operation. A twin lead fed version is described in the ARRL Handbook.

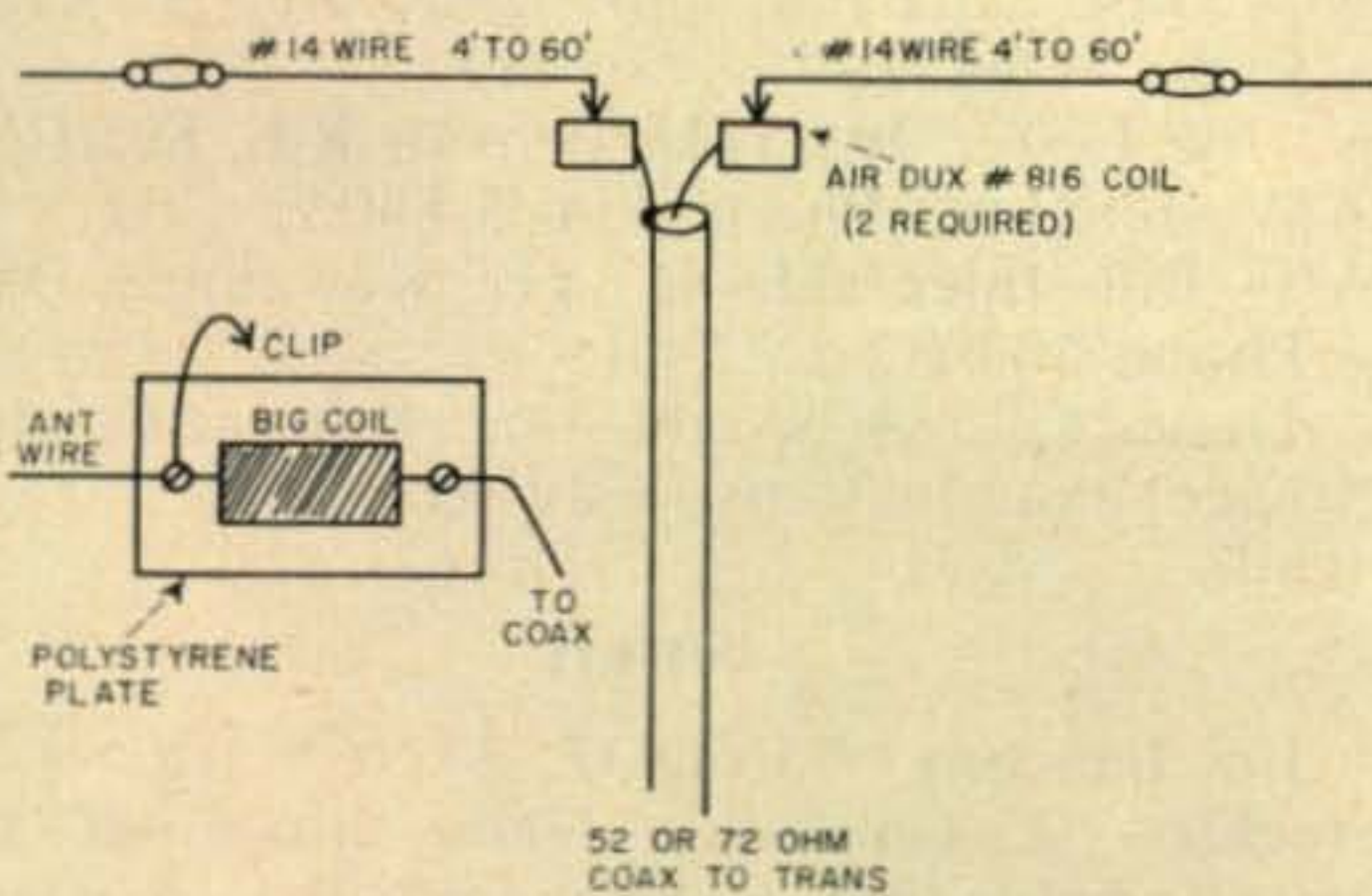


Fig. 2—A limited space antenna can be erected with as little as 9' between support structures.

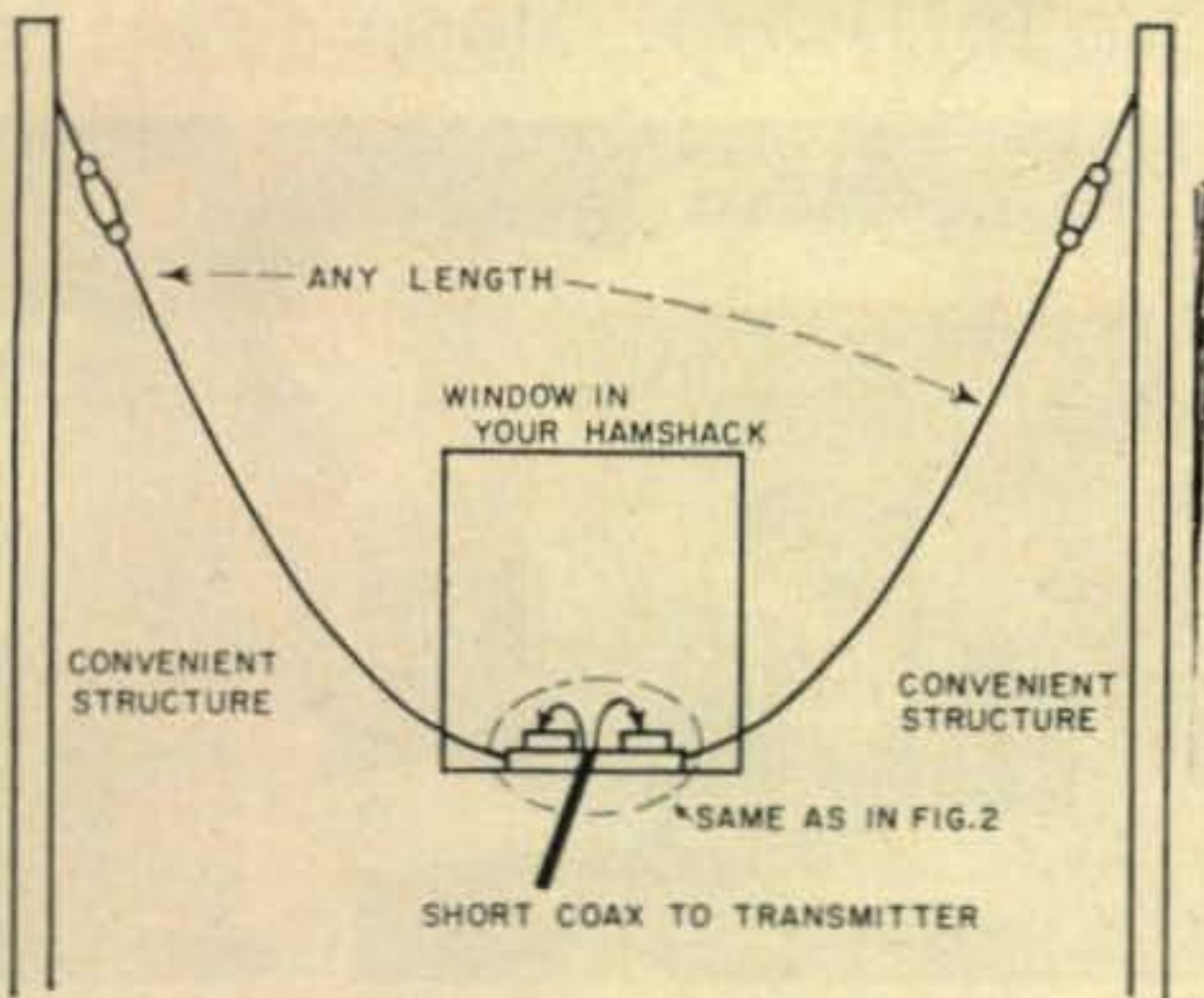


Fig. 3—A limited space all band antenna. By using loading coils the length and position of the wires is quite flexible.

The other evening I was telling a fellow-ham about my "120 foot long-wire for the 75 meter band," and got called on it. Long-wire is an often misused term, like "best 73's OM" (which I am also guilty of using). A piece of wire 120 foot long would constitute a $\frac{1}{2}$ wave on 75 meters and therefore does not qualify as a long-wire. The Radio Handbook implies that a long-wire must be at least one wavelength long. The "old timers" probably would not think of such an end fed antenna as a long-wire until its length exceeded three wavelengths.

Speaking of antennas, I receive a lot of requests for information on the Windom and on limited space antennas for 80 and 40 meters. The Windom, or off-center-fed, is a multiband antenna that is $\frac{1}{2}$ wavelength long on the lowest frequency supplied to the antenna. It can be fed with a single wire or with 300 ohm TV lead-in, as long as desired. The Windom only works on even multiples, such as 80, 40, 20, 10, but not 15 meters. If you need an antenna for these four bands, try the Windom shown in fig. 1. It should be pointed out that this antenna is more sensitive to TVI than a dipole, particularly when fed directly from your pi-network or link. If harmonic type TVI is a problem, use it with an antenna coupler.

Space your problem? If so, figure out what the longest flat-top you can erect would be. Cut a piece of #14 to this length, then cut it in half. Connect two of the Air Dux 816 coils as shown in fig. 2, and connect to your transmission line (either 52 or 72 ohm coax). Put taps every turn on the *loading coils* so that you can adjust the amount of *inductance* in series with the antenna wire. The point the alligator clip is connected to can be determined by checking with a field strength meter, adjust for maximum signal, of course. Do not use your receiver "S" meter as the indicator. If you do not have a suitable measuring device, check your signal strength with a ham across town.

A variation of this antenna, that will appeal to apartment dwellers, is shown in fig. 3. Make the two halves of the dipole as long as pos-



Michael Hunt, KN5TCQ, Rt. 1, Box 243, N. Biloxi, Miss. runs 25 watts to a home brew exhaler, and reproduces 'em with an SX-43 receiver. Look for Mike on 40.

sible, and as close to the same length as you can. The dipole elements do not have to be horizontal or even pointed in opposite directions. Keep the ends of the antenna as high as possible, and keep the two wires as far apart as possible. The coil, which is on your window sill, is adjusted in the same manner as before. However, since it is so easy to-get-to you can change the taps for each band, 80 through 10 meters. Once you have determined the proper tap points for each band, the extra taps can be removed, if you like.

Who's DX?

The following stations were logged at W6TNS on the 20 meter band: KN9PSN, Dec. 30, 1958, 14.318 *mc*, RST 568, at 2045 GMT, KN4CTP, Jan. 29, 1959, 14.310 *mc*, 539, 2110 GMT, KN4CFI, Jan. 29, 1959, 14.310 *mc*, 559, 2348 GMT- KNØRUQ, Feb. 7, 1959, 14.312 *mc*, 539, 1753 GMT.

Three new DX reporters tell of Novice stations heard in far away lands. The first, Hans Nystrom, SM3NJ, Box 3224, Hofors, Sweden logged the following stations on 40 meters between the hours of 0200- 0300 GMT on the first of January, 1959: KN1HEF, HOI, IRI, KN2ULL, KN3EPF, GAD, HAG, KN4-UOK, VCX, YLR, WV2APQ, BJI, BRL, CTB. His receiving equipment consists of a RCA AR-88 and a 270' longwire. The 40 meter band is Hans' favorite and he will be looking for Novices on the various holidays.

If you 80 meter boys feel slighted, fret no more. The DX has been good and you were heard by Paul L. Fracker, W8QOH/MM on board the SS "Alcoa Pioneer," anchored off Haifa, Israel. The following stations were copied on Jan. 16, between 0455- 0511 GMT: KN2OJQ (559) calling K8BNL, KN2QEV (459) calling CQ, KN2SNQ (559) working WV2AEZ, KN4BZC (559) working KN5T-JG, KN5SNC (449) calling ?, KN5TJG (349) calling CQ. On the 17th of Jan. Paul logged these three stations: WV2CVV (568- drift) calling CQ, K4RNM (559) calling CQ, K5-KMG (449) —. As Paul says "these fellows

should be congratulated for having very efficient rigs and antenna setups."

Were you one of the ones lucky enough to work my friend Flavio Serrano, PY1CK, on his DXpedition to Trindade Island as PYØNA. Flavio says that whenever he would call CQ-Novice, he would be flooded with other calls and was only able to work nine stations. They were: KN1IFJ, Nov. 2, 0043 GMT (579), KN2SQI, Nov. 2, 0030 GMT (569), KN2-UVU, Nov. 17, 1944 GMT, (599), WV2BWS, Nov. 18, 2122 GMT (449), KN4YPO, Nov. 21, 2044 GMT, (559), KN5QKK, Nov. 22, 0453 GMT, (549), KN8IHZ, Nov. 15, 0227 GMT, (549), KN8JDM, Nov. 15, 0214 GMT, (569), KN8KTZ, Nov. 22, 0447 GMT, (559). Congratulations fellows, this was quite an accomplishment. I know, I was in there pitching too!

Seimi Hamada, JA3BP, 25-5 Nagaracho, Nagataku, Kobe, Japan needs the state of Del. to complete his WAS. You can make a sked by writing him, or Paul Sandels, KN7EMO, 1415 Sheridan St., Laramie, Wyoming.

Help Wanted

- W2- Larry Meyer, 93-54 Queens Blvd., (N.Y.C. ????) Phone IL 9-2957
- Lanny Brown, 69-21 229 St., Bayside 64, N. Y. Phone FL 7-5330
- W7- Dick Schatzha, 3608 2nd Ave. N., Great Falls, Montana
- Joe Lester Jr., 5415 Penrith Rd., Seattle 5, Washington, Phone LA 5-8403
- W9- Bill Ihlenfeld, R. #1, Kewaunee, Wis. Phone 503-F2

These fellows would like help with their Novice examinations. Can you give them a hand?

Letters

Jim Baucom, WV6DOZ, 3520 Margaret St., Stockton 4, California leads things off this month, by telling us he would like to start a 2 meter CD net for the Central Calif. valley. Jim also operates 80 and 40 with a home brew 50 watter and a S-85 receiver.

Bob Hardwick, Jr., Memorial Park, Athens,



Just to prove you guys don't have a monopoly on things, here is a shot of the XYL of Joe Poston, W4K9GCE. Look for them on the 15 meter Novice band, 21.109 or 21.112