

# THE EVENING WORLD'S RADIO PHONE SERVICE COLUMN.

By Capt. Robert Scofield Wood.  
CONCERNING THE 350 AND 400 METRE CONFLICT.

Immense letters have been received by this department from radio enthusiasts who are viewing with consternation the interference and trouble caused by the newly designated 400-metre stations and the 350-metre establishments broadcasting at the same time. From the majority of letters it seems that the difference in wave length does not permit the tuning of one station to the exclusion of the other stations' offerings. To tune in a 400-metre station or a 350-metre station clearly and without interference seems practically impossible when both stations are on the air. The results are little better, according to many, than having one phonograph playing jazz with a loud needle and another running off a Caruso record with a soft needle simultaneously.

Whether the fault lies with the broadcasting or receiving instruments is a matter which will be adjusted under pressure of popular demand. The slightest error in tuning the broadcasting instrument would be sufficient to cause the trouble, as for instance a station broadcasting on 260 metres with an error of 10 per cent. or even 5 per cent. on the high side of the scale. With an error of 10 per cent. the station would be broadcasting on a wave length of 276 metres and on 2 per cent. of 260 metres, leaving a very small and almost negligible margin between it and the 400-metre stations. Then, too, the broadcasters in their effort to reach as many people as possible are apt to force more power into the aerial than it was designed to efficiently radiate, with a result that the numbers being broadcast come out in a band of wave lengths ranging from ten or twenty metres on both sides of the wave length for which the instrument is actually tuned. Thus the margin between the two conflicting stations is cut down and made far too small to be compensated for by the general run of receiving sets on the market to-day. Despite the cause of the trouble, let us try to adjust it on the instruments over which we have control, the receivers.

Selectivity in tuning is a matter of design, and both crystal and audion tube sets as sold at present are not sufficiently sensitive to tune to an exact wave length to the exclusion of everything else in the immediate neighborhood. The manufacturers and designers are now called upon to fill a long and arduous task to the public and put on the market an instrument capable of coping with the situation.

However, for the benefit of those who are already in possession of radio apparatus, here are a few recommendations that may help eliminate a lot of trouble, and while they will not tune in stations to the absolute exclusion of all other broadcasting at the same time, they will tend to lessen the interference so that it does not become a menace and will hardly be objectionable.

Those who are using exceptionally large antennae know from experience that great difficulty is encountered in tuning an instrument sharply, and it is advised that they reduce the length of the aerial to approximately seventy-five feet, including the lead-in wire. This antenna should be of the single wire type and stretched as far away from metallic objects and as free of all surrounding obstructions as can conveniently be arranged. Keep the antenna as far from the metallic roof as possible and remember to keep the line of direction at right angles to all power-carrying lines such as high tension cables and elevated and subway third rails. The lead-in should be kept away from water pipes, metallic leaders and drain lines. It has been established by actual test that the short antenna will tune much more sharply than the long antenna for both coupled and single circuit tuners.

Another method which will work to advantage—this, however, holds good only for vacuum tube sets of two or three tubes located within a few miles of the broadcasting stations—is to make use of the well known directional properties of the loop aerial. By turning the

loop, the construction of which has been described in these columns several times, in the direction of the station to be received, all stations not in the line of the loop will be cut out. The loop cannot be used with any degree of success with vacuum tube sets which are not equipped with at least two steps of radio frequency amplification before the detector, where the set is more than ten miles from the broadcasting establishment. For crystal set vacuum tube sets of the detector and two-step variety outside of the ten-mile radius, the short antenna, as described above, is recommended.

The ideal condition, of course, would be to have a difference of broadcasting wave lengths of such magnitude that interference with one another would be impossible even on the present-day apparatus.

### WOR-NEWARK 400 METRES.

2.30 P. M.—Synopsis of "Much Ado About Nothing."  
2.45 P. M.—Piano recital by Morton Gould, eight-year-old composer: (a) "C Minor Prelude" (Rachmaninoff), (b) "Minuet" (Paderewski), (c) "Song of the Lark" (Tchaikowsky).  
3.15 P. M.—M. E. Blake, professor of horticulture, on "Fall Care of the Fruit Trees and Plants."  
3.45 P. M.—Piano selections by Morton Gould: (a) "Hungarian Phantasy" (Morton Gould), (b) "Radio Waltz" (Morton Gould).  
6.15 P. M.—"Irish Night," by Jolly Bill Steinke.  
8.30 to 7 P. M.—"Sporting News Up to the Minute," by Fred Hendell, Sporting Editor of the Newark Ledger.

### WJZ-NEWARK 300 METRES.

9.00 A. M.—Early morning reports and prices on farm products; musical programme.  
11.55 to 12.00 M.—Standard time signals from Arlington.  
12.00 M.—Opening prices on active bonds and stocks, grain, coffee and sugar. Midday reports and prices on farm products.  
1.00 P. M.—Midday prices of active bonds and stocks.  
4.00 P. M.—Closing prices on active bonds and stocks.  
5.20 P. M.—Closing prices on stocks, bonds, grain, coffee and sugar.  
5.45 P. M.—Resume of sporting events.  
5.55 P. M.—"Iron and Steel Review," by Iron Age.  
6.00 P. M.—Weekly feature by Vogue.  
7.00 P. M.—"Animal Stories," by Florence Vincent Smith.  
9.00 P. M.—Address by Alfred E. Smith.  
9.15 P. M.—Majestic Night. "Operat-



1028—Russian after dinner coffee set of hammered copper—\$10

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ing the World's Largest Ship," by Sir Roderick Hayes, K. C., M. G., D. S. O., R. D. Original compositions song by J. C. H. Bonnamont, Chief Surgeon; Irish ballad, "I Miss You So, My Avonmore"; Scotch song, "Just My Hairie Laid"; English ballad, "If the World Were Dressed With Roses"; "House-keeping on the World's Largest Ship," by Chief Steward J. O. Jennings; "Sea Sickness," by Chief Surgeon Beaumont.  
9.55 to 10.00 P. M.—Arlington time signals; official weather forecast.  
10.01 P. M.—"Majestic Night" programme continued.

### WGY-SCHENECTADY 400 METRES.

12 M.—U. S. Naval Observatory time signals.  
12.30 P. M.—Noon stock market quotations.  
12.45 P. M.—Weather forecast.  
2 P. M.—Music.  
2 P. M.—Produce and stock market quotations and reports; news bulletin.

### WGI-MEDFORD HILLSIDE 300 METRES.

7 A. M.—"Before Breakfast Set Ups," Mr. Arthur E. Baird, Gaines College of Physical Culture.  
9.30 A. M.—Retail prices collected by the Massachusetts Department of Agriculture from Boston markets and grocery stores. Music.  
10.30 A. M.—Official New England season forecast.  
11.30 A. M.—Music.  
1.30 P. M.—Boston farmers, produce market report.  
2 P. M.—Mid afternoon news broadcast.  
3.25 P. M.—Concert programme recommending the playing of the artists: 1. Spinning Song (Mendelssohn), played by Sergei Rachmaninoff. 2. The Crap Shooters a Negro dance (Lane), by George Copland. 3. Etude opus 21 No. 1 (Moskowsky), by Felix Fox. 4. March of the Dwarfs (Grieg), by Herbert Gordon. 5. Carmen Potpourri (Bizet), by Howard Brockway. 6. Indian Summer (Herbert), by Victor Herbert. 7. Chanson Honrois (Depont), by Milton Siskind. 8. The Parade of Wooden Sol-

diers (Jesse), by Clair and Fairchild.  
6 P. M.—Market report, United States Bureau of Agricultural Economics. Brighton Live Stock Market. Fruits and vegetables market, dairy and produce market. Chicago live stock market. Boston farmers, produce market report.  
6.50 P. M.—Boston police reports. Late news flashes. Early sport news.  
7 P. M.—Evening programme of music and stories.

### ITALIAN FREIGHTER RUNS ASHORE.

HALIFAX, N. S., Oct. 25.—The Italian freight steamer Montebello is ashore on the Anticosti Islands, according to wireless messages from Clay Point, Anticosti. The Montebello, bound from New York to Montreal, is resting easily, and there are good prospects of getting her off. She is of 2,226 tons.

# CANDY

PENNY A POUND PROFIT

Specials for Thursday, October 26th  
**National Babies** (A filled confection) These candy Kiddies are presented in pleasing variety of colors, flavors and fillings. The whole family, POUND NET 24c  
**Chocolate Covered Nuted Moguls** These are distinctive Loft creations and enjoy a large following among the candy loving public. Regularly 59c. POUND NET 49c

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IN OUR FRIDAY ADS will be found a very complete and wonderful line of Hallowe'en NOVELTIES, FAVORS, PARTY SWEETS and ATTRACTIVE HALLOWEEN PACKAGES. Everything attractively priced, as only our tremendous buying and manufacturing power can make possible.  
FOR EXACT LOCATIONS SEE TELEPHONE DIRECTORY



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\$300. OVERSTUFFED TAPESTRY SUITE NOW \$225.

Overstuffed Tapestry Day-an-Bed Suite  
Consisting of roomy Chair, Rocker and Bed Davenport which when opened makes a full size bed for two adults.

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The 3 Owen Stores, selling Day-an-Beds exclusively, are the largest distributors of Bed Davenports in New York.

You would have to search the selling records of many years back to equal this offer—and then you couldn't beat it. The necessity for space compels the offer—we can't continue to pay warehouse storage charges and you can't afford to ignore this money-saving opportunity.

During this big CLEARING SALE floor samples, including discontinued factory patterns, are offered at 20% to 40% off OWEN DAY-AN-BEDS AS LOW AS \$36.50  
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A noble span, invisible to the eye, reaches across from our imposing new building to the humble little basement store in which our house had its origin.

That span is the powerful personality of the late L. M. Blumstein the founder of our house.

Our new building—the largest department store in the residential section of New York—is not merely a commercial structure of stone and steel. It is a monument to the conquering courage and indomitable ideals of L. M. Blumstein.

It is to him this house owes its origin—it is to him it owes its growth. Step by step he built it up from its humble beginnings. Year by year he built it greater and greater. *But the greatest thing he built during all his years was public confidence.*

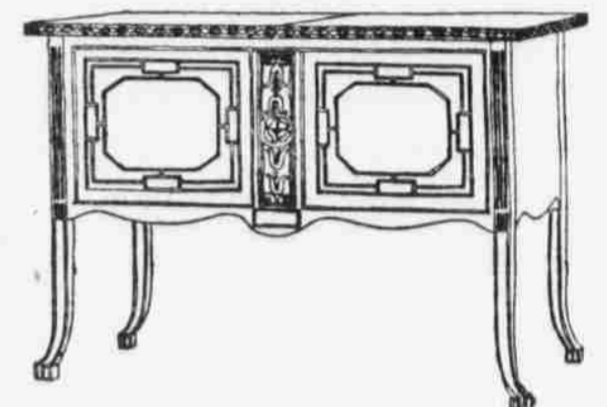
Our new building is better than all its predecessors in every way but one—better in construction, better in merchandise, better in service, but not better in policy. The policy adopted by our founder almost half a century ago cannot be improved upon. *"Right or wrong, the customer is always right."*

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