

### PRINCIPLES OF RADIO MESSAGE TOLD BY EXPERT

O'Rourke Gives Beginners Hints on How to Build Station and Answers Questions.

By JOHN G. O'ROURKE, Supt. District of Eastern Nebraska, The American Radio Relay League.

In the study and observation of electricity, we are led to believe that there are two kinds of electricity, namely, positive and negative. They are given these names because of the fact that their actions are exactly opposite. There are few experimenters today who doubt the existence of electricity, as negative electricity has been obtained and separated from all matter.

As yet positive electricity has been observed only when in the presence or associated with negative electricity. The presence of electricity is evidenced only by its effects. The action of the forces of electricity have been observed to take place in a vacuum between charges wholly separated from one another.

It is impossible for us to conceive of any action taking place between isolated charges without the existence of some conducting medium. We are therefore led to believe that there exist certain tenuous substance which we have named ether. Therefore, in explaining electrical phenomena we assume ether to be a conducting medium. Ether waves travel at the rate of 186,000 miles a second or roughly 11,000,000 miles a minute.

The antenna is a certain amount of wire set in a certain position and of a certain length and height. It

has the power of radiating electrical energy at a certain definite frequency or wave length, depending upon its capacity and inductance. This subject will be dealt with more in detail under the article of "principles of tuning."

To prevent undue interference, the government has limited the amateur to a wave length of 200 meters.

The antenna is the beginner's delight and the older radio bug's chief source of worry and trouble.

There are in use today by the amateurs, three types of aerials, namely, the fan type, the "T" type and the inverted "L" type. Of the three types named, the latter gives the most directional effect.

Any experimenter may make use of this department as a source of information regarding radio communication.

No questions answered that do not bear interest to the amateur body as a whole.

R. G. H. Lincoln, Neb.

1. What and how do I procure a license for operating an amateur radio station?

A. From the radio inspector, Customs House, Chicago, Ill.

2. What are the requirements?

A. A fundamental knowledge of the operation and theory of radio communication. A knowledge of the radio laws. To be able to send and receive a minimum of ten words a minute, International Morse code.

Nearly 2,500 Convicted On Mann Act Charges

Chicago, April 30.—Twenty-four hundred and fifty-nine persons have been convicted of violating the Mann white slave law in nine years, according to figures furnished by the Chicago Law and Order League by the Department of Justice.

Sentences assessed totaled 3,591 years, fines collected \$249,672.63.

President Taft signed the Mann act on June 25, 1910. Of those indicted since that time only 342 have been acquitted and 352 indictments nolle prossed.

The figures are up to June 30, 1919, as reports for the current year have not been compiled.

### WOOD WILL BE NOMINATED, HIS MANAGER SAYS

Predicts Army Man Will Go to Chicago With Twice as Many Delegates as Any Candidate.

Chicago Tribune—Omaha Bee Leased Wire. Washington, April 30.—Predicting today that Gen. Leonard Wood would go into the republican national convention at Chicago with twice as many delegates as any other candidate for the presidential nomination, Senator George H. Moses, Wood campaign manager, declared he could not believe that the responsible republican leaders would refuse to nominate the general.

There is much talk in Washington concerning the improbability of Wood being nominated in Chicago. Political leaders here are saying that Wood will not have enough delegates and cannot get enough. They are saying the same thing about Senator Hiram Johnson and when asked who will be nominated, the almost invariable reply of the party leaders is: "Lowden or a dark horse."

But Senator Moses does not think so.

"Despite all the efforts that have been made to head him off," Senator Moses said today, "Leonard Wood has demonstrated in New Jersey, Ohio and Massachusetts that he has strength with the people is universal and so deep-seated that his hold upon them cannot be shaken by any combination they may make to try to defeat him."

"General Wood has gained at least 50 delegates in those three states and in Idaho. He will go to the Chicago convention with at

least twice as many delegates open behind his candidacy as any man and with scores of others for him at heart and waiting only for the proper moment to swing into his column. These delegates are for Wood and will not listen to any attempts to manipulate them for other candidates. On the first ballot

General Wood will have far more than any other man and when the states where he is second choice begin to throw their strength to him on the second ballot no one will be able to stop him and he will go over with a noise that will startle the whole country.

"I cannot believe that responsible republican leaders are going to throw away their opportunity to do their part in naming the one man who would assure republican victory in November. They did it in 1912 and again in 1916, because they did not want Theodore Roosevelt, and the country and republican voters know well what happened."

### No Word Is Received of Missing Boy by Parents

No word has been received by the parents of Frank Werth, 17 years old, 1815 Vinton street, who vanished from his home last week. This is the second son of the fam-

ily to mysteriously disappear. Another boy, drifted to Paris unknown six years ago.

Charles Werth, the father, fireman at the Flatiron building, has not heard from either boy.

See Want Ads Are Best Business Boosters.

Barber Shop Expert Service Fourth Floor

# BRANDEIS STORES FOR MEN

May White Sales Start Saturday

## Clothes Satisfaction After You've Paid the Bill



Summed up in a few words, that's what you are looking for; clothes satisfaction after you've paid the bill. Inferior clothes give you satisfaction only once—at the time you pay for them. And that isn't enough.

Good Suits Cost the Least Here Are Some Good Ones

They'll keep you well dressed for a long time. They'll wear. We've seen to that. Only the most durable weaves have been used; the tailoring is dependable. Everything about them is of quality standard that makes for Service. Even the patterns are of such as will retain their impressive snappy character. They're real good clothes—common sense values.

at \$65

Others—\$35, \$40, \$45, \$50, \$60, \$75, \$95, \$115

Brandeis Stores—Second Floor—Men's Store

Buy a Worth While Shoe

## Men's Shoes Special Values at \$10

BY a "worth while" shoe we mean a shoe that looks well and wears well.

For Saturday we are showing just such a shoe in dark tan Russian calf or gun metal, with welt soles; and in stock in every size desired. Priced at \$10



The Spring display of new and distinctive footwear productions for men and boys is now ready for your inspection, and we feel confident that you will find, here, just the kind of footwear to suit your particular needs.

Brandeis Stores—Main Floor—Men's Store

Correct Styles for Men and Young Men In

## New Hats

The Brandeis display contains a select assortment of styles for men and young men—hats of character which possess the distinction demanded by all men of good taste. The prices range from 5.00 to 15.00.

Boys' Headwear

Saturday we will place on sale about 100 dozen of boys' and children's hats and golf caps—a manufacturer's floor stock. All the newest Spring and Summer styles. These are real values, priced at—59c

Stitched Cloth Hats

New models from the best hat makers in the country are now in stock. Every man should see this interesting lot of new ideas in headwear, priced at—2.65, 4.00 and 5.00

Men's Caps

Golf caps in all of the latest styles and colors, plain and fancy mixtures; correct and comfortable for motoring or sport wear; priced at—1.50, 2.50, 3.00 and 3.50

Brandeis Stores—Arcade

Saturday Specials in the

## Men's Furnishings

Madras Shirts at 255



THESE shirts are made of a very high grade madras, a most serviceable and satisfactory fabric. The patterns are attractive stripes in colors.

Lavender Blue Tan Black and White

The stripes are woven right into the fabric—and the shirts will wear and launder well. Regular \$3.00 values; a very good shirt at the price 2.55

Mohair Shirts in Silk and Wool

A new lot, just received, made of imported Japanese cloth. The first shipment of these shirts met with so much favor that we decided to try another. They are all exceptional values. Priced at 6.50

"Munsing" Union Suits 2.50 to 5.00

If you want satisfaction in underwear, buy Munsing Wear. The quality and style are sure to be excellent. Our stock is now complete in all sizes and qualities for Spring and Summer wear. Priced, per suit, from 2.50 to 5.00

Silk Hose For Men Per Pair 1.15 to 3.00

THERE is no hose like a silk hose for comfort—and then they look snappy, express refinement and have an atmosphere of correctness which makes a man feel that he is dressed just right.

We show Interwoven and Phoenix hose in all of the new shades for Spring and Summer wear, priced from 1.15 to 3.00.



Brandeis Stores—Main Floor—Men's Store

### Do Your Drug Buying Where You Can TRULY SAVE TIME AND MONEY

This Clearly Means—The

## 5 Sherman & McConnell Drug Stores

For more than 30 years under the same management, our constant and best effort has been to conduct drug stores worthy of confidence—as to the important points, viz.: STOCK—Fresh and genuine. PRICE—Always as low, generally a little lower, than can be obtained elsewhere. SERVICE—Intelligent and adequate.

Some special bargains in Medicines and Toilet Articles SATURDAY—

<p><b>Spring Cleanup Goods</b></p> <p>Smoky City Wall Paper Cleaner, pkg. .... 15c</p> <p>Absorene Wall Paper Cleaner, pkg. .... 15c</p> <p>HRH Paint Cleaner at ..... 10c</p> <p>Sherwin-Williams Mar-Not Floor Varnish, pints ..... 95c</p> <p>Quarts ..... \$1.70</p> <p>½ gals. .... \$3.20</p> <p>Household Ammonia, bottles, 5c. 10c. 15c and 25c.</p> <p>Paints Brushes at ..... 10c and up</p> <p>Whitewash Brushes, Sanifluff, can ..... 19c</p>	<p><b>Standard Proprietary Remedies at Cut Prices</b></p> <p>We obtain these goods in most instances direct from manufacturers and thus can save you money and guarantee freshness and genuineness.</p> <p><b>SATURDAY PRICES</b></p> <p>1.25 Lyko Tonic. 94c</p> <p>1.00 Rexall Kidney Remedy ..... 66c</p> <p>40c Fletcher's Castoria for ..... 27c</p> <p>1.15 Vinol Tonic Reconstructive ..... 89c</p> <p>50c Pape's Diapessin for ..... 37c</p> <p>50c Nature's Remedy for ..... 37c</p> <p>60v Vick's Vapo Rub for ..... 44c</p> <p>25c Hill's Cascara Quinine for ..... 17c</p> <p>1.90 S. S. S. Blood Remedy ..... \$1.41</p> <p>Nuxated Iron, the great Tonic, that has made life brighter and better for Senators, Ball Players, Preachers, Patriots, Proletariats and Pugilists, Saturday \$1.10 size ..... 84c</p> <p>California Syrup Figs, 60c size for ..... 44c</p> <p>25c Carter's Little Liver Pills for ..... 17c</p> <p>60 Murine for Eyes for ..... 44c</p> <p>35c "Gets-It" Corn Remedy for ..... 22c</p> <p>60c Kondon's Catarrh Jelly for ..... 44c</p> <p>1.50 Gude's Peppermint Mangan for ..... \$1.14</p> <p>60c Musterole for ..... 44c</p> <p>1.25 Lydia Pinkham's Vegetable Compound, Liquid or Tablets, for ..... 84c</p> <p>1.00 Nujol ..... 84c</p> <p>Carlsbad-Sprudel Salts, imported, bot. \$1.25</p> <p>60c Doan's Kidney Pills for ..... 44c</p> <p>25c Cascarets ..... 19c</p> <p>1.50 Scott's Emulsion for ..... \$1.19</p> <p>1.20 Phynola ..... 89c</p> <p>60c Bromo Seltzer. 44c</p> <p>50c Bliss Native Herb Tablets for ..... 33c</p> <p>70c Sloan's Liniment for ..... 54c</p>	<p><b>Toilet Articles</b></p> <p>Here is another place we "save you time and money." Our stores are "up to the minute."</p> <p>50c Pompeian Massage Cream for ..... 33c</p> <p>50c Mulsified Coconut Oil Shampoo ..... 37c</p> <p>Tall Red Box Mavis Talcum for ..... 17c</p> <p>60c Canthrox Shampoo for ..... 44c</p> <p>1.00 Solox Sulphur Hair Lotion ..... 64c</p> <p>35c Danderine ..... 23c</p> <p>1.50 Gouraud's Oriental Cream for ..... \$1.14</p> <p>60c Harmony Cocoa Butter Cold Cream for ..... 44c</p> <p>2.00 Frivole Toilet Water, bot. .... \$1.29</p> <p>Cuticura Soap ..... 19c</p> <p>Packers Tar Soap. 19c</p> <p>Jergens Violet Glycerine Soap ..... 9c</p> <p><b>Shaving Material</b></p> <p>See displays in our stores of supplies for bearded men and women. You wouldn't believe it if we didn't show you. 100 or more items priced to save you money.</p> <p>Riker's Shaving Lotion for ..... 64c</p> <p>Rexall Shaving Lotion for ..... 45c and 85c</p> <p>Williams' or Colgate's Round Cake Shaving Soap, cake ..... 6c</p> <p>Vivado's or Rexall Shaving Cream Saturday for ..... 19c</p> <p>Gem Safety Razor. 89c</p> <p>Cuticura Shaving Sticks for ..... 25c</p> <p>Krank's Lather, Keem, tube ..... 35c</p> <p>50c Mentien's Shaving Cream, tube ..... 34c</p> <p>Lysol Shaving Cream, tube ..... 35c</p> <p>35c Johnson's Shaving Cream, tube ..... 22c</p> <p>35c Palmolive Shaving Cream for ..... 22c</p> <p>65c Lloyd's English Shaving Cream. 49c</p> <p>Shaving Brushes at ..... 35c to \$5.00</p>	<p><b>LUNCH—SODA MUSIC—DANCING At 16th and Harney</b></p> <p>Our beautiful downstairs "Winter Garden" is growing more popular every day. Lunch every day from 11:30 to 6 p. m. Dancing every evening after 8 o'clock, a small admission fee being charged. Sandwiches, Ice Cream and Coffee evenings.</p> <p><b>Marinello Toilet Goods</b></p> <p>We Have Full Line</p> <p>Tissue Cream \$1.20</p> <p>Acne Cream .60c</p> <p>Motor Cream .60c</p> <p>Astringent Cream for ..... 60c</p> <p>Foundation Cream for ..... 75c</p> <p>Geranium Jelly 25c</p> <p>Rose Leaf Cream for ..... 60c</p> <p>Toilet Powders. 75c</p> <p>Both Tints Talc 25c</p> <p>Lettuce Cream. 60c</p> <p>Whitening Cream for ..... \$1.20</p> <p><b>Depatured Alcohol</b></p> <p>for burning. We sell it cheap in various sized bottles, jugs and cans.</p> <p><b>Mail Order Dept.</b></p> <p>Largest in the west. Add postage for carriage. No large liquids can go by mail.</p> <p><b>Mineral Waters</b></p> <p>5-gal. jug Colfax Water for ..... \$2.00</p> <p>5-gal. jug Waukesha Water for ..... \$2.00</p> <p>5-gal. jug Excelsior Springs or Salt Sulphur Water. \$2.75</p> <p>Kalak Water, bot. 45c</p> <p>Dozen ..... \$4.50</p> <p>Case of 50 bottles for ..... \$16.00</p> <p><b>White Rock Water,</b> pints, quarts, half gallons, and White Rock Ginger Ale.</p> <p><b>Poland Spring Water,</b> from Maine, ½-gal. bot. .... 60c</p> <p>1 doz. \$6.50</p> <p>Carlsbad Sprudel Water, in one-liter bottles, each ..... 50c</p> <p>Doz. .... \$4.50</p> <p>Case 30 bottles at. \$12.00</p> <p><b>Special Saturday—</b> Large 45c bottle Pluto Water. 33c</p>
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## SHERMAN & McCONNELL DRUG CO.

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