#### WITH THE RADIO BOYS

visualizes a complicated assort- radio traffic to its own distinct ment of delicate and wonderfully contrived electrical apparatus; and in many cases he is not far from being right to his concep-

if one should glance through the pages of a book of radio history he would notice many such stations and wonder at the many different forms and queer names of the odd looking pieces of ap-In almost any new science, or in fact, any new ondeavor of any sort, we find the first attempts of the experimenter crude and his apparatus ungainly. So it is in radio. Today any up-to-date amateur would laugh in scorn at Marconi's crude apparatus, for the modern radio amateur possesses aparatus that is second to none in excellence.

Yankee Boys at Work Almost as soon as Marconi had proven his system of telegraphy practical and had placed it on a commercial basis the American boy was discovering in his smail shop in the corner of the basement or up in the attic that he could do the same thing with some scraps of wire and a few discarded telegraph instruments. One will be surprised to note

how soon the few boys in New York City, the first radio amateurs. "hams" as we often call them, became legion and their weak sparks had increased in congressional action was taken to

Spring Weakness Is Overcome and the blood purified

Hood's sarsa voltages and which are used to energize certain arrangements of apparatus that is able to give the

VAUDEVILLE!

Today and Tomorrow

LEROY and COOPER

Two Boys and a Piano

HONEYSUCKLE and VIOLET

The Sculptors Dream

BARTH and BARTH

Refined Gymnasts

A Bunch of Smiles

EARL WILLIAMS

"IT CAN BE DONE"

ALL NEW VAUDEVILLE SUNDAY

BLIGH THEATRE

FRANCIS FAY

When one thinks of radio he assign the different classes of layer" of wave lengths in order travel from the transmitter in to minimize interference

> Concerning Wave Lengths 'Now, what is a wave length' How many times that question has been asked and how many times it has been the first cause of misconception and hindrance to those who try to understand why and how the air can be full of traffic, hundreds of stations perating at once and yet be poible for an operator to select the station he wishes to hear

When the aerial and the transmitting coils are designed for a station the size is governed by the purpose of the station. The amateur is allowed to use only a very small aerial not over 125 feet in length, including the wires forming the aerial proper, the wires leading to the apparatus and those leading to the ground connection. The commercial outfits, such as those used on ships and the coastal stations who work with them are from 250 to 600 feet in length. The savy uses the next group and finally the large gaval and commercial high power fong distance stations use huge antenna up to 800 feet in height and often over a mile long.

Physics Studied To understand how these different szies of antenna affect the wave length one must delve into the realm of physics. The world erator and are made audible by of science tells us that all matter power and number until in 1912; is fundamentally electrical and for convenience the electrical 'fluid" that fills all space and is the basis of all matter, is called

> Now radio works on the prin- ence from undesired stations. ciple of wave motion in this ether. The transmitting station uses transformers which produce high

> > Many of the older folks will nected with a chum across the tween both stations. This introduced complications with power companies or an irate neighbor who objected to those "fool things" cluttering up his premi-

Waves Non-Interfering

transmitted by any given station

for in the aerial the current rises

ger the wires the slower is this

The slower rate of oscillation

makes wave length in practive of

from 15,000 to 25,000 meters or

roughly \$0,000 to \$6,000 feet

from the top of one wave crest

to the top of the next, the waves

So we can see that by using the

different aerial lengths how we

waves do not interfere with one

Receiver Captures Them

telephone receivers. The receiv

so with a minimum of interfer

There is a wonderful fascina

constructed pieces of apparatus.

different length.

as above, being similar to thos

in a pond of water.

rise and fall or oscillation

Amateurs Are Legion The radio set is small, requires causes little or no nuisance to the ocality it is in when properly ad- in the near future. So we find in America 80 and not a few girls, both old and young.

our army and naval operators handled many messages. were filled from this vast army of amateurs. They have furnished many new ideas, have developed apparatus second to none in he world for sensitiveness, seleclivity and durability, and have formed the backbone of radio deelopment of the United States and lead the world in all radio coil, but lately has been unable

Radio Association Notes Radio in Salem seems to be preparing for a busy summer.

given amount of power applied. The result in the ether is similar to that which takes place when one throws a stone into a pond of water. Waves spread in all directions from the point of disturbance. So in radio, The waves ever widening circles with the

speed of light, 186,000 miles a second, behaving in a manner very similar to the waves in the pond New Depository at Prineville Takes Place of Defunct Institution Now the length of the aerial ires determine the wave length

CAPITALIZATION \$50,000 and falls periodically and the lon-

> Reorganization of Crook County Bank Found Not To Be Feasible

Because reorganization of the Crook County bank, which failed can radiate from them waves of ifered extreme difficulty and did another unless they are of the not appear to be feasible, Frank same length or of very great in-'. Bramwell, state superintendent of banks, yesterday issued a charter for the new Bank of Princ-The receiving apparatus is arranged to catch the ether waves ville, which will open for business about Jone 1. The old bank by means of the aerial wires. suspended business December 27 which convert the ether waves into feeble electrical oscillaiting cur-

rents. These weak currents are The capital stock will be \$50,amplified and adjusted by the op-100. J. L. Karnopp of Portland will be president; W. O. Hall causing them to operate sensitive ashier, and George F. Euston, ssistant cashier. A. J. Noble, ing operator has coils and controls M. Elliott and Lake M. Bechwith which to select any desired tell will be directors. station and to enable him to do

Two Proposals Made. In a statement issued yesterlay Mr. Bramwell reviews efforts that were made for reorganiza tion in being able to take a little wire, a few coils, and other easily

'This would not have been dificult," says Mr. Bramwell, "had and talk to other amateurs a few miles away with no connection it involved a guarantee of the deposits and the removal of the doubtful assets, but in addition emember the telegraph line con- to assuming the liability to the depositors, the bank had a large But with that sort of tel- volume of rediscounts, bills paya wire was necessary be-pable and repurchase agreements which the new organization would

erected

We will all be glad to welcome IN. Mr. Adams of Silverton, who is erecting a 100 foot pole out on few short wires overhead and 21st street, and we may look for a record breaking station there

At present Salem is off the reoday hundreds of thousands of lay map, 7BH, Clive Scott on radio amateurs, boys from 14 to 14th street, is rebuilding his station and so is not on the air except for a receiving set. Mr. Scott is our oldest relay man and has

7HA. Churchill, out on Belmont, is not using his station and so is not on the air except for a receiving set. Mr. Scott is our oldest relay man and has handled many messages.

710, Herb Welch, out on route to QSR with 7CW either out of order or not on the job. 71D at Mt Angel is a coming relay man and handles a limited amount of traffic.

7MU, Peyton, out on south Commercial has a good station and is constantly improving. Paul is a bit new in the relay game. with the start he has made will make a good relay man. We hear 70W some, but not

nearly enough. 7JA will startle us one of these days we hope, for he has lots of pep and should make a fine relay man.

7GO, Goodwin, on North Commercial has finally found that 'dinged" generator and will soon be on the air with a CW and tone

The Radio association of Sal em meets every Thursday night 7:30 p.m. in the association rooms on the third floor of the city hall. Visitors or other interested in radio are welcome to the meetings. General radio topics, construction, code practice, are taken up and theoretical subjects are discussed.

For further information call or write the secretary, H. E. Welch, Route 8, or phone 95F2.

Take a Tablespoonful of Salts If Back Hurts or Bladder Bothers

We are a nation of meat eaters and our blood is filled with uric acid, says a well-known authority. who warns us to be constantly on guard against kidney trouble.

The kidneys do their utmost to free the blood of this irritating acid, but become weak from the overwork; they get sluggish; the eliminative tissues clog and thus the waste is retained in the blood to poison the entire system.

When your kidneys ache and feel like lumps of lead, and you have stinging pains in the back or the urine is cloudy, full of sediment, or the bladder is irritable. obliging you to seek relief during the night; when you have severe headaches, nervous and dizzy spells, sleeplessness, acid stomacl or rheumatism in bad weather. get from your pharmacist about four ounces of Jad Salts: take a tablespoonful in a glass of water before breakfast each morning and in a few days your kidneys will act fine. This famous salts is made from the acid of grapes and lemon juice, combined with lithia, and has been used to rgenerations to flush and stimulate clogged kidneys, to neutralize the acids in urine so it is no longer a source of irritation, thus ending urinary and bladder disorders.

Jad salts is inexpensive and cannot injure; makes a delightful effervescent lithia-water drink and nobody can make a mistake by taking a little occasionally to keep the kidneys clean and active.

have been required to assume These aggregated approximately \$150,000

Many complications arose which made it difficult to reach a satisfactory solution. As roon as the bank suspended business a petition was filed by Mr. Karnopp and about 40 other persons of Crook county requesting that a charter be issued for the Bank of Princyille. Mr. Bramwell was atisfied that the petitioners rep resented the integrity and financial ability necessary, but about the same time a new proposal was submitted by men not connected with the Crook County bank and this received first consideration.

Reorganization Abandoned. This proposal ultimately was abandoned although certain stockholders of the defunct bank of fered to make sacrifices aggrerating \$115,000 for the protection of depositors. Arrangements were then made to sell the Crook County bank building to Mr. Karnopp and his associates.

The supreme council would have made a hit if it had done something to give a married man a mandate over his wife. The shoe is on the other foot these days .-

> School Children's Matinee Saturday 10:30 a. m.



A picture greater than the book It's Here for Four Days Starting SUNDAY Special Matinee Saturday A. M.

Honest Merchandise, Rightly Priced, Has Made

# GALE'S SALE

a most pronounced success. Friday and Saturday bid fair to be the banner days of our sale, coming just before Decoration day, it is an opportune time to buy your summer's outfit

### SALE PRICES MEANS MONEY

17x35 **HUCK TOWELS** Striped Border

18x34

19c Each

TURKISH TOWELS 19c Each

36 inch QHALLIES 18 Yard

75c BRASSIERES Special 39c

Ladies' Heather SPORT HOSE 69c Pair

LADIES' **COTTON HOSE** Black or White 14c Pair

44 inch COSTUME VELVET \$3.45 Yard

Bleached 14c Yard

HOPE MUSLIN

COTTON BLANKETS Full Size

\$1.89 Pair

LADIES' POLO COATS Just Received, Special

\$9.75

SUMMER VOILES New Patterns, Just Received, Specially Priced

49c and 69c Yard LADIES' VOILE WAISTS

Sizes 36 to 52 98c Each

Boys' Heavy Knit COAT SWEATERS 79c Each

MEN'S B. V. D. **UNION SUITS** 

\$1.05 Suit Muslin Envelope CHEMISE

79c BED SPREADS Full Size

\$1.98 Each 36 inch

CHIFFON TAFFETAS All the Wanted Shades \$1.79 Yard

MOHAWK SHEETS Size 81x90 \$1.39

IMPORTED ORGANDY 40 inches wide 89c Yard

> SILK CHIFFON All Colors 48c Yard

Court & Commercial Sta Formerly The Chicago Store

# Aluminum



We Have Just Receeived a large shipment of this guaranteed

### Aluminum Ware



THIS STOCK CONSUMES CONSIDERABLE STOR-AGE SPACE AND WE WOULD LIKE TO DISPOSE OF IT AS SOON AS POSSIBLE

See Our South Window for Prices













## OIL STOVE TIME IS HERE

See our display in the north window. We carry only the high class makes such as Puritan-Bon Ami and New Perfection. Don't cook over a hot stove when it is possible for you to have one of these oil burners.



Home of the Victrola

More for Your Money at Moore's

First Mortgage

WASHINGTON-IDAHO WATER, LIGHT & POWER COMPANY

Five-Year Gold Notes

Trustee

Guaranty Bank & Trust Company, Seattle, Washington

First Mortgage \$300,000 Authorized ... ..... Amount To Be Sold \$200,000 Date of Notes. Date of Maturity..... ....April 1, 1926 Denominations \$100 and \$500

Subject to Registration

Interest 8%-payable semi-anually-April 1 and October 1 -callable, 105 any interest date-price, par plus accrued interest.

LEGALITY OF ISSUE

Bausman, Oldham, Bullitt & Eggerman Seattle, Wash.

SECURITY

Electrical distribution systems in Lewiston, Idaho and Clarkston, Wash.

These notes represent a general obligation of the company and is the only funded debt against the above property and constitutes a first mortgage thereon

### Inquiry Coupon

Washington-Idaho Water, Light & Power Co. Securities Dept. 363 N. W. Bank Bldg., Portland, Ore. Please send me further information

about your First Mortgage 8% Gold

Street

City or Town ....

Phone.....

1921