

BUSINESS AND PROFESSIONAL

One cent the word each time.

PHYSICIANS.

DR. ERNEST A. WOODS—Practice limited to eye, ear, nose and throat. Office hours, 10 to 12 a. m. 2 to 5 p. m. Swendenburg Bldg., Ashland, Ore. 73-1

DR. J. J. ENMENS—Physician and Surgeon. Practice limited to eye, ear, nose and throat. Glasses supplied. Office hours, 10 to 12 a. m. 2 to 5 p. m. M. P. and H. Bldg., Medford, Ore. Phone 14

DR. MATTIE B. SHAW—Residence and office, 108 Pioneer avenue. Telephone 28. Office hours, 10 to 12 a. m.; 2 to 5 p. m., only.

DR. H. M. SHAW—Physician and Surgeon. Special attention Eyes, Ears, Nose, Throat. Glasses fitted. Room 6, Mills-McCall Bldg. Phone 79 or 28.

CHIROPRACTORS

DR. E. B. ANGELL—Chiropractic and Electro-Therapy. The combination does wonders. First Nat'l Bank Bldg. Phone 48-142. House Calls

TRANSFER AND EXPRESS.

FOR prompt and careful service auto trucks or horse drays, call Whittle Transfer Co. Phone 117 Office, 89 Oak street near Hotel Ashland. 56t

T. L. POWELL—GENERAL TRANSFER—Good team and motor trucks. Good service at a reasonable price. Phone 83.

VETERINARY

DR. J. P. CHISHOLM—Graduate Veterinary. Walker Ave.

CONVALESCENT HOME

CONVALESCENT HOME—Good cheer. Good care. Good food. Terms reasonable. 153 Granite St. Phone 411-R. 306-1mo

FOR RENT

FOR RENT—Three room furnished apartment, five blocks from post office. Adults only. 326 North Main. 94-2

FOR EXCHANGE

FOR TRADE—160 acre unimproved ranch on Pacific highway and county road, near Hill; small house and outbuildings; good stock or chicken ranch with plenty of wood and tillable land. Will trade for unimproved Ashland acreage; prefer no house, but would consider acreage with small house. Eleanor Greer, 199 Granite St. 2311t

FOR SALE

FOR SALE—Ford touring car, thoroughly equipped, \$100 worth of accessories. \$300 cash. Phone 172. 89t

FOR SALE—20 acre farm, stocked and equipped, on East Main street, Frank Beswick, R. F. D. box 176. 92-6*

FOR SALE—Three Barred Plymouth Rock roosters, \$3 each. 872 B St. 93-6*

FOR SALE—Five foot glass show case. Inquire Plaza Confectionery. 94-1f

FOR SALE OR TRADE—Two fresh cows. Phone A. B. Chapman.

INTERURBAN AUTOCAR CO.

(Effective January 1, 1922) Daily (Except Sunday)
LV. MEDFORD LV. ASHLAND
7:00 a. m. 7:00 a. m.
8:00 a. m. 8:00 a. m.
9:00 a. m. 9:00 a. m.
10:00 a. m. 10:00 a. m.
11:00 a. m. 11:00 a. m.
12:00 noon 12:00 noon
1:00 p. m. 1:00 p. m.
2:00 p. m. 2:00 p. m.
3:00 p. m. 3:00 p. m.
4:00 p. m. 4:00 p. m.
5:00 p. m. 5:00 p. m.
6:00 p. m. 6:00 p. m.
7:00 p. m. 7:00 p. m.
8:30 p. m. Sat. only 8:30 p. m.
9:30 p. m. 9:30 p. m.
10:30 p. m. Sat. only 10:30 p. m.
Sunday Schedule
Leave Medford for Ashland and Ashland for Medford every hour on the hour from 9 a. m. to 5 p. m.; then 6:30 p. m. and 9:30 p. m.
Ashland waiting room—East Side Pharmacy.
ASHLAND-ROSEBURG STAGE
Daily (Except Sunday)
LV. ASHLAND LV. ROSEBURG
1:00 p. m. 1:00 p. m.
Travel by stage; shortest route by 20 miles; one of Oregon's most scenic trips. Fare—Ashland-Roseburg, \$4.60; Medford-Roseburg, \$4.15; Grants Pass-Roseburg, \$3.00.
MEDFORD-GRANTS PASS
Daily (Except Sunday)
LV. MEDFORD LV. GT'S PASS
10:00 a. m. 7:30 a. m.
2:00 p. m. 1:00 p. m.
5:00 p. m. 5:00 p. m.
Sunday Only
10:00 a. m. 10:00 a. m.
4:30 p. m. 4:30 p. m.
Grants Pass waiting room—The Bonboniere, phone 160.
Office and waiting room—No 5

Local and Personal

Phone Companies File—The Klamath Telephone & Telegraph company, with headquarters at Fort Klamath and a capital stock of \$50,000 has been incorporated, according to advices from Salem. Also the Klamath Telephone and Telegraph company of Lakeview has been incorporated with capital stock of \$50,000. Headquarters will be at Lakeview.

If you want the best there is in bacon, boiled hams, chipped beef, lard and shortening, get it at Detrick's. We sell for less. 48t

Eugene Bryant Home—Eugene Bryant, who entered the University of Oregon last fall, is spending the yuletide season at home. He is a member of Sigma Kappa fraternity.

Don't neglect it. Xmas vacation is your opportunity to have those photos made. See our work. Studio Ashland. 91tf

Frazier Back for Vacation—Another of the University of Oregon students, who is spending the holidays in Ashland is Edwin Frazier, sporting editor on the Daily Emerald, student publication. Frazier was a member of the Kappa Sigma basketball team that won the inter-fraternity loving cup. During the summer vacation he was city editor on the Albany Herald. He is also a member of Sigma Delta Chi, journalism fraternity.

Fruit cake and mince meat time is here. For citron, orange and lemon peel, raisins, currants, figs, spices, sugar, etc., Detrick's Groceria sells for less. 48t

Billings Scheurman Home—Billings Scheurman, student at the University of Oregon, is spending the holidays in Ashland. He is a member of Delta Tau Delta fraternity.

Why not have that photograph made while the children are home for vacation? Studio Ashland will please you. 91tf

Miss Abbott Here Visiting—Miss Etha Abbott, of Portland, a former resident of the city, is spending a few days in Ashland visiting her family and their friends.

Cheap insurance is costly at any price. For sound insurance at reasonable rates, see Billings Agency. Established 1883. 34tf

Etna Mills Men in Town—F. T. Ashby and Jim De Carlow, of Etna Mills, Calif., were in Ashland Saturday night and Sunday.

Piano Tuning—Now is the time to have your piano tuned. Carl H. Loveland. Studio, 135 East Main. Phone 465. 66tf

Here from Hill—N. Burl Brownjohn, of Hill, Calif., was in Ashland during the week-end.

Salem Man on Short Visit—J. L. Waddel, of Salem, was in Ashland Saturday night, leaving Sunday.

Always see me first about your insurance; there's a difference; why? Ask me. Yeo, of course. 84tf

Klamath People in City—Among the residents of other cities in Ashland during the week-end were F. D. Bryant, F. L. Burns and C. H. Blaker, all of Klamath Falls.

Portland Woman Visits—Miss Helen Van Dyke, of Portland, spent the holidays in Ashland visiting with friends and relatives.

Better be safe than sorry. See Beaver Realty Co. about your insurance. Phone 68. 287t

Jack Brady Home—Among the many Ashland people who are attending institutions of higher learning is Jack Brady, son of Mr. and Mrs. J. C. Brady. He arrived in the city from the Oregon Agricultural college in time to spend the holidays here, and expects to return to Corvallis about the middle of the week.

Masquerade Ball! Fair Grounds Pavilion! Wednesday, December 27. Don't miss it! 94-4

COLDS of head or chest are more easily treated externally with VICKS VAPORUB Own 17 Million Jars Used Yearly

Leith Abbott Returns—Leith Abbott, well-known Ashland man now attending the University of Oregon, at Eugene, returned to the city Sunday to spend the Christmas vacation at home. Abbott is one of the most prominent students at the Eugene institution, having been a member of the track team for several years, editor of the Emerald, student publication, and other activities, including general chairman for the Homecoming celebration and publicity man. At intervals during his college career, he has served on the Pendleton Tribune and the Eugene Daily Guard, as telegraph editor. He is a member of Phi Gamma Delta, Sigma Delta Chi, national Journalism fraternity, and Friars, honorary upper-class society.

Troubled with Weak Kidneys—"Have been troubled with weak kidneys since childhood," writes Mrs. G. Hyde, Benzonia, Michigan. "Now past forty and have had terrible backache and that tired out feeling, hardly able to do my work. By using Foley Kidney Pills, accompanied with Foley Cathartic Tablets I soon felt like a new person." Backache, rheumatic pains, dizziness and blurred vision are symptoms of kidney trouble. Foley Kidney Pills give quick relief. Sold everywhere. 89tf

G. R. Anderson III—G. R. Anderson, 430 Holly street, is reported as being on the sick list. Mr. Anderson is a retired Methodist minister, and is now one of the fruit growers of the district.

Last month the Automobile Specialist insured three trucks, six automobiles and 10 Fords. Phone 274-J. Yeo, of course. 84tf

Here from Eagle Point—Harry Pellett, of Eagle Point, was among the out-of-town visitors in the city during the past week-end. He spent Saturday night in Ashland.

Detrick sells for less. 72tf

Miss Wood Returns—Violet Wood, daughter of C. D. Wood, 151 Gresham street, arrived from the Willamette valley this morning for a short visit with her parents. Miss Wood is teaching school near Eugene.

WIRE WHEEL SERVICE at Leddom's Tire Hospital. Broken spokes repaired 25c. 84tf

Goets to Corvallis—Louis Rothblatt, who is connected with the military department of the Oregon Agricultural college, returned to Corvallis today after spending a few days in the city visiting with friends over the holidays.

Here from Grants Pass—Dr. R. L. Burdick Jr. and Mrs. Burdick, of High street, are enjoying a visit from Mr. Burdick's parents and grandmother from Grants Pass, during the holidays.

If you want those hens to lay more eggs, get some cracklins, 3 cents per pound. Plaza Market. 85tf

Residence and Business Lots—At half value. Now is the time to get bargains. Don't wait until spring to buy. Nuff Sed. Staples Realty Agency. 88-2

Dom Provost's Return—Mr. and Mrs. Domingo Provost returned from Oakland, Calif., early Monday morning. They were married in the southern city last Thursday. Mr. Provost is associated with his father in the hardware business here.

Cliff Payne has Sprueteel ladders. Orres cleans clothes. Phone 64.

W. C. T. U. Changes Meeting—Members of the W. C. T. U. will meet at the home of Mrs. Stearns, 112 Pine street, Wednesday afternoon at 2 o'clock, instead of this afternoon.

Highway Property—Some splendid property on Pacific Highway between Ashland and Medford at attractive price. Staples Realty Agency. 88tf

Here from San Jose—The Misses Alice and Ruth Brown, of San Jose, Calif., are spending the holidays with relatives and friends in the city.

Better insurance at reasonable rates. Billings Agency. Phone 211.

We put the chicken in our tamales. Plaza Confectionery. 90tf

MEANING OF "FREQUENCIES"

Distinction Between "Audio" and "Radio" Must Be Learned Early by the Beginner.

A newcomer into radio experimenting ranks is often perplexed by the two terms called audio frequency and radio frequency.

The necessity of making a distinction in the frequencies in radio is important. It is generally known that vibrations of over 20,000 a second are inaudible to the human ear. The radio transmitters, depending upon their design, emit vibrations always running into tens or even hundreds of thousands, and are known as radio frequencies. In the reception of these waves it is necessary to reduce them to within the range of audibility of our ears.

Therefore, an arbitrary division has been made by radio engineers and designers to differentiate between the two frequencies. All frequencies above 10,000 are alluded to as radio frequencies and all below 10,000 as audio frequencies.

It must be remembered whenever the question of frequency is met with in the study of radio that radio frequency is that used in transmission, and that it must ultimately, by various methods, be reduced to audio frequency in order that the telephone receivers commonly used for the reception of signals may function.

This is analogous to the transmission of power over great distances by wire. It is generally carried at a high voltage over the greater distance, and by means of step-down transformers, converted to a voltage of 110 volts, ordinarily used in our household scheme.

By means of detectors, either crystal or tube, which are really rectifiers, we convert radio frequencies to audio frequencies. These detectors stop off, as it were, one-half of the cycle, permitting only a flow in one direction, the other alternation being almost eliminated.

Radio Strange to Him.

The modern schoolboy knows wireless from A to Z and can rattle off the terms with a fluency that staggers the casual dabbler in the new art. In some sections of the country, however, only rumors of the wonders of wireless have seeped in and the native isn't quite sure what it is all about.

In Bleeker, a little hamlet outside of Gloversville, N. Y., a progressive farmer was erecting poles for his aerial the other day for the purpose of getting crop reports and weather forecasts. A neighbor happened along and learning that the work had something to do with wireless asked: "Which pole does that feller sing off of."

RADIO SPARKS

In Seattle an appeal has been broadcast to motorists for co-operation in preventing traffic accidents.

Doctor Martoni recently stated to an interviewer that he believed radio atmospheric disturbances came from the land and not from the sea.

Radio was first installed in China by the Germans some ten years ago, consisting of obsolete apparatus of a type that would now be scorned by an American boy enthusiast.

Some of the youngsters are getting the best of the landlady by erecting clothesline antennae, where aerials are forbidden on the housetops. It is found that even when the wire is hung with drying clothes good results are obtained through radio clotheslines.

The electric light socket aerial has appeared in France and is becoming popular. A French engineer has just turned out some of these devices, which are being purchased by the government for distribution to the farmers.

When a steady hum is heard in the receivers after wiring up a set, it may be understood that there is an open circuit somewhere. Trace out the wiring carefully and some little fault will present itself.

James H. Rogers, an inventor of Maryland, claims that he has received radio messages from distant stations through the ground by simply burying a wire. He says that not only do radio waves travel through the earth, but they meet with less resistance than when going through the air.

Hundreds of jewelers in Paris have installed radio sets for the purpose of setting their clocks by Greenwich time. Heretofore the official time was obtained by telephoning the observatory.

Radio has taken Argentina by storm. Many broadcasting stations have been opened and a multitude of shops for the sale of the equipment. French material has had the call up to this time, but the American manufacturers are now actively after business.

A writer says, "With radio, Robinson Crusoe would have had quite a 'jazzy' time." We have always thought that radio was one of the things that Professor Nemo had 3,000 leagues under the sea and that it was in daily use on the Mysterious Island, but that Verne failed to tell about it.

Two-Way Phone Plan. By operating on two different wave lengths, one 450 meters and the other 350 meters, a two-way radio talk was successfully carried on between Portland, Ore., and Los Altos, Cal.



THINGS THE RADIO NOVICE WILL NEED

Tools and Materials He Should Keep on Hand—Advantages of Keeping a Log Book.

We are going to pause in explaining the theory of radio receivers and get down to practical things for today. There are many novices building their own sets, or making additional parts, who are in doubt as to just what tools and materials they will need.

Naturally there are tools and tools. Some cost more than others. Then, there are people and people. Some people need more tools than others. Some folks are just naturally handy with tools, and others find that tools won't behave and lead the user into all sorts of complications.

The tools and materials following are such as are necessary, and which will be useful at all times. No prices are given for the buyer will have to look to his pocketbook for guidance in this respect.

Tools that will come in handy; large, medium and small screwdrivers; flat, three-cornered and round file; hack saw, miter saw and box and cross-cut saw; a small plane, a vise, a bit and auger, pliers, a square and yardstick or tape rule, dividers and hammer, preferably a small one.

Materials that will be convenient to have on hand are as follows: Sandpaper, emery paper, wire of all gauges, round and flat-headed screws, a supply of brass nuts and washers, paraffine and sealing wax, bakelite, cardboard and fiber board, tin foil, porcelain insulators, binding posts and terminals, sheet copper and sheet brass and adhesive tape.

Tape is possibly the most useful article in the whole layout, for it will be found to have many uses. It is in short a versatile piece of material in the electrician's kit.

Those of our readers who are building sets may find that it is good policy to keep all the odds and ends of wire, tape, copper, etc., that they may have. It seems that uses for these short bits are always to be found just when it is discovered that they have been thrown away. So, therefore, hoard all small pieces.

One thing we want to stress in building radio apparatus—Use care in your work, and put a good finish on your sets. Not only does it greatly add to the appearance of the set, but it also eliminates odd corners and stray ends of wire that catch dust or catch on surrounding objects and will hamper the efficiency of the set, either by shorting the circuit or causing it to be dragged off a pedestal and thrown on the floor. Those who have vacuum tube sets know that usually a fall means some new tubes.

To those radio novices who desire to go skipping blithely through the ether, picking out a station here and a station there, as fancy directs them, we recommend a log book. Just any sort of book will do, or rather any book will do in which one can jot down records of the evening's broadcasting.

The reason for the log book is that it prevents a lot of unnecessary fussing with the dials when a certain station is desired. Say for instance, KDKA was going nicely, but that there was a certain concert going on in New York at WJZ or WGY, or maybe WGI up in Boston. Let us make the problem even harder and say that there were two addresses in one evening, both especially good, and one of the addresses in New York was scheduled to start two minutes after the one in Pittsburgh was over. As soon as the one address is over, the enthusiast starts playing with his dials to catch New York. Sometimes it takes two minutes and sometimes it takes a great deal more time to catch the desired signal, and more often than not, the lecture is half over before it is tuned in correctly.

To assist the enthusiast to tune in quickly on any desired station is the mission of the log book. In this book should be entered the necessary data about all stations that have been picked up. Here should be noted down the exact position of the dials where the station was tuned in the best and other pertinent remarks. All these remarks should be entered, of course, the first time a new broadcasting station is picked up. With the information before him, the enthusiast needs but a glance at his book to tell him how he set his dials the last time he heard WBZ.

The oft heard remark to the effect that RNU was heard last night but cannot be heard tonight, should be a thing of the past if a log book is about, that is, providing one's set has range enough for the distance.

No directions are set down here for making a log book as it is thought that each one of the radio folk will have his own ideas on the subject. However, space should be left to inscribe even the minutest data about signal reception.

By operating on two different wave lengths, one 450 meters and the other 350 meters, a two-way radio talk was successfully carried on between Portland, Ore., and Los Altos, Cal.

PEST HARD TO DISCOURAGE

Pigweed, Universal Nuisance, Has Been Known to Profanity Gardener to Profanity.

A pigweed is both an irresistible force and an immovable body, blended into one and working overtime. Pigweeds don't ask anything of anybody. They don't need to. Even Dame Nature turned round and went away as soon as she'd introduced him. Books on gardening dismiss him with a jaunty direction to "Keep the weeds down." But you can't ostracize a pigweed that way.

A pigweed begins making trouble the minute he shows above ground. I never saw a pigweed that could look more like more kinds of young plants. You can't tell by pulling 'em up, for the pigweed has a long, thin red root, but pulling up little flower and vegetable plants by mistake discourages 'em, even if you admit your error and apologize. And, on the other hand, it does not hurt the pigweed. Just let him lie on the ground, and his roots curl into it and he goes on growing as if nothing had happened. If you mash one into the ground with your heel, you just give him a better start.

All they ask is to be near enough the ground to see it. I brought some into the house and put them on the window-sill, where they could see out by raising up a bit, and they all grew. You could lock them up in a closet, and if your hands were soiled when you handled 'em, they'd get enough nourishment to live on.

The only sure way to get rid of one is to cut him and burn the can.—Everybody's Magazine.



Be Cured to Stay Cured

I GUARANTEE to permanently cure your Piles without cutting, burning, stitching, anaesthetic, confinement or unpleasant after-effects. My patients are reputable men and women in every walk of life to whom you may refer about this painless, non-surgical cure. If you are a sufferer from Piles, Fistula, Fissure or other rectal disease, call or write today for my FREE booklet. Cost of treatment returned if I fail to cure your Piles.

DR. CHAS. J. DEAN 2ND AND MERRISON PORTLAND, OREGON MENTION THIS PAPER WHEN WRITING

THE VIKING CREAM SEPARATOR

is another Catalog House burster at Peil's. Prices, \$31.00 and up. Save you \$1.90 on a 20 rod roll of fencing against anybody else's prices. New and used Sewing Machines for sale or rent. Garden tools and everything for the farmer.

PEIL'S CORNER

MONTANA

ROYAL MIXED FEED

Straight Car Just Received 16 per cent protein—\$40.00 ton

Unsurpassed for Dairy and Poultry

Ashland Fruit Association

Cutlery Sale

Pocket Knives, \$2.50 values..... 97c
Pocket Knives, \$2.25 values.....
Pocket Knives, \$2.00 values.....
Pocket Knives, \$1.50 values.....
Scissors, \$2.00 values—Sale Price..... \$1.19
Scissors, \$1.50 values—Sale Price..... .96
Scissors, \$1.25 values—Sale Price..... .83
Scissors, \$1.00 values—Sale Price..... .49

While They Last—Get Busy!

SIMPSON'S HARDWARE

87-89 North Main St. Phone 203

Resolve to Invest a Few Cents

Among your many good resolutions for the New Year, resolve to stop taking chances on leaving your valuable papers, stocks, bonds and the like around the home.

Then resolve to invest a few cents a week for a safe deposit box in our big vault.

The Citizens Bank of Ashland

Ashland, Oregon

Insurance to Make Sure

No one will deny the importance of up-to-date fire fighting apparatus. The efficiency of our fire department must always be maintained.

But after all is done in the way of preparation for fire fighting, there is a very large element of "luck" in the results, when it comes to a real test. In the Astoria conflagration, the fire loss was greatly increased by high winds and bursting water mains; when the Washington High School building burned a few weeks ago, a sweeping fire would probably have destroyed a large section of Portland, if it had not been for a little rain that came just in time to protect this property.

It is never safe to depend upon "luck" for the protection of your property, when you can get INSURANCE THAT WILL MAKE YOU SURE. Call us today.

Billings Agency Real Estate and Real Insurance Established 1883

41 E. Main St. Phone 211

W. A. SHELL BARBER Safety blades resharpened like new. Single bit, 30c. doz. Double bit, 60c. doz. Children's Work Specialty

ALWAYS ASK US FOR CALUMET The Economy BAKING POWDER J. N. DENNIS

It pays to read the classified page.

A want ad will sell it.