

RADIO IS INSTALLED BY THE OREGONIAN

Musical Entertainments Are to Be Feature.

SERVICE TO BE REGULAR

Hundreds of Receiving Stations in Oregon and Washington Are to Be Served.

(Continued From First Page.)

Before it enters the generating tubes. Current is supplied to the power tubes by the house 110-volt direct current wires, which light the tube filament and also run a specially made motor generator from which is brought 1000 volts for the plate circuits.

Acme Type Receiver Used. An Acme type receiver is part of the set. This apparatus is equipped with a two-step amplifier and loud-speaker beside the tuning units, which will allow tuning in wave lengths from 150 to 550 meters. Thus the Oregonian station will be in touch with all Pacific coast radio, radio-telephone and commercial land and ship stations.

The license for the new broadcasting plant has been applied for and approved by O. R. Redfern, radio inspector for the seventh district, with headquarters at Seattle. The application has been forwarded to Washington, with his O. K. and permission for tests of the new station has been given. It is hoped that regular operation will be granted very soon.

Unlike radiophone broadcasting so far done in Oregon, The Oregonian will not confine its musical service to phonograph records. There will be piano and other musical instruments in the broadcasting station and instrumental and vocal selections by visiting artists will be sent, together with the work of local musicians. Weather forecasts are to be sent regularly and important news on occasion suggests although the station is not primarily for the dissemination of news. Programmes and sending hours will be announced later.

Conditions More Favorable.

Powerful as the new apparatus to be used by The Oregonian proved in its tests in the New York laboratories of the Shipowners' Radio Service, engineers say it should cover an even greater radius here, since conditions of the atmosphere are more favorable on the Pacific than on the Atlantic coast. Heat lightning there interferes with transmission and thunder storms are said to cause static electricity in the air that interrupts the radio waves.

There are two broadcasting stations operating in Portland now, one amateur, that of W. P. Hawley Jr., and one professional, that of the Northwest Radio Manufacturing company, Mount Tabor, of which Charles L. Austin is president. The Oregonian station's apparatus is several times as strong as that of the Mount Tabor plant. The Hawley plant is one of the finest amateur stations in the United States.

Eleven broadcasting stations on the Pacific coast are making their air-voice afternoon and nights so that anyone with a receiving set can pick up music, lectures, news, entertainment and other features from the other end of the continent.

Cost Varies Widely. Cost of these receiving mechanisms varies widely and is in ratio to the territory they cover. Some reach very far, indeed, while the cheaper type is limited to broadcasts sent from near home. All are high in entertainment value and afford great interest to their owners.

For family service an expenditure of \$125 would cover an exceedingly sensitive set providing for sound amplifiers and other conveniences that would bring into the home, in addition to reports sent by local stations, that of others located 500 or more miles away.

Growth of radiophone use has been remarkable within the past few months. All America has been interested in it to an extent shared by nothing else for years. Hundreds of thousands of receiving sets have been installed in single eastern cities and the use of the intriguing instruments is growing by leaps and bounds. In Portland, dealers in the apparatus say they are quite unable to supply the demand.

Permits Not Necessary.

Permits are not necessary for homes to be supplied with equipment to receive radiophone broadcasts. All the major Pacific coast stations now use a standard wave length of 300 meters, this having been adopted by the department of commerce. However, Secretary Hoover recently called a conference of radio experts which may mean that greater liberty will be given transmitting stations and longer wave lengths may be used by them.

So great has been the interest aroused in radio telephony in Portland and the northwest that The Oregonian some weeks ago began the regular publication of a radio department each Sunday, being the first Oregon newspaper to print such a feature, just as it is now the pioneer in this state in operating the first broadcasting station in connection with a newspaper plant.

IRISH ACTORS VISIT PRIEST

Francis Adair Will Stage Play for New Parish School.

En route from Australia and New Zealand to his home in Donegal, North Ireland, Francis Adair of the London stage is in Portland for a few days as the guest of Father Kelly, pastor of the Blessed Sacrament church in the Overlook section of the city. Adair is staging his three-act comedy-drama, "The Peacemaker," for the benefit of Father Kelly's new parish school, ground for which will be broken within the next few weeks. The performance will be given in the Turn Verein auditorium next Wednesday and Thursday evenings.

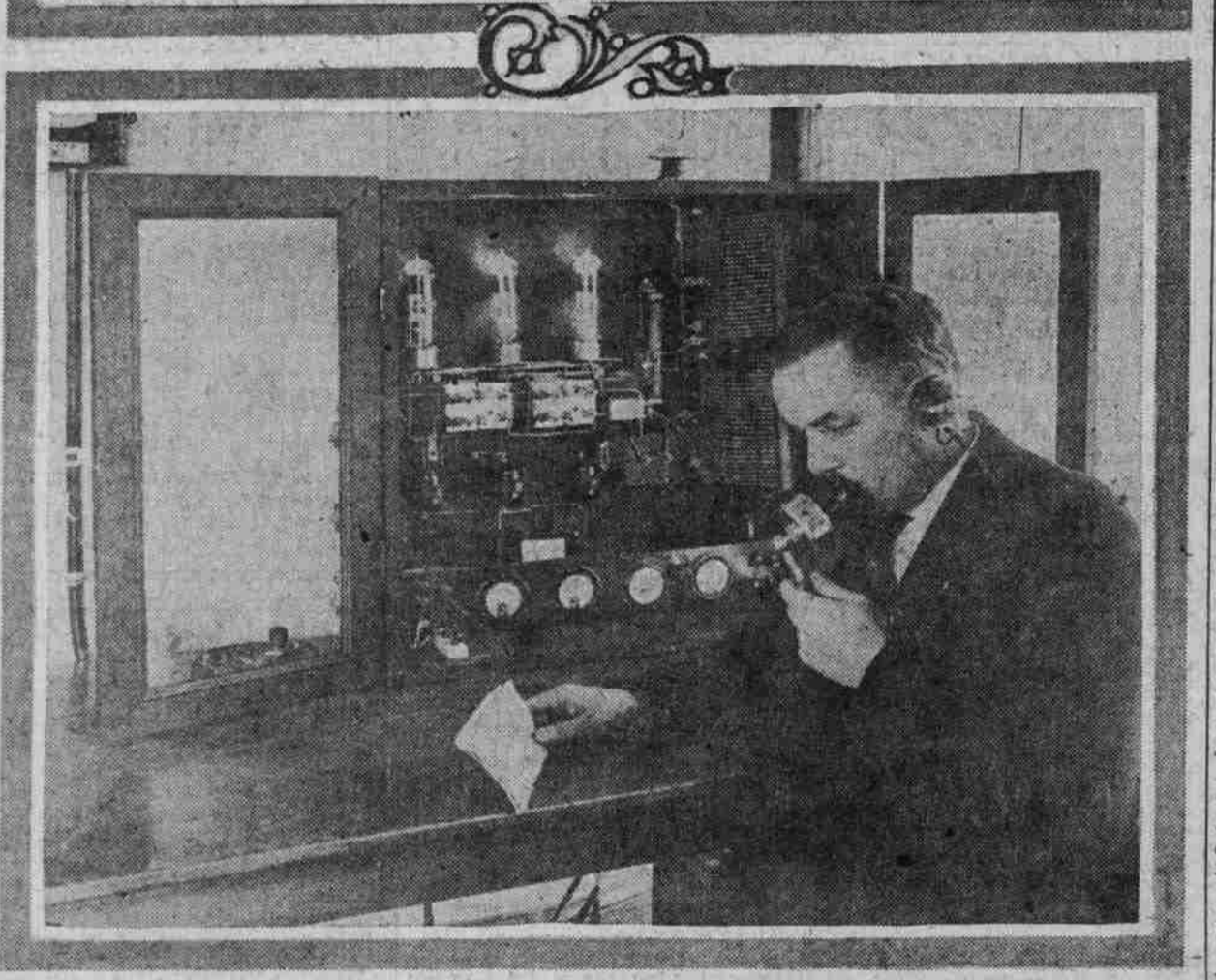
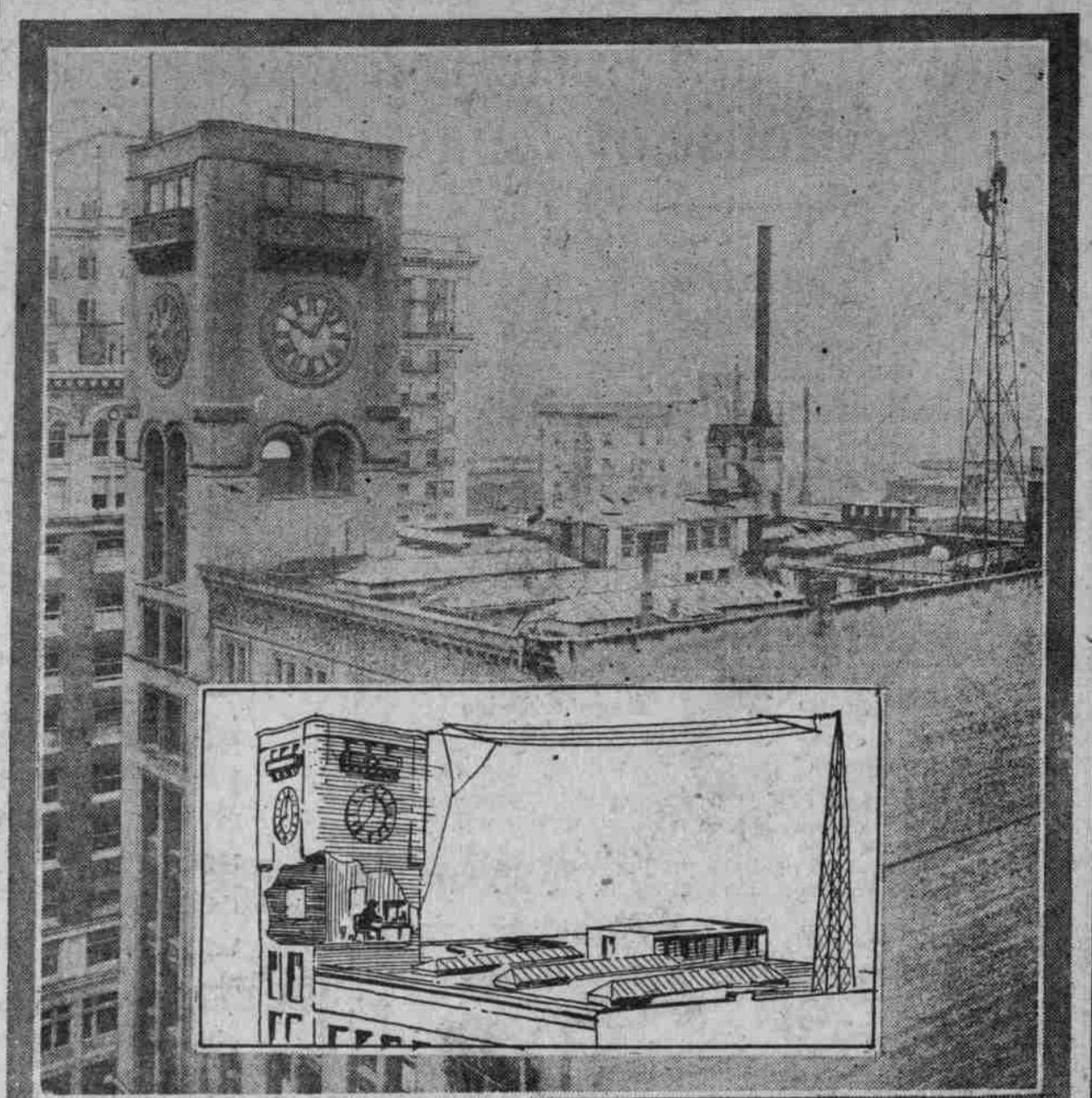
Mr. Adair, who has toured America and Europe in theatrical productions, visited Portland at the old Marquam theater a dozen years ago.

Cove Schools Open Tomorrow.

COVE, Or., March 18.—(Special.)—Cove public schools are to reopen Monday after ten days' vacation on account of quarantine regulations against the spread of influenza. Only three new cases developed within the ten days and they were confined to one family out of town.

Best grades of coal, well screened, Diamond Coal Co., Bldg. 3917.—Adv.

THE OREGONIAN INSTALLS COMPLETE RADIO-PHONE BROADCASTING SERVICE THAT WILL COVER NORTHWEST.



Above—Workmen putting finishing touches to 3200-pound steel tower that carries four 70-foot antennae high in air, with sketch inset showing final arrangement of these wires. Below—J. R. Reed, manager of local office of Shipowners' Radio Service, who installed apparatus, making a test of equipment.

LAND OFFICE NOT BUSY

ONE MAN HANDLING BUSINESS AT WALLA WALLA.

More Than Six Counties Now Are Served by Office—Only 112,165 Acres Open.

WALLA WALLA, Wash., March 18.—(Special.)—After 52 years of existence, during which time it has handled land entries running into the thousands, the Walla Walla land office is now doing so little business that only one man is caring for it.

When the land office was created under act of congress in 1871 its domain was all Washington territory east of the Cascades. Previous to that time Vancouver, Wash., had taken care of the entire territory. The Walla Walla district was divided in 1874 and the Colfax office created. Again in 1881 it was divided and the Yakima office was organized.

The Walla Walla district now includes Walla Walla, Columbia, Garfield, Asotin and Franklin counties, the south half of Whitman, the south half of Adams and a small strip of Benton and Klickitat counties bordering the Columbia river.

Though the district is large there are but 112,165 acres of land not taken up, and mighty little of this is worth having.

Table listing land areas in various counties: Adams, grazing, desert, poor farming, 9,200; Asotin, mountainous, grazing, some farming, 13,300; Benton, grazing, desert, 37,136; Columbia, mountainous, grazing, some timber, 1,193; Garfield, grazing, mountainous, 980; Klickitat, grazing, desert, 46,869; Walla Walla, grazing, some timber, 2,969; Whitman, grazing, some farming, 1,420; Total, 112,165.

SCHOLARSHIP IS SURPRISE

Sam Perlman, Who Wins Newsie Prize, Veteran in Selling Game.

PACIFIC UNIVERSITY, Forest Grove, Or., March 18.—(Special.)—The information that he had won the \$100 scholarship prize given Portland newsmen by their association came as a surprise to Sam Perlman, rook student here, when he saw the announcement in The Oregonian. Perlman has been putting himself through college all year selling papers at his stand on Grand avenue and Morrison street. For 14 years

DEBATE TO BE TOMORROW

WILLAMETTE AND REDLANDS TO MEET AT SALEM.

Veterans of Both Schools Are to Be on Teams That Will Discuss Unions in Industry.

WILLAMETTE UNIVERSITY, Salem, Or., March 18.—(Special.)—The university debate season will open here Monday night, when the varsity squad, composed of Sheldon Sackett, Robert Notson, and Robert Littler, meets the university of Redlands, Cal.

The question is: "Resolved, that the union shop should prevail in American industry." The Willamette team is experienced in debate work. Sheldon Sackett, leader of the team, is a two-year varsity man, and has had experience as leader of his team in every debate.

Monthly returns are expected to increase rapidly until June, the end of the first year of the tax, which is expected to equal if not exceed the returns of July, 1921, the first month the tax was imposed.

Cushman Conference Held.

OLYMPIA, Wash., March 18.—Steps toward the settlement of the controversy between Tacoma officials and the state administration, over the Cushman power project, were taken today at a conference here between Governor Hart, Attorney-General Thompson and a committee of five members from the Tacoma chamber of commerce. The committee agreed to submit a brief to the attorney-general on the legal phases of the controversy, which must be removed before the settlement can proceed.

Women Challenge Men.

ABERDEEN, Wash., March 18.—(Special.)—The women of the Elma Parent-Teacher association have challenged the men to a spelling contest and some of the men have accepted the challenge. The contest will be on the programme of the next meeting of the association, April 10. Words will be from the local weekly newspaper for the four issues previous to the match.

Dallas Attorney Is Candidate.

DALLAS, Or., March 18.—(Special.)—G. O. Holman, an attorney of this city, has announced his candidacy for the republican nomination for the legislature from Polk county. Mr. Holman is the third candidate for the office, the others being D. E. Fletcher of Independence, now representing the Polk-Lincoln district, and P. O. Powell, the incumbent.

FUEL TAX TOTALS \$48,000

All Large Liquid Returns for February Received in Washington.

OLYMPIA, Wash., March 18.—(Special.)—Liquid fuel tax returns for February will be approximately \$48,000, Fred J. Dibble, director of licenses, announced today. All large returns have been received, with only two or three small companies not yet heard from. Returns for February will exceed those for January by about \$1400, marking the end of the winter decline.

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WILLAMETTE UNIVERSITY

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The Willamette team is experienced in debate work. Sheldon Sackett, leader of the team, is a two-year varsity man, and has had experience as leader of his team in every debate. Robert Notson is a one-year letter man, having participated in two inter-collegiate contests. Robert Littler, although never having taken part in varsity work, is a former Salem high school debater, and leader of the Oregon state championship debate team last year.

The university of Redlands will likewise present a squad of veterans, trained by a master of debate, Egbert Ray Nichols, author of "Intercollegiate Debate Briefs," and writer of note on argument and debate. Douglas Gordon McPhee, leader of the Redlands team, is a three-year letter man and has an impressive record as a debater in southern California.

For almost thirty years this establishment has made clothes for Portland's best dressed men. W. P. Kraner & Co. Men's Tailors—Est. 1893. C. W. STOSE, GEO. E. KRAMER, SECOND FLOOR COUCH BUILDING.

GUARD COST STATE \$79,000 FOR 1921

Federal Monies Totalling \$199,052 Distributed.

PAYROLL VALUE IS HIGH

Operation of Defense Body Is Changed From Loss to Profit in 1920; Condition Now Good.

SALEM, Or., March 18.—(Special.)—During the year 1921 it cost the state of Oregon \$79,000 to operate its national guard organization and establish and maintain its war records, while during the same period there was received by the department United States treasury checks aggregating \$199,052. This federal money was distributed among 2900 Oregon men located in 11 counties of the state.

The financial showing for 1921, as compared with a loss in operation for 1919, and the first half of 1920, was effected by enlarging the national guard, recruiting up the companies and requiring the members to attend drill, according to a report made by George A. White, adjutant general and head of the department, who points out in a memorandum issued to the general staff or auditing body, that each active member of the service brings into the state a minimum of \$1 for each drill that he attends.

Payroll Value Important.

"Therefore, since the state has an annual investment in the national guard which can produce a financial return by requiring efficiency among the members of the organization, it is of the utmost importance that efficiency be demanded of each organization commander," says General White in his memorandum. "While the primary importance of the service lies in its value as an element of the national defense, its value as a payroll industry must not be lost sight of. From one point of view the state must be regarded as making an investment in its military department and that investment must be made to yield the maximum return. The state must contribute the same share for national defense regardless of whether it has units which participate and should any of our organizations or activities fail they would be allotted to other states, exactly as we now have five full units producing results for Oregon which we secured through the failure of Montana and some other states to live up to the requirements of the national defense act."

Development Is Healthy.

Study of statistics and records at the adjutant-general's office shows a healthy rate of development in the past two years. During 1919 it cost the state \$29,282.30 more to operate its national guard than was distributed among the members in federal payroll receipts. The change from loss to profit occurred during 1920, when a total of \$31,846.80 was received above the cost of operation for the state. In 1921 the net profit, or receipts from the government over expenditures to the state was multiplied by nearly four, the cost to the state being \$79,975.54 and the receipts in treasury checks \$199,052.52.

During that time the number of effective members increased from approximately 1000 to 2400. The activities of the military department were also vastly increased by the necessity of starting a complete and accurate record of Oregon men in the world war. When the state bonus commission started the record, the adjutant-general's department was able to furnish a record of services of the 34,000 men who served from Oregon and has also established an honor roll of the men who lost their lives in service, a record of wounded, of valorous acts of Oregon men decorated by the United States and foreign countries, a record of the

No Deficiency in Sight.

The report also emphasized the fact that no deficiency appropriation has been incurred during the past year and that in spite of the increased demands on the department there will be no deficiency at the end of the present biennium. By the abrupt dismissal of the Oregon naval militia recently, the unexpended balances for

Pacific "U" on Vacation.

PACIFIC UNIVERSITY, Forest Grove, Or., March 18.—(Special.)—Spring vacation began here yesterday for the 300 students of the university and buildings and campus today were deserted. Vacation will last one week, classes beginning on Monday, March 27. This is the last holiday before the summer vacation.

Mill About Ready to Resume.

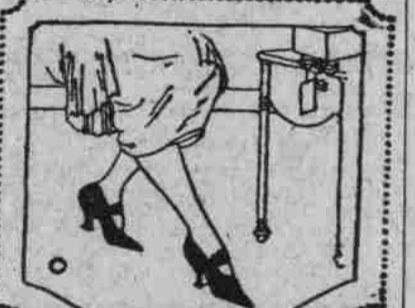
WHITE SALMON, Wash., March 18.—(Special.)—The Laurel Box & Lumber company mill, which was put out of commission by a disastrous fire in 1921, is about ready for cutting lumber. A large force has been engaged for sawing and logging with trucks.

Read The Oregonian classified ads.

Advertisement for Symphony Hall. Text includes: 'Have You Lately Visited Symphony Hall', 'While essentially the home of GOOD pianos, Symphony Hall is also headquarters for MODERATELY-PRICED pianos.', 'The AMPICO in the KNABE Also in the Haines Bros. and Franklin', 'MUSIC teachers are invited to send their pupils to Symphony Hall to hear the great pianists on the Knabe-Ampico.', 'Meier & Frank Co. THE QUALITY STORE OF PORTLAND', 'Symphony Hall, Sixth Floor.'

units from Oregon during the war and a record of the conscientious objectors, dishonorably discharged and slakers. Distribution of 24,000 Oregon bronze medals has also been put on the department without any appropriation for the work. The report also emphasized the fact that no deficiency appropriation has been incurred during the past year and that in spite of the increased demands on the department there will be no deficiency at the end of the present biennium. By the abrupt dismissal of the Oregon naval militia recently, the unexpended balances for that activity amounting to half of an appropriation of \$10,000 have reverted to the general fund. Adjutant-General White in dismissing the naval militia and discharging its personnel said that it was an unwarranted use of state funds. WHITE SALMON, Wash., March 18.—(Special.)—The Laurel Box & Lumber company mill, which was put out of commission by a disastrous fire in 1921, is about ready for cutting lumber. A large force has been engaged for sawing and logging with trucks. Read The Oregonian classified ads.

Large advertisement for Pacific Stumping Powder. Text includes: '2 more land cleared per dollar', 'FOR the cost of the dynamite which cleared one acre of your stump land in 1921, you can now buy enough to clear an acre and a half.', 'Pacific Stumping, the new Du Pont dynamite, makes this possible. It will do the work of any standard stumping powder, stick for stick. But you get 1/2 more sticks of Pacific Stumping per dollar.', 'Pacific Stumping is packed in boxes of 130 sticks; standard stumping powders come in boxes of 85 sticks. Pacific Stumping costs only 50 cents more per box. This makes it actually 2 1/2 cents (30%) less per stick than any other stumping powder.', 'Pacific Stumping is non-freezing even in below-zero weather; and you won't get a headache from using it. Come in the next time you are near our store and let us estimate the cost of your blasting work. We can show you the way to cut your dynamite costs nearly one-half.'



KNIGHT FOOTWEAR for Spring combines distinction in style with price moderation. Our windows depict the newest fashions in extensive variety.

GORDON HOSIERY All Latest Colors \$1.75 to \$3.75

KNIGHT SHOE CO. Morrison Near Broadway

VANS LINOLEUM SOAP CLEANS, OILS, POLISHES LINOLEUM ASK YOUR GROCER AFTER APRIL 1

THE WATT SHIPP PDR. CO. Salem, Or. J. D. KELLY & SON Sylvan, Or. C. A. WOOD Kalama, Wash. E. I. DU PONT DE NEMOURS & CO., Inc. PORTLAND, ORE.