

# 626-FOOT WIRELESS TOWER IS DEDICATED

## Giant Station at Hillsboro Opened With Ceremonies.

### RADIUS IS 5000 MILES

#### Development of Means of Communication Pioneered Out by Several at Event.

With the blessing of the sun's rays as a good omen, Oregon's first great wireless station, constructed near Hillsboro by the Federal Telegraph company, was dedicated Wednesday afternoon. Five hundred Oregonians stood with bared heads as the stars and stripes were raised to the top of the giant 626-foot tower, which will send messages for 5000 miles.

The gathering seemed to catch the significance of the ceremonies and the feeling with which they were held. The "Star Spangled Banner," as the flag slowly ascended, testified to the tribute they were paying in their hearts to the marvels of modern science and the ingenuity of man.

The tower, which is built of structural steel, is six feet square at the base and at the top. Twenty guy wires, covering 321 acres, help to hold it in place on its base of concrete. Six hundred yards of concrete, under the ground form the base.

#### Tower Nearly Finished.

The site of the station, which is three miles southwest of Hillsboro, was covered with timber until last September when the work was started. The tower is practically completed, but will not be ready for operation for about six weeks.

It will be capable of transmitting messages for 5000 miles, but will be used only for inter-city business and California towns and later with Seattle, except in case of emergency.

"In the event of any trouble on the Pacific coast, this station is one of the most strategic points for a radio station and would be of great value to the American government," declared J. Miller, construction engineer, who has been in charge of the work.

"This day is an event in the state of Oregon," said Mayor Baker at the dedication exercises. "It is a wonderful achievement and we can well be thankful for the progress in a day of progress when such marvels are possible. We want our state to take her place at the head of all the states in the west and this station is one step toward that goal."

#### Communication Growth Cited.

K. K. Kubli, who presided as chairman, recalled the pioneer days when messengers and the old means of communication were the only means of communication. He congratulated the Federal Telegraph company on its "wonderful achievement."

As if to accentuate the contrast between the conveniences of today as compared with the yesterday of the grounds just before the ceremonies and alighted in a small field far from the wireless station. It caused little excitement and only the smallest of the small boys present ran to welcome the speaker. The speaker, then-Idaho Airplane company who had come to view the new structure.

The tower is a twin to one now being constructed by the Federal Telegraph company in San Francisco, explained Mr. Miller, who was chosen to tell the visitors "the story of the tower." Mr. Miller also acted as personal guide to the visitors who were fortunate enough to arrive in time for a thorough inspection of the plant.

#### Southern Towers Surpassed.

"This is larger than towers now being built in Los Angeles and San Diego," he said during one of his "personally conducted" tours.

The receiving station is in the Board of Trade building in Portland and outgoing messages will be transmitted from that building to this station over land wires and from here sent into the air. They will be received in San Francisco by special high speed receiving equipment.

A feature of this station, which cost more than \$200,000, will be the multiplex control. The station is equipped with four outgoing circuits, each circuit capable of operating 175 words a minute, making a total of 700 words a minute outgoing capacity. The receiving equipment in Portland is equipped to receive a similar number of words a minute, making the total outgoing and incoming capacity of the plant 1400 words a minute.

Two articulation joints, described as "ball and socket" joints, were used in the construction of the tower to take care of the movement caused by the wind. One is eight feet from the base and the other at the bottom of the top section.

#### Towers Built in Sections.

The tower was built in sections, which were constructed in San Francisco and assembled on the ground. The longest pieces are 30-foot columns and all the small cross pieces, as well as the columns, had to be riveted in place. Before the ceremonies yesterday four workmen casually grasped a small barrel and were hoisted 426 feet into the air to continue the riveting.

Power machinery and the federal arc radio equipment will be housed in a concrete tie structure near the base of the tower. In this building will be located four arc converters, one of 75 and three of 30-kilowatt capacity. Here will be found also two 75-kilowatt motor generator sets and two 30-kilowatt sets. The machine shop for lathes and drill presses, equipped to do all repair work, will be in an adjoining room.

#### Twenty Operators Employed.

Workmen are now completing the work of painting the tower. They are giving it three coats of paint, the final color to be a faded green. An average of 50 workmen have been used for the past six months on the new plant and four or five will be used when the station is completed, in addition to the 29 operators who have headquarters in the Board of Trade building.

"The Federal Telegraph company is the same company which constructed the Lafayette station in Bordeaux, France," stated Mr. Miller. "The Lafayette is the largest radio station in the world. It was completed in 1919 and turned over to the French government. Its sending radius encompasses the world." Mr. Miller was consulting engineer on the Lafayette station.

#### Early Plant Sent to Russia.

The Hillsboro station is not the first sending station in Oregon, but it is the first of any size. The Federal Telegraph company built a transmitting station at Lents before the war. It was later taken over by the United States government and used to handle the Alaska business. Later it was dismantled and sent to Vladivostok, where it is still in operation.

During the interval, the company has been using land wires. F. H. Hartow is the Portland manager of the company.

Hopkins & Andrews of Portland were the general contractors for the station.

# 7 BIG PAPER MILLS QUIT

## WAGE DISAGREEMENTS CAUSE OF WHOLESALE SHUTDOWN.

### Eight Large Plants in East Sign New Contracts With Employes Regarding Pay Scale.

NEW YORK, May 12.—Seven large paper mills in the United States and Canada, employing approximately 9000 men, shut down Wednesday because of failure of workers and owners to sign new agreements to replace those which expired Tuesday.

According to reports received here by the Labor Bureau Inc., the mills which closed were:

Union Bag & Paper company, Hudson Falls, N. Y.; Cheboygan, Mich., and Kaukauna, Wis.; St. Maurice Paper company, Limited, Three Rivers, Quebec; Anglo-Newfoundland company, Grand Falls, Newfoundland; Abitibi Limited, Iroquois Falls, Ontario; Spanish River Pulp & Paper mills, Limited, Sault Ste. Marie, Ont., Espanola, Ont., and Sturgeon Falls, Ont.; St. Regis Paper company, Deferiet, N. Y.; Hanna Paper company, Norwood, Norfolk and Raymondville, N. Y.

The unions, the labor bureau stated, were keeping sufficient men at the plants to furnish fire protection and guard the property. The bureau listed the following concerns as having signed agreements with the unions:

De Grasse Paper company, Finch, Pruyn & Co., St. Croix Paper company, Pejepecot Pulp & Paper company, Great Northern Paper company, Fitzdale Paper company, Consolidated Pulp & Paper company and the Canadian Paper company. These plants resumed operations under the new agreements several days ago.

John Lundrigan, chairman of the manufacturers' committee, said he had been informed all the mills mentioned would be closed if the men carried out the decision to quit. He added he had received no official word from the Anglo-Newfoundland company, but that this mill probably was affected by the others.

The men asked for a wage increase of 10 per cent, while the manufacturers sought a reduction of 20 per cent and the adoption of a nine-hour day.

# HARDING'S SISTER IN ROW

## LETTER SAID TO TAKE SIDES IN DIVORCE FIGHT.

### Court Justice Stops Controversy by Declaring Epistle Open to Lawyer's Scrutiny.

WASHINGTON, D. C., May 12.—A letter written by Mrs. Caroline Votaw, President Harding's sister, created a stir in the district supreme court today when Justice Stafford, to whom it was addressed, filed it with papers connected with divorce proceedings between Dr. G. R. Lee Cole and his wife, Minnie B. Cole. Counsel for Mrs. Cole asserted Mrs. Votaw had asked the justice merely to give due consideration to testimony in behalf of the wife, but opposing lawyers characterized it as an "outrageous effort to influence the judge" and Crandal Mackey, attorney, said he had called the matter to the attention of President Harding's secretary. The latter asserted, he said, "that the wife had been wronged by the husband."

London Press—Colonel Harvey, the new American ambassador, presented credentials yesterday to Earl Curzon, foreign minister. He will be received by King George today and will make his first public appearance at a dinner given by the Pilgrims' society May 19.

Meanwhile he announced that he would refrain from granting interviews. The Pall Mall Gazette says that the new ambassador announced himself by words of greeting "which could not be exceeded in cordiality or couched in terms more agreeable to the people."

Colonel Harvey, it is said, is commended personally to the kingmen by his record as a staunch upholder of the allied cause in the hour of strain and anxiety.

President Harding, it adds, has intimated a friendly disposition toward this country with a frankness for which it would be difficult to find precedent. In his words, President Harding's ambassador constitutes a further forecast that this goal will be not empty nor academic, the newspaper declared.

The United States, in the opinion

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When they came fortified to give the definition of copra, bound West Virginia and told who Cleopatra was and how she died, they were disappointed to see new questions substituted.

Some of the new questions were: What number of vibrations per second do red rays of light give? Violet? What country owns Madagascar? Bound India? Name two locks in the Panama canal.

In what country do orang outangs live? Name the highest quality of bunkering coal used for steamships and tell what district it comes from. What country has the greatest percentages of gypsies? What is sagot? What is Saladin? What is T. N. 77? What was Faber?

There are five transcontinental lines; name them in order by starting at the southernmost one. Where is the platyrrhine? Where is the thryoid gland? What is the difference between linen and cotton? Name the ingredients of smokeless powder.

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### United States Held Bound to Expert Good Offices to Liberate Kingdom From Japan.

WASHINGTON, D. C., May 12.—An appeal for recognition by the United States of the independence of Corea was made by Soon Hyun, an "diplomatic agent and representative of Corea," in a communication addressed to Secretary Hughes. The plea was based on the "hereditary and unquestionable right" of Corea and the treaty of 1882 between that country and the United States.

Declaring that the United States had bound itself under the treaty to exert its good services in Corea's behalf, in case another power dealt unjustly or oppressively with her, the communication requested that the American government issue a proclamation recognizing Corea as an independent and "immediately resume direct diplomatic and commercial relations" with her.

The history of the relation of Japan with Corea was reviewed and the assertion made that the latter had "never voluntarily waived or surrendered any rights as an independent and sovereign nation."

"We have refused and shall continue to refuse," the communication said, "to recognize or acknowledge any authority or right by Japan to have or to assume to exercise sovereignty over any part of the kingdom of Corea. We declare that Japan is wholly unfit to act as the leader or sponsor for Corea and the Korean people."

# LABOR ATTACKS GOMPERS

## West Virginia Federation Urges Retirement of Leader.

HUNTINGTON, W. Va., May 12.—A resolution condemning the policies of Samuel Gompers, president of the American Federation of Labor, was adopted Wednesday by West Virginia Federation of Labor in annual convention. The resolution characterized Mr. Gompers as a tool of politicians and declared that under his guidance the federation was "like a ship without a rudder."

The resolution says: "The Gompers has gone contrary to the policies of the American Federation of Labor as promulgated in the national convention at Montreal. Therefore the delegates of the West Virginia Federation of Labor to the 1921 convention of the American Federation of Labor are hereby instructed to vote against Samuel Gompers for reelection as president."

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## Goldendale Plier May Die as Result of Injuries.

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He was placed on the operating table last night, but had not regained consciousness. The physician in attendance declared that Van Alste had only a slight chance of recovery. The plane was almost submerged and was badly damaged.

Van Alste was a first lieutenant in the aviation corps during the war.

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## Owner of Portland Real Estate Succumbs in California.

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He had extensive mine holdings in Butte, Mont., and in Arizona and Mexico, and owned much real estate in Portland, Ore., and Seattle, Wash., according to friends.

# COLONEL HARVEY ON JOB

## CREDENTIALS PRESENTED TO FOREIGN MINISTER.

### New American Ambassador Said to Have Made Favorable Impression in England.

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# CRISIS CONFRONTS LABOR

## OUTLOOK SERIOUS, DECLARES BROTHERHOOD CHIEF.

### 20,000 Locomotive Engineers Now Without Jobs—Tribute Paid to ex-President Wilson.

CLEVELAND, O., May 12.—Organized labor is facing the worst crisis in its history, Warren S. Stone, grand chief of the Brotherhood of Locomotive Engineers declared Wednesday in his report at the opening of the organization's triennial convention.

Twenty thousand members—almost

Most of fund for beneficiaries, Convention Report Shows.

TOLEDO, O., May 12.—Delegates attending the convention of the switchmen's union of North America settled down to routine work and started discussion at the minor revisions of the constitution.

The finance committee reported that a fund of \$750,000 is in the hands of the union. Most of this is in the form of bonds, but there is a large amount of cash in the general fund, the report said.

President Harding said that during the last three years \$1,374,173 has been paid out, most of which went to insurance beneficiaries. Committees and their chairmen were announced today.

#### OUSTED TEACHER TALKS

Dr. A. E. Young Says He Opposed Student Evils.

PITTSBURGH, May 12.—Dr. A. E. Young, an instructor at Miami university, Oxford, O., who stepped out of his position at the request of a committee of students, last night said that the situation at the institution "is the outgrowth of my earnest efforts to combat certain evils, affecting individual students and certain groups of students."

Dr. Young said that the action of the students in asking for his resignation involved issues vital to the life of all the higher institutions of learning. The final decision, of course, rests with the board of trustees.

# STREET CAR IS HELD UP

## Conductor and Motorman on Hawthorne Line Robbed.

Conductor No. 1350 of Hawthorne street car No. 1361 was robbed of \$13 by a masked man at the end of the Hawthorne line, Seventy-fourth street and Twenty-ninth avenue, about 9:30 P. M. Wednesday. W. Perry, the conductor, in addition to the \$13, lost his cap and his watch.

W. N. Huguenin, motorman, also lost his watch. The crew was preparing for the return trip when the man confronted them, giving emphasis to his demands with a nickel-plated revolver.

There were no passengers on the car.

# Soviet Scandal Uncovered.

RIGA, May 12.—According to the Riga newspapers, M. Gukovsky, Russian ex-minister to Esthonia, being tried at Moscow. It was charged he wasted one-third of the soviet gold reserve in the purchase of worthless goods abroad.

Read The Oregonian classified ads.

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# "\$12.85"

—that's all you have to pay Today and Saturday for any of these

## Boys' All-Wool Belted Suits

With Extra "Knickers" Regularly \$15 and \$16.50

These are the smartest sort of new suits, tailored from cassimeres, tweeds, chevots and novelty weaves; grays, greens, browns and mixtures; coats mohair lined; "knickers" full-lined and seams taped.

These suits are the kind fathers and mothers will be interested in, because of their splendid quality, their good style and careful workmanship, their especially attractive price for the week-end.

BRING YOUR BOYS HERE TODAY OR SATURDAY. BUY AND SAVE!

# BEN SELLING

Leading Clothier MORRISON STREET AT FOURTH

# RETAIL SALESMEN WANTED

## Oakland Six

Wonderful Sales Opportunity at Reduced Prices.

Northwest Oakland Co. 344 Burnside St.

# ELECTRIC WIRING

Lighting—Cooking—Heating. If you don't get our estimate, you both lose.

Smith-M'Coy Electric Co. 104 Fifth St. Phone Main 8011.

# LIBERTY

## STARTING TOMORROW

Oil Magnate Drops Dead

E. E. Cressler, 60, Succumbs While in Bathroom of Home.

WICHITA, Kan., May 12.—E. E. Cressler, aged 60, millionaire oil man, president of the Cressler Petroleum Oil company, fell dead in the bathroom of his home Wednesday.

He had been two weeks. Mr. Cressler discovered and developed the Fox Bush oil field, one of the best pools in Kansas.

# THE OATH

Neighborhood Fairs Advocated.

YAKIMA, Wash., May 12.—Neighborhood fairs in general country in the state a week before the opening of the state fair were advocated

by farm bureau project leaders' meeting with State Fair Secretary Vermylye. Exhibits at these fairs would be transferred to the state fair for state-wide competition.

the king of Siam bears one of his titles "Lord of the Tent House and Umbrella."

Until comparatively recent years the umbrella was a distinctive badge of monarchs and nobles and today

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