BETTER THAN WIRE

No Haughty Central Can Tell You "Line Is Busy" When It Isn't, or Ignore You.

EXPERIMENTS ARE

"Wireless Party" Held Down in Cellar of C. M. Allen's House Is Great Success.

By H. L. McKaughan Wireless telephoning beats the wire system with its haughty "centrals" all to pieces. Another advantage-no one can talk back. The party on the other end must just sit and listen until you run down, and can't possibly butt in, for you couldn't hear him if he did. It's a great idea! C. M. Allen, telephone engineer for the forest service, gave a wireless party for

me Thursday night, where, surrounded by coal scuttles and gas meters, as well as the instruments with all their coils and batteries, he showed us how the new wireless sets which the forest service is going to install upon Mount Hood for five protective work, succeed. With a rapt expression upon his face, for Mr. Allen has worked long to get these sets for use in forest fire work and is now realizing his heart's desire, master of ceremonies presided with his head done up in transmitters and receivers and his two hands trying to do

the work of six. For in operating the

strument there are 11 doojiggers to

be manipulated, representing induction coils and such like. Mr. Allen turned on the juice. "Hello there Charlie," he said to his collaborator, a government man who is said to ethe best posted man on radios on Pacific coast, and who was at that moment six miles away. "Are you on the wire—excuse me, I mean in the air? If so, let me know."

He turned the juice off. Through the air came clearly the retort, "I hear you, Clay, just fine. What do you want?" Mr. Allen again turned on the juice. "Give us some music, Charlie. You've got an audience here."

Charlie furnished the music with record after record played on his phonograph. Charlie, by the way, doesn't want his real name used, for Uncle Sam objects to his employes getting mixed up publicity, especially when radio operations are concerned.

Then Charlie talked to each and all us and we all talked to him. We hadn't the least trouble getting him and with the exception of a little 'static' that piled up once in a while and the telegraphic code from a boat that was sailing down the river, the voice was

the conversation but he could reply only and the clicks came so loud they could be heard all over the basement. Charlie read to us and joked with us and we all wife. had a very pleasant evening with him, LETTERS MADE PUBLIC taking turns about at the receivers and

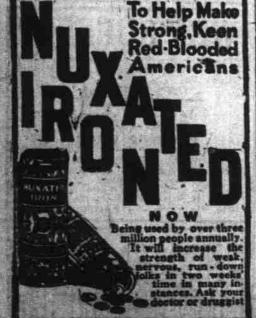
the ordinary telephone, on which Mr. Allen tried all evening to get parties but was met either with the customary 'Line busy" or completely ignored. Even when Buford, Mr. Allen's son, went upstairs and tried to call his father, who was waiting below, Central told m the "Line is busy."

It was a great contrast. Mr. Allen's family is as enthusiastic over the instruments as he. Buford will accompany his father to the mountain Saturday, when they will set up the instruments at Government camp and at Camp Biossom, the first places Saturday, when they will set up at which tests will be made. Jack, the little 8-year-old son, probably, has the distinction of being the youngest wire-less operator in the country, for he can sipulate the instrument and handle the adjustments without any assistance

from anyone. The instrument has a range of only eight miles for wireless telephony, but by using the telegraphic code, this dis-tance can be extended to 20 or 30 miles. Mr. Smeed of the Mount Hood stage started up the mountain Thursday night with one load of masts and other necessary articles, and the remainder of the sets will be taken up the first of the

Whether the forests and mineralized rocks will have any effect upon the radio waves is not yet known. If the wireless proves a success under mountain conditions, sets will be installed upon St. Helens and Rainier. Two telephone wires have been extended to the nit of Hood for several years, but these are constantly being wiped out by avalanches. Two years ago a fire was discovered on the mountain hours before it was seen where, but the wire was out and the rangers below could not be notified, so that it cost \$5000 to extinguish the first in representation. flame. By saving a few such losses as this, it is believed the sets will soon pay for themselves.

Soft Drinks Had "Kick" Chehalis, Wash., July 19 .- Cider and other soft drinks sold in Chehalis and Centralia, when analyzed, were found to contain from 4.2 to 13.1 per cent shot, Warrants are out for seven



WIRELESS KIND Ward Is Chimay's Brother GREAT RESOURCES OF TELEPHONE IS Letters Reveal Romances OF THIS STATE ARE

Charles W. Ward, San Francisco millionaire, and brother of the widely known Clara Ward, who became the Princess Chimay and later the wife of the violinist, Rigo.



the lives of brother and sister, bringing the sister international notoriety and involving the brother in a sordid barter for love in his declining years, has been revealed as a strange double motif in the destiny of Charles Willis Ward and the late Princess de Chimay, the former

Clara Ward of Detroit. Ward, possessor of millions derived from the fortune of his father, a Michigan lumberman, is a brother of the Princess Chimay, it became known to-

most remarkably clear and had the wire sprang more than a decade ago from man. But the interest aroused by the POWER AT LOW COST skinned a mile." the escapades of the sister. The brother is now the center of similar interest, precipitated by his charge that Mrs. Alice Wilson of San Francisco per-formed an illegal operation upon her 22-year-old daughter, Ward's contract

Ward's action against Mrs. Wilson disclosed a remarkable story of how the elderly millionaire entered a contract marriage with the young San Francisco girl under terms providing for the payment of \$100,000 at the end of a year, adoption of her two young sisters and payment to them of \$1000 a an object of romantic interest.

made public letters written by Ward devoted to him. **KEYNOTE OF VICTORIA**

Aerial Flights and Banquet at Empress Hotel Special Features of Big Gathering.

By A. S. Johnson

Victoria, B. C., July 19 .- The third association, held at Victoria, Thursday, Friday and Saturday, was a mile from the scene of his recent althe most successful in the history of the leged illicit distilling operations. organization. Six hundred delegates registered from towns in Oregon, Washington, British Columbia, Alberta, Idaho and Montana. Portland, with more than 100 realty men and members of their families in attendance, ranked OPTIMISM IS KEYNOTE

Optimism was the keynote of the co vention and plans were matured for the scientific lines. The wonderful resources of the vast territory represented were analyzed in the speeches of the delegates and constructive effort toward the colonization of the country was outlined.

One of the chief features of Friday's program was the airplane flight offered visiting delegates by the Victoria branch of the Aerial league of Canada. Five Portland delegates made flights of 20 minutes' duration with Lieutenant J. D. Clemence, pilot for the league.

PORTLAND WOMAN FIRST the first applicant for the airplane trip.

Friday night was attended by more than 500 delegates. C. T. Cross of the Victoria Realty board was chairman and toasts were responded to by Brigadier General R. P. Clark, H. H. Wowen, D. D., of the University of Washington; Tom Ingersoll, secretary of the National Realty association; Fred E.

to Mrs. Edna Pindexter, a young Port land widow, letters fervidly pleading for the return of a lost love. The letters were turned over to the police by Operative Walter Treadwell of the partment of justice, who conducted an investigation of Ward's alleged relations with various young women on the Pacific coast with a view of learning whether a violation of the Mann white slave act had been committed.

CLARA WARD'S ROMANCE Clara Ward first came into promi-Columns of sensational publicity nence with her marriage to the nobleand beautiful American girl nothing compared with caused by her desertion of Prince Chimay and her children and her elopement with Janezi Rigo, the Gypsy violinist, who was known to many in Portland as the leader of the orchestra .. t

the Louvre restaurant. The beautiful American princess and the violinist were married, Chimay having obtained a divorce. After some years she divorced Rigo and became the wife of Chevalier Guiseppe Ricciardi. Rigo came to Portland in 1910 and was In the letters turned over to the when he obtained a divorce from his lice by Treadwell, Ward speaks of Alice Wilson and her sister, Helena, telling Mrs. Poindexter that the sisters were

> Taylor, founder of the Interstate association; E. S. Goodwin of Scattle, president of the association. Delbert Fradenberg of Hoquiam, Wash., boy tenor, was one of the chief attractions on the program. Great en-thusiasm marked the banquet, which lasted till past midnight.

REALTY CONVENTION Russian Bolsheviki Taken on Charge of

Salem, July 19.-John Vasselieff, Russian Bolsheviki, and Marion county's original "moonshiner," according to allegations made by the sheriff's office here. was arrested late Friday night while annual convention of the Interstate roaming around in the "south bottoms." 10 miles north of Salem and about half

Although armed with a .32 calibre automatic revolver, which he had told people in the neighborhood he intended to use rather than submit to capture, Vasselieff made no show of resistance when picked up by deputy sheriffs. He will be tried in the Marion county courts before being turned over to the federal

Vasselieff is charged with the opera-tion of a still, which was uncovered in an old cabin on the "south bottoms" in a raid by Sheriff Needham and deputies with federal officers Thursday night.

Yearning for Good Pies Caused Idea

E. C. Scott liked ples-good ones. He is a connectaseur when it comes to pies. Once uped a time he was a theatrical man. He traveled. All the time he just Mrs. J. Fred Staver of Portland was been for good pies. He didn't get the first applicant for the airplane trip. Two years ago Mr. Scott decided he would settle the question the first applicant for the airplane trip. Mrs. Staver is enthusiastic in her description of the flight. The plane rose to a height of 3000 feet and performed loops, nose dives, spiral twists and other spectacular stunts. Other Portland people who went up were J. Fred Staver, Fred W. German and W. B. Allen. Lieutenant Clemens was a student at the North Pacific Dental college at Portland when the war started and enlisted in the Imperial Aerial service. He is said to be one of the most expert pilots in Canada.

The banquet at the Empress hotel Friday night was attended by more than 500 delegates. C. T. Cross of the Victoria Pacific Post of the flight. The plane rose decided he would settle the question—of ples—so he served an apprenticeship with a Chicago pie expert. Then he came to Portland and started a high class. There, at 267 Fifth street, in plain sight of everybody, he is baking from 250 to 300 pies each day. In these he uses the best grades of butter, fruit, sugar and the choicest flour he can buy. The fruits are picked over and carefully washed. Only the purest grades are used. And no matter about the price, eggs never more than one day old are used, and lavishly at that. The ples are baked. They are sold at 40 cents each, and buyers declare they are worth the price. And that's why Mr. Scott is prospering. It

Sixth Gathering of Citizens Interested in Waterfront Development Held at Central Library

NEW INDUSTRIES POSSIBLE

Many Are Cited to Illustrate

held in room F. Central Library. Tuesday evening, and another will be held in the same building next Tuesday evening. The room in which it will take place will be written on the will take place will be written on the library's bulletin board, so it will be well for attendants to consult this on entering. It was intended that the last would be assembled in Library hall, but a lecturer occupied it, and thus many who expected to attend the waterpower meeting were kept away. They did not know where to go. There was much of interest discussed on Tuesday evening. Excerpts from voluminous reports of former State Treasurer John H. Lewis were read. These covered the years 1910-1916.

NEW INDUSTRIES SUGGESTED

The electric reduction of iron and steel. The wood distillation industry with charcoal for the iron industry, obof fertilizer from the air by the fixation furnace. The manufacture of calcium as fertilizer. The making of alkali from present in Portland newspaper men from sait by the electrolitic process. The all parts of the nation. making of aluminum from bauxite. The

of graphite in the electric furnace, which trates. For innumerable electrochemical rocesses. For light and heat in the ome, on the farm, in hotels, bakeries, factories of every description and power

The report declares that "there is much power in Oregon which can be of the plant within the limit of fron \$5 to \$10 per hersepower per annum. When the production of iron and stee is now impossible with coke at \$12 (prewar price) per ton, it may become commercially profitable if the state or municipality would encourage and supat the lowest cost. In American cities with coal at as low a figure as \$2.14 to \$2.44 per ton, it costs \$37 to \$57 per norsepower year to generate electricity, but with waterpower only two cents per kilowatt, or \$13.14 per horsepower per year, even in places difficult of con-struction." The engineer's report continues: "The retail rate for electric lighting purposes in the vicinity of Portland, is nine cents per kilowatt hour and excess of a certain amount. This is at the rate of \$551 per horsepower year as a maximum. The minimum is \$263 per

PROFITS IN ELECTRIC CURRENTS L. B. Seeley read from the quarterly

eport of the Oregon Historical society, (March, 1919), page 21, referring to a published report of the Idaho Power operating a Still operation operation operation operation operated 24 hours per day, would yield the company a net profit of \$10,543,180, or a supplemental to five per cent interest. or a sum equal to five per cent interest per annum on \$210,863,680. In a statement before the Idaho board of equalization the company placed a value upon its property of \$2,651,000." Speakers of the evening included L.

B. Seeley, George L. Culvert, William T. Carroll, F. E. Beach, Dr. Emmett Drake, Miss Carrie O. Millspaugh, J. J. Sayer and Charles Coopey. A publicity committee of three active members was appointed, its business being to seek cooperation of the city newspapers in the work in hand. A sec-ond committee, George L. Culvert, chair-man, was appointed to investigate the condition of adjacent waterpowers as to ownership and to ascertain the steps necessary to take to acquire their pos

ression and improvement. According to Engineer Lewis the United States is sending away in the neighborhood of \$40,000,000 annually for the purchase of nitrogen in its various combinations, half of which goes to Chile, and many authorities estimate that the natrual nitrate deposits of the tween 1923 and 1955. As the demand for fertilizer is increasing at the rate of about 10 per cent annually, what is to be done? With Oregon's waterpowers in useful action this city and state would be in position to call from the air 130 FIRST ST.

nd sell at a low figure all of this com-nodity required by the people for all me. It has been estimated that a clumn of air resting upon each square alle of the earth's surface contains mile of the earth's surface contains 20,000,000 tons of nitrogen in the free state, or sufficient to supply the world for the next 50 years. All told, says Engineer Lewis, the United States expends upwards of \$125,000,000 for fertilizer. This vast treasure could be kept in our own country. Oregon could fill the entire demand.

Charles Coopey to Close Factory Here

After 36 years' residence in Portland, during which time he has conducted a tailoring establishment specializing in military uniforms, Charles Coopey will close his factory in the Royal building the last day of July and will engage in business at Coopey Falls on the Columbia River highway. He intends to im-Many Are Cited to Illustrate
What Would Be Wonderful
Result if Power Is Harnessed.

By H. S. Harcourt
A sixth meeting of citizens interested in waterpower development was held in room F, Central Library,

BE VERY BUSY ON

Manufacturers to Display Products: Pharmacists to Meet and Newspaper Men Entertained.

The week of August 4-9 will be a busy one in Portland. Manufacturers of the city will assemble their products in one building, so far as Some of the new industries which possible, that they may be collectivecould be established in Oregon, if large ly displayed for the inspection of outquantities of electrical power could be side merchants desiring to replenish had at low cost, says the report, are as their stocks. The six days will be known as Buyers' Week.

In addition, merchants of all Northwestern states will hold a convention tained as a by-product, after extracting here. This will be the second convention wood alcohol, acetic and oxalic acid, of its kind held in this city, and at the wood oil, turpentine, creosote and acetate of lime, from our stumps and waste wood products of our mills. The making was held in Salem last year. The Northeants' association convention. west Furniture Manufacturers and Jobof atmospheric nitrogen in the electric bers will hold open house to their customers, though few have anything to carbide which is used extensively for sell. The Oregon Pharmaceutical assolighting purposes and also after further clation also will hold its annual convenreatment producing cyanamid and used | tion during the week, and there will be

For a second time the National Editmaking of carborundum which is used torial association convention will assemextensively as an abrasive. The making ble in this city, and the members will be entertained by the Portland Press club. is now taking the place of oil as a The manufacturers, however, have been lubricant. For the melting of concen-most active, and will continue to be, in their endeavor to make a worthy showwill liquidate the railroad fare of all visiting merchants who buy \$500 worth or more of their goods.

Window Displays of Home Products Plan

the coming two weeks in creating interest among manufacturers and local merchants in displays in the windows of the stores of the products of local in-dustrial institutions. Committees from the Central Labor Council are working with the merchants, and it is, therefore, hoped that the thousands of strangers who will be in Portland during Buyers' week, August 4-9, will have an opportunity to see for themselves that this has grown to be considerable of a payroll town and that many of human necessities are manufactured here. As merchant and manufacturer will be alere and recognize the value to themselves of making the exhibits the best that can be produced.

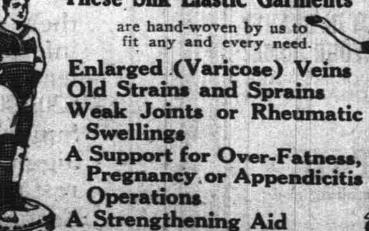
Clark on Vacation A. G. Clark, manager of the Associated Industries of Oregon, has been granted a 15 day vacation by the directors, and on Thursday left for the mountains of Southern Oregon. He says that "I intend to kill a few bears, tree a porcupine and wing a catamount, after which I will shoot a cougar, assassinate return to my desk with a monu smile."

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New Style of Engine Eliminates Piston Vibration and Renders Aerial Traveling More Secure.

"When I began as an aviator 10 ears ago at Exeter, Cal.," says Arthur L. Smith, 447 Sherlock building, inventor and manufacturer of the hydro-gas turbine motor, built at East Eighth street and Hawthorne avenue, "the best airplane motor to be had could remain in the air not more than 30 or 40 minutes. At the end of that time it would be necessary to descend and repair the motor or replace it with a new

"According to J. D. Ryan, head of the government airplane industry., Liberty motors, at present used almost exclusively by the government, have a live existence of 72 hours. It is considered unsafe to keep them longer in the air, he says, and in some cases their time is 60 hours, though one has been known to run 100 hours. These motors cost \$12,-000, hence they are a rich man's luxury. The cause of their brief career is that they pound themselves to pieces. With an engine revolution of 2000 a minute, it is not difficult to understand this. The quick motion of the piston is too strenuous to be withstood for any extended period.

DIFFERENT WITH ROTARY "It was because I nearly lost my life while aviating that my mind was diverted to an effort to construct an airplane motor more safe and of longer life than those I had been using. By trade I am an electrical engineer, but have had considerable experience in handling machinery of every kind. My firs thought was for a rotary motor. This would do away with piston vibration make possible greater motor speed and decrease the weight of the motor by at least one-half. I have accomplished my desires. I have succeeded to the fullest extent, and I firmly believe that the day is approaching when every airplane in existence will be propelled by a rotary engine. It may not be mine. Some day someone may improve on my inven tion. I hope so.

CONFIDENCE IN ENGINE "I feel sure, however, that the rotary will supplant all other motors in air navigation of the world, first, because its life probably will be 40 to 50 days in continuous operation in comparison to three days of the Liberty, the best now Liberty and cost not more than half as much to build. And the rotary will increase the speed of the airplane. This PHOENIX IRON WORKS cannot be done by any other engine Active members of the Progressive heat and burn the lubricating oil if run Business Men's club, M. E. Lee, chair at accelerated speed. The rotary will man, will be sealously engaged during not. The Liberty may be run at 2000 revolutions, its utmost speed. The ro-tary may be run up to 12,000, therefore making six miles to the Liberty's one. And in speaking of the Liberty, I mean all motors of that type. As the rotary will last as long as its bearings, worn only by the revolutions of its axles, it will be understood that its life will be of long duration."
The Arthur L. Smith Motors company will build a factory in Portland to manis being sought.

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COOPEY SAYS:

Yes, it is true, he is closing up his tailoring business to go up on the Columbia River Scenic Highway and sell scenic home and hotel sites and develop some other things up there. And there are lots of developing needed if we wish to get the tourists and have them leave some of the \$700,000,000 they spend annually, as tourists want recreation and entertainment combined with scenery. Then they will come. It is possible, too, that he will go into the wool raising business. Now, don't laugh, because he may become a regular farmer. In closing out, he has some suit and panta patterns for men's wear, as well as goods suitable for laddes. If you are looking for something of this kind it will pay you to give him a call, as he closes up Saturday, July 26. Oh, he almost forgot to say he is going to publish a little newspaper or magazine at Coopey Falls.

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