

Radio News

Indiana Hears Seattle Music

Radio Set Carries 2,500 Miles

Concert and Conversation Heard by Hardware Dealer in Brazil, Ind., Found to Have Gone Out From Sending Station Here.

EAST is hearing West through the medium of the radio telephone broadcast these days. Within the last week, Brazil, Ind., has heard Seattle and Centralia has heard Chicago. That Seattle broadcast of telephone music and other matter has been heard on the western border of the state of Indiana, about ten miles from Terra Haute, as gathered from a letter received by The Times yesterday.

The writer, William P. Tilley, a hardware merchant of Brazil, Ind., had received which he believed came from this city and he wanted confirmation. His confirmation has been had. He undoubtedly heard Seattle.

A group of members of Centralia Lodge No. 1034, B. P. O. E., last Monday evening, ordered a radio set and had it installed at their home. The set is a radio receiving set installed that evening by Paul DeChamplain, manager of the local Western Union station. This set is to be given its first real test at the regular meeting of the Elks lodge. The lodge owns the set and will finish payment on it with proceeds of a dance to be given April 1.

In the letter of Mr. Tilley of Brazil, Ind., the writer says:

Indiana Hears Seattle.

"On March 15, between 7:45 and 8:30 p. m., the writer heard a lecture on common law hospitals. The first part of the lecture was not caught because of serious static conditions. The voice came completely away and then coming in strong again.

The call, if I heard right, was as follows: This is FWC, or FBZ, of Seattle, Washington, transmitting. It was stated that several selections by an untelegraphically named orchestra would follow. These pieces were heard very distinctly. Then, after a short interval, a discussion was heard at times very distinctly concerning the antenna, equipment, etc. It was broadcast on a wave length of 361 meters.

Mr. Tilley desired a confirmation of this broadcast matter as coming from Seattle. He considered it most remarkable because of the simple character of his equipment.

Investigation has disclosed the following facts which, undoubtedly, confirm the Indian in his belief that he heard Seattle through the air, at a distance of approximately 2,500 miles.

The first place, the station call of the Northern Radio & Electric Company, which Mr. Tilley evidently heard in "KFC" there is no initial "F" in limited broadcasting stations engaged in sending out radio matter. The similarity of the word "KFC" as he understood it, and "KFC" is self-explanatory.

Lecture Delivered.

From 5 to 5:30, Seattle time, on the night in question, there was broadcast from here a talk on hospitals, authorized by the United States Public Health Service. The Indiana man's time of arrival at the hospital lecture was transmitted here.

A check could be made by the orchestra selections heard by Mr. Tilley. The "KFC" station here regarding the broadcast matter that evening and position concerning the antenna, equipment, etc. It was broadcast on a wave length of 361 meters.

There has been considerable interference on the part of the telephone broadcasting station with the service of the "NVL," the big naval radio transmitting station, at the Seattle Building. The telephone broadcasters were directed by the district radio inspector to moderate their transmission so as to eliminate this interference.

On the night in question, of which Mr. Tilley writes, a change in the modulation of the "KFC" transmitting set was required. This required a period of testing, repeated confirmatory advice and suggestions from persons owning radios, and those who in turn, by wire telephone, communicated their suggestions to the transmitting station.

There was considerable talk about antenna, equipment, etc. There were times when the wave length used by the broadcasting station was well above the 361-meter length, for which the station is licensed.

Therefore, it would appear to be established, beyond any question of doubt, that William P. Tilley of Brazil, Ind., did hear Seattle through the air on the night in question.

Describes His Set.

The Tilley receiving set, by means of which he heard Seattle, is described by its owner as follows:

The variometer is 4 inches in diameter, wound with 36 turns of No. 25 wire. The antenna is every eight turns. The broadcast was heard on the first eight turns. The inductor is a 2-inch diameter coil wound with 36 turns of the same size wire. Two switches are connected in series, one as a primary and the other as a secondary coupling. An Litz plate condenser antenna was used. The set was completed with Brandes 2,000-ohm phones and a Cunningham C-249 tube.

Mr. Tilley concluded his letter with the statement that four persons heard the Seattle broadcast.

SIX-HOUR SCHEDULE OF BROADCASTING

FOLLOWING is the radio telephone schedule for today in Seattle:

From 2:15 to 3 p. m., news bulletins for ships at sea.

From 3:30 to 4:30, special program for Ladies Aid Society of Gilman Park M. E. Church.

From 5 to 6:30, news bulletins and music.

From 6 to 7, market prices, news bulletins and music.

Interval between 7 and 8:45 is reserved for transmitting by the Northwest Service Company and Excelsior Company stations, but the former's usual program is given on alternate days, and today is silent, while the Excelsior company is temporarily closed down, installing a new set. All other broadcasting is handled by the Northern Radio & Electric Company, which resumes as follows:

From 8:45 to 9, news bulletins.

From 9:15 to 10, program by Western Quartet and Melody Five Orchestra.

Artists Will Sing.

During the evening's local broadcast, the Western Quartet will sing four selections during the 9:15-to-10 o'clock period. The quartet is composed of Mrs. Isabel Griffin, Miss Hannah Hughes, Mrs. Anna Lea and Mrs. Elizabeth Jones. The quartet will play concert and dance numbers during the same period.

To Treat Diseases by Radiophysics.

NEW YORK, Wednesday, March 22.—The audion bulb or vacuum tube amplifier, which has been used for many years in connection with the wireless telephone, may prove a valuable value in the treatment of heart and lung diseases, experiments being carried on by Dr. M. J. Myres of the United States Army, and Dr. F. L. Hunt of the Bureau of Standards.

The two physicians have invented a recording mechanism by which the faint sound of the heart or lungs may be amplified and then transmitted through a speaker to the ears of the examining physician.

An ordinary carbon telephone transmitter is used as a stethoscope. The sound waves, set in motion by the functioning of the organs, are caught by this apparatus through the amplifier to a telegraph.

The apparatus is a technical description of the apparatus in Popular Science. Steel wire is used as a recording element. The wire runs between two electric magnets actuated by current from the amplifiers. As it passes the poles, it is magnetized with varying intensity, depending on the amount of current produced by the sound of the heart or lungs. When the motion of the wire is reversed the same apparatus produces the sounds in a telephone receiver.

A second feature of this novel use is that which the amplifier may be used in transmitting the record of heart beats or respiration action to a distant receiver. By this means the symptoms can be brought to the attention of specialists in distant cities or even personal contact with the patient.

Save Time and Money.

The saving of time and money to sufferers from heart and lung diseases which result from such tests, cannot be estimated. It is only a matter of a short time until every city and small town in the country will have instruments available by which the records can be made. Patients who then wish to have their cases diagnosed by experts at a distance, whose services are of large value, will have no step into the nearest laboratory, have their heart or lung action recorded and then send the records to the work of the specialist who should be able to read the records. This is a case and prescribe the method of treatment by the use of the records. A physician much more rapidly than would be the case were he brought into personal contact with the patient.

To Hear Footfalls of Flies.

As scientists say, the amplifier will reach a point where it will be able to detect the footfalls of ants, the conversation of ants will become audible. It is perhaps not too much to expect that its use in detecting other diseases may soon be made possible. Recent experiments have shown it would be useful in determining the progress of the disease or the extent of the disease.

In many cases where quick advice is wanted from a distinguished physician it would be possible for the heart or respiration tests to be brought direct to his ear by wireless. A few minutes later instructions as to treatment would be obtainable by telegraph.

Wireless fans in possession of a phonograph using cylindrical wax records may carry out some interesting experiments for themselves along these lines. Doubtless some inventors already determined a means of setting a recording phonograph in motion by means of a wireless telephone and opened the way to recording messages passing through the ether.

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RUN FOR YOUR LIVES



When you look at the explosion—the bursting dam and the terrific flood sweeping all before it you'll feel the thrill of the age—you'll see a scene that you will never forget as long as you live—

PRISCILLA DEAN

The most Dynamic Personality on the Screen

—IN—

"WILD HONEY"

SECOND NEAR PIKE **COLUMBIA** FORMERLY THE CLEMMER

NOTE! To see wheels revolve, cut out and paste on cardboard, then move the card with a slight circular motion.

COMING! "BURN 'EM UP BARNES"

BLUE MOUSE THEATRE SATURDAY

FILLED WITH THRILLS

plete revolutions in one second between a pair of magnetic poles, there will be 120 alternations or reversals of current per second and since two alternations constitute a cycle the frequency of the current is sixty cycles per second.

The frequency of an alternating current generator is expressed in cycles per second and is a function of the number of field poles of the generator and of the number of revolutions per second made by the armature. As previously explained, one complete revolution per second of a coil between a pair of field poles constitutes one cycle per second. From this we develop the relation that the frequency of an alternating current is equal to the product of the number of pairs of poles by the revolutions of the armature per second.

Frequency (cycles per second) equals $P \times N$

Where P =the number of field poles.
 N =the number of revolutions of the armature per second.

The frequency of the alternating current generators in general use for ship installations vary from 60 to 500 cycles at a pressure ranging from 110 to 500 volts, depending upon the mechanical construction and electrical connection. In the high frequency alternating current generator developed by the General Electric Company for use as a source of energy in the generation of continuous waves, a frequency of 100,000 cycles has been obtained.

Plans for the year's work will be discussed at the first weekly luncheon of the newly organized Seattle chapter of the Gyro Club, to be held at the Pigeon Whistle tomorrow at 12:15 o'clock. "Ours is a rising and a setting sun," is the motto the club has adopted and "Keep Spinning" is its slogan. One of the plans to be discussed at the luncheon is for the immediate organization of an orchestra. Lin Foster has undertaken to recruit the musicians. The chapter was the Concert Club until last week, when it affiliated with the Gyro Club, an international organization with chapters in both the United States and Canada.

LUNA PARK SWIMMING POOL opens Saturday, March 25.—(Advertisement.)

Wishing for sleep is a poor way to get it

A LITTLE wisdom in the daytime is a better assurance of rest than any amount of anxious wishing when nerves are a-jangle at night.

What you do at noon often has more influence on sleep than what you want and hope for, at midnight.

Coffee's drug element, caffeine, whips up the nerves, and when its use is continued there's usually a penalty which no amount of mental effort can avoid.

The part of wisdom, as so many thousands have found, is to turn away from nerve-stimulation and adopt rich, delicious Postum as the mealtime drink! Postum delights the taste, but brings no disturbance to nerves or digestion. Even the little children can share in the enjoyment of Postum at any meal.

It's better to anticipate warnings than to be driven by them.

It's better to encourage and preserve sound nerves and complete health than to listen to the clock ticks at night and say, "I wish!"

You can get Postum wherever good food or drink is sold and served. An order today may be the beginning, for you, of the great satisfaction and comfort which so many others have found in Postum.

Your grocer has both forms: Instant Postum (in tins) made instantly in the cup by the addition of boiling water. Postum Cereal (in packages of larger bulk, for those who prefer to make the drink while the meal is being prepared) made by boiling for 20 minutes.

Postum for Health—"There's a Reason"

Made by Postum Cereal Co., Inc., Battle Creek, Mich.

With Mazola there is no odor or flavor carried from one food to another. After frying fish and onions all you do is strain it and use it over and over again—even for making the most delicate cake.

FREE Beautifully illustrated Corn Products Cook Book of 64 pages. Write Corn Products Refining Co., Department A, Argo, Ill.

Best for Salads and Cooking

MAZOLA

Used and recommended by Public School Domestic Science Teachers

TWO SPEAKERS ON PROGRAM

Thorpe and Henderson to Address Members' Council.

Thomas F. L. Henderson, Chicago, business counselor of the La Salle Extension University, will share honors with Merle Thorpe, Washington, D. C., editor of The Nation's Business, on the program of the Chamber of Commerce members' council in the Masonic Club rooms Friday noon.

"Business is Business," will be the subject of the address by Mr. Thorpe, who in spite of hurts he received in a train wreck near Butte last Friday has been able to continue his trip to

Seattle and fill his speaking engagements. He will appear in Mount Vernon this evening and will address the Everett Chamber of Commerce tomorrow night. Arrangements for a dinner Friday in his honor by University of Washington journalism graduates have been canceled. Instead, a number of his former students will meet with him informally at dinner tonight.

Sues for Brother's Death.

Minnie Tunem yesterday filed suit in the King County Superior Court against the Prefontaine Building Company for \$14,192 as compensation for the death of her brother, Oscar Tunem, killed while trying to operate an elevator in the building October 27, 1921.

MISSISSIPPI WOMEN LOSE

State Senate Indefinitely Postpones Their Bill of Rights.

JACKSON, Miss., Wednesday, March 22.—By a vote of 21 to 19 the Mississippi Senate last night indefinitely postponed further consideration of the so-called woman's bill of rights. It was predicted by members that the bill will not come up again this session. The bill, introduced by Senator Roberts and said to have the approval of the National Woman's Party, sought to give women of this state "all the rights, privileges and immunity granted by law to men."

"Dry hands"

Are you troubled with that most unpleasant affliction—"dry hands"?

Many men and women cannot use ordinary toilet soaps on account of it.

Many women who do housework use rose-water and glycerine to relieve the excessive dryness—but the relief is only temporary. It really makes matters worse.

A "dry" skin is caused by clogged, lifeless pores. Lifebuoy gently clears these pores of every impurity—and puts life and health into them. Lifebuoy's pure palm and coconut oils smooth and soften.

Do all the housework you please. Do any kind of work with your hands. You will never have "dry hands" as long as you use Lifebuoy.

Lifebuoy's health odor is delightful

LIFEBUOY HEALTH SOAP