

Radio Program Rebroadcast by Hastings Plant

Test Work Is Heard at Points in United States, Canada and Mexico.

Hastings, Neb., Nov. 29.—The Westinghouse experimental radio station in this city established a world record this week when it successfully rebroadcast a program for the first time in the history of radio. By a coincidence the program came from the world's first broadcasting station, KDKA, which was established by H. B. Davis, vice president of the Westinghouse company, at East Pittsburgh four years ago.

The station has been erected in Highland park, in close proximity to the municipal electric plant, from which it gets its electric power. Engineers declare the experiments now being conducted will have a profound effect upon the whole system of radio broadcasting.

A week ago the first inkling of the fact that Hastings was the home of a high powered radio broadcasting outfit filtered through to the outside world when a local program was broadcast and received in all parts of North America. It was not known, however, until a few days ago that the station was anything other than a broadcasting station.

All Points on Continent Reply.
Mr. Davis conceived the idea of rebroadcasting some months ago. He discussed the plan with Frank Conrad, his assistant chief engineer, and as a result an experimental station was started here. Hastings was chosen because of its location near the geographic center of the United States, and because it is removed from mineral deposits and other interference.

Several months were spent in research before the first program was broadcast, and then only a local program was sent out in order to test the station range. The results of the test amazed even the engineers at the station. Nearly 1,300 replies were received from radio fans all over North America. Not only was every state in the union represented, but letters were received from every province in Canada, and even from Mexico. The number of replies and their geographic range is believed to constitute a record for an initial broadcast from any station. The program was heard on crystal receivers at points as far away as central Texas.

It was not till a week after the first broadcast, however, that a successful rebroadcast was made, and this was done without any intimation being given to the radio fans listening in that his was other than an ordinary program. The test was made merely to enable the engineers at the station to gauge the capacity of the station for taking care of this work. Regular programs will be rebroadcast now in a short while as soon as a regular schedule can be arranged with the Westinghouse station at East Pittsburgh, where the programs will originate.

Possibilities Significant.
The full significance of this new radio departure is not fully realized until the possibilities are considered. Rebroadcasting, in radio parlance, means the receiving of a program from one station on a short, or high frequency wave, and its retransmission at another wave length. In this way the second station acts as a power booster, enabling the program to be sent to infinitely greater distances. In the case of station KPFX at Hastings, programs will be sent out from KDKA at East Pittsburgh, on two waves simultaneously, the regular wave length of 325 meters and the high frequency wave of 96 meters. The short wave will be received in Hastings and rebroadcast at 256 meters, the standard wave length of that station. By this means, if another station were situated on the west coast capable of relaying, a program could be sent around the world and received almost simultaneously in the four corners of the globe.

Programs will be broadcast every Monday and Thursday night at 9:15 central time, until rebroadcasting programs are started, when a change may be inaugurated.

The standard wave length of KPFX is 256 meters and the receiving wave length for relay 96 meters. The antenna length is 35 feet. The transmitting set is composed

Woman Urges Need of Younger Statesmen



Dr. M. Carey Thomas

In a recent address Dr. M. Carey Thomas, president emerita of Bryn Mawr college, expressed the opinion that the nation's greatest need is a corps of statesmen under 40 years of age. Men of this age, she asserted, are better equipped to help settle the world's problems.

of three panels, a rectifier panel, modulator panel and oscillator panel. The function of the rectifier panel is to convert the high voltage alternating current received on the antennae to high voltage direct current for the plate circuit. The function of the modulator is to impress the voice frequency on the high voltage direct current before it goes to the oscillator. Finally the oscillator converts the high voltage direct current into radio frequency, in which form it is delivered to the antennae.

Iowa Selected for Public Service Class

Iowa City, Ia., Nov. 29.—The United States public health service of the Treasury department has selected the University of Iowa as one of four universities in the United States to conduct a summer course in public health service during the coming summer. It was announced today by Dr. L. A. Dean, dean of the Iowa Medical college, upon his return from Washington, D. C., where he has been visiting.

The three other schools chosen were Columbia university, University of Michigan and the University of California.

The purpose of the school will be to provide instruction of the various officers of public health departments throughout the country, and to public health nurses and physicians.

Farmers Sue Dyke Owners for Damages

Fremont, Neb., Nov. 29.—Claiming that the erection of the Pebble Creek dyke in Dodge county has caused considerable damage to their farms during the past three years, Theodore Meyers, et al, has brought suit in Dodge county district court against Leander Dahl, et al, for the sum of \$25,000. Much interest is being evidenced in the progress of the trial, now in session.

In 1922 the floods caused damage to 40 acres of hay on the Meyer farm, the owner testified today. In 1923 the flood waters swept several acres of small grain which had been cut, but not threshed, he said. Meyers also alleged considerable damage to his land from floods in the spring of 1923.

Three Waive Hearing in Shooting of Boy

Cedar Rapids, Ia., Nov. 29.—Dr. Sadie Morton and Dr. Alice Morton, chiropractors, were arraigned before Justice J. B. Travis Wednesday on charges of assault with intent to commit murder, by County Attorney W. J. Barnigrover, as a result of the shooting Sunday night of 14-year-old Elsworth Jakubes. The sisters waived to the grand jury, on advice of their attorneys.

The Tonic and Laxative Effect of Laxative Bismuth Tablets will keep the system in a healthy condition and thus prevent the onset of Chills or Influenza. The box bears the signature of E. W. Grove, Inc.—Advertisement.

The Pelham Affair by Louis Tracy

(Continued From Yesterday.)
"They wouldn't pass me for foreign service, sir, but I was driving a car at Western headquarters until Sir Arthur came home, and took me to France. He was over there a good deal in 1918—not regular, but back and forth. I remained there, so I've seen a few shell-bursts, close up, as the say in the movies."
"Then why don't you sport your ribbons? You are entitled to a medal or two I suppose?"
"Yes, sir, but—well, I don't want it mentioned—Lady Pelham didn't like the sight of 'em. Said she wanted to forget the war and everything connected with it."

A sudden activity among railway employees and others on the arrival platform showed that the great train from the north was approaching. Pelham stood where he was. Though he would probably recognize his cousin there was a chance that he might miss him in the crowd of hurrying passengers.

Soon he saw a tall man, dressed in blue serge, with a grey Homburg hat, walking rapidly toward him, and pointing out the car to a porter, carrying two leather bags. For a few seconds he had an opportunity to scrutinize his cousin without the latter being aware of the fact. His first impression was one of surprise. It was difficult, he knew, for any man to know himself as seen by other eyes. Of course, one estimated one's self in a mirror, but that was altogether a different thing from the combined effect of changeable expression, movement, mannerisms, as discernible at a distance. He failed to detect that marked physical resemblance which others seemed to notice at once.

Each was tall and stoney, with the military air and carriage, but even allowing for some facial disfigurement resulting from wounds, he imagined that Sir Arthur Pelham's supposed likeness to himself was of type rather than of family.

He was not given much time to collect his wits, because the other man came on with a quick stride, and, indeed, seemed to recognize him first, if a sharp glance might be termed recognition in the dim light of a somewhat gloomy station.

"Sir Arthur Pelham, I believe," he said, forcing a conventional smile, for he was in no smiling mood.

"Yes," said the baronet, standing stockstill with an almost remarkable sturdiness.

"I am your cousin, Captain Arthur Pelham."

"These monosyllables were slightly disconcerting, but the younger man was there 'on duty,' so did not shirk his task.

"One of the chief officials at Scotland Yard requested me to meet you," he explained. "As it happens, I have a good deal concerning the lamentable death of your mother, and it was thought you might care to hear the story at first-hand while you are driving home."

"I fear I know only too much about it already, Captain Pelham," came the coldly accentuated answer. "Scotland Yard, and you, too, I am sure, mean well, but I would infinitely prefer to be alone."

"Then each of us can gratify his wish. I came here solely to oblige the criminal investigation department."

The eyes of the two clashed. Pelham turned on his heel, and Sir Arthur entered the car. Oddly enough, the man who had been so curtly rebuffed did not feel any sense of irritation. Rather did he yield to an absurd feeling of amusement that he had been able to roll his tongue over those changing words: "Criminal investigation department."

As Pelham walked down the platform, out of the corner of his eye, he saw the car pass. The time was only a couple of minutes after the half hour, so he made straight for a telephone booth. He called up Scotland Yard, and asked for Mr. Somers.

"Hello," said the chief. "That you, captain? By a miracle, I happen to be here."

"I have no miracle to report," said Pelham, yielding to a spasm of anger now that he had to put his experience into words. "I did as you asked me, and met Sir Arthur Pelham. He refused almost to listen to any explanation, and treated me as a bally intruder."

"Did he, now?" commented Somers. "That's odd."

"Not at all. He only maintained a tradition. It was I who figured as an ass, for having gone there."

"Well, well. We have thrown a couple of pleasant engagements your

way. You shouldn't be vexed if another brief fixture turned out badly."

"You fellows certainly are puzzling."

"Meaning Prideaux and me. If Prideaux were here he would tell you not to worry. The incident really makes things easier for you."

"Please explain."

"It's difficult, over the 'phone, owing to your confounded trick of using names. But, putting a hypothetical case, I had a crush on another man's girl I'd sooner biff him in the jaw than shake hands with him."

"I did neither."

"Exactly, but you are free now to do the first. Where are you dining?"

"Nowhere. That is—I've not given any thought to it."

"Unless you are dying of hunger, wait until 8:30, when Prideaux and I will eat at Pucci's. Walk upstairs, and enter the first room on the left. If any waiter intervenes whisper my name in his ear, and he'll grovel."

Pelham could not help laughing.

"The music in your voice hath charms to soothe the savage beast," he said.

"'Beast,' not 'beast.' Prideaux has forced me to be exactive. Anyhow, come and pick your bones at Pucci's. I'll be there in jacket. It's a splendid disguise."

Sir Arthur Pelham reached home at 7 o'clock. He was met by Phyllis and her aunt, and the eyes of both women filled with sympathetic tears at sight of him, though the girl expected to see someone else as well.

She was relieved, yet subtly aware of a twinge of disappointment. "Well, half of woman's life is hope, and one half resignation." Poor Phyllis imagined that Sir Arthur Pelham's supposed likeness to himself was of type rather than of family.

The bereaved son was so affected that he could not speak. Evidently, he was calling on all his resources to conceal his anguish.

"I think I know a good deal of what you have to tell me," he said, speaking with a restraint which showed the struggle going on within. "Is my mother's body in her own room?"

"Yes," said the girl.

"Then I will go to her for a little while. Then I will join you, Phyllis. I suppose I shall have many calls on my time later, but I would like greatly to have a few words with you alone before attending to other claims."

He passed swiftly up the stairs, leaving a strange chill on Phyllis's heart. Not so had she pictured his return. She had seen a prey to wild emotions throughout the day, yet had schooled herself to calmness. The feed husband the compensation of womanly tenderness in this time of sorrow. Had he taken her in his arms and kissed her, even before the waiting servants, she would not have flinched from the embrace. But he was so self-contained, so guarded, that he repelled the waves of pity which welled up in her. She found herself wondering what lay behind this speedy conference rather than yielding herself to the dictates of compassion.

Her aunt, Mrs. Linforth, thought Sir Arthur had taken his loss hardly. She explained the fact that she had been summarily excluded from his confidences.

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"A man who is outwardly unmoved often feels the strain more than one who shows his grief," she said. "But I am glad he is home again. I don't think I could have stood another night of responsibility."

"For what, dear?" inquired Phyllis, who scarcely knew what the other woman was talking about.

"Well, isn't it awful to be left here with only the servants?"

"We are helpless, certainly, but so is Sir Arthur. He cannot bring the dead to life."

"No. It is almost irreverent to put it that way. But a man can decide things. I dare hardly say 'Yes' or 'No' to the simplest question. I couldn't even advise the cook as to what we should have for dinner."

Phyllis, for the first time in her vigorous existence, knew then why some women yield to hysteria.

"When Sir Arthur comes down will you tell him I am in the garden?" she gasped, and hurried out.

In a few minutes the baronet found her there. The larger lawn and ornamental flower-beds were at the rear of the house, where a rock garden constructed out of a disused quarry and a high brick wall covered with fruit trees secluded Cedar Lodge from the neighboring residences.

He led her to a seat, and, contrary to her expectations, began to discuss the tragedy.

"Simmonds tells me that my mother's death was practically instantaneous," she said.

"Well, that is consolation, in its way. Did you see this wretch, Raymond Carret?"

"No. The upper household brought the man's message, and the butler was showing him to Lady Pelham's sitting room when they met on the stairs. The butler believes they recognized each other."

"Why?"

"I don't know. It was merely an impression, I think."

"He is almost certainly mistaken."

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Have the police discovered Carre's real name? They told me he was probably disguised."

"I heard a few facts as to his death from your cousin, Captain Pelham."

"What? Have you met him?"

"Yes. Twice. Once yesterday and again today."

Sir Arthur was an adept in concealing his feelings. The girl could not decide whether he was startled or vexed, but there could be no doubting his keen interest.

"How did that happen?" he inquired, with a guarded note in his voice, as though he wished to defer judgment on a matter which ran counter to his own inclinations.

Phyllis did not spare herself in the recital which followed. Beginning with Peter's account of the fray at the lodge gate, she acknowledged candidly her curiosity as to the series of advertisements in the "Agony Column," which led indirectly to her visit to Pelham's flat. She told everything she knew, including the railway porter's recognition of Sir Arthur's cousin before the latter had even left the P. & O. special at Victoria.

Her hearer did not interrupt. He had that rare faculty of self-mastery which withholds comment on any narrative until it is completed, and can be viewed as a whole.

"I feel rather miserable about my action," concluded Phyllis contritely.

"My only excuse is that I wished to see this soldier-cousin who had come to the house that night in such unusual conditions. Then, as he seemed rather nice, I hoped to be the means of reconciling him and you. I think the wretch believed it would be helpful if you two came together, and worked with a common object, and that is why they suggested he should meet you at King's Cross. Did he do that?"

"Yes. He offered to accompany me here, but I declined."

"Why, may I ask?"

"Because, years ago, his branch of the family made my mother's life miserable. That is all dead and buried long since, but my cousin and I have managed to exist all our lives with-

out coming into contact, and I certainly do not intend to cultivate his acquaintance now."

They sat in silence for fully a minute thereafter. It was Sir Arthur who spoke first. He seemed to have misinterpreted the girl's woe-begone attitude, or, rather, to look at it from only one point of view.

"There is no need for you to worry about what happened after I left London yesterday," he said. "It would have been better, perhaps, if you had kept out of the business altogether, but if the police were inquiring already into those advertisements, and Captain Pelham was brought into the limelight by his own stupid interference, you did no harm at all, as when my mother was killed, you certainly must have let the authorities know my whereabouts. I trusted you entirely in that respect."

"That is why I feel so mean now," she protested.

"Please don't say that. You could not do a mean thing. You were swayed by impulse, and that is not to your discredit. But I count you to act with me and not against me in future. Will you?"

"Of course, I will. How could I possibly do otherwise?"

(Continued in The Morning Bee.)

Dairy Industry Drive.
Broken Bow, Neb., Nov. 29.—Fifty-four Broken Bow merchants today started a dairy industry campaign for Custer county, which will last until December 23. During this period, five fine dairy cows will be given away. The plan is being promoted by the public service.

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