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 sta tion 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 e world's first broadcasting station, KDKA, which was established by H. B. Davis, vice president of the West-inghouse 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 re-broadcasting 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

search 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 lettens 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 Farmers Sue Dyke 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 Meyers, et al, has brought suit in but Pelham was quite certain he 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 retransmis-sion at another wave length. In this



Woman Urges Need of

Dr. M. Carey. Thomas ...

In a recent address Dr. M. Carey Thomas, president emeritus 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 alterating 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 currents into radio frequency, in which form it is delivered to the antennae.

Several months were spent in re- Iowa Selected for Public Service Class stockstill with all suddenness. "I am your cousin, Captain Arthur

Treasury department has selected the University of Iowa as one of four universities in the United States in which to conduct a summer that is task. universities in the United States in which to conduct a summer course in public health service during the he explained. "As it happens, I know coming summer, it was announced today by Dr. L. A. Dean, dean of the towa Medical college, upon his re-turn from Washington, D. C., where he has been visiting. The three other schools chosen

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

California. The purpose of the school will be to provide instruction of the various officers of public health departments the criminal investigation departthroughout the country, and to pubment

The Omaha Bee: Friday, November 30, 1923

The Pelham Affair by Louis Tracy.

ficult, 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 changeful expression, move-ment, mannerisms, as discernible at a distance. Ye he failed to detect that marked physical resemblance which others seemed to notice at once. Each was tail, and sinewy, with the military air and carriage, but, even allowing for some facial disfigure-ment resulting from wounds, he im-agined that Sir Arthur Pelham's sup-

calling on all his resources to conceal his anguish. "I think I know a good deal of what agined that Sir Arthur Pelham's sup-posed likeness to himself was of type rather than of family.

Think I know a good deal of what you have to tell me," he said, speak-ing with a restraint which showed the struggle going on within. "Is my mother's body in her own room?" man came on with a quick stride, and, indeed, seemed to recognise him first, if a sharp glance might be term ed recognition in the dim light of a

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." mewhat gloomy station. Pelham stepped forward at once. "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

He passed swiftly up the stairs, leaving a strange chill on Phyllis's heart. Not so had she pictured his return. She had been a prey to wild emotions throughout the day, yet had schooled herself to offer her prom

schooled herself to offer her prom ised husband the compensation of womanly tenderness in this time of sorrow. Had he taken her in his arms and kissed her, even before the wait-ing servants, she would not have flinched from the embrace. But he was so self-contained, so guarded, that he had repelled the wave of pity which welled up in her. She found herself wondering what lay behind this speedy conference rather than yielding further to the dictates of compassion.

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

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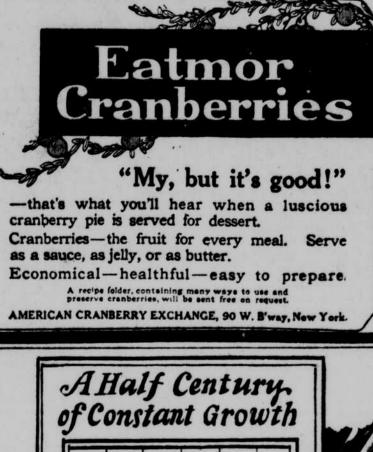
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to the house that night in such un-usual conditions. Then, as he seemed rather nice, I hoped to be the means of reconciling him and you. I think the police believed it would be help-ful if you two came together, and worked with a common object and

"Simmonds tells me that my mother's death was practically instan-taneous," he said. "Yees—the doctor says so." "Well, that is consolation, in its way. Did you see this wretch, Ray-mond Carre?" "No. The upper housemaid 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 recog-nized each other."

"Why?" "I don't know. It was merely an impression, I think." "He is almost certainly mistaken." Why? make my makers ago, his branch of the family made my mother's life mis-erable. That is all dead and buried long since, but my cousin and I have managed to exist all our lives with-



"That is why I feel so mean now Have the police discovered Carre's out coming into contact, and I cer-real name? They told me he was probably disguised."





"I fear I know only too much about





on two waves simultaneously, the 1923. regular wave length of 326 meters and the high frequency wave of 96 meters. The short wave will be received in Hastings and rebroadcast at 286 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 KFKX is 286 meters and the receiving wave length for relay 96 meters. The antennae length is 35 feet. The transmitting set is composed

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frequency wave, and its retransmis-sion at another wave length. In this way the second station acts as a power booster, enabling the program to be sent to infinitely greater dis-tances. In the case of station KFKX at Hastings, programs will be sent in 1922 the floods caused damage to his leged considerable damage to his land from floods in the spring of

Cedar Rapids, Ia., Nov. 29 .- Dr. Sadie Morton and Dr. Alice Morton, chiropractors, were arraigned before JusticeJ J. B. Travis Wednesday on charges of assault with intent to

commit murder, filed by County Attorney W. J. Barngrover, as a result of the shooting Sunday night of 14year-old Elsworth Jakubec. The sisters waived to the grand jury, on advice of their attorneys.

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captain? By a miracle, I happen to Break a Cold Right Up with e Waive Hearing in Shooting of Boy "Pape's Cold Compound" Take two tablets every three hours planation, and treated me as a bally intruder." until three doses are taken. The first

dose always gives relief. The secon "Did he, now?" commented Somers. "That's odd." and third doses completely break up "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 the cold. Pleasant and safe to take. Contains no quinine or oplates. Mil-lions use "Pape's Cold Compound." ouple of pleasant engagements your guarantee it.

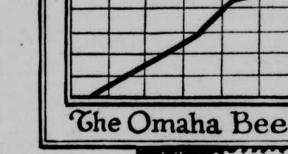
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