

Three Features on Friday Night Radio Program

Hoffmann Quartet, Jas. Classique Dance Band and Girl Violinist to Give Numbers.

The Bee invites its many radio friends throughout the middle west to listen in next Friday night, June 9, 8:15 to 9, when another concert will be broadcast through arrangement made with the Omaha Grain exchange broadcasting station, WAAW.

Three excellent features will be presented. The Hoffmann quartet, through the courtesy of Leo A. Hoffmann, will open the program with three selections: "On the Sea," by Dudley Buck; popular airs, selected, and "Land of Mine." These singers are Emmett Moore, M. J. Flanagan, Phil Helgren and Gus P. Swanson.

Girl Violinist

Following the quartet Miss Gertrude Thiem, daughter of Mr. and Mrs. C. H. Thiem, 351 North Twenty-eighth avenue, will give a violin solo.

The third feature will be the Jas. Classique Dance band, whose personnel are talented students of the University of Nebraska. These instrumentalists are J. L. Barritt, Bob Lee, W. A. McBride, LeRoy T. Baughan and J. Connelly.

Heard in Michigan

The Bee radio concerts are being enjoyed in homes and business places in many towns and cities of Nebraska, Iowa, Illinois, Kansas, Missouri and even as far as South Dakota, Minnesota and Michigan.

A postal card has been received from Leon L. Simkins, who received a Bee concert on his radio set at Martin, Allegan county, Michigan, more than 500 miles from Omaha and about 40 miles north of Kalamazoo.



Radio Telephony Wonder of the Age

Development of Wireless Prizes Practical Use of Talking Through Ether.

By JOHN E. KENNEBECK.

(This is the third installment of The Bee's story of radio.)

Science never stops. Every day we hear of new inventions and developments of some scientific art, and just as the telephone and the automobile were developed for commercial use, so may we look forward to radio becoming one of the world's greatest factors for communication.

Every day the spirit voices of radio are about us. When we sit comfortably at home or walk the streets, the electrons of radio are rushing about us at the rate of 186,000 miles a second.

Waves Carry Voice

We are amazed when we hear of a person in Los Angeles listening to a friend's voice in New York. In reality, the man in Los Angeles does not hear the voice of his friend in New York. The easterner's voice is translated into electrical impulses and these impulses are carried along the wire to the distant receiver, where they become audible.

The two most important parts of the telephone are the receiver and the transmitter. We speak into the transmitter and hold the receiver to the ear. When we speak into a transmitter, the sound waves that our vocal organs set up strike against a thin metal diaphragm, which is set vibrating in sympathy with the voice of the speaker. At a distant station, this vibrator

creating a current, enters the receiver and produces an audible sound by causing another diaphragm to vibrate in unison with the diaphragm of the transmitter.

Voice Modulation.
In radio telephony, instead of sending these voices over a conducting wire, we must send them through the ether. Direct currents must be used to carry the voice without distortion. Continuous electromagnetic waves must be used in radio telephony. Various devices are used in the broadcasting stations, which will be treated in later installments. Among them are the vacuum tubes, alternators, condensers and transformers.

Continuous waves are created in a transmitting set and if we place a telephone transmitter in the proper part of a continuous wave transmitter, we can cause the voice to alter the waves in such a way that it will be reproduced in the telephone receiver of the distant receiving station. We impress the voice upon these waves in much the same manner as we impress it upon the continuous current in a wire telephone circuit. This is called "modulation," and the vacuum tubes are used to increase this modulation.

Receiving from broadcasting stations will be discussed in the radio columns of The Bee tomorrow.

Sparks

Revenue officers, seeking the distillers of the far famed and hard hitting "white lightning" in the mountains of Kentucky have found evidence that the mountain men have radio communication with confederates at near by railroad towns who warn them of approaching danger of raids. This accounts for the code messages that have often been picked up in that vicinity and also for the unsuccessful raids during the past few months. The officers found that when they raided a location where a

still was known to exist the place was deserted.

Radio will pilot the U. S. S. Iowa into battle maneuvers with the Atlantic fleet off the Virginia capes, according to a statement issued by the Navy department. The fleet is on a route from Guantanamo bay. The Iowa will be guided entirely by radio and will be a moving target for the gunners. A transmitting set aboard the controlling ship will control the Iowa by means of an aerial and special apparatus the latter.

Questions

Q. H. T. Fullerton, Neb. Can I use the same "A" battery for both the detector and amplifier?
A. Yes.

Q. R. F. J. Valentine, Neb. Can I use a 2,000 ohm receiver with a 2,000 ohm resistor? How shall I connect them?
A. These resistors can be used together. Receivers, however, should be on the same ohmage. Connect them in series.

Omaha, Radio Editor: What is the record distance that broadcasting has been received with a single tube set? 200-foot aerial, a variometer of the following dimensions: Primary, 2 tube of cardboard with 40 turns of No. 12 wire; the secondary, a croquet ball with the coils divided equally on each half. It turns all together. I have a crystal set; should variometer cut the strength of the signals down to a point lower than if I used a series inductance?
A. Yes. Pittsburgh and Newark, N. J. have been heard here on a single tube set.

1. TPP to 600 meter wave length.
2. Probably not.

Parents' Problems

What course should be followed in the case of a little girl of 9, who is too intense, feeling both pleasures and disappointments too keenly? A child who feels keenly is blessed, but she should have only the simplest pleasures. Such a child is as excited by the anticipation as by the event. Let her live out of doors and sleep as many hours a day as possible. Above all, lead her to take a keen interest in the joys and disappointments of others. If she is impulsive and warm-hearted this will be a safeguard against selfishness, to be which her tendency to be self-centered will inevitably lead.

Ford Club in Each District Plan of Leaders

President of Dearborn Organization Says Leader Now at Hand.

Detroit, June 7.—(By A. P.)—Plans for a nation-wide movement to bring about the candidacy of Henry Ford for president in 1924 were mapped at Dearborn, Mr. Ford's suburban home, at a permanent organization meeting of the Henry Ford Club.

Similar clubs should be formed in each congressional district of the United States, it was decided, in order to perfect a more closely knit organization. This method, it was pointed out, would show Mr. Ford's strength in each district and insure him of the proper congressional support, should his ticket be returned the winner.

The club decided against adopting a platform, preferring to leave Mr. Ford free to work out his own ideas should he consent to enter the presidential race and to set forth for himself the principles upon which he would go before the people.

Rev. Dr. William Dawe, pastor of the Dearborn Methodist Episcopal church, was elected president of the club. In addressing the gathering, he declared Mr. Ford was "the best known citizen of the world today" and was well fitted to head the government and take the lead in launching reforms he declared were necessary.

"Every few centuries," Dr. Dawe said, "a man appears at the time of great crisis and such a crisis confronts the world today. Perhaps Mr. Ford has appeared for just such an hour as this. The country needs to start anew under the sort of leadership of which he is capable. He had many critics, but natural leaders often are called fools and fanatics. Christ was similarly criticized."

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A wondrous selection of the most advanced in millinery. Midseason hats of such charm and beauty as we have never before offered at this pricing.

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Sport Skirts: Khaki Outfits



The growing vogue for fashions in mannish styles is fully expressed in the hundreds of smart garments assembled for the outdoor woman. A fashion to be thankful for. Every garment is designed for free, easy comfort and an amazing amount of style—an obliging combination at prices exceedingly moderate.



Complete Khaki Outfits

Can you think of anything jollier than a summer hike in a real hiking suit—a pair of swagger khaki knickers and a blouse to match? They're just right for picnics, tennis, golf and the many other outdoor sports. Select one now for your vacation outfit at these low prices:

Knickers are priced at \$3.95 to \$5.00.
Khaki shirts priced at \$3.95 to \$5.00.
Khaki skirts priced at \$3.95 to \$5.00.
The complete 5-piece outfit, in khaki, priced \$16.50.

Khaki riding breeches are priced at \$5.00.
Khaki hats are priced at only \$1.75.
And khaki shirts are priced at \$2.75.

Burgess-Nash Suit Shop—Third Floor

Sport Skirts for Summer

Moderately priced at \$10.00 to \$17.50

For a woman, much of the zest of outdoor pleasure comes from the knowledge that her attire is suitable to the occasion. These silk skirts are developed of plaid and striped eponge in daring high colors and of fancy flannels in neutral tones. Most of them are wrap-around models, many of which carry a fringed hemline. All have belts and set-in pockets. \$10.00 to \$17.50.

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Unrivaled in the art of reproduction, for it records all masters perfectly; no instrument more versatile, for it plays all records. The new prices, combined with our convenient terms, bring this master instrument within the reach of all who love music.

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Wallace Records

To reduce by exercise, is both effective and healthful. The Wallace records make exercise a pleasure. Course complete in six lessons.

Burgess-Nash Phonograph Shop—Fifth Floor

Gift Books for the Bride-to-Be

Books are the perfect tribute to a girl friend. A happily chosen volume is a love token imperishable, one that becomes dearly treasured as the years go by.

So let it be a "shower" with books. Come to us for advice. We will gladly suggest authors and titles that make a harmonious group—one that will just thrill her beyond words.

Book Shop—Main Floor

Kiddies Sox

It is none too soon to think of summer socks for the kiddies. They not only look cool, but are cool and are the most satisfying hose that mothers can find. Our assortments in 1/2 and 3/4 socks are most complete in colors to match the summer frocks and rompers. Priced at pair—

35c, or 3 pair \$1.00

Burgess-Nash—Main Floor

Fancy Hose

Smartest styles in fancy white hosiery have just arrived, including a beautiful quality of chiffon and other white hose, cloaked in shades to match the summer sweaters. Priced \$5.00 to \$6.75

Burgess-Nash—Main Floor

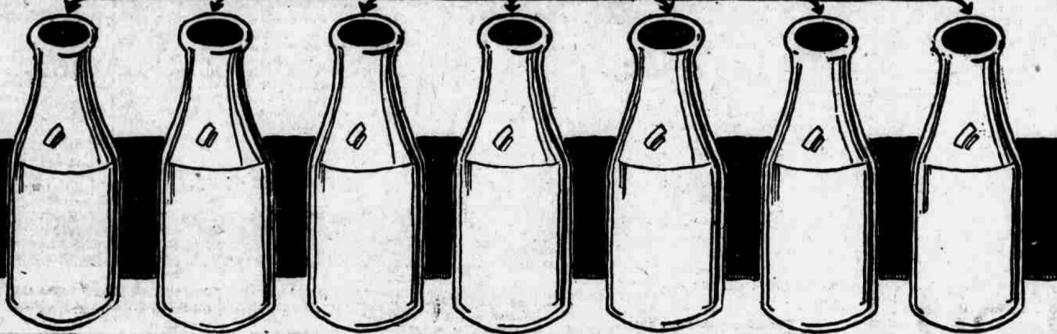
Gauze Vests

Vests cut to give ample fullness and length; in regulation or bodice top. Regular and extra sizes are priced—

35c, or 3 for \$1.00

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The PROOF of the PUDDING

Service, quality and dependability, not theory and argument, are the requirements of the public from any product. That is a fact which we learned long ago. And that is the basis upon which our Omaha business is being built.

In the city of Lincoln more bottles of Roberts milk and cream are delivered daily than are copies of the most widely read Lincoln newspaper, and there are more Roberts customers there than there are users of gas. And in Sioux City, where we began business just

four years ago, we deliver approximately as many bottles of Roberts milk and cream as there are homes in that city.

Why do these conditions exist? Because we have thoroughly met the requirements of service, quality and dependability at prices just as pleasing as are the products.

We have just become established in Omaha. And every feature of Roberts service, proven so satisfactory to our Lincoln and Sioux City customers, is available to you.

You can buy Roberts milk and creams from your grocer or our wagons will deliver direct to your home.

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