

Radio Pictures Will Be Development Near Future

Photographs by Telegraph an Accomplished Fact and Already Pictures of Notables Have Been "Telephoned" from City of Cleveland to New York City

By ROBERT T. SMALL
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New York, May 29—Having "telephoned" pictures of President Coolidge and others from Cleveland to New York, electrical engineers are agreed today that pictures by radio will be a development of the very near future.

It is now an established principle that whatever can be accomplished in the way of wire transmission can also be achieved by using the ether as the means of communication.

Wires for the moment are under better control and must be relied upon to a good extent. Almost daily strides, however, are being made in the conquest of the air and there no longer is any mere theory as to what the ether may be made to do. The question today simply is one of constructing the elaborate instruments necessary to transmit and receive the various electrical impulses through space.

The sending of photographs and news pictures by wire requires a delicate graduation of electrical impulses. This selectivity, or refinement of electrical processes, is not as possible with the ether, for the matter of interference in the air has yet to be worked out. Copper wires give complete control; the air is as yet an unruly creature. It can be tamed, however, and the matter of doing away with interference can become an accomplished fact as soon as more is learned of the manufacture of instruments of greater selectivity. The possibilities of the ether are as limitless as the air itself. Man simply has to learn to harness the wild forces which are loose.

Static, the terror of many a radio receiver, remains to be conquered, and until it is, the delicate process of picture sending must remain within the realm of copper wires, where this "howling in the wilderness" has no part.

The process of telephoning pictures is to the layman a very simple one. The visible part of the operation is easily understood. But the invisible part is as strange to the unscientific onlooker as the mysteries of radio itself. Many a radio fan knows that if he turns certain knobs to certain points he will bring into his home music and speeches, but just why or how this seeming miracle is accomplished nine-tenths of the radio users of America never will know and never will understand.

Pictures sent by wire are traced upon a photographic film mounted upon a cylinder. The tracing is done by a pencil of brilliant light. The completed photograph is a series of fine lines made by this light. The shadings of the lines which trace the picture are accomplished by varying the intensity of the light. When it glows at its brightest it cuts its way through the film so that the lines when developed are intense black.

When some of the illuminative power is shut off the lines are gray. When the lights glow but faintly no impression is made upon the film and thus the white spaces in the completed picture are accounted for.

In watching the recording machine at work the analogy which comes to the layman's mind is that of the dictaphone machine where a person dictating through a tube records his words on a revolving wax cylinder which moves along a fraction of an inch with every revolution.

The photographic negative, mounted on a small cylinder, is carried along in precisely the same manner and the pencil of light traces its varying lines. The covering of a five by seven inch negative with these lines requires about five minutes.

At the sending end of the line the process is somewhat reversed. There the positive film also is mounted on a cylinder and a pencil of light at the receiving end of the line. The processes involved in this transmission are somewhat akin to radio in that vacuum tubes and other wireless instruments are employed.

While the actual operation of the picture sending and receiving devices seems a simple thing, back of its accomplishment lie years upon years of research and scientific work. The instruments, built by the American Telephone and Telegraph Company, are the work of scores of engineers who have given their time and their brains to the task. The process is not a great "discovery." It has been merely the tedious application of well known principles.

No particular thought has been given as yet to the commercial possibilities of picture sending by wire. For several years at least it will be a novelty rather than a utility.

METHODISTS VOTE NOT TO CHANGE DIVORCE LAW
Springfield, Mass., May 29.—The proposal for a drastic change in the divorce law of the Methodist Episcopal church was defeated by ten votes at the closing session of the General Conference here today.

"Miss Samson"



Her badly singed hair won pretty Constance Evans, 16, \$200 in a New York court. She brought suit against a beauty parlor for \$1000 when her former beautiful tresses were damaged. Above Miss Evans with her singed locks and, below, as she appears with a wig she is wearing while her locks recover.

Mrs. R. G. Williams, North Road street, who has been ill with a cold, is better now and able to be out again.

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OLD RICHMOND BAND WILL BE AT WAKE FOREST

Wake Forest, May 29—Announcement was made this morning that the Richmond Band has been secured for the Wake Forest College Commencement next week. The commencement begins Wednesday, June 4 and continues through Friday, June 6. The Richmond Band is a direct descendant of the famous old Richmond bands that used to make the merry notes at Wake Forest commencements 25 years ago.

"Every Wake Forest man of those days recalls that band, and I know that they will be delighted to find them back here on June 5 this year," said alumni secretary McMillan this morning.

Thursday is to be given over to alumni activities. Important business to be discussed is the proposed memorial library for Dr. Charles E. Taylor, one of the most famous of Wake Forest presidents, and consideration of the launching of the Centennial Celebration being launched for the College. A study of the present needs and future developments which must come if the college is to keep pace with the general educational development in the State has been made by the faculty committee and will be transmitted to the Board of Trustees by President Poteat.

The job of preparing a barbecue

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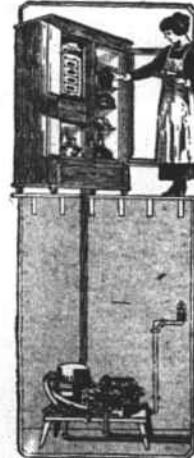
If it is, let us grease it for you and change your oil in the motor.

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and Brunswick stew for the hundreds of alumni and friends of the college expected on June 5 has been given to J. W. Phillips of Forestville. Wake county alumni of Wake Forest claim that Phillips is the barbecue cooker than whom there is none other. Other counties put forward their man, but Phillips won the election in a hot fight.

D. Pender and C. H. Moore of Norfolk were in the city Wednesday inspecting the local Pender stores.

To Service—The Albe-marle Pharmacy, Southern Hotel Building, adds—quality.



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