

BARE CABLE WIRE MAY CARRY VOICE

Expensive Insulation Unnecessary in New Principle to Be Told by Gen. Squier

MAY REPLACE OLD SYSTEMS

Washington, April 27.—A development which may revolutionize the present system of world cable communication is to be announced here this afternoon at the annual meeting of the National Academy of Sciences by Major General George O. Squier, chief signal officer of the United States army. The announcement is that bare wires, laid in the sea to replace the highly expensive and extremely delicate submarine cables now required, may be used for the transmission of messages, both by telephone and telegraph. The use of bare wire in this manner is said to represent an entirely new principle in the science of communication, and opens a way for a tremendous development which would make simple a telephone conversation between the United States and Europe, or even China.

Now "Wired Wireless"

It is a new application of what is known as "wired wireless," being the transmission of a radio current between two or more points, with the wire used merely as a guide. This means of communication, in which the message is not sent through the wire, but alongside of it, was developed several years ago by General Squier and already has been placed in commercial use in the United States and in other countries.

As many as forty different and distinct messages have been sent in this manner with a single wire as a guide. The advantage of "wired wireless" as in its multiple possibilities and its secrecy, which is not possible in the ordinary use of radio, where the message is scattered in the four winds.

Can Be Used Underground

Of secondary importance in the announcement is the further fact that it is possible to use the bare wire for the same purpose when buried in the earth, going away with telegraph poles. The wire simply is placed in a furrow and covered over. The heavy insulation now required for buried wires is not necessary.

The ability to use bare wires for such communications, both in the sea and buried in the earth, comes through the use of vacuum tube amplifiers. There is not grounding of the wires as ordinarily is the case. An open circuit is used.

That the news of the development will have great interest, commercially and otherwise, in the electrical world goes without saying. It will open up, electric engineers believe, a wide discussion as to its adaptability to the communication systems of the world, which those who have been familiar with it say is self-evident.

PHILA. STRIKERS DENIED HEARING
Railroad Labor Board Bars Quaker City and Pittsburgh Wage Demands

Washington, April 27.—The railroad labor board today refused hearings on the wage demands of striking railroad employees at Philadelphia and Pittsburgh and the non-recognized Chicago express and freight handlers' union.

Short line railroads may be given a hearing on the wage demands of railroad workers before the board finally adjusts the pay controversy, Chairman Barton announced today that the board has this matter under advisement.

E. T. Whiter, chairman of the railroad executives' committee, told the board that his committee represented 115 of the some 600 roads of the country and that these 115 had between 80 and 90 per cent of the total mileage.

Timothy Shea, vice president of the Brotherhood of Locomotive Firemen, told the board that the employees' wage demands would be presented to the short lines by tomorrow.

Shea continued today the representation of the firemen's demands. He asked the board to grant relief to the men on duty on the larger engines either by requiring the installation of

automatic firing machine or placing an additional fireman on duty. Firemen at present, he said, are compelled to perform labor much greater than the capacity of an ordinary man.

Chicago, April 27.—Spread of the unauthorized railway strike to road crews in the Youngstown district was threatened today when road freight crews on the Erie Railroad refused to answer calls. Heretofore only yard crews have been on strike, the road crews continuing to move through freight.

The ultimatum of the railroads giving striking switchmen at Detroit and

upstate until 6 o'clock tonight to return to work met with no response from the men early this forenoon, according to the rail officials. The edict of the railroads informed the men that failure to return by the time fixed would mean the loss of seniority rights and that the roads would proceed to fill their places with other men.

Claims of railroad officials that 90 per cent of the normal freight traffic was being moved in the Chicago district were disputed today by manufacturers.

New Jersey shore of the Hudson also issued optimistic reports. Many strikers had returned to Jersey yards, officials said.

normal of the period before the strike of insurgent railroad employees began.

New York, April 27.—(By A. P.)—For the first time since the railroad strike began the Erie Railroad today announced that its passenger service was 100 per cent normal. Freight movements also were reported improved, with the through freight 60 per cent normal.

Other railroads terminating on the New Jersey shore of the Hudson also issued optimistic reports. Many strikers had returned to Jersey yards, officials said.

Journal Also Announces Advance in Advertising Rates

New York, April 27.—(By A. P.)—The New York Journal, an evening newspaper controlled by William Randolph Hearst, announced today that, beginning tomorrow, it would advance its price from two to three cents, increased cost of materials, machinery and labor and increased profits for new advance were assigned as reasons for the advance. Advertising rates also are increased.

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OHIO WALKOUT MENACES

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At \$1.35 yard White Habutai, 36 inches wide; reduced from \$2.00 a yard for this sale.

At \$1.85 yard Closely-woven Japanese Pongee, natural shade, 33-inch; \$2.25 value.

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N. Y. PAPER PUTS PRICE UP
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FUR COATEES	FUR STOLES
Kit Coney \$165.00 \$79.50 Aust. Seal 165.00 98.50 Taupes Nutria 175.00 110.00 Hudson Seal 225.00 145.00 Moleskin 350.00 245.00 Beaver 350.00 245.00	Kit Coney \$65.00 \$34.50 Aust. Seal 69.50 49.50 Hudson Seal 125.00 94.50 Jap Mink 110.00 85.50 Nat. Squirrel 165.00 110.00 Kolinsky 195.00 145.00
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