OPENING THE WINDOWS OF THE WORLD

Another Advance in Transatlantic Telephony By R. T. Barrett.

ting on the next speaker, we're go- when on duty. In talking to London, ing to open the windows and see if the speaker entered a sound-proof you can hear the chimes of St. booth similar to those of a public

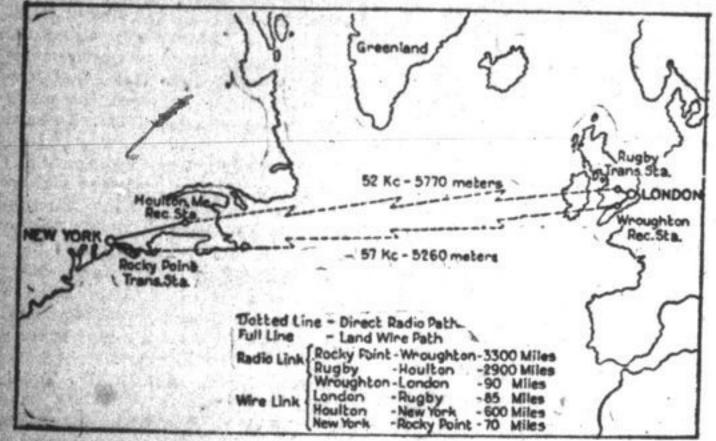
newspapermen who were gathered in transmitter in appearance. a room on the second floor of 24 mouthpiece and transmitter case Walker street, New York, on the were, however, somewhat larger morning of March 7, 1926, glanced than those of the familiar desk set, at the clock. It was almost eleven. this being a special "high-quality" Since half-past eight they had been transmitter. The receiver was of the witnessing and taking part in the standard type. first public test of two-way transatlantic telephony between the United other, equipped with what was to all States and England.

clock ficked off the seconds and its sat an engineer of the American Telminute hand crept around the dial. ephone Company, who kept in con-Exactly on the hour there came to stant touch with an engineer of the the ears of the listening Americans British Post Office, working on a the silver peal of a belf rung nearly similar extension on the London four thousand miles away then end of the circuit. These two men another and another until four had introduced the speakers and, jointly, been sounded. It was eleven o'clock acted as masters of ceremonies. in the morning in America, four o'-

"Stand by New York. Before put- similar to those used by operators pay-station and spoke into a trans-Involuntarily the forty or so mitter very much like the ordinary

Near the speaker's booth was anintents and purposes an extension There was a silence as a wall telephone of the same type, at which

Each pair of speakers was allowclock in the afternoon in England. ed two minutes of conversation. For Somebody had opened a window in the most part these chats were car-London, and St. Paul's had been ried on between representatives of brought within earshot of Walker New York newspapers and their confreres of the journalistic world in Somebody had opened other win- London. On account of the differdowns, to make this miracle pos-lence in time, the English journalists



The Route of the Transatlantic Conversations.

shutters of silence which had hith- of the test, while the Americans erto isolated one hemisphere from were somewhat slow in arriving. On another, making reciprocal commu- the American end, accordingly, telenication by the spoken word impos- phone engineers and others "got on sible. Telephone engineers, schooled the line" in order to carry out the by long experience to guard against schedule as nearly as possible as arover-enthusiasm, told newspaper- ranged. men in a rather matter of fact way that this was merely one of a series of tests, required for the further development of transoceanic tele- pronunciation added interest to the phony. But to more than one of the conversations from the standpoint layman present, it seemed as if of the listeners in. Americans insomeone had, in deed, thrown wide variably began their conversations

lated, but would have speculated in used the equally typical "Are you vain, as to whose hand had swept there?" To the valedictory "Goodaside these barriers to the spoken bye" of the New Yorkers the Lonword. The test itself was carried on | doners were more likely than not to through the joint co-operation of the answer "Cheerio!" American Telephone and Telegraph A number of the leading papers Company, the Radio Corporation of in Scotland were represented by a America and the British General journalist who had brought with Post Office. Scores of engineers on him his Harry Lauder accent. To both sides of the Atlantic had play- the credit of the transmission qualed some part in bringing about the ities of the wire and radio circuit success of the experiment. In a lar- it should be recorded that the charger sense, however, its success was acteristic pronunciation of these made possible by the thousands of Scots came though with its delightmen and women who, throughout fulness unimpaired. fifty years, have contributed to the development of the Art of Communications in general and to the telephone in particular. In this epoch- speech is carried from New York making event telephone workers ev- over land lines to the transmitting erywhere may rightly feel a parti- station of the Radio Corporation of cularly keen interest, for it marks a America at Rocky Point, Long Isforward step in the development of land, a distance of some seventy an art to which they, themselves, miles. From this point it is transare daily contributing.

A Significant Coincidence. this first public demonstration of Office carry the speech current over two-way telephony across the Atlan- this lap of the journey to the Lontic took place exactly fifty years, to don headquarters. a day, after the granting, on March In transmitting westward, the 7, 1876, of the first telephone pat- spech is carried over seventy miles

of this government document, cover- up by the newly-built radio transing the patent rights on an instru- mitting station of the British postal ment which had not even then been service, which transmits it through made to transmit a complete sen- the other to a receiving station a tence, to the maintaining of contin- Houlton, Maine. This radio link i nous contact for a period of many 2,900 miles in length, From Houlhours between two telephone instra- ton to New York, the speech is carments separated by four thousand ried over 600 miles of telephon miles of ocean.

The room in which the new New and Telegraph Company and its As-York end of the test was held was siciated Companies.

sible. Somebody had flung back the were all on hand at the beginning

Differences in Speech.

Differences of phraseology and with the typically Yankee "Hello," A philosopher might have specu- while now and then some Londoner

How the Circuit Ran.

In transmitting eastward, the mitted by radio a distance of 3,300 miles to a receiving station of the British General Post Office at The importance of the test as an Wroughton, England, about seventy event in telephone history was given miles southeast of London. The double emphasis by the fact that land-line circuits of the British Post

It is a far cry from the issuing west of London, and there picked circuits of the American Telephone



INTERIOR OF RADIO RECEIVING STATION. Hight-Radio receiving unit. Left-Telephone testboard and amplifier bilities of giving regular transatianfor wire circuit to New York.

ent to Alexander Graham Bell. | of telephone lines to Rugby, northequipped with some fifty headsets! The radio transmission from

system employed in these tests, an vening space. This system was described in many tion can be had.

gun three years ago and is being favorable conditions. carried out to determine the possitic telephone service. It is simply

Rocky Point is on a wave length of a phase of the study of the problem | transmission, of which those brief-,260 meters, and the transmission of overcoming the great difficulty in ly outlined above are only two, there from Rugby is on a wave length of long distance radio telephone trans- are others which may be described 770 meters. The power used in mission—the extreme variations in as practical operating problems, transmitting from each end is about received signals due to continuously such as linking the radio with the 100 kilowatts. Due to a special changing conditions in the inter- regular wire telephone systems of

system; commonly used for radio so good that even comparatively low quality of transoceanic service.

fation is so great that a given recep- in bringing them about. tion may require, under poor condi-The present series of tests is a tions, 10,000 times as much trans-

> Linking in the Land Lines. In addition to problems of radio practice at Fort Crook. Neb.

both England and America in such output to the transmitting antenna At times, transmission conditions a way as not to introduce undesirof 100 kilowatts is as efficient as in America, in England and through- able noises, weak reception or other 300 kilowatts would be under the out the area that separates them are factors which would impair the

telephone purposes. One of the fea- power broadcasting stations in one In their statements to the press, tures of this system is the suppres- country can be picked up by radio telephone officials of both countries sion of all waves except those ac- listeners in the other. At other times | have made it clear that it is not tually transmitting the message, conditions are so poor that no recep- possible to predict how soon transoceanic telephone service can be of The Bell System magazines in an The longer wave lengths and the made available. It is perfectly obarticle on the one-way transatlantic high effectiveness of the transmitt- vious that much intensive work retelephony test of January 14, 1923, ing stations used in the present mains to be done before an Ameriwhen officials of the American Tele- tests have provided a stability and can telephone subscriber can take phone and Telegraph Company talk- dependability of transmission that his receiver off its hook and call up ed for a period of over two hours to affords communication across the a friend in London, or vice versa. Atlantic for extended periods of the This work is under way-the test That and other articles have also day. During certain hours, however, on March 7, 1926, was a part of itdescribed in some detail the high- it is impossible to maintain satis- and will continue. The results thus power, water-cooled vacuum tubes factory communication, this being far accomplished are encouraging to which play an important part in de-| particularly true of the hours of the those who are directly concerned veloping the energy output requir- sunset period, especially at the ra- in them, and are such that all memed for transoceanic radio transmis- dio receiving station. Transmission bers of The Bell System "family" sion, and it is hardly necessary at is also much more difficult in sum- may take pardonable pride in the this time to refer to them or to mer than in winter, because of part which the scientists and enginother details of the radio apparatus. greater static interference. The var- eers of this organization have played

There is five feet of snow at continuation of the experiments be- mitted power as is required under Timmins. It fell on Thursday and have been oldest active tailor in was engulfed by the flow of lava

WINE TRANSPORTATION IN PARIS

In gay Paree, where wine is red and bootleggers are respectable merchants, they transport it by the Standard Oil system-in tank cars.

U. S., is dead in Cincinnati. Capt. Frank Foley died from bul- New pocket pencil that will write let wound received during target in any one of five colors has been anvented at Washington.

John H. Conroy, sr., 94, said to The village of Hoopuloa, Hawaii, from Mauna Los volcano. Mrs. Raymond Adams, of Glouceser. N.J., found \$80 diamond in giz sard of chicken.

The mal ANNOUNCEMENT

The welfare of over 100,000 Canadian employees and their dependents in our own and allied industries, together with our tremendous investment in plants, equipment and organization, representing \$31,000,000, allows of no alternative but to continue operations in spite of recent tariff reductions on motor cars.

For the present at least we have no option but to meet the competition of imported automobiles. In consequence, we announce the following price reductions retroactive to April 16th. We also declare our intention to continue operation as usual until such time as costs of manufacture under the new tariff can be ascertained. In so doing there will be no compromise on our part either as regards our employees' interests or the traditional high quality of our product.

	Old Price	New Price
Touring*	\$440	\$415
Runabout*	410	395
Sport Roadster	625	595
Coupe	665	625
Tudor	695	650
Fordor	755	710
Light Delivery*	435	415
Chassis*	325	295
Truck*	485	445

* Equipped with starter, \$80 extra. All prices at Ford, Ont. Freight and Government taxes extra.

FORD MOTOR COMPANY OF CANADA, LTD. FORD, ONTARIO

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