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OCTOBER 9, 1948

SCIENCE NEWS LETTER



®

THE WEEKLY SUMMARY OF CURRENT SCIENCE



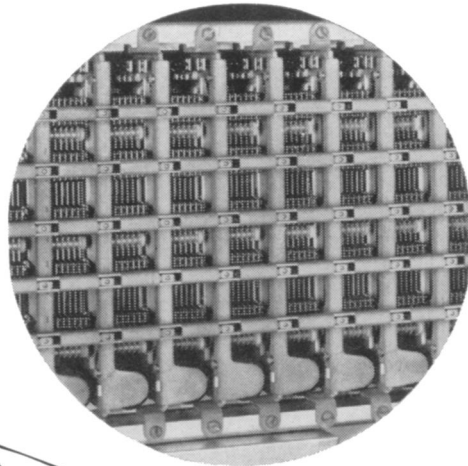
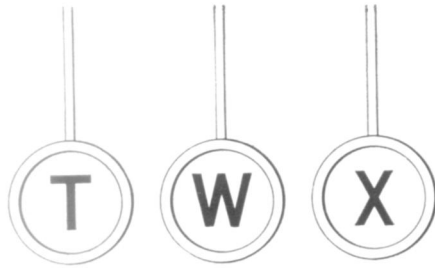
Where Icebergs Are Born

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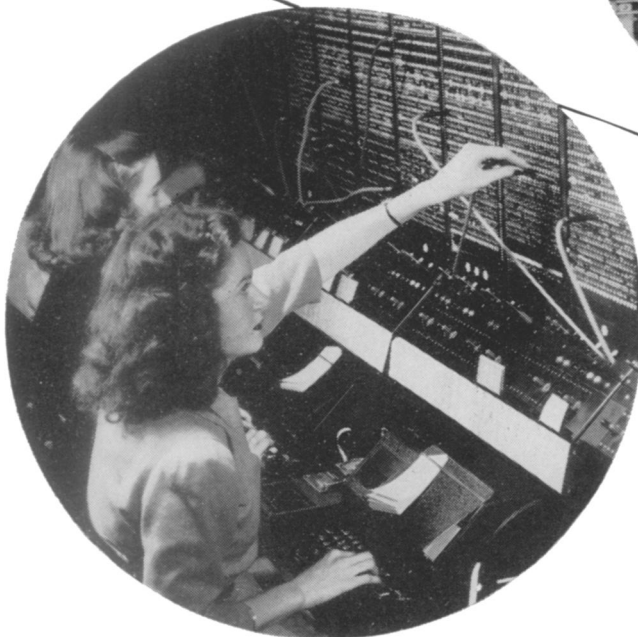
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*Switches in small offices
do a distant operator's
bidding.*



IT TALKS WITH FINGERS

For those who want to talk, Bell Laboratories scientists developed the telephone. For those who prefer the typewritten message, they developed TWX—Teletypewriter Exchange Service.

Fingers on a keyboard send your message to be typed by one or scores of other teletypewriters selected at your request from the 21,000 instruments connected to the Bell System's nationwide TWX network.

As in telephone service, your TWX con-

nection is set up through switching systems, manual or mechanical, as best may serve. And over long distances your message travels economically with many others on the same pair of wires. All these technics are products of Bell Telephone Laboratories research in the telephone art.

TWX is today a vital link in the nation's chain of communication. And year by year it benefits from the steady growth of the telephone system which carries it.



BELL TELEPHONE LABORATORIES

Exploring and Inventing. Devising and Perfecting for Continued Improvements and Economies in Telephone Service.



Electron microscope, perfected at RCA Laboratories, reveals hitherto hidden facts about the structure of bacteria.

Bacteria bigger than a Terrier

Once scientists, exploring the invisible, worked relatively "blind." Few microscopes magnified more than 1500 diameters. Many bacteria, and almost all viruses, remained invisible.

Then RCA scientists opened new windows into a hidden world—with the first commercially practical electron microscope. In the laboratory this instrument has reached magnifications of 200,000 diameters and over. 100,000 is commonplace . . .

To understand such figures, pic-

ture this: A man magnified 200,000 times could lie with his head in Washington, D. C., and his feet in New York. . . A hair similarly magnified would appear as large as the Washington monument.

Scientists not only see bacteria, but also viruses—and have even photographed a molecule! Specialists in other fields—such as industry, mining, agriculture, forestry—have learned unsuspected truths about natural resources.

Development of the electron

microscope as a practical tool of science, medicine, and industry is another example of RCA research at work. This leadership is part of all instruments bearing the names RCA, and RCA Victor.

. . .

When in Radio City, New York, you are cordially invited to see the radio, television and electronic wonders at RCA Exhibition Hall, 36 West 49th Street. Free admission. Radio Corporation of America, RCA Building, Radio City, New York 20.



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