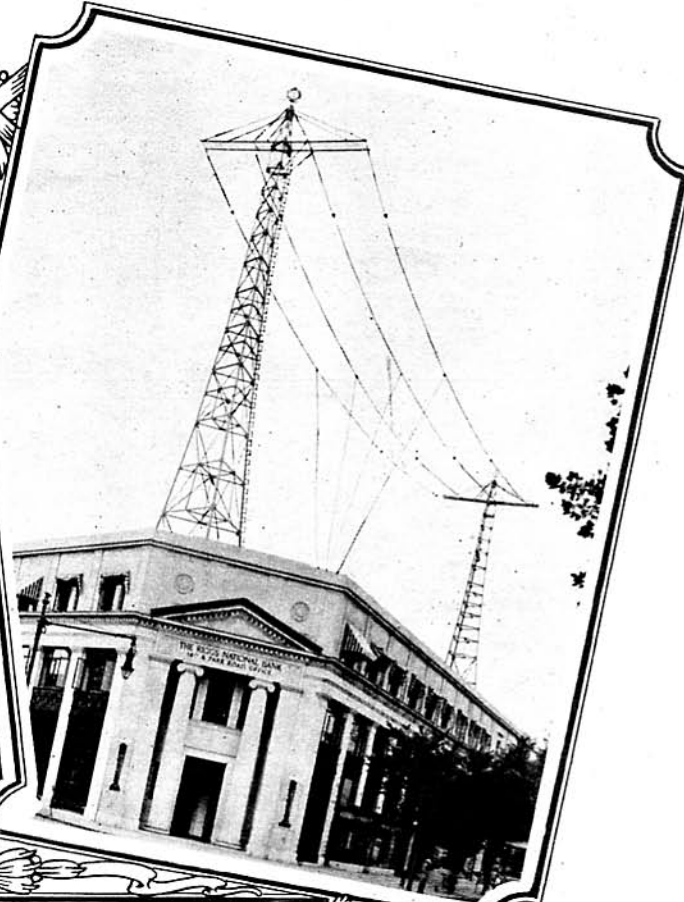


Broadcasting Station, WRC, Washington D. C.



An Interior View of Station WRC, Showing the Receiving Set and Control System on the Table and the Transmitter Panels in the Background.

WRC, a New Broadcasting Station of the Radio Corporation of America, Was Opened Recently. It is Practically a Duplicate of Station WJZ at New York City. The Large Steel Towers Are Atop the Riggs Bank Building.

LOCATED in the Mount Pleasant District, one of the highest points in Washington, D. C., where the antenna wires are suspended 150' above the street level, a giant broadcasting station WRC, located at the New Riggs Bank Building, 14th Street and Park Road, was opened recently by the Radio Corporation of America, the company which owns and will operate the station.

The operating table is in front of the transmitters and on it is a small box

through which the operators may throw in either of the powerful transmitters and listen to the outgoing program at various stages of its progress. On this table also, is a microphone that the operator on duty may cut-in and talk to the "unseen audience" himself, should this be necessary at any time. By means of an inter-communicating phone he may talk to office, studio and reception room or may be called by them. Because the law requires that a transmitting station must

constantly listen in for distress signals from ships, a highly efficient receiver is provided.

The motor-generators are housed in an adjoining sound-proof room, so their low hum may not disturb either artists or operators. Two machines are provided, one for each transmitter. Each of these powerful units consists of a single motor driving two generators, one of which supplies 2,000 volts for the oscillator and

(Continued on page 918)



Radio Officer N. C. Kumler, graduate of the Radio Institute of America, awarded a gold medal by the city of Los Angeles, and \$500 by the Radio Corporation of America for heroic services at the sinking of the S.S. Honolulu.



Wanted— Trained RADIO Men

The story of radio rescue when the Honolulu sank is but one of hundreds in the lives of far-traveling radio operators. It has always been a life of fascination—and today offers a big future.

Over 6,000 operators have already graduated from our school. And many more trained men are needed. Study at home in your spare time.

You may know nothing of radio today. But in a few months study, you can earn your U. S. Government operator's license.

The Radio Corporation of America, which places more operators than any other organization in the world, prefers our graduates, for their thorough training. Many among them have become the biggest men in radio today.

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Broadcasting Station, WRC Washington, D. C.

(Continued from page 881)

modulator tubes and 1,000 volts for the amplifier tubes, while the other furnishes the 125 volts used to operate the automatic relays and the 88 volts which heat the filaments of the large vacuum tubes.

A unique feature of this station, and one which further assures perfect transmission of programs, is a device known as the oscillograph, by which the operators have before them "a working picture of the voice." The delicate instrument may be switched into any one of the many circuits and shows, by means of an undulating, ever-varying beam of light, exactly how the artist's voice or music is affecting the electrical and radio currents. By watching this little tell-tale beam, as reflected from revolving mirrors, one knows instantly whether the sound waves are too weak, too great in volume or blurred.

Book Review

DER RADIO-AMATEUR "BROADCASTING," By Dr. Eugene Nesper. 6½" x 9½", cloth cover, 368 pages, fully illustrated. Published by Julius Springer, Berlin.

If one but looks at the nine pages of fine type devoted to the contents table of this book, one will see that this very eminent author has covered a large field with wonderful detail and minuteness. There are 15 sections, devoted to all phases of broadcasting, and addressed to the amateur. But of course, the amateur of today, especially in the United States making his own apparatus in many cases, has to be handled with care and precision, and no indifferent work will do for him. This book cannot possibly be reviewed within the limits of our space. It is enough to say that it is liberally illustrated with reproductions of photographs of apparatus and parts thereof of all descriptions and with any number of diagrams of hook-ups. The diagrams, like the text, are of the clearest style and reproduction. Without any exaggeration, we may say that the illustrations and diagrams alone are such as to make it really interesting to one not knowing the language of the text. It is rather interesting to see how the author starts off in his first sentence. He says that the first American amateur movement in radio, so called broadcasting, started in the spring of 1921 and the author seems certainly to have an appreciation of all that America has done. The very first picture in the book is a reproduction which appeared originally in "Judge" and then was reproduced in the September, 1922, issue of RADIO NEWS, entitled "In Tune with the Infinite."

We certainly recommend this book to our readers, for with its many circuits and details and sections of parts and apparatus as well as the photographs already alluded to, it tells a very complete story of the art. Among the illustrations, as we happen to turn over the leaves, we find one of the prints refers to Sleeper, a well known American authority. A very interesting list of radio books and publications in English, Dutch and German literature is given, which, however, might be very much enlarged. The book ends with an adequate index of subjects. The subdivisions of subjects and the sectional index so common in German books Dr. Eugene Nesper has not adopted. The single index is more to the taste of the American and English reader.

THE OUTLINE OF RADIO. By John V. L. Hogan. Published by Little, Brown & Co., Boston, Mass. 5" x 7½", cloth cover, 256 pages, fully illustrated.

It is usually said of the radio engineer, or in fact of anyone whose knowledge of radio runs into the highly technical phases, that he is a poor subject for either writing or attempting to explain even the most simple operations of a radio set, since it is impossible for him to come down to the same plane of conception as the novice. If this be true as a rule, Mr. Hogan is an exception. In his book "The Outline of Radio," he not only completely covers the subject of radio, but shows an extraordinary knack in making his material comprehensive to the mere layman. Further than this, Mr. Hogan has introduced a bit of originality in his writing, so as to make his book of unusual interest. He says "Imagine that you are spending a week-end at my home, that



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7 x 18 in.	10 in.	3.50
9 x 14 in.	10 in.	3.50
12 x 14 in.	10 in.	4.00

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