

ing description of the plans for the new Northwestern Technological Institute. The section had two outside speakers: W. S. James, chief engineer of the Studebaker Corporation, and T. A. Boyd, director of development for General Motors Corporation. Mr. James pointed out that in industry the demand is for engineers well grounded in the fundamentals (physics, chemistry and mathematics) which should be taught throughout the entire undergraduate course in terms of their application to all types of engineering. Drawing upon his broad industrial experience for illustrations, Mr. Boyd emphasized the importance, regardless of the type of engineering studied, of pursuing the research method in all subjects.

The following officers of the section were elected for 1940-41: *Chairman*, W. A. Knapp, assistant dean of engineering, Purdue University; *Secretary*, George A. Maney, Northwestern University; *Members of the Executive Committee*, J. G. Potter, Armour Institute of Technology; L. F. Stauder, University of Notre Dame; P. G. Andres, Lewis Institute; H. A. Moench, Rose Polytechnic Institute, and F. L. Ehasz, University of Illinois.

OFFICERS OF THE AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

DR. R. W. SORENSEN, professor of electrical engineering and head of the department of electrical engineering at the California Institute of Technology, was elected president of the American Institute of Electrical Engineers for the year beginning August 1, as announced at the annual meeting held in Swampscott, Mass., during the summer convention of the institute. The other officers elected were: *Vice-presidents*, Everett S. Lee, Schenectady, N. Y.; J. W. Barker, New York; K. L. Hansen, Milwaukee; J. L. Hamilton, St. Louis; A. LeRoy Taylor, Salt Lake City; *Directors*, T. F. Barton, New York; M. S. Coover, Ames; R. G. Warner, New Haven; *National Treasurer*, W. I. Slichter, New York (reelected).

These officers together with the following hold-over officers will constitute the Board of Directors for the next administrative year beginning on August 1: F. Malcolm Farmer (retiring president), New York; C. R. Beardsley, New York; V. Bush, Washington, D. C.; M. Eldredge, Memphis; R. E. Hellmund, East Pittsburgh; H. W. Hitchcock, Los Angeles; F. H. Lane, Chicago; L. R. Mapes, Chicago; F. R. Maxwell, Jr., University, Ala.; F. J. Meyer, Oklahoma City; H. S. Osborne, New York; John C. Parker, New York; D. C. Prince, Schenectady; C. T. Sinclair, Pittsburgh; J. M. Thomson, Toronto; A. L. Turner, Omaha.

The annual report of the Board of Directors, presented at the meeting, showed a total membership on April 30 of 17,213. In addition to two national con-

ventions and three district meetings, 2,047 meetings were held during the year by the local organizations of the institute in the principal cities and educational institutions in the United States, Canada and Mexico.

H. H. HENLINE,
National Secretary

RECENT DEATHS

DR. RALPH MODJESKI, civil engineer of New York City, known especially for his work as designer and consultant in bridge construction, died on June 26 at the age of seventy-nine years.

DR. FERREN L. PICKETT, since 1930 dean of the Graduate School and for twenty-three years head of the department of botany at Washington State College, died on June 27 at the age of fifty-nine years.

JAMES HENRY FLEMING, of Toronto, past president of the American Ornithological Union and owner of a private museum of birds, died on June 27. He was sixty-seven years old. Mr. Fleming had been honorary curator of ornithology of the National Museum of Canada for twenty-seven years and since 1927 of the Royal Ontario Museum of Zoology.

DR. ALFRED FOWLER, the British astronomer, from 1923 to 1934 Yarrow research professor of the Royal Society, London, died on June 25 at the age of seventy-two years.

DR. AUGUSTUS EDWARD HOUGH LOVE, professor of natural philosophy at the University of Oxford, died on June 5 at the age of seventy-seven years.

ROBERT MACFARLANE CHAPIN, chief of the Biochemic Division of the Bureau of Animal Industry of the U. S. Department of Agriculture, died on May 6. He was sixty-two years of age. A correspondent writes: "A native of Massachusetts, Mr. Chapin was graduated from Amherst College in 1897. He took post-graduate work and served as instructor in chemistry until entering the service of the bureau in 1907. There he engaged in biochemical research relating largely to the development and standardization of disinfectants, livestock dips and related products. He was associated for many years with Dr. M. Dorset, discoverer of anti-hog-cholera serum, whom he succeeded as chief of the Biochemic Division in 1935. Since that time he has directed a wide range of research and service activities, including the preparation of tuberculin used in the nation-wide campaign to eradicate bovine tuberculosis, and also supervision of the stained antigen used extensively for the control of pullorum disease of poultry. Mr. Chapin was the author of numerous publications and collaborated with other investigators in many productive research studies."