lead and zinc areas of northeastern Oklahoma. W. A. Wilson, of Princeton University, with Thomas L. Metcalf, as assistant, will start about August 10 to study coal outcrops in Muskogee County, Oklahoma, this being a continuation of the work carried on during the last two years by Dr. W. T. Thom, of Princeton. C. A. Merritt, assistant professor of geology at the University of Oklahoma, assisted by W. M. Plaster, is conducting studies in the Hennessey shale of north-central Oklahoma.

John S. Redfield, assistant geologist of the Oklahoma Geological Survey, is undertaking the collection of a large number of samples of Oklahoma clays, the same to be tested by the department of ceramics at the Oklahoma A. and M. College at Stillwater. J. R. McGehee, who has recently been named paleontologist of the Oklahoma Geological Survey, is undertaking the collection and description of the Pennsylvanian fossils of the state.

Professors F. A. Melton, R. L. Six and H. A. Ireland, of the department of geology, and W. F. Cloud, of the school of petroleum engineering of the University of Oklahoma, are undertaking the preparation of reports on the oil and gas geology of various counties of the state, this to complete Bulletin 40 of the Oklahoma Geological Survey which is being published as separate chapters. John A. McCutchin, American Petroleum Institute research observer on geothermal gradients for Oklahoma, will continue his work on deep-well temperatures on various oil fields in the state. C. L. Cooper, chief geologist of the survey, assisted by J. R. McGehee, paleontologist, expects to make an extended trip during October and November studying Mississippian formations in Oklahoma, Arkansas, Missouri, Iowa, Illinois, Indiana, Ohio, Kentucky and Tennessee.

CONFERENCE OF THE GENERAL ELECTRIC COMPANY

TWENTY-FOUR professors of engineering in as many colleges and universities attended the five-weeks' professors' conference conducted this year, as in previous years, by the General Electric Company.

The conference opened on July 1 and continues through August 3. During that period the visitors will have had the opportunity to study developments in electrical and mechanical engineering in an industrial plant. On July 10 and 11, the visitors had an outing at French Point on Lake George. On July 11, they journeyed to Pittsfield, Massachusetts, by bus, to inspect transformer work at the General Electric plant there. July 12 and 13 were passed at the River Works and West Lynn works of the company at Lynn, Mass. Those in attendance are: Dean Paul Cloke, University of Maine; N. B. Ames, George Washington University; S. W. Anderson, Virginia Military Institute; F. E. Canavaciol, Brooklyn Polytechnic Institute; R. F. Chamberlain, Cornell; E. P. Culver, Princeton; P. A. Cushman, Vanderbilt; O. E. Edison, University of Nebraska; W. N. Espy, University of Illinois; S. T. Fife, University of Louisville; L. S. Foltz, Michigan State College; L. J. Hodgins, University of Maryland; P. L. Hoover, Case; F. D. Jackson, University of New Hampshire; R. P. Kolb, North Carolina State College; W. F. Mallory, University of Colorado; R. M. Matson, Georgia Tech; F. H. Pumphrey, Rutgers; D. P. Randall, Syracuse; H. E. Richards, Northeastern; C. W. Ricker, Tulane; W. T. Ryan, University of Minnesota; J. T. Strate, University of Arkansas; A. P. Strom, University of Iowa.

The following professors and instructors are employed at the Schenectady plant for the summer: R. C. Putnam, Case; C. C. Whipple, Brooklyn Polytechnic; H. A. Everett, Pennsylvania State; J. A. King, University of Kansas; R. E. Clark, Cornell; C. M. McCormick, Colorado; S. S. Attwood, University of Michigan; A. A. Nims, Newark Tech; J. M. C. Porter, Carnegie; C. W. Hoilman, Virginia Polytechnic Institute; L. Conover, Lafayette; E. G. Keller, University of Texas; E. C. Litman, A. D. Hummell, C. M. Green, A. A. Bennett, C. A. Keener, G. A. Goodenough, of University of Illinois; C. E. Magnusson, University of Washington; J. M. Bryant, University of Minnesota; Comfort A. Adams, Harvard; R. W. Sorensen, California; C. V. Mueller, Kansas State College.

The following professors and instructors are employed in the research laboratory: J. M. Beams, University of Virginia; P. H. Carr, Cornell; H. E. Edgerton and C. F. Munkenhaupt, Massachusetts Institute of Technology; J. H. Johnstone, Tallahassee; T. M. Kruger, Cornell; E. Lawrence, University of Virginia; P. Lowe, Queens; D. Ramadanoff, Cornell; Guy Suits, Wisconsin; F. W. Warburton, University of Oklahoma; J. W. Williams, Wisconsin; C. H. Willis, Princeton; W. T. Kearton, University of Liverpool.

THE WOODS HOLE STATION OF THE BUREAU OF FISHERIES

THE U. S. Fisheries Biological Station at Woods Hole opened on June 17 for the 1929 summer season under the direction of Oscar E. Sette. Three of the bureau's major investigations have headquarters at Woods Hole this season. Dr. Paul S. Galtsoff, with three assistants, is continuing his investigations on the physiology of oysters and the ecology of oyster beds in the vicinity of Woods Hole, Massachusetts. The studies on the shore fisheries of the Middle Atlantic coast continue under the direction of Robert A. Nes-

bit, who will have his headquarters at Woods Hole. The activities at this station will include studies of the occurrence and growth of young squeteague, scup and other shore species of the Woods Hole region. Experiments in methods of tagging and marking these fishes will also be conducted during the summer. The activities of field observers who are collecting data on the catch of pound nets in various localities in the states of New York, New Jersey and Virginia will be directed from this station.

The mackerel investigations are being continued at Woods Hole, where Oscar E. Sette, assisted by Edward W. Bailey, is working on the growth of juvenile mackerel and the analysis of extensive plankton collections made by the *Albatross II* during the 1929 spawning season for their content of mackerel eggs and larvae. Dr. Roderick MacDonald and George L. Clarke will collaborate in analyzing the offshore plankton collected incidentally to the mackerel investigations, with special reference to the relative abundance of the various organisms and their effect on the movements of adult mackerel and their survival.

Studies on the physiology of fishes, particularly their respiration and carbohydrate metabolism, are being continued by Dr. F. G. Hall, professor in Duke University, in collaboration with Dr. I. E. Gray, assistant professor in Tulane University. Raymond Root, fellow in zoology at Duke University, has been employed as stockroom keeper and will also collaborate with Dr. Hall, particularly on the biochemical analysis of fish eggs and larvae.

In addition to the bureau's staff of permanent and temporary investigators a number of independent investigators are engaged on various problems of significance to our understanding of the fisheries. Dr. Edwin Linton, University of Pennsylvania, is continuing studies on the helminth parasites of fishes; Dr. C. J. Connolly, associate professor in the Catholic University, will study the color reactions of crabs; Albert J. Dalton, tutor, College of the City of New York, is studying the critical stages in the embryonic development of fishes in the Woods Hole region, and Paul S. Conger, diatomist of the U. S. National Museum, will continue his studies of the marine diatoms in this region.

Four of the university tables are occupied. R. E. Bowen and Kendall W. Foster occupy Harvard tables, Dr. John C. Hemmenter the Johns Hopkins table and M. E. Holcomb the Princeton table. Space has also been accorded Dr. N. A. Cobb, of the Department of Agriculture, and his staff of six assistants, who are conducting research in nematology.

SCIENTIFIC NOTES AND NEWS

AT the meeting of the Royal Society of Canada at Ottawa, Professor A. S. Eve, McDonald professor of physics in McGill University, was elected president for the meeting to be held next year at Montreal.

THE gold medal of the University of Hamburg was presented on May 6 to Dr. Francis G. Benedict, director, nutrition laboratory of the Carnegie Institution, Boston, following his lecture before the medical faculty.

THE Academy of Sciences of Vienna has awarded the Ignaz L. Lieben prize to Dr. Karl Przibram, professor of physics in the university.

THE Leslie Dana gold medal for 1929, awarded by the National Society for the Prevention of Blindness in recognition of "the most outstanding achievement in the prevention of blindness and the conservation of vision," will be presented to Dr. Ernest Fuchs, of Vienna, at the International Ophthalmological Congress in Amsterdam on September 10.

IT is announced in *Nature* that the Kelvin Medal Award Committee, consisting of the presidents of the leading British engineering institutions, has awarded the Kelvin medal for 1929 to M. André Blondel, engineer of the Ponts et Chaussées since 1889 and for many years the chief engineer of the French lighthouse services, distinguished for his work on signaling apparatus and for his investigations on electrical measurements, apparatus and photometry. The medal is awarded as a mark of distinction in engineering work and investigation of the kinds with which Lord Kelvin was especially identified. Former recipients of the medal are Dr. W. C. Unwin, Professor Elihu Thomson and the Honorable Sir Charles Parsons.

Nature reports that an honorary fellowship of the British Academy has been conferred on Professor A. H. Sayce, known for his explorations and for his work on the archeology of the Near East. He has also been awarded the Huxley Memorial Medal of the Royal Anthropological Institute for 1929, and has been invited to deliver the Institute's Huxley Memorial Lecture in 1930. Professor Sayce is now in his eighty-fourth year, and has been a fellow of Queen's College, Oxford, since 1869.

THE Dr. Jessie Macgregor Prize in Medical Science for the triennial period 1929–31 has been awarded to Miss Helen M. Russell, M.D., for her record of work on malaria in the Vasiliki Valley, Macedonia, during 1925. The prize was founded in 1908 as a memorial to the late Dr. Jessie Maclaren Macgregor, of Edinburgh, and is of the value of £75.