

Fish and Game is joining forces with the state university and the Franz Theodore Stone Laboratory in conducting studies there. In the central part of the lake the Fish and Game Department of Pennsylvania has promised cooperative action, together with the biologists of Western Reserve University. The province of Ontario is unable to cooperate actively because of the fact that biologists of the University of Toronto are already engaged in fishery problems in Lake Ontario; and while undertaking no active field work, the University of Michigan offers cooperation in problems concerning technical ichthyology. The bureau's staff of investigators, under the direction of Dr. John Van Oosten, is being built up, and by early summer seven workers will be engaged in investigations dealing directly with the fisheries.

At the close of the discussions, in which every one was given opportunity to express his views, it was determined that the Commissioner of Fisheries should appoint an executive committee to draft plans for coordinated research on Lake Erie, based on the individual plans submitted. Mr. O'Malley appointed Elmer Higgins chairman and Drs. R. C. Osburn and Emmeline Moore as members of this committee with instructions to draft the program and refer it back to the individual cooperative investigators for their approval and action. The committee was directed further to prepare a bibliography on equipment, with special reference to experimental fishing gear, and to make an effort to standardize collecting equipment among the investigators as far as possible. It is believed that material progress has been made in stimulating research on the problems of conservation and the rebuilding of a valuable but sadly depleted fishery in Lake Erie.

ELMER HIGGINS

U. S. BUREAU OF FISHERIES

MEETING OF THE AMERICAN ELECTRO-CHEMICAL SOCIETY

THE American Electrochemical Society will hold its annual meeting at Bridgeport, Conn., on April 26, 27 and 28. This district was chosen owing to the epoch-making developments in the electric manufacture of brass. The president of the society is Professor S. C. Lind, head of the department of chemistry of the University of Minnesota and the American representative of the International Radium Standards Commission. Professor Lind will show the members a number of gas reactions brought about by radium emanations.

On April 26, the society will convene at the new Hotel Stratfield, and will devote Friday morning to the discussion of electric heating, molting and electric furnace linings. Among those who will participate in

this discussion are Mr. R. E. Talley, president and chief engineer of George J. Hagan Company, Pittsburgh; Mr. R. M. Keeney, industrial heating engineer of the Connecticut Light and Power Company; Mr. John L. Christie, metallurgist of the Bridgeport Brass Company; Dr. B. D. Saklatwalla, vice-president of the Vanadium Corporation of America, and others.

The Thursday morning session at the Hotel Stratfield will be devoted to a discussion of new batteries, and Dr. George W. Vinal, of the U. S. Bureau of Standards, will preside. Owing to the development of the radio industry, the battery business has increased by leaps and bounds. The Burgess Laboratories of Madison, Wisconsin, will present the results of their latest discoveries. The storage battery will be analyzed by experts in this field, and there will be reports on improved types of wet primary cells such as the Edison and Waterbury cells. Finally, there will be a demonstration of new rectifiers and eliminators. On Thursday afternoon the members will proceed upon a tour of inspection of the factories in Bridgeport and vicinity. On Thursday evening there will be a public lecture by Professor Bergen Davis, of Columbia University, who will demonstrate the use of the X-ray in the study of metals and compounds.

The local committee is headed by Mr. John L. Christie, metallurgist of the Bridgeport Brass Company. Mr. Christie has been working for many weeks in arranging for plant visits and social functions. Other members of his committee include the following: Messrs. F. M. Turner, Charles J. McElroy, W. G. Stratten, Raymond O'Connor, W. O. Mitscherling, Karl Pitschner, Walter M. Bradley, William Delage, George B. Hogaboom and J. C. Bradley. The main social event of the electrochemists' convention will be a dinner and dance on Friday evening.

The final session will be held Saturday morning, and will be devoted to the presentation of papers on electroplating of nickel, gold, silver, chromium and thallium. Professor E. M. Baker, of the University of Michigan, and expert for the G. C. Spring and Bumper Company, will preside over this session.

ELECTION OF FELLOWS TO THE ROYAL SOCIETY OF EDINBURGH

THE following candidates have been recommended by the council for election as Fellows of the Royal Society of Edinburgh:

Baker, Edwin Arthur, assistant at the Royal Observatory, Edinburgh; Barbour, George Brown, professor of geology, Yenching University, Peking, China; Brown, Hugh Wylie; Bruce, William Straton, parish minister of Banff; Clark, Alfred Joseph, professor of materia medica in the University of Edinburgh; Coutie, Alexander, assistant in the chemistry department, University of Edin-

burgh; Cumming, William Murdoch, senior lecturer on organic chemistry, Royal Technical College, Glasgow; Dawson, Warren Royal, fellow of the Royal Society of Medicine; Fenton, Edward Wyllie, lecturer in agricultural botany, Edinburgh and East of Scotland College of Agriculture; Forrest, James, lecturer in physics, University College, Dundee; Fraser, John, Regius professor of clinical surgery in the University of Edinburgh; Fraser, Kenneth, deputy county medical officer of health, Cumberland; Harding, William Gerald, Christ Church, Oxford; Hobson, Alfred Dennis, lecturer in zoology in the University of Edinburgh; Hodge, William Vallance Douglas, lecturer in mathematics in the University of Bristol; Hunter, Arthur, vice-president and chief actuary of the New York Life Insurance Company; Johnston-Saint, Percy Johnston, secretary, Wellcome Historical Medical Museum, London; Johnstone, Robert William, professor of midwifery and diseases of women in the University of Edinburgh; Jones, Tudor Jenkyn, lecturer in anatomy in the University of Liverpool; MacDonald, Thomas Logie, secretary of the West of Scotland branch of the British Astronomical Association; Mackie, Thomas Jones, professor of bacteriology in the University of Edinburgh; Matthai, George, professor of zoology, the Government College, Lahore, India; Nichols, James Edward, research assistant in genetics at the animal breeding research department, University of Edinburgh; O'Donoghue, Charles Henry, lecturer in zoology in the University of Edinburgh; Percival, George Hector, assistant physician, skin department, Royal Infirmary, Edinburgh; Pilcher, Robert Stuart, general manager and engineer, Edinburgh Corporation Tramways and Motors; Price, Charles Edward, formerly M. P. for Central Edinburgh; Roberts, Owen Fiennes Temple, lecturer in astronomy and meteorology in the University of Aberdeen; Senior-White, Ronald, malaria research officer, Central Malaria Bureau, Kasauli, India; Smith, Alick Drummond Buchanan, assistant animal breeding research department, University of Edinburgh; Watters, Alexander Marshall, rector of Hawick High School; Whittaker, John Macnaghten, senior scholar of Trinity College, Cambridge, and lecturer in mathematics in the University of Edinburgh; Williamson, John, lecturer in mathematics in the University of St. Andrews.

NEW CHAPTERS OF THE SOCIETY OF SIGMA XI

THE Arizona chapter of the Society of Sigma Xi was installed at the University of Arizona on the afternoon of February 22, Dr. W. F. Durand, of Stanford University, acting in the capacity of installing officer. In the evening a banquet was held, followed by the first Sigma Xi lecture, entitled "Science and Civilization," by Dr. Durand. The officers of the newly-installed chapter are: Dr. P. S. Burgess, *president*; Dr. G. T. Caldwell, *vice-president*, and Dr. H. B. Leonard, *secretary-treasurer*.

The college of medicine of the University of Illinois chapter of the Sigma Xi was installed on March 9 by the national president, Dr. F. R. Moulton, and

Professor George Baitzell, of Yale University, head of the executive committee. There are twenty-eight charter members. Dr. D. J. Davis, dean of the college, was elected president, and Dr. William H. Welker, *secretary*; Dr. I. Pilot, *treasurer*, and Drs. William F. Petersen, H. A. McGuigan and Dr. V. E. Emmel *to membership in the executive committee*.

A chapter of the Society of the Sigma Xi was installed at the Kansas State Agricultural College on March 3. The chapter members, 58 in number, were all alumni members of Sigma Xi, representing 22 different institutions. The installing officer, Professor George A. Baitzell, of Yale University, gave the installation address on the subject "Coagulation in its relation to Tissue Formation."

There has recently been organized at Louisiana State University a Sigma Xi Club composed of nineteen members from the departments of botany, chemistry, geology, mathematics, physics, zoology and the experiment station. The purpose of the club is to further the advancement of research in the university and to give the university community the opportunity when possible to hear prominent speakers on scientific subjects.

SCIENTIFIC NOTES AND NEWS

PRESENTATION of the Bruce medal of the Astronomical Society of the Pacific to Dr. Walter S. Adams, director of the Mount Wilson Observatory, will be made on April 16 by Dr. W. W. Campbell. On this occasion Dr. Adams will give an address on "The Past Twenty Years of Physical Astronomy."

DR. HIDEYO NOGUCHI, of the Rockefeller Institute for Medical Research, has been elected a corresponding member of the Vienna Microbiological Society.

IN recognition of his distinguished service to the British government in the field of tropical medicine, the honor of knighthood has been conferred on Dr. Aldo Castellani, professor and director of the department of tropical medicine, Tulane University of Louisiana School of Medicine, and director of tropical medicine and physician in the Ross Tropical Institute and Hospital, London.

DR. ARISTIDES AGRAMONTE, of Havana, who was a member of the group of army officers—Reed, Carroll, Lazear and Agramonte—which was appointed by the United States to conduct the yellow fever investigation in Cuba, at a special meeting of the faculty, members of the American College of Physicians and students and citizens of New Orleans, was awarded the degree of doctor of laws by Tulane University.

THE Academy of Natural Sciences of Philadelphia announces that its committee on the Joseph Leidy