

recreation, and R. R. Fenska, professor of forest engineering, both of the forestry college, who are engaged in making a survey of the 65,000 acres of forested land contained in the tract, will lecture to visitors every Saturday in the Academy building at Tunesassa.

The talks will include a personally conducted hike through the forests and a study of the flora and fauna encountered on the trip. Valuable information about birds, woods and wild animals common to that section of the state will be given by the experts, something that every person who goes into the woods should know. The hike will be followed by an illustrated talk on forestry, particularly as the subject pertains to the best use of the woods for recreation and health. The lectures will be given every Saturday until the vacation season ends.

The efforts of the commission headed by A. T. Fancher, of Salamanca, to make this great forested region of mountains and valleys and picturesque trout streams one of the most attractive in the United States are bringing forth excellent results. The large number of tourists and campers who already have been attracted to the park show the importance and popularity of forest recreation.

LECTURES AT THE UNIVERSITY OF MICHIGAN

THE following program of scientific lectures has been given for the students of the summer session of the University of Michigan.

July 5—*Fever*, Dr. C. W. Edmunds, professor of therapeutics and materia medica, University of Michigan.

July 12—*Causes of mental disorder*, Dr. A. M. Barrett, professor of psychiatry, University of Michigan.

July 14—*Niagara Falls and vicinity* (illustrated), Assistant Professor K. C. McMurry, department of geology, University of Michigan.

July 18—*The asteroids and rings of Saturn*, Mr. L. A. Hopkins, assistant professor of mathematics and secretary of the colleges of engineering and architecture, University of Michigan.

July 19—*The nature of cancer*, Dr. A. S. Warthin, professor of pathology and director of the pathological laboratory in the medical school, University of Michigan.

July 22—*How the psychologist tests intelligence* (illustrated), Mr. Guy M. Whipple, professor of experimental education, University of Michigan.

July 26—*Practical points in the prevention and treatment of cancer*, Dr. C. V. Weller, assistant professor of pathology, University of Michigan.

July 29—*Michigan's inland lakes: their value to the state* (illustrated), Mr. I. D. Scott, associate professor of physiographical geology, University of Michigan.

Aug. 1—*The senses and the learning process in fishes* (illustrated), Dr. J. E. Reighard, professor of zoology and director of the zoological laboratory and the zoological museum, University of Michigan.

Aug. 2—*Stone in the kidney*, Dr. Hugh Cabot, dean of the medical school, University of Michigan.

Aug. 4—*The nature of intelligence*, Professor L. L. Thurstone, of the Carnegie Institute of Technology.

Aug. 8—*Functions in high-school mathematics*, Professor E. R. Hedrick, University of Missouri.

Aug. 9—*Junior-high-school mathematics*, Professor E. R. Hedrick.

Aug. 10—*The conservation of health through food and drug inspection*, Professor C. C. Glover, secretary of the college of pharmacy, University of Michigan.

Aug. 12—*Acoustics of auditoriums* (with experimental demonstrations), Assistant Professor D. L. Rich, department of physics, University of Michigan.

Aug. 17—*Modern theories of matter* (illustrated), Dr. E. F. Barker, department of physics, University of Michigan.

Aug. 19—*Ten years of heredity* (illustrated), Professor A. F. Shull, department of zoology, University of Michigan.

BOOKLETS OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

THE office of the permanent secretary of the American Association for the Advancement of Science has recently published two booklets that should be of interest to workers in science and other friends of science. The first of these, entitled "Resolutions bearing on Important Features of the Public Welfare," includes five resolutions that have already appeared in the pages of SCIENCE, and it also presents the list of general officers of the as-

sociation for the calendar year 1921. The second is "A Booklet of General Information, specially announcing the Second Toronto Meeting," which is to occur December 27-31, 1921. It includes preliminary information regarding the second Toronto meeting, with notes on the city of Toronto, and presents a succinct statement of the "Organization and work of the association." The latter topic is discussed under the following headings: "General scope," "Meetings," "Endowment and grants for research," "Publications," "Cooperation with other organizations," "Financial aspect of the work of the association," and "Conditions, obligations and privileges of membership and fellowship."

The last cover page of this booklet bears an instructive graph showing the growth of the membership list from 1848 (461) to 1920 (11,442). Copies of these booklets may be obtained from the permanent secretary's office.

SCIENTIFIC NOTES AND NEWS

DR. GEORGE E. HALE, director of the Mount Wilson Observatory of the Carnegie Institution, was elected president of the Pacific Division of the American Association for the Advancement of Science at the recent Berkeley meeting.

At the opening meeting of the second International Congress of Eugenics, which will be held at the American Museum of Natural History, New York City, on the evening of September 22, addresses will be made by Professor Henry Fairfield Osborn, president of the congress; Major Leonard Darwin, president of the Eugenics Education Society, London; and Dr. Charles B. Davenport, director of the Department of Genetics of the Carnegie Institution.

THE Paris Academy of Medicine has elected as foreign correspondents Professor L. J. Henderson, of Harvard University; Sir Robert Philipp, of Edinburgh; Sir Humphry Rolleston, of London; and Sir d'Arcy Power, of London.

At the June meeting of the Royal Society of New South Wales, Mr. R. T. Baker, curator

and economic botanist of the Technological Museum, Sydney, was presented with the Mueller medal awarded to him by the Australasian Association for the Advancement of Science for his services to botany, particularly in regard to the Eucalypts.

DR. R. ROBLES, of Guatemala, has been made a chevalier of the Legion of Honor by the president of the French Republic, in recognition of his discovery that the disease known in Central America as "coast erysipelas" is transmitted by a filaria.

DR. JULIUS LILIENFELD, professor of physics at the University of Leipzig, has arrived in New York, where he has recently given a demonstration of his new roentgen-ray tube before the New York Roentgen Ray Society.

DR. A. J. HILL, of New Hampshire, for twenty years a member of the Census Bureau and for several years chief statistician, has been appointed assistant director of the census.

GOVERNOR SPROUL, of Pennsylvania, has appointed Dr. John M. Baldy as commissioner of welfare under the law which was passed at the last session of the legislature. The law creates a department of welfare to take over the work of the old state Board of Public Charities, the Lunacy Commission, the Prison Labor Board and other related activities. Dr. Baldy has been president of the State Board of Medical Education and Licensure since its creation in 1911, and is succeeded in this office by Dr. Irvin D. Metzger, Pittsburgh.

THE British Civil List pensions granted during the year ended March 31, 1921, as reported in *Nature*, amounted to 1,200*l.*, and include the following: Mrs. Frederick Enock, in recognition of her husband's services to natural science and entomology, 100*l.*; Mr. Edward Greenly, in recognition of his services in the geological survey of Anglesey, 80*l.*; Mrs. J. A. McClelland, in recognition of her husband's distinguished services as an investigator in physical science, 100*l.*; Mrs. and Miss Sharman, in recognition of Mr. George Sharman's valuable services in palæontological science, 80*l.*; Mr. John Nugent Fitch, in recognition of his long services to the cause of