

vate boudoir. They hold that Benjamin Franklin established a worthy precedent for this intrusion.

The lines of attack for the forest fire prediction studies are advancing along five different routes to the same objective. These are, (1) relative humidity, (2) moisture content of the inflammable material, (3) evaporation studies, (4) vapor pressure, and (5) statistical data. In all cases the work is correlated with meteorological records and forecasts and is done in close cooperation with the Weather Bureau. These studies have an immediately practical value in the warnings issued and measures taken to increase the vigilance of both public and private forces against forest fires during those periods shown by the research workers to be of greater fire hazard than usual. The ultimate object sought, of course, is greater control of all forest fires in the country which are each year sweeping over an area about one fourth that of the entire State of New York.

Both popular and scientific interest is concerned with the ratio between the diminishing supply of our timber and the growth of new wood to replace it. This relationship has been emphasized many times. Usually it is thought of in terms of the welfare of future generations. In recent years, however, the fact has been forced to our attention that even now the people of the United States are in the midst of a serious timber famine when lumber prices and availability of material are considered.

To secure definite and accurate data on this question of timber supply, the Forest Service through both its research and administrative divisions is earnestly engaged. Detailed studies have been undertaken and are being conducted as comprehensively as is possible with the present field force to ascertain the rate of growth of the various species of forest trees under the conditions prevailing in the widely different sections and to measure the annual production and total available yield on the forested areas.

Closely connected with the taking of this inventory, so to speak, is the big subject of proper forest management by which the utilization of our present timber resources and the constant replenishment of the same will go hand in hand. This involves putting into effect as rapidly as possible on both public and private forests those practices that will accomplish this two-fold purpose. These practices will be based upon the findings of the investigational work in forestry that has been carried on for nearly two decades.

This research conference of the Forest Service might well be considered an important milestone of progress along the highway leading to a full understanding of forestry problems and methods of solution.

M. C. MERRILL

WASHINGTON, D. C.

## THE SECTION OF ZOOLOGY OF THE BRITISH ASSOCIATION

OVERSEA members of the British Association for the Advancement of Science coming to the Toronto meeting, beginning August 6, include the following:

*Vice-president of Section D.*—J. H. Ashworth, D.Sc., F.R.S., professor of zoology, University of Edinburgh.  
*Recorder*—F. Balfour Brown, M.A., F.R.S., F.Z.S., Cambridge.

*Secretary*—W. J. Dakin, D.Sc., F.L.S., F.Z.S., professor of zoology, University of Liverpool, will speak on "Respiration in fishes" and "Putterism."

Miss Kathleen E. Carpenter will speak on effect on river fisheries of pollution caused by lead mining and on the biological factors involved in the distribution of river fisheries by pollution consequent on lead poisoning.

F. A. E. Crew, D.Sc., department of animal breeding research, University of Edinburgh.

J. T. Cunningham, M.A., F.Z.S., lecturer in zoology, University of London, will speak on the Lamarckian theory of the evolution of the secondary sexual characters.

D. Ward Cutler, cytologist from the Rothamsted experimental station, will lecture on soil population.

F. A. Dixey, M.A., M.D., F.R.S., bursar and lecturer of Wadham College, Oxford, will speak on scent distributary apparatus in lepidoptera.

R. R. Gates, Ph.D., F.L.S., professor of botany, University of London, formerly acting associate professor of zoology, University of California, 1915-16.

E. S. Goodrich, M.A., F.L.S., F.R.S., Linaere professor of zoology and comparative anatomy, University Museum, Oxford, discusses "The origin of vertebrates."

Mrs. Pixell Goodrich, D.Sc., will deliver a paper on "Parasitic diseases of Gammarus."

J. W. H. Harrison, zoology department, Armstrong College, Newcastle, will speak on "Inheritance of hybrids between British and Canadian lepidoptera."

Sir William A. Herdman, C.B.E., D.Sc., LL.D., F.L.S., F.R.S., late professor of oceanography, University of Liverpool.

L. Hogben, D.Sc., will speak on "Hormones of the pituitary body."

Julian Huxley, senior demonstrator in zoology, Oxford, four years assistant professor in Rice Institute, Houston, Texas, will speak on "Ductless glands in relation to amphibian metamorphosis" and on "Chromosomes and species."

C. H. Osterfeld, head of the plankton section of the bureau of the Conseil Internationale pour l'Exploration de la Mer, Copenhagen.

A. D. Peacock, lecturer in zoology, Armstrong College, Newcastle-on-Tyne, will discuss "Sex change experiments in saw flies."

F. A. Potts, M.A., zoologist, Trinity College, Cambridge, will speak on "Intracellular digestion in invertebrates."

W. M. Tattersall, D.Sc., professor of zoology in the University College of South Wales, Cardiff.

D'Arcy Wentworth Thompson, C.B., D.Litt., F.R.S., professor of natural history, St. Andrew's University, scientific member of fishery board for Scotland, British delegate on Behring Sea and North Sea conferences.

Henry William Marett Tims, O.B.E., M.D., reader in zoology in Bedford College, London, lecturer on comparative dental anatomy and physiology in the Royal Dental Hospital, London.

D. M. S. Watson, M.Sc., F.R.S., professor of zoology and comparative anatomy, University College, London, will speak on paleontology and Mendelism, and discuss "The origin of vertebrates."

R. Ramsay Wright, LL.D., emeritus professor of biology, Toronto University, previously of Edinburgh University and vice-president of the University of Toronto, 1901-12.

### THE AMERICAN MEDICAL ASSOCIATION

THE seventy-fifth annual session of the American Medical Association was opened in Chicago, on June 9, when the house of delegates met. The scientific assembly held a general meeting on the evening of June 10, when Dr. William Allen Pusey, of Chicago, was installed as president and delivered an address. The sections, of which there are sixteen, met on the three following days. A series of clinics were held and daily demonstrations given of fresh pathological material, both human and animal, and also a special demonstration of modern methods of studying the heart; the New York association for the prevention and relief of heart disease arranged an exhibition illustrative of its work. Various other associations took the opportunity of showing their methods of work; among them were included the League of Nations, the American Association of Hospital Social Workers, the American Social Hygiene Association, and the Medical Women's National Association. The United States Department of Agriculture arranged a special Pasteur exhibit illustrating his work on chicken-cholera, anthrax and rabies. Various departments of the American Medical Association gave exhibits, including the council on pharmacy and chemistry, the propaganda department of the *Journal of the American Medical Association*, the council on medical education and hospitals, and the bureau of health and public instruction. All the meetings and demonstrations took place in the buildings on the Municipal Pier, where there is a motion picture theater, which was used to show a number of scientific films. In addition a large number of pathological specimens were shown by various individuals and institutions, the latter including the Mayo Clinic, the department of pathology of the Rush Medical College, Chicago, and the medical schools of the University of Illinois and Kansas. A special feature was a collection of various models and appliances for the teaching of pathology and clinical medicine

and surgery. The commercial exhibition was on a large scale, and among the objects shown were books, foods and beverages for adults and infants, instruments and apparatus, pharmaceutical preparations and apparatus for treatment by X-rays and electricity.

### SCIENTIFIC NOTES AND NEWS

AT Harvard University the doctorate of science has been conferred on Edmund B. Wilson, of Columbia University, and on Dr. W. J. Mayo, of Rochester, Minn.

QUEEN'S UNIVERSITY, Ontario, has conferred the degree of doctor of laws on S. A. Mitchell, professor of astronomy at the University of Virginia and director of the Leander McCormick Observatory, on account of his "international eminence as an astronomer."

At a special congregation on July 5, the University of Birmingham, England, will confer the honorary degree of LL.D. upon Sir Charles Sherrington, president of the Royal Society, Sir John Bland-Sutton, president of the Royal College of Surgeons of England, Sir Arthur Keith, Hunterian professor at the Royal College of Surgeons of England, Dr. F. Gowland Hopkins, Sir William Dunn, professor of biochemistry in the University of Cambridge.

DR. THOMAS HUNT MORGAN, professor of zoology at Columbia University, has received the honorary degree of LL.D. from the University of Michigan.

At the sixty-eighth annual commencement of Tufts College, held on June 16, the honorary degree of doctor of science was conferred on Edward Ray Weidlein, director of the Mellon Institute of Industrial Research of the University of Pittsburgh.

THE UNIVERSITY OF MARYLAND at its commencement exercises conferred the honorary degree of doctor of pharmacy on Dr. David I. Macht, lecturer in pharmacology at the Johns Hopkins University, in recognition of his contributions to pharmacology and experimental therapeutics.

EMIL BOREL, professor of mathematical physics at the University of Paris, will represent the Association Française pour l'Avancement des Sciences at the Toronto meeting of the British Association in August.

DR. WILLIAM M. WHEELER, professor of entomology and dean of the faculty of the Bussey Institution at Harvard University, has been named to represent the university as exchange professor in France during the second half of the next college year.

DR. THEODORE LYMAN, Hollis professor of mathematics and natural philosophy and director of the