

and senior consultant of the priorities division of the Office of Production Management, and on Edward R. Stettinius, Jr., director of the priorities division of the Office of Production Management.

At the commencement exercises on June 8 of the Iowa State College, the degree of doctor of laws was awarded to Robert Emery Neff, superintendent of hospitals for the State University of Iowa, for "outstanding work in the field of hospital administration." Henry J. Brunner, of San Francisco, received the Marston Medal in recognition of his contribution to the structural safety of buildings and bridges of the Pacific Coast—particularly the San Francisco-Oakland Bridge.

The doctorate of science was conferred at the commencement of New York University on Dr. John Joseph Morehead, consulting surgeon of the New York Post-Graduate Medical Hospital, and on Dr. George Barelay Wallace, professor of pharmacology and therapeutics and director of the pharmacological laboratories of the New York University College of Medicine. The doctorate of public health was conferred on Dr. William Edgar Caldwell, professor of clinical obstetrics and gynecology at Columbia University, and on Dr. Frederick Clark Holden, professor emeritus of obstetrics and gynecology in the New York University College of Medicine.

#### DEATHS AND MEMORIALS

Dr. OWEN LOUIS SHINN, professor of applied chemistry at the University of Pennsylvania, died on June 10 at the age of sixty-nine years. He had been associated with the university as a student and faculty member for more than fifty years.

Dr. SIDNEY ARMOR REEVE, of New York City, con-

sulting engineer, retired, from 1898 to 1916 professor of steam and hydraulic engineering at the Worcester Polytechnic Institute, died on June 12 at the age of seventy-five years.

CHARLES WHITING BAKER, consulting engineer, retired, since 1911 commissioner of the Palisades Interstate Park, died on June 5 at the age of seventy-six years.

LORIN EVERETT IMLAY, electrical engineer, director of statistics of the Niagara Hudson Power Corporation, who was associated with the Pioneer Tunnel Power Development at Niagara, died on June 10. He was seventy-six years old.

Dr. JULIUS FRIEDENWALD, professor emeritus of gastro-enterology at the Medical School of the University of Maryland, a member of the faculty for more than forty years, died on June 8 at the age of seventy-four years.

Dr. WILBUR HARRINGTON NORCROSS, professor of psychology at Dickinson College, Carlisle, Pa., died on June 11. He was fifty-eight years old.

LELAND MASON WILLEY, purchasing agent and accountant for the General Electric Company, Schenectady, N. Y., died on May 21 at the age of fifty-eight years.

IN memory of Professor Louis H. Pammel, whose death in 1931 ended a period of forty years of service in Iowa State College, a tract of woodland in the college grounds was dedicated on June 7 as Pammel Park. Preserving the natural beauty of the land, it will especially commemorate Mr. Pammel's zeal and devotion in the cause of conservation throughout the state.

### SCIENTIFIC NOTES AND NEWS

Dr. FREDERICK WHARTON RANKIN, surgeon, of Lexington, Ky., was elected at the Cleveland meeting president of the American Medical Association.

Dr. WALTER S. LANDIS, vice-president of the American Cyanamid Company, has been elected president of the Chemists' Club, New York. Dr. Edward A. Dieterle, consulting gas and chemical engineer, has been elected president of the Chemists' Club, Chicago.

NATIONAL officers of the American Association of Scientific Workers for 1941-1942 have been elected as follows: *President*, Professor Anton J. Carlson, University of Chicago; *Vice-presidents*, Professor C. Fayette Taylor, the Massachusetts Institute of Technology; Watson Davis, Science Service; Professor Ralph W. Gerard, University of Chicago; Professor Edward C. Tolman, University of California at

Berkeley; *Treasurer*, Professor H. Burr Steinbach, Columbia University; *Secretary*, Dr. Harry Grunfest, Rockefeller Institute for Medical Research. In the Chicago branch, the new officers are: Professor R. W. Gerard, *president*; Professors R. S. Mulliken and E. S. G. Barron, *vice-presidents*; Professor B. F. Miller, *president-elect*; Dr. Zelma Baker, *recording secretary*; Dr. Albert Dorfman, *corresponding secretary*; M. Silver, *treasurer*. The new officers of the New York branch are: Professor Walter Rautenstrauch, *chairman*; Dr. Oscar Bodansky, *treasurer*; Miss Doris P. Flavelle, *secretary*.

THE Revere Award of \$5,000 has been given to Eugene Phillips in recognition of his invention of a blind-landing system for aeroplanes. The award was presented to him at a dinner given in his honor on

June 9 by C. Donald Dallas, president of the Revere Copper and Brass Company, donor of the prize.

At a recent meeting of the council of the Royal Agricultural and Horticultural Society of India, Dr. C. Stuart Gager was elected to honorary membership in the society.

For his paper presented at the annual meeting in 1940 of the American Society for Testing Materials, on "The Tension Test," C. W. McGregor, associate professor of mechanical engineering at the Massachusetts Institute of Technology, will be presented on June 25 with the Charles B. Dudley Medal at the forty-fourth annual meeting, which will be held in Chicago. The award commemorates the name of the first president of the society and is given to the author of an original contribution "of outstanding merit" presented at the previous annual meeting.

THE Hanbury Medal of the British National Institute for Medical Research has been awarded to Dr. Harold King for "high excellence in the prosecution of original research in the natural history and chemistry of drugs."

DR. HENRY K. BEECHER, associate in anesthesia at the Harvard Medical School, has been appointed to the Dr. Henry Isaiah Dorr chair of research and teaching in anesthetics and anesthesia.

DR. CLARENCE H. GRAHAM has been promoted to a professorship of psychology at Brown University.

DR. IRA L. BALDWIN, professor of bacteriology and assistant dean of the College of Agriculture of the University of Wisconsin, has been appointed head of the department of agricultural bacteriology. He succeeds Professor Edwin George Hastings, who has served since 1910 and who has been relieved of the chairmanship at his own request in order that he may devote his time to other departmental work.

JOSEPH K. NICHOLS, of Brigham Young University, has been promoted from an associate professorship to a professorship of chemistry.

DR. ARNOLD MARTIN KUETHE, aeronautical engineer of the Advisory Committee on Aeronautics, has been appointed associate professor of aeronautical engineering at the University of Michigan. He succeeds Dr. Milton J. Thompson, who resigned in February.

DR. DOROTHY M. WRINCH, of Oxford, lecturer in chemistry at the Johns Hopkins University, has been appointed to a joint visiting professorship at Smith, Mt. Holyoke and Amherst Colleges for the academic year 1941-42. At each institution she will conduct a series of seminars in the general field of molecular biology.

DR. RALPH W. PHILLIPS, head of the department

of animal husbandry of the Utah State Agricultural College, will direct investigations in animal genetics at the Beltsville, Md., Research Center. He will begin his work on July 1. The position has been vacant since the resignation in March, 1940, of Dr. W. V. Lambert.

JEROME F. GRATTAN, formerly research chemist at the Squibb Institute, has joined the recently organized research staff of the International Vitamin Corporation of New York, N. Y.

THE Carnegie Institution of Washington has renewed its grant for research in high precision calorimetry in the department of chemistry of the University of Pittsburgh for the college year 1941-42. The post-doctorate fellow reappointed is William E. Wallace, whose work will be under the direction of Dr. A. L. Robinson.

RODNEY E. BLACK, Pawhuska, Okla., has been awarded the thirteenth Weston fellowship of the Electrochemical Society, which is of the value of \$1,000. He is investigating the plating of molybdenum and tungsten alloys at the University of Wisconsin.

THE University of Texas has been awarded a grant of \$34,520 for research in genetics by the Rockefeller Foundation for the study of the question of how new species and races of animals arise in nature. The work will be under the direction of Dr. J. T. Patterson, professor of zoology; Dr. Wilson S. Stone, associate professor of zoology, and Dr. A. B. Griffen, research associate in the university's Research Institute. This grant follows by two weeks another Rockefeller grant for the establishment of the first laboratory of marine biology on the Gulf of Mexico.

ACCORDING to *Nature*, Dr. L. G. M. Baas-Becking, professor of botany in the University of Leyden and director of the Leyden Botanical Gardens, is now in custody in a prison at Scheveningen, Holland.

A PARTY from the department of geology and geography at Northwestern University will be engaged through the summer in the study of the pre-Cambrian rocks of the Los Pinos Range in central New Mexico. Drs. J. T. Stark and E. C. Dapples are in charge of the work, and will be assisted by Ralph Wilpolt, Mortimer Staatz, James Norton and Hugh Garrison. The project is financed by a grant from the university.

THE officers, executive committee and members of the Division of Geology and Geography of the National Research Council, for the year beginning July 1, are as follows: *Chairman*, Walter H. Bucher; *Vice-chairman*, Richard Hartshorne; *Executive Committee*, Walter H. Bucher, Richard Hartshorne, Wilmot H.

Bradley, Charles C. Colby, A. I. Levorsen, T. S. Lovering; *Representatives of Societies*, Wilmot H. Bradley and T. S. Lovering, Geological Society of America; George Tunell, Mineralogical Society of America; G. Arthur Cooper, Paleontological Society; Richard Hartshorne and Richard J. Russell, Association of American Geographers; Charles B. Hitchcock, American Geographical Society; Wilbur S. Burbank, Society of Economic Geologists; Robert B. Sosman, American Ceramic Society; A. I. Levorsen, American Association of Petroleum Geologists; *Members at Large*, Walter H. Bucher, Charles C. Colby and Joseph T. Singewald, Jr.

DR. ANTON J. CARLSON, Frank P. Hixon professor of physiology at the University of Chicago, delivered on June 8 the commencement address at the Massachusetts Institute of Technology.

DR. ALAN GREGG, director for the medical sciences of the Rockefeller Foundation, delivered on June 11 the commencement address at the Cornell University Medical College.

DR. H. H. NEWMAN, professor emeritus of zoology of the University of Chicago, addressed the Purdue University Chapter of the Society of the Sigma Xi on May 16 at the annual banquet of the chapter. The subject of the lecture was "Human Twins and Multiple Births."

A JOINT conference on "Science in the Service of the Consumer" of the Consumers Union of the United States and the American Association of Scientific Workers was held on June 17 and 18 in connection with the seventy-fifth anniversary celebration of the University of New Hampshire. At the dinner meeting on the evening of June 18, Dr. Anton J. Carlson, chairman of the department of physiology at the University of Chicago, president of the American Association of Scientific Workers, gave an address on "Poisons in Food."

THE recent agitation in Washington and elsewhere concerning wildlife conservation, the attention which is being directed toward soil conservation and land utilization, and the program of conservation education of the National Wildlife Federation, has focused the attention of those interested upon the necessity of concentrated effort. New Hampshire is fortunate in its wealth of scenic beauty and abundance of wildlife, but at the same time has many conservation problems. A meeting was held in Concord on May 4, 1940, composed of representatives from several organizations, to discuss the desirability of calling a general conference to consider the possibility of perfecting a federation of organizations interested in conservation education. H. E. Warfel, of the State Fish and Game Department; E. H. Little, of the State

Board of Education, and H. B. Holbrook, of the Boy Scouts organization, were appointed a committee to organize the conference. The response of organizations within the state to the invitation to this conference has been nearly a hundred per cent. The committee will hold a meeting under the auspices of the Biological Institute in conjunction with the seventy-fifth anniversary celebration of the university, and a program has been arranged for June 24 at Durham. The conference will be composed of delegates of over fifty organizations, including state departments in addition to others who are interested in the conservation of the resources of the state.

THE newly established position of director of public health and preventive medicine in the Medical School of the University of Oregon was provided for through a bequest of \$400,000 to the Oregon State System of Higher Education by the late Dr. E. C. Brown, physician of Portland. The bequest provides for the establishment of a perpetual trust, the income of which is to be used to "carry on the instruction and education of the boys and girls and young people of the State of Oregon in respect to what is commonly called 'social hygiene,'" under the direction of the executive head of the University of Oregon. Within terms of the will, the director will devote one third of his time to instructional work at the Medical School, and the remainder to such educational work throughout the state as will carry out the provisions of the will.

ARTHUR CURTISS JAMES, railroad industrialist, who died on June 1, bequeathed nearly eight tenths of his estate for the establishment of the James Foundation, the income of which is to be used to aid charitable, religious and educational institutions. Mr. James directed that the board of the foundation use part of the funds vested in it from time to time to further the work of certain charitable, religious and educational institutions to which he had made substantial contributions. He directed that the income be divided into twenty-eight shares. Among those receiving two shares are Amherst College, the Metropolitan Museum and the Presbyterian Hospital, New York. One share goes to the New York Public Library and one to the American Museum of Natural History.

THE Rockefeller Foundation has provided a grant of \$90,000 "to aid hard-pressed research projects at the University of Rochester's School of Medicine and Dentistry." The grant extends over three years with the sum of \$30,000 available each year. Appropriations from the fund will be made to promising investigations which would otherwise have to be given up or curtailed due to decreasing income from the university's endowment.

THE Oregon State College has acquired a collection of mounted birds and bird eggs, gathered for the past fifty-six years by Mr. and Mrs. J. C. Braly, of Depoe Bay, Ore. The collection, which has been conservatively valued at \$77,000, included 32,500 eggs, 1,000 mounted birds, 1,200 bird skins and 100 mounted mammals. There is an almost complete representation of Oregon birds, a large number from the Pacific coast, as well as many from other parts of the United States and foreign countries.

THE Committee on the Elizabeth McCormick Child Research Grant of the Institute of Medicine of Chicago has at its disposal the sum of \$1,500 which may be awarded to qualified investigators in the Chicago area for the aid of research in child welfare. Applications will be received up to October 15, and the award

will be made soon after. Communications should be addressed to Dr. John Favill, Secretary, 122 South Michigan Avenue, Chicago. Since there are no formal blanks, application should be made by letter.

THE department of electrical engineering of Columbia University, of which Professor Frederick W. Hehre has been elected chairman, will offer a new sub-option to its regular power option, to be known as the electrochemical power option, leading to the usual degrees of B.S. or of E.E. or M.S. in electrical engineering. Prepared with the assistance of Dr. Colin G. Fink, of the department of chemical engineering, and Dr. Eric R. Jette, of the department of metallurgy, this sub-option is intended to afford training for electrical engineers anticipating employment in the electrochemical or electrometallurgical industries.

## DISCUSSION

### THE MANCHESTER LITERARY AND PHILOSOPHICAL SOCIETY

IN a letter dated the 14th of February, 1941, from the Rev. H. McLachlan, Unitarian College, Victoria Park, Manchester, to Dr. John F. Fulton, Yale University, it has been learned that the Eighteenth Century Library and Dalton relics belonging to the Manchester Literary and Philosophical Society have been destroyed by aerial warfare. As the society is one of the earliest of its kind, in Great Britain, having been founded in 1781, and because of its association with Dalton and Joule, it is felt that a brief report of its early activities should be placed on record.<sup>1</sup>

The early history of the society is linked with that of the Warrington Academy (1757-1784), for Thomas Percival, the "father" of the society, was a pupil at this school where he came under the influence of Priestley. Percival studied medicine in Edinburgh and in 1767 opened a consulting practice in Manchester, where he devoted his energies to problems in public health and epidemiology.

Possessing a charming personality and a keen mind with wide interests Percival soon began to attract the intellectual and talented men around him. Amongst those who attended the informal meetings in his home in King Street, was another notable figure in medicine, Charles White, surgeon to the Manchester Infirmary and pioneer in modern obstetrical practice, and author of the classical account of puerperal fever. White was no doubt the most original thinker in the circle of friends who began to collect at Percival's house. "These meetings became so pleasant, and the conversation so important, that many persons sought to

attend, so that the resources of a private house were strained." Meetings were therefore held in a house in George Street, and finally in 1781 the society was formally established under the name of the Literary and Philosophical Society of Manchester.

Membership was at first limited to fifty, and it included the names of many other medical men, renowned in Manchester medical history, John Aikin, Peter Mainwaring, Thomas Henry, Alexander Eason, George Bell and John Ferrier. It was decided "that the subjects of conversation comprehend natural philosophy, theoretical and experimental chemistry, polite literature, civil law, general politics, commerce and the arts. But that religion, and practical branches of physics, and British politics, be deemed prohibited, and that the chairman shall deliver his veto whenever they be introduced." A library was started almost immediately, and the society met weekly except during the summer months. The first meeting was held on March 14, 1781.

The society prospered, and the more important papers presented at the meetings were published in a series of Memoirs beginning in 1785 and continuing to the present day. It is not surprising, therefore, that when the Warrington Academy was compelled to close its doors in 1784 its supporters turned to Manchester, where the Literary and Philosophical Society was creating an atmosphere of intellectual curiosity unknown elsewhere in provincial England. Thus came into being the Manchester Academy, which subsequently, after much wandering, settled in Oxford as Manchester College.

In 1794 John Dalton was appointed tutor in mathematics and natural philosophy in the Manchester Academy, and in the same year was elected member of

<sup>1</sup> For a fuller account of the history of the society see D. Sheehan, *Isis*, 1941 (in press).