

George L. Stout, lecturer on design and keeper of the Ross Study Series, for the detection of the radioactivity of lead used in works of art as an index to their age.

Y. Subba-Row, teaching fellow in biological chemistry, for the chemical isolation of vitamin B₂ and other essential fractions which appear to be effective in the cure of certain diseases.

John H. Talbott, instructor in medicine, for an investigation of metabolic diseases associated with a disturbance of electrolyte equilibrium.

Morgan Upton, assistant professor of general physiology, for an investigation of the relationship between the activity of peripheral receptor mechanisms and the central nervous system with special reference to sound as the determining physical factor.

George Wald, instructor in biology, for a spectroscopic investigation of the chemistry of the retinal processes.

John H. Welsh, instructor in zoology, and Fenner A. Chace, Jr., Alexander Agassiz fellow in oceanography at the Museum of Comparative Zoology, to continue a study of the eyes of deep sea crustaceans.

E. Bright Wilson, Jr., assistant professor of chemistry, for a study of the thermodynamic properties of certain organic compounds by the measurement and interpretation of their spectroscopic properties.

Morton F. Yates, instructor in operative dentistry, for an investigation of the lymphatic drainage of the teeth.

RECENT DEATHS AND MEMORIALS

DR. RALPH D. BEETLE, professor of mathematics at Dartmouth College, died on July 9 at the age of fifty-one years.

ARTHUR B. CLAWSON, physiologist in charge of stock-poisoning plant investigations of the Bureau of Animal Industry of the U. S. Department of Agriculture, died on June 30 at the age of fifty-nine years.

THOMAS MATHER, emeritus professor of electrical engineering at the Imperial College of Science and Technology, London, died on June 23 at the age of eighty-one years.

FRIENDS and students of the late Professor Charles E. Mendenhall, of the University of Wisconsin, have subscribed a fund to found a fellowship in his memory. It has been accepted by the university and will be called the Charles E. Mendenhall Fellowship and be tenable by graduate students in experimental physics.

SCIENTIFIC NOTES AND NEWS

THE autumn meeting of the National Academy of Sciences will be held at the University of Rochester on October 25, 26 and 27. Members will be welcomed on Monday morning by Dr. Alan Valentine, president of the university, and Dr. Frank R. Lillie, president of the academy, will respond. On Monday evening there will be a special concert in the Eastman Theater by the Eastman School of Music. On Tuesday evening the subscription dinner will be held at the Genesee Valley Club. Visits will be arranged to the works of the Bausch and Lomb Optical Company and of the Eastman Kodak Company.

THE *Journal* of the American Medical Association states that Dr. Edward W. Archibald, professor of surgery and director of the department of surgery of the faculty of medicine of McGill University, was presented at a recent meeting at the Boston Medical Library with the Henry Jacob Bigelow Medal of the Boston Surgical Society. Dr. William C. Quinby, Boston, president of the society, made the presentation, and Dr. Archibald spoke on "French Surgery in the First Half of the Nineteenth Century." Under the will of William Sturgis Bigelow, in memory of his father, a sum of money was presented to the society, "the income of which is to be used from time to time for the presentation of a gold medal to some outstanding surgeon for his work in the advancement of the science of surgery."

THE first Fraser Muir Moffat Gold Medal of the

Foundation of the Tanners' Council Research for "outstanding service to the leather industry" was presented to George D. McLaughlin at the annual meeting of the American Leather Chemists' Association. The presentation was made by Dr. Fred O'Flaherty, research professor of the Graduate School of Arts and Science of the University of Cincinnati. On the face of the medal is a likeness of the late Fraser M. Moffat, who for many years was president of the Tanners' Council and who was instrumental in the establishment of the Tanners' Council Research Laboratory as a unit in the Institute of Scientific Research at the University of Cincinnati.

PROFESSOR C. O. REED, of the department of agricultural engineering of the Ohio State University, was awarded, at the recent meeting at the University of Illinois of the American Society of Agricultural Engineers, the McCormick Medal for outstanding work during the year.

THE Gold Medal of the South African Medical Association for distinguished service rendered to the profession in South Africa has been awarded to Dr. W. T. Davies, for many years president of the South Africa Medical Council.

At the commencement of Denison University the honorary doctorate of science was conferred upon Herbert Grove Dorsey, of the U. S. Coast and Geodetic Survey, and upon Warner W. Stockberger, in

charge of drug, poisonous and oil plant investigations in the Bureau of Plant Industry of the U. S. Department of Agriculture.

DAVIDSON COLLEGE, at its centennial celebration on June 8, conferred the degree of doctor of science on Lieutenant Colonel James Stevens Simmons, Medical Corps, U. S. Army, stationed at Boston.

THE degree of doctor of science has been conferred by Monmouth College on Dr. Howard H. Martin, chairman of the department of geography at the University of Washington. Dr. Martin is the retiring president of the Association of Pacific Coast Geographers and institute geographer on the staff of the Institute of World Affairs.

DR. M. A. PARKER, of the department of chemistry of the University of Manitoba, has retired with the title of professor of chemistry emeritus.

WILHELM SEGERBLOM retires from active teaching at the end of the present school year, having served on the faculty of the Phillips Exeter Academy for thirty-eight consecutive years, most of the time as head of the department of chemistry. He expects to devote himself to editorial work and to research in chemical education.

DR. PAUL S. BURGESS has resigned as president of the University of Arizona to return to his former position as dean of the College of Agriculture and director of the Agricultural Experiment Station. He will be succeeded by President Alfred Atkinson, of the Montana State College.

DR. WALTER EDMOND LEVY, professor of obstetrics in the Graduate School of Medicine at Tulane University, has been appointed professor of obstetrics and head of the department of obstetrics in the newly organized Graduate School of Medicine of the Louisiana State University.

PROFESSOR W. LÖFFLER, director of the polyclinic at Zurich, has been nominated to succeed Professor O. Naegeli in the chair of clinical medicine of the University of Zurich.

M. ORCEL, assistant director of the laboratory of the Museum of Natural History, Paris, has been appointed professor of mineralogy to take the place of M. Lacroix, who has retired.

DR. DONALD C. BALFOUR, associate director of the Mayo Foundation, Rochester, was appointed director on July 1, to succeed Dr. Louis B. Wilson, who has become director emeritus.

DR. J. ALFRED HALL, senior biochemist at the Forest Products Laboratory, Madison, Wis., has been appointed associate director of the California Forest and Range Experiment Station at Berkeley.

DR. WALTER L. TREADWAY, assistant surgeon general of the U. S. Public Health Service, is at the head of a delegation of five Americans who will attend the International Congress on Mental Hygiene, meeting in Paris from July 19 to 24. The only paper to be read by a member of the delegation will be one by Professor Walter R. Miles, of the Institute of Human Relations at Yale University, who will speak on "Prophylaxis in Alcoholism."

DR. BENJAMIN F. HOWELL, of Princeton University, associate curator of the department of geology and paleontology of the Academy of Natural Sciences of Philadelphia, sailed from New York on June 16 to represent the academy at the seventeenth International Geological Congress and at sessions of the International Paleontological Union, to be held in Moscow from July 19 to 26. While in Europe he will carry on research work in the British Museum and at the University of Oslo, as well as field work in Norway, Russia and Italy. Dr. Benjamin Miller, of Lehigh University, known for his work on ore deposits, will also represent the academy at the congress.

ALFRED C. WEED, curator of fishes at the Field Museum of Natural History, left on July 6 for the North Atlantic Coast to collect fish for a habitat group at the museum. Leon L. Pray, taxidermist, is his assistant.

ACCORDING to a wireless dispatch to *The New York Times*, dated June 28, Dr. Richard Flint, of the department of geology of Yale University; Dr. Henry J. Oosting, professor of botany at Duke University, and Dr. Flint's assistant, Albert L. Washburn, left Helsingfors on June 28 for a six weeks' geological exploration of Greenland. Miss Louise A. Boyd, of San Francisco, is the leader of the expedition and will defray its cost. She, with James M. LeRoy, hydrographer, will meet the rest of the party at Tromsø. During his visit to Finland, at the invitation of the Finnish Geological Association, Dr. Flint and his associates made geological investigations in South Finland that might facilitate the work on Greenland glaciers.

AN expedition that will last three months left Leith, Scotland, for the Arctic regions on June 27, to investigate the cosmic rays by means of balloons. Investigations will be made at very high altitudes within 10 degrees of the north magnetic pole near Baffin Bay. In addition, investigations are to be conducted by T. T. Paterson and T. C. Lethbridge on the ancient Eskimo civilization of Greenland, Ellesmere Land and Baffin Land. J. M. Wordie, senior tutor of St. John's College, Cambridge, is the leader of the expedition. Other members include Dr. Hugh Carmichael, of St. John's College, Cambridge; E. J. Dymond, H. I. Drever,

A. H. Robin, I. M. Hunter, D. Leaf and R. W. Feachem.

DR. GEORGE D. BIRKHOFF, professor of mathematics at Harvard University, during his recent visit to Paris, gave on June 4 and 5 two conferences at the Institute Henri Poincaré. He spoke on analytic functions and on unsolved problems of dynamics.

At a meeting commemorating the semi-centennial of the founding of the Denison Scientific Association, held on June 12, under the general topic "Contributions of Science to Human Welfare," addresses were made by Dr. Herbert Grove Dorsey, of the U. S. Coast and Geodetic Survey; Professor C. Judson Herrick, of the University of Chicago, and President William E. Wickenden, of the Case School of Applied Science.

THE fifty-first annual convention of the Association of Land-Grant Colleges and Universities will be held in Washington, D. C., from November 14 to 17. A part of the convention period will be devoted to the observance of the seventy-fifth anniversary of the Morrill Act, of the act establishing the U. S. Department of Agriculture and of the fiftieth anniversary of the Hatch Act.

THE Pacific Coast convention of the American Institute of Electrical Engineers will be held at Spokane, Wash., from August 31 to September 3.

THE First International Colloquium on Endocrine Glands in Relation to Reproduction was held in the Collège de France, Paris, from June 10 to 19, under the auspices of the Singer-Polignac Foundation. Opening addresses were made by MM. Bédier and Faral and by Professor P. Bouin, of Strasbourg, who presided at the meetings. Dr. Lucien Brouha, of Liège, was general secretary and interpreter. Among those who presented papers were Drs. Edgar Allen, of Yale University; Carl G. Hartman, of the Carnegie Laboratory of Embryology, Baltimore; F. L. Hisaw, Harvard University; P. E. Smith and A. E. Severinghaus, Columbia University; H. Selye and C. S. McEwen, McGill University. The Singer-Polignac Foundation was established for the support of scientific research in 1928 by the American-born Princess de Polignac in honor of the late Prince Edmond de Polignac. The officers of the foundation are: *honorary president*,

Princess Edmond de Polignac; *president*, M. Joseph Bédier, chancellor emeritus of the Collège de France; *executive secretary*, M. André Mayer, Collège de France; *members of the council*, MM. Maurice Paleologue, Edouard Estaunie, Georges Maringer, Paul Léon, Edmond Faral and Emmanuel Fauré-Fremiet. The proceedings of the meeting will be published in book form.

THE *Experiment Station Record* states that under a memorandum of April 9, 1937, an Advisory Committee on Research of the U. S. Department of Agriculture has been set up by Secretary Henry A. Wallace, consisting of F. D. Richey, H. G. Knight, J. R. Mohler and L. A. Strong, chiefs, respectively, of the Bureau of Plant Industry, Bureau of Chemistry and Soils, Bureau of Animal Industry and Bureau of Entomology and Plant Quarantine, and E. N. Bressman, of the Agricultural Adjustment Administration. This committee will advise the secretary and director of research on such specific research problems as may be assigned them from time to time. It will also, upon its own initiative, survey the field of research within the department with a view to developing uniform research project systems and obtaining an able research personnel. The *Record* points out that the appointment by transfer from the Soil Conservation Service of Merrill Bernard, hydraulic engineer, to succeed M. W. Hayes, deceased, as chief of the River and Flood Division of the Weather Bureau marks a new departure of the bureau, namely, the selection of a hydrologist rather than a meteorologist to head one of its important divisions, the severe floods of the last few years having shown the need of specialists in hydrology in the task of developing new flood-forecasting methods.

THE *Journal* of the American Medical Association reports that the project for construction of a new building for the Faculty of Medicine, Buenos Aires, at a cost of \$3,500,000, has been approved by the government. The government has asked the university to cut down expenses by twelve per cent. It is requesting, however, the same allowance for expense that it had in 1930, which has been cut down from that year up to the present by forty-seven per cent.

DISCUSSION

THE SCHÜTZ-BORISOV LAW FOR ENZYMES

It is frequently stated by investigators and writers on enzymes^{1,2} that for preparations of certain en-

¹ J. B. S. Haldane, "Enzymes, Monographs on Biochemistry," p. 11, London and New York, 1930.

zymes, e.g., pepsin, the velocity of reaction has been found to be proportional to the square root of the enzyme concentration. Reference to the original data

² S. Waksman and W. C. Davison, "Enzymes," p. 44, Baltimore, 1926.