

NEWS

and Notes

Saul B. Sells, formerly assistant director, Consumers' Goods Price Division, and chief statistician with the Statistical Standards Division, OPA, has joined the staff of the Department of Psychology, USAF School of Aviation Medicine, Randolph Field, Texas.

Morrough P. O'Brien, dean of the College of Engineering, University of California, has returned to the Berkeley campus after a year's leave of absence spent in private industry. While on leave he served as director of research and engineering for the Air Reduction Company.

Mont A. Cazier, chairman of the Department of Insects and Spiders, American Museum of Natural History, has recently returned from a 21,000-mile trip through the United States which has yielded the largest single collection of tiger beetles in history. The tiger beetle, which feeds exclusively on other forms of animal life, thrives in every known region in the world and, in adapting itself to varied environmental conditions, undergoes remarkable bodily changes. Dr. Cazier's collection of more than 15,000 individual specimens includes 6 entirely new subspecies.

Leigh C. Anderson has been named chairman of the Department of Chemistry at the University of Michigan to succeed **C. S. Schoepfle**, who requested relief from his position because of illness.

Emanuel Maxwell, who since 1941 has been on the staff of Massachusetts Institute of Technology, where he has been carrying on investigations in the microwave field, is now with the Cryogenics Section at the National Bureau of Standards. At the Bureau he will be concerned with low-temperature physics and superconductivity.

Edward D. DeLamater has joined the staff of the Department of Dermatology and Syphilology, University of

Pennsylvania, as associate research professor. He will act as director of research in the Department and will also develop a Mycology Laboratory.

Edward C. Johnson, of the State College of Washington, will become dean emeritus of the College of Agriculture and director emeritus of the Washington Agricultural Experiment Stations on January 1. On that date, he will have completed 30 years as dean of Agriculture, during which time he also served as director of the experiment stations for 27 years, a post he relinquished in January 1946.

Stanley P. Swenson, chairman of the Department and Division of Agronomy, will become the new dean of the College of Agriculture.

Paul Edmund Hering, formerly of Carthage College, has joined the faculty of Southwestern Institute of Technology, Weatherford, Oklahoma, as professor of pharmacology.

Visitors to U. S.

Otto H. Warburg, whose arrival in this country was reported in *Science* (July 30, p. 101), is pictured on this week's cover in his laboratory at the University of Illinois. The famous German biochemist and Nobel Prize winner is visiting professor at the University during 1948-49.

R. P. Van de Kastele, president of N. V. Technisch Chemisch Adviesbureau, i.o., Eindhoven, Netherlands, is in the United States until early in December. He can be reached in care of the U. S. associated firm, Foster D. Snell, Inc., 29 West 15th Street, New York 11, New York.

Grants and Awards

Nobel Prizes for 1948, amounting to about \$44,000 each, have recently been awarded to: **P. M. S. Blackett**, Langworthy professor of physics at Manchester University since 1937, for his improvements of the Wilson cloud chamber and his discoveries in the field of cosmic rays; **Arne Tiselius**, professor at Uppsala University, for his biochemical discoveries and his invention of laboratory apparatus used widely for the separation of proteins;

and **Paul Mueller**, of Basle, Switzerland, in the field of medicine, for his discovery of the insect-killing powers of DDT. Dr. Mueller is affiliated with the Geigy Drug Industries.

Harold F. Sherwood, of the Kodak Research Laboratories, received the Rodman Medal at the recent 93rd Annual International Exhibition of the Royal Photographic Society, held in London. The medal, named after **George H. Rodman**, a pioneer in radiography, is awarded for outstanding work in photomicrography, radiography, and other scientific fields. Mr. Sherwood's prize-winning exhibit, "Microradiographs of Thin Sections of Metal, Wood, and Paper," is the first American entry to be selected for this honor since the award was established in 1935.

I. M. Kolthoff, head of the Division of Analytical Chemistry, University of Minnesota, has been selected to receive the William H. Nichols Medal of the New York Section of the American Chemical Society for 1949. The Nichols Medal, one of the highest honors in chemical science, goes to Prof. Kolthoff for his world leadership in the development of modern analytical chemistry. Presentation of the medal will be made at a joint meeting of the New York Section, American Chemical Society, and the American Section, Society of Chemical Industry, at the Hotel Pennsylvania on March 11, 1949.

J. Edward Vivian, associate professor of chemical engineering at Massachusetts Institute of Technology, and **Roy P. Whitney**, research associate at the Institute of Paper Chemistry, have been chosen to receive the Junior Award of the American Institute of Chemical Engineers for their work on the absorption of chlorine in water. Presentation of the award took place at a special Awards Dinner held in conjunction with the annual meeting of the American Institute of Chemical Engineers in New York City, November 7-10.

The Frank Forrest Award for the best technical paper on glass published in this country during 1947 was presented to **Howard R. Swift**, of the Research Department of Libbey-Owens-Ford Glass Company, at the

recent meeting of the Glass Division of the American Ceramic Society held in Bedford Springs, Pennsylvania. In addition to carrying with it considerable prestige in the industry, the award consists of \$100 in cash, the gift of the Preston Laboratories, Butler, Pennsylvania.

The College of Medicine, University of Illinois, has received a renewed grant of \$2,000 from Smith, Kline and French, of Philadelphia, in support of research on the effects of amines in experimental renal and other hypertension. The research will be conducted by E. A. Ohler, under the supervision of G. E. Wakerlin, head of the Department of Physiology.

Elmer D. Merrill, director emeritus of the Arnold Arboretum, Harvard University, has been made an Officer in the Netherlands Order of Orange Nassau in recognition of his contributions to the knowledge of the Malaysian flora, his stimulating interest in Dutch and Indonesian botany, and his efforts to promote international cooperation in botany. The award was made on October 28 in a ceremony at the Netherlands Consulate in Boston in the presence of Mrs. Merrill and Frans Verdoorn, who represented the biological institutions of the Netherlands Indies.

Fellowships

The Lalor Foundation Fellowship Program at the Marine Biological Laboratory, inaugurated in 1947, will continue in 1949. Postdoctoral summer fellowships in the fields of biophysics, biochemistry, and physiological chemistry will be available. The fellowships are designed primarily to aid promising young investigators who can make maximum use of the facilities and opportunities provided at the Laboratory. In addition to laboratory facilities, the grants are intended to cover approximately the living expenses of the investigators at Woods Hole and necessary traveling expenses to and from Woods Hole. The committee administering the fellowships consists of Eric Ball, Kenneth Cole (chairman), Daniel Mazia, Charles Packard, and A. K. Parpart. Inquiries and applications should be addressed to the director of the Marine

Biological Laboratory, Woods Hole, Massachusetts, and applications should be received by December 31, 1948.

Colleges and Universities

The Graduate School, Agricultural and Mechanical College of Texas, recently announced the lecturers for its 1948-49 series. James B. Sumner, of Cornell University, spoke on November 3, on "The Relationship of Enzymes to Life." Others who will speak at the College include Sumner T. Pike, of the Atomic Energy Commission, December 6; Hugh L. Dryden, director of aeronautical research for the NACA, February 28; M. King Hubbert, associate director of exploration and production research, Shell Oil Company, who will speak sometime in March; and E. C. Stakman, chief of the Division of Plant Pathology and Botany, University of Minnesota, whose lecture will be given sometime during March or April.

Wayne University has announced the addition of four assistant professors to its Chemistry Department staff: James S. Fritz, formerly of the University of Illinois; Karl H. Gayer, a lecturer in chemistry at Ohio State since 1944; Calvin L. Stevens, who recently held a postgraduate fellowship at Massachusetts Institute of Technology; and Dan Trivich, who has been on the staff of the United Chromium Company.

The new Yale Child Study Center, which will include the Yale Clinic of Child Development established by Arnold Gesell, who retired as professor of child hygiene and director of the Clinic on July 1, will have as its director Milton J. E. Senn, formerly director of the Institute of Child Development and professor of pediatrics and psychiatry at Cornell University Medical College. In addition to a guidance nursery and film library, the Center will provide clinical resources for students from professional disciplines interested in the growth, development, behavior, and personality of human beings. Facilities for graduate work and research will also be expanded. Dr. Senn, who will be Sterling professor of pediatrics and psychiatry, has pioneered in emphasizing the relationship between these two fields.

Dr. Gesell, author of a number of well-known volumes on child psychology and growth, will continue his research at the University and will direct a Child Vision Project supported by a grant from the American Optical Company. Work on child vision has been carried on for the past four years as a part of the general program of the Child Development Clinic.

The Arthur Dehon Little Memorial Lectureship, established in 1944 at Massachusetts Institute of Technology with funds donated by Arthur D. Little, Inc., in memory of its founder, but not inaugurated until 1946, when the speaker was Sir Edward Appleton, followed last year by J. Robert Oppenheimer, will be continued this year, with Robert E. Wilson as the lecturer. Dr. Wilson, chairman of the Board of the Standard Oil Company of Indiana, whose topic will be "Research on a Single Reaction and Its Social Effects," is a graduate of M. I. T. and former director of the Research Laboratory of Applied Chemistry there. The lecture will be given in Walker Memorial on November 23 at 8:30 P. M.

Meetings and Elections

The Florida Academy of Sciences will hold its annual meeting November 19-20 at the University of Miami, Coral Gables, Florida. Papers will be presented on various phases of the biological, physical, and sociological sciences, and field trips are planned to marine habitats and the new Everglades National Park. H. H. Sheldon, of the University of Miami, is acting as chairman of the Committee on Arrangements.

The American Mathematical Society announces three forthcoming meetings: November 26-27 at the Museum of Science and Industry, Chicago; November 27 at the University of California, Los Angeles; and December 28-30, the 55th annual meeting, scheduled for Columbus, Ohio, at the Ohio State University. Invitation speakers at the Chicago meeting will include P. R. Halmos and Saunders MacLane, both of the University of Chicago, who will speak on "Measurable Transformations" and "Duality for Groups," respectively. At the Los Angeles meeting, Herbert Busemann,

of the University of Southern California, will deliver an address on "The Geometry of Finsler Spaces."

Hermann Weyl, of the Institute for Advanced Study, will deliver the 22nd Josiah Willard Gibbs Lecture at the Columbus meeting; Prof. Weyl's topic will be "Ramifications, Old and New, of the Eigen-Value Problem." Invitation speakers and their topics will include: A. S. Besicovitch, of Cambridge University and the University of Pennsylvania, "Parametric Surfaces"; Lamberto Cesari, of the University of Bologna, the Institute for Advanced Study, and Ohio State University, "Area and Representation Surfaces"; and Mark Kac, Cornell University, "Probability Methods in Some Problems of Analysis and Theory of Numbers." Following the presentation of the Bôcher Memorial Prize, Einar Hille, of Yale University, president of the Society, will deliver the presidential address entitled "Lie Theory of Semigroups of Linear Transformations."

The 1948 national convention of The Society of The Sigma Xi will be held in the Hotel Cleveland, Cleveland, Ohio, November 26-27. At the opening session on Friday evening, Carl D. Anderson, of the California Institute of Technology, Bradley M. Patten, of the University of Michigan, and Arnold Gesell, of Yale University, will speak and show films. J. W. Barker, president of Research Corporation, will act as chairman.

On Saturday afternoon, November 27, following the Sigma Xi Convention, the first convention of RESA, The Scientific Research Society of America, will be held.

The Gerontological Society will hold its annual scientific meeting January 8-9 at the Hotel Commodore, New York City. Correspondence on scientific papers should be addressed to Nathan W. Shock, City Hospital, Baltimore 2, Maryland.

The fourth annual Analytical Symposium, sponsored by the Analytical Division, Pittsburgh Section of the American Chemical Society, will be held at the Hotel William Penn on January 20-21. An innovation of the Symposium will be a comprehensive

exposition of new analytical tools. D. P. Bartell, chief chemist of the Allegheny Ludlum Steel Corporation, Brackenridge, Pennsylvania, will be chairman.

The newly formed Utah Chapter of the American Society for Metals is the 77th chapter to join the national organization. More than 100 people attended the initial organization meeting at which W. C. Dyer, of the Geneva Steel Company, was elected chairman; Don Rosenblatt, of the American Foundry & Machine Company, vice-chairman; and H. E. Flanders, professor of metallurgy at the University of Utah, secretary-treasurer.

NRC News

The Food and Nutrition Board held its 33rd meeting in the National Academy of Sciences Building in Washington, October 29-30, with Frank G. Boudreau presiding. Featured speakers included Norman Wright, of England, current adviser on nutrition to the Ministry of Health, and Major Gen. H. M. Whitty, who is in charge of feeding the British Army.

Duncan Wall gave the Board a preview of the forthcoming FAO Conference, to be held in Washington beginning November 15.

At a dinner meeting in the Mayflower Hotel, James McGrath, of the Newfoundland Department of Health and Welfare, spoke on nutrition conditions in Newfoundland observed as the result of Nutrition Surveys made by a group of U. S. physicians and nutritionists during 1944 and again in 1948.

Special subjects of public interest considered by the Board during these sessions included: (1) recommendations to be made by the Board's representative in the forthcoming FSA hearings on definitions and standards for bread; (2) modification of the Food, Drug, and Cosmetic Act to the effect that chemicals added to foods during processing should undergo the same rigid tests for nontoxicity as are applied to new drugs, and that their addition should improve rather than lessen the nutritional quality of the food product. A special Committee on Food Protection was appointed to survey this situation; (3) provision of

additional calcium in U. S. diets; (4) proposal and approval by the Board of establishment of a committee to study anthropometric standards of height-weight in relation to nutritional requirements.

The Board approved and has ready for publication monographs on dental caries, clinical nutrition, and nutrition surveys. It adopted a resolution favoring Federal legislation requiring the iodization of all table salt.

Finally, the Board prepared a statement, to be released in connection with the FAO Conference, on the food situation as of November 1948, with recommendation of measures to alleviate current food shortages and provide for future exigencies in relation to prevailing economic conditions.

Deaths

Robert Tracy Jackson, 87, paleontologist and former curator of fossil echinoderms at the Museum of Comparative Zoology, Harvard University, died October 24 at his Peterborough, New Hampshire, home.

Charles Morley Wenyon, 70, authority on tropical medicine and distinguished protozoologist, died October 24 at his London, England, home. Author of the standard work, *Protozoology*, Dr. Wenyon was for many years associated with the Wellcome Research Institution and Foundation, variously holding the positions of director of research in the tropics, director-in-chief of the Wellcome Bureau of Scientific Research, director of the Research Institution, and, finally, director of research in the Wellcome Foundation.

Charles E. Bonine, 74, widely-known consulting engineer and former associate director of the Franklin Institute, died in Chestnut Hill Hospital, Philadelphia, on October 25. Early in his career Mr. Bonine had originated processes for the textile, chemical, and metal industries and was one of the first designers of a motor starter for automobiles.

Wesley Clair Mitchell, 74, internationally known authority on economics, died October 29 in the New York Hospital, New York City, after a brief illness. Member of the research staff

of the National Bureau of Economic Research, as well as its director for many years, and professor emeritus of economics at Columbia University, Dr. Mitchell had also served as president of the AAAS in 1938.

A bibliography listing 255 atomic energy reports and supplementing a list issued earlier this year has just been released by the Office of Technical Services, Department of Commerce. This list (PB87782-S) and the February 1948 list (PB87782), including both American and British reports, are available from OTS for \$.50 and \$.75, respectively.

The world's first mobile betatron, a 10,000,000-volt X-ray generator the rays of which can penetrate 16 inches of steel, is being installed at the Naval Ordnance Laboratory, White Oak, Maryland. The GE-built machine is to be placed in operation sometime after the first of the year. The first industrial machine emitting rays which will penetrate steel thicker than 12 inches is also unique in that it may be aimed in any direction. With this powerful machine, which will be housed in a special building surrounded with 3-foot-thick reinforced concrete walls to insure protection of personnel, studies will be made of the complicated internal assemblies of mines, torpedoes, and other ordnance pieces of equipment.

A Seminar on High Polymers is currently being presented by the National Bureau of Standards, under the chairmanship of Robert Simha, Division of Organic and Fibrous Materials. Future lecture dates, titles, and speakers are as follows: January 6, "Rheological Properties of Polystyrene," R. S. Spencer, Dow Chemical Company; February 24, "Some Aspects of Dynamic Rubber-like Elasticity," A. W. Nolle, University of Texas; March 3, "Reactions of Free Radicals With Hydrocarbons," E. W. R. Steacie, National Research Council; April 7, "Variables Which Influence the Properties of Chemical Rubbers Prepared by Emulsion Polymerization," C. F. Fryling, Phillips Petroleum Company; and May 5, "The Chemistry of Some Derived Polymers of the Vinyl Series," W. O.

Kenyon, Eastman Kodak Company. The lectures are open to the public.

A Microbiological Institute has been established as part of an extensive realignment of the medical research program at the National Institutes of Health. Together with the Experimental Biology and Medicine Institute, established last December, the new unit will deal with research in such diseases as malaria, polio, typhus, and the common cold as well as basic research studies in physics, chemistry, nutrition, metabolism, and pathology. The new Institute will also do work in the establishment of standards for the safety, purity, and potency of sera, antitoxins, and vaccines for human use. Victor H. Haas will be the director of the new organization.

Make Plans for—

6th Annual Pittsburgh Conference on X-Ray and Electron Diffraction, November 19–20, Carnegie Institute of Technology, Pittsburgh, Pennsylvania.

American Physical Society, 288th meeting, November 26–27, University of Chicago, Chicago, Illinois.

American Mathematical Society, November 26–27, Chicago, Illinois.

American Society of Mechanical Engineers, 69th annual meeting, November 28–December 3, Hotel Pennsylvania, New York City.

Society of American Foresters, annual meeting, December 16–18, Statler Hotel, Boston, Massachusetts.

Recently Received:

The sugar molecule. A quarterly review of sugar research, available without charge from the Sugar Research Foundation, Inc., 52 Wall Street, New York City 5.

Non-self-governing territories: summaries and analysis of information transmitted to the Secretary-General during 1947. United Nations Publications; Sales No.: 1948, VIB, 1. Purchasable through International Documents Service, Columbia Univ. Press, \$4.00.

Science and Appliance. Published monthly except July and August by

the Ohio State University Research Foundation. (4 pp.)

The effectiveness of science teaching: a forum by the AAAS Cooperative Committee on the Teaching of Science and Mathematics (16 pp.). Recording available on loan basis from K. Lark-Horovitz, Department of Physics, Purdue University.

Announcer of scientific equipment (16 pp.). Available from Howe & French, Inc., Boston 10.

Statistical Bulletin of the Metropolitan Life Insurance Company, September 1948, featuring "Mortality of Medical Specialists."

L & N pneumatic control (Catalog ND4B, 1948), featuring Speedomax and Micromax. Available from Leeds & Northrop Company, 4934 Stenton Avenue, Philadelphia 44.

A record of pilchard eggs and larvae collected during surveys made in 1939 to 1941, by Elbert H. Ahlstrom. Fish and Wildlife Service Special Scientific Report No. 54.

The relation of patents to the anti-trust laws, by George E. Folk. Reprinted from "The Patent System: II," published as the Spring 1948 issue of *Law and Contemporary Problems*, Duke University Law School, Durham, North Carolina.

Nutrition Reviews, Vol. 6, No. 10, October 1948. Published monthly by The Nutrition Foundation, Inc., Chrysler Building, New York City.

Publications of the staff, October 1, 1946–February 29, 1948. Bulletin of the California Institute of Technology, Vol. 57, No. 2, June 1948.

Sci-en-tech news, October 1948. Published by the Chicago Technical Societies Council, 53 W. Jackson Boulevard, Chicago 4.

The anthracite forest region: a problem area, by F. A. Ineson and M. J. Ferree. (U. S. Dept. of Agriculture, Misc. Publ. 648.) Washington, D. C.: U. S. Government Printing Office, 1948. \$4.00.

The National Health Council—what it is. Leaflet available from NHC, 1790 Broadway, New York City 19.

Monthly digest of technical papers (mimeographed; 5 pp.), issued by the U. S. Steel Corporation, 429 Fourth Avenue, Pittsburgh 19.