

- W. H. Bassett, American Brass Co., Waterbury, Conn.
A. V. Bleining, Homer-Laughlin China Co., Newell, W. Va.
Marston T. Bogert, Columbia University.
Cecil E. Boord, Ohio State University.
D. B. Bradner, Wilmington, Del.
Harold C. Bradley, University of Wisconsin.
W. C. Bray, University of California.
G. A. Burrell, Burrell Testing Laboratories, Pittsburgh, Pa.
F. K. Cameron, Salt Lake City, Utah.
E. M. Chamot, Cornell University.
N. K. Chaney, National Carbon Co., Cleveland, Ohio.
J. B. Conant, Harvard University.
F. G. Cottrell, Fixed Nitrogen Research Laboratory, Washington, D. C.
G. O. Curme, Jr., Carbide & Carbon Chemicals Corp., South Charleston, W. Va.
D. J. Demorest, Ohio State University.
C. R. Downs, New York, N. Y.
A. C. Fieldner, Bureau of Mines, Pittsburgh, Pa.
E. C. Franklin, Stanford University.
F. C. Frary, Aluminum Co. of America, New Kensington, Pa.
J. C. W. Frazier, Johns Hopkins University.
W. C. Geer, Goodrich Company, Akron, Ohio.
H. W. Gillett, Bureau of Standards.
R. A. Gortner, University of Minnesota.
B. C. Goss, Lake Erie Glass Co., Cleveland, Ohio.
W. D. Harkins, University of Chicago.
R. T. Haslam, Massachusetts Institute of Technology.
Yandell Henderson, Yale University.
C. H. Herty, Synthetic Organic Chemical Mfrs. Assn., New York, N. Y.
Arthur D. Hirschfelder, University of Minnesota.
H. N. Holmes, Oberlin College.
Henry Howard, Cleveland, Ohio.
N. H. Ittner, Colgate & Company, New York, N. Y.
D. D. Jackson, Columbia University.
John Johnston, Yale University.
Lauder W. Jones, Princeton University.
F. G. Keyes, Massachusetts Institute of Technology.
M. Kharasch, University of Maryland.
Victor Lenher, University of Wisconsin.
Dr. O. A. Leutwiler, University of Illinois.
G. N. Lewis, University of California.
W. Lee Lewis, Institute of American Meat Packers.
Arthur D. Little, Cambridge, Mass.
E. K. Marshall, Johns Hopkins University.
E. Mallinckrodt, Jr., Mallinckrodt Chemical Works, St. Louis, Mo.
Harlan S. Miner, Welsbach Co., Gloucester, N. J.
H. F. Moore, University of Illinois.
Hugh K. Moore, The Brown Company, Berlin, N. H.
Charles E. Munroe, Bureau of Mines.
William MacPherson, Ohio State University.
J. F. Norris, Massachusetts Institute of Technology.
J. C. Olsen, Polytechnic Institute, Brooklyn, N. Y.
W. A. Patrick, Johns Hopkins University.
W. A. Peters, Jr., E. B. Badger & Sons Co., Boston, Mass.
A. H. Pfund, Baltimore, Md.
L. V. Redman, Bakelite Corporation, Bloomfield, N. J.
E. E. Reid, Johns Hopkins University.
Allen Rogers, Pratt Institute, Brooklyn, N. Y.
Walter Rautenstrauch, New York, N. Y.
R. Norris Shreve, New York, N. Y.
Bradley Stoughton, Bethlehem, Pa.
E. C. Sullivan, Corning Glass Works, Corning, N. Y.
John E. Teeple, New York, N. Y.
Frank P. Underhill, Yale University.
D. D. Van Slyke, Rockefeller Institute.
Edward Washburn, Bureau of Standards.
E. R. Weidlein, Mellon Institute.
H. B. Weiser, Rice Institute.
Gerald L. Wendt, Dean, Pennsylvania State College.
T. L. Wheeler, c/o A. D. Little, Inc., Cambridge, Mass.
F. C. Whitmore, Northwestern University.
W. R. Whitney, General Electric Company.
A. C. Willard, University of Illinois.
F. W. Willard, Western Electric Co., Chicago, Ill.
R. E. Wilson, Standard Oil Company of Indiana.
James R. Withrow, Ohio State University.
- The following constitute the American Chemical Society's Advisory Committee to the Chemical Warfare Service:
- W. D. Bancroft, Ithaca, N. Y.
Bradley Dewey, Dewey & Almy Chemical Co., Cambridge, Mass.
F. M. Dorsey, Metal Protection Co., Cleveland, Ohio.
H. E. Howe, Mills Building, Washington, D. C.
Reid Hunt, Harvard Medical School.
L. C. Jones, New York, N. Y.
E. P. Kohler, Harvard University.
A. B. Lamb, Harvard University.
W. K. Lewis, Massachusetts Institute of Technology.
A. S. Loevenhart, University of Wisconsin.
C. L. Reese, E. I. duPont de Nemours Co., Wilmington, Del.
G. A. Richter, c/o Brown Co., Berlin, N. H.
Julius Stieglitz, University of Chicago.
L. T. Sutherland, Carbaloid Products Corp., Hastings-on-Hudson, N. Y.
Wm. H. Walker, Bridgton, Maine.

SCIENTIFIC NOTES AND NEWS

DR. WILLIAM T. HORNADAY, director of the New York Zoological Park, retires on June 1 from the position he has held for thirty years. His successor will be Dr. W. Reid Blair, at present assistant director. Dr. Hornaday will continue his association with the park as director emeritus.

PROFESSOR H. A. LORENTZ, of the University of Leiden, will be in residence at Cornell University during the fall of 1926 until the Christmas recess and will deliver a course of lectures on the Schiff Foundation dealing with selected topics in the field of theoretical physics. After leaving Cornell, Professor Lorentz will spend the winter quarter at the California Institute at Pasadena.

DR. F. H. KNOWLTON, of the United States Geological Survey, has been elected an honorary member of the Paleontological Society of Russia.

AMBROSE SWASEY, past-president and honorary member of The American Society of Mechanical Engineers, was the guest of honor at a testimonial dinner tendered by the Cleveland section of the society at the Hotel Cleveland, Cleveland, on May 14. Charles F. Brush, electrical inventor, presided. The principal address was delivered by Professor Dexter S. Kimball, dean of the School of Engineering, Cornell University, president of the American Engineering Council. J. Rowland Brown, chairman of the Cleveland section, read a large number of messages from eminent scientists, engineers and industrialists. James H. Herron, chairman of the committee in charge of the dinner, then presented Mr. Swasey with a testimonial bound in leather and signed by those present at the dinner.

PRESENTATION to the Franklin Institute of a portrait of Dr. Samuel Insull, president of the Commonwealth Edison Co., Chicago, and donor of the Franklin medal, was made in the hall of the institute on May 21. Speeches were made by B. E. Sunny, Howard McClenahan, secretary of the institute, and W. C. L. Eglin, president, to which Dr. Insull replied.

ABOUT one hundred physicians dined at the Harvard Club, Boston, on May 7, to honor Dr. Edward W. Taylor, James Jackson Putnam professor of neurology at the Harvard Medical School, on his sixtieth birthday. Dr. Harvey Cushing acted as toastmaster and informal remarks were made by Dr. C. Macfie Campbell and Dr. Fred B. Lund. Dr. J. W. Courtney read a poem.

DR. ROBERT DEC. WARD, professor of climatology at Harvard University, has been awarded the gold medal for 1926 of the Harvard Travellers Club.

DR. WALTER M. SCOTT, chief chemist for Cheney Brothers, silk manufacturers, has been awarded a prize of \$100 by the American Association of Textile Chemists and Colorists, for his paper on "The Application of Hydrogen-Ion Determinations to Textile Problems."

THE Order of the Red Banner of Labor, said to be the highest decoration in the Soviet Republic, has been conferred on Professor S. M. Nikanorow, director of the Microbiological Institute at the University of Saratov, for his work in the control of epidemics.

THE degree of Doctor of Laws will be conferred on the following on the occasion of the bicentenary celebrations of the Faculty of Medicine of the University of Edinburgh in June: Dr. A. Balfour, di-

rector of the London School of Hygiene and Tropical Medicine; Dr. R. Howden, professor of anatomy, Durham; Sir George Newman, Ministry of Health, London; Dr. Alexander Primrose, professor of clinical surgery, University of Toronto; Sir John Robertson, professor of public health, University of Birmingham; Dr. Ralph Stockman, professor of materia medica and therapeutics, University of Glasgow; Dr. A. L. Turner, president of the Royal College of Surgeons, Edinburgh; Sir Norman Walker, formerly senior lecturer on diseases of the skin, Edinburgh, and Mr. J. T. Wilson, professor of anatomy, University of Cambridge.

THE University of St. Andrews will confer the honorary degree of LL.D. on Dr. E. F. Armstrong, director of the British Dyestuffs Corporation; Dr. George Forbes, distinguished by his pioneer work in electrical engineering and popular writings on astronomy; Mr. E. S. Harkness, of New York, founder of the Commonwealth Fund, and Professor E. T. Whittaker, professor of mathematics and dean of the Faculty of Arts in the University of Edinburgh. The degrees will be conferred at the graduation ceremonial to be held on June 29.

DR. VICTOR C. JACOBSON, professor of pathology in Albany Medical College, has received a grant of \$1,200 from the committee on scientific research of the American Medical Association, for further experimental studies in autotransplantation of endometrial tissue.

A GRANT of 4,000 francs has been made by the French Academy of Sciences, to Father Lejay, of the Zi-ka-wei Observatory, in order that he may complete his investigations of atmospheric electricity.

THE following officers have been elected by the Alabama Academy of Science, which met in Birmingham, on March 26 and 27, for the year 1926-27: *President*, Stewart J. Lloyd; *First Vice-president*, Walter C. Jones; *Second Vice-president*, John F. Duggar; *Secretary-treasurer*, John R. Sampey.

AT the annual meeting of the Illinois State Academy of Science new officers for the year were elected as follows: Willard N. Clute, *president*; Dr. Mary M. Steagall, *first vice-president*, and Dr. L. J. Thomas, *secretary*. The other officers were reelected.

AT the recent annual meeting of the Sigma Xi Alumni Association of the University of Pittsburgh, the following executive officers were unanimously reelected for the year 1926-27: Professor K. D. Swartzel, *president*; Dr. O. H. Blackwood, *vice-president*; Dr. Richard Hamer, *secretary-treasurer*.

B. C. EDGAR, vice-president and general manager of the Tennessee Electric Power Company, has been

elected president of the Southeastern division of the National Electric Light Association.

THE National Medical Association of China at its sixth biennial conference held in Shanghai in February, 1926, elected as its president, to serve for the next two years, Dr. Jui-heng Liu, medical superintendent of the Peking Union Medical College.

RAYMOND L. DITMARS, curator of reptiles and assistant curator of animals in the New York Zoological Park, has been promoted to the position of curator of mammals.

ACCORDING to *Terrestrial Magnetism*, Wallace M. Hill, magnetic observer, relieved Lieutenant R. J. Auld of the charge of the new magnetic observatory near San Juan, Porto Rico, early in March.

DR. HARALD U. SVERDRUP, in charge of the scientific work of the Amundsen Arctic expedition, aboard the *Maud*, 1918-1925, has been appointed research associate of the Carnegie Institution of Washington for the period March-August, 1926, in order to enable him, in cooperation with the Department of Terrestrial Magnetism, to complete the reduction and publication of his observations, chiefly in terrestrial magnetism and electricity.

DR. C. J. HUMPHREY, of the Forest Products Laboratory, U. S. Forest Service, Madison, has been appointed to the position of mycologist, Bureau of Science, Manila, Philippine Islands, where he will direct the research work of the bureau in mycology and plant pathology. He will sail from San Francisco on May 29 to assume his new duties.

DR. W. A. TAYLOR, research chemist for E. I. duPont de Nemours and Co., has been elected president of the LaMotte Chemical Products Co., of Baltimore.

PROFESSOR E. E. FAIRBANKS, of the U. S. Bureau of Mines, stationed at Reno, Nevada, has been appointed to the sales staff of E. Leitz, Inc., manufacturers of laboratory apparatus and supplies.

DR. RALPH G. MILLS, head of the department of pathology, University of Colorado School of Medicine, has resigned to accept a position on the permanent staff in pathology of the Mayo Clinic, Rochester, Minn., which carries with it a full professorship in pathology at the University of Minnesota.

At the Ohio Agricultural Experiment Station, several appointments have been made in the department of botany and plant pathology for the summer of 1926. Dr. W. G. Stover, professor of botany in charge of plant pathology at the Ohio State University, is spending a six months' leave conducting research on several phases of the mosaic diseases of

plants. Dr. J. D. Sayre, also of the university, has been appointed half-time assistant at the station and will investigate root rots. Mr. H. A. Runnels, of the university, holds the Grasselli Chemical Company fellowship. Dr. Lex R. Hesler, of the University of Tennessee, will work for three months on some special spraying and dusting experiments. Dr. J. D. Wilson, recently assistant in plant physiology at the Johns Hopkins University, has been appointed assistant pathologist, effective July 1.

THE Buenos Aires correspondent of the *Journal* of the American Medical Association writes that the recent and untimely death of Dr. Juana Petrocchi, noted for her entomologic work, has left vacant the position of chief of the entomologic division of the national department of health. Through the agency of the Rockefeller Foundation, Mr. William Shannon, an American, has been appointed to replace her. Dr. E. del Ponte will aid him in his studies of insects as disease carriers.

DR. SAMPAIO FERRAZ, director of the Brazilian Meteorological Service, will be on leave from April to September on account of his health. In his absence the service will be in charge of Dr. Francisco Souza.

DR. HERBERT J. SPINDEN, of the Mason-Spinden Expedition to Central America, which left last January, arrived in New York on May 23 with a collection of Indian materials from North Honduras and the islands of that coast.

DR. A. E. VERRILL, emeritus professor of zoology at Yale University, has returned to New Haven from the Hawaiian Islands with a large collection of marine fauna.

DR. ALFRED P. DACHNOWSKI, of the U. S. Bureau of Plant Industry, sailed for Europe on May 19 for the purpose of comparing areas of peat in other countries with different peatlands in this country. He will visit the experiment stations and institutes of several countries and make a study of the progress in peat investigations and peatland agriculture.

DR. CARL J. WIGGERS, professor of physiology in the School of Medicine, Western Reserve University, will spend the summer in Europe. Early in July he will attend physiological meetings at Oxford University. In August he will go to the twelfth annual International Congress of Physiologists, where he will present a paper.

PROFESSOR C. L. STARR, of the University of Toronto Medical School, recently returned from the Harvard Medical School, where he assumed the chair of surgery for four weeks during the absence of Professor Cushing in Europe.

DR. JOHN M. COULTER, of the Boyce Thompson Institute for Plant Research, recently delivered a lecture entitled "Original Explorations of Yellowstone Park," before the West Virginia Scientific Society and the Sigma Xi Club of West Virginia University.

DR. W. V. BINGHAM, director of the Personnel Research Federation, gave an address under the auspices of the Graduate College of the University of Iowa on "Personality in Vocation," on May 17.

DR. S. O. MAST, professor of zoology in the Johns Hopkins University, recently gave two lectures in St. Louis; one on "The Nature of Science" before the Johns Hopkins alumni, and the other on "Structure and Locomotion in Amoeba" before the faculties and graduate students of Washington and St. Louis Universities.

DR. E. M. SPIEKER, assistant professor of geology at Ohio State University, addressed the geological society at the University of Cincinnati, on April 29, on problems of Cretaceous stratigraphy and sedimentation.

THE twenty-fourth Rush Society lecture was given at the College of Physicians, Philadelphia, by Dr. W. E. Dixon, of Cambridge, England, on "The Chemistry and Significance of the Pituitary Gland," on May 14. The twenty-fifth Rush Society lecture was given by Dr. H. M. Marvin, assistant professor of medicine at Yale University Medical School, on "The Significance and Choice of Diuretics for Cardiac Patients," on May 18.

It is proposed to establish a Ralph Winfred Tower Memorial Fund of \$100,000 or more to be used for the library of the American Museum of Natural History. Dr. Tower, who died in January, served as museum librarian for twenty-three years, during which he assembled what is regarded as the finest collection of books on natural history in the country.

At the Detroit meeting of the American Public Health Association Dr. Victor C. Vaughan proposed a memorial in honor of Professor Sedgwick. This will take the form of a medal which may be awarded from time to time for distinguished service in public health. Another effort is being made by students and friends of Professor Sedgwick which will take the form of a lectureship in his honor.

PROFESSOR JOHN J. FLATHER, head of the department of mechanical engineering at the University of Minnesota, died on May 14, aged sixty-four years.

ROSCOE E. DOOLITTLE, chief of the central district of the U. S. Bureau of Chemistry, died on April 25, aged fifty-two years.

HENRY BROUGHAM GUPPY, F.R.S., known for his work in botany and geology, has died aboard the

French steamer *El Kantara* at Martinique in the West Indies, aged seventy-two years.

THE American Society for Testing Materials will meet in Atlantic City from June 21 to 25, under the presidency of W. H. Fulweiler, chemical engineer for the United Gas Improvement Co., Philadelphia.

THE fiftieth annual session of the American Association for the Study of the Feeble-Minded will be held at the King Edward Hotel, Toronto, from June 3 to 5. Dr. A. R. T. Wylie, of Grafton, N. D., is president and Dr. Howard W. Botter, of Thiells, N. Y., secretary-treasurer.

PROFESSOR J. J. WILLAMAN, secretary of the division of biological chemistry of the American Chemical Society, sends the following information regarding the Tulsa meeting: The division of biological chemistry joined with the division of agricultural and food chemistry in the symposium on cotton and its products. Two of the papers on that symposium were contributed from the division. These were "Gossypol and Cottonseed Meal Poisoning," by E. W. Schwartz, and "Feeding Value of Cottonseed Meal," by G. S. Fraps. In the general program three out of the ten papers dealt with vitamins. It was announced that the treatment of milk with ultra-violet light increases its potency in vitamin D, but it destroys much of the vitamin A. The process then would be of questionable value. Different samples of yeast vary considerably in their vitamin B content, a fact which must be taken into consideration before a substance such as vitamin E can be said to exist, according to Parks and Nelson, of the Iowa Experiment Station.

THE United States Civil Service Commission announces an open competitive examination for mathematicians, receipt of applications for which will close on June 22. The examination is to fill a vacancy at the Aberdeen Proving Ground, Aberdeen, Maryland, and vacancies occurring in positions requiring similar qualifications throughout the United States. The entrance salary for the position at the Aberdeen Proving Ground is \$4,000 a year. In the Departmental Service, Washington, D. C., the entrance salary is \$3,800 a year.

ACCORDING to the terms of the will of the late Wood Fosdick, of New York, who died on April 6, the American Museum of Natural History is named as residuary legatee of the estate, which it is believed will add nearly \$1,000,000 to the endowment fund.

PLANS for the establishment of a training school for museum workers were announced on May 17, at the opening of the twenty-first annual conference of the American Association of Museums in the American Museum of Natural History. Chauncey J. Hamlin, of Buffalo, president, presided at the session.

The school will be operated from the headquarters of the association and will prepare directors and curators for museum service. At its inception there will be five art students who will travel to various museums of the country, studying the work of group building, mounting, case building and cataloging and the specialties required in museum supervision. The school will enroll only graduates of universities.

A GIFT of \$100,000 to the Engineering Foundation's research endowment fund by Edward Dean Adams, president of the Niagara Power Company, was announced at a meeting of the foundation on May 19, at the Union League Club. The gift of Mr. Adams, who was guest of honor at the meeting, will be added to the research endowment fund, which now totals \$650,000. His was the third large gift to that fund. The other two were \$500,000 by Ambrose Swasey, telescope manufacturer, of Cleveland, Ohio, and \$50,000 under the will of Henry R. Towne. The Engineering Foundation has set \$20,000,000 as the goal for its research endowment fund, which is to be used in promoting scientific research in engineering in the universities and industries of the United States. The foundation voted to allot \$30,000 for a three-year program of research in blast furnace slags at the University of Wisconsin and \$10,000 to Johns Hopkins University for two years of research in electrical insulation under the direction of Professor J. B. Whitehead.

UNIVERSITY AND EDUCATIONAL NOTES

DARTMOUTH COLLEGE has received from an anonymous donor \$1,000,000 to be used for the construction of a new library.

COMPLETION of the first year of the fifteen-year drive of the University of Pennsylvania for an endowment fund of \$45,650,000 has resulted in subscriptions amounting to \$7,500,000; subscriptions were received during the year from 10,868 persons, of whom 10,467 were former graduates or students.

GEORGE F. BAKER, New York banker, has given \$30,000 for use in the Baker laboratory of chemistry at Cornell University, which he gave to the university several years ago at a cost of more than \$1,500,000.

CLARENCE MACKAY, of New York, has given \$100,000 for the enlargement of the Mackay School of Mines at Reno, Nevada. The gift is in addition to a new science building Mr. Mackay already has promised to the institution.

DR. FREDERICK G. KEYES, director of the research laboratory at Massachusetts Institute of Technology, will join Brown University next September as consult-

ing professor in physics. He will go to the university one day a week and with Professor Albert De Forest Palmer have charge of the department of physics, from which Dr. Carl Barus will retire as head next month.

DR. COLLINS P. BLISS, professor of mechanical engineering at New York University, has been appointed associate dean of the college of engineering.

THE new chair of associate professor of geology established at the University of Tennessee last June has been filled by the appointment of Dr. George M. Hall, instructor of geology in the Johns Hopkins University.

DR. GRACE BERKLEY has been elected assistant professor of botany in De Pauw University.

DR. MARY WESTALL has been appointed assistant professor of botany in Agnes Scott College, Georgia.

DR. ARTHUR L. BLOOMFIELD, of the Johns Hopkins University, has been appointed professor of medicine at the Stanford University Medical School, the appointment to take effect at the beginning of the year 1926-27.

DISCUSSION AND CORRESPONDENCE

THE CASE OF *ASTACUS*, 1775, VS. *POTAMOBIUS*, 1819

OUR excuse for reopening this much discussed case of nomenclature is practical, not merely academic. In preparing a paper in which reference is made to *Crustacea*, the point has come to our attention that, while specialists in this group settled this case years ago, two of the most recent American text-books in zoology disagree in respect to it.

Pratt, 1916, "Manual of the Common Invertebrate Animals," p. 390, uses the generic name *Astacus* Fabr., 1775, for the crayfish. In Ward and Whipple, 1918, "Fresh-Water Biology," p. 846, Ortmann uses the generic name *Potamobius* Leach and states that, "This is the genus which includes the European crayfishes, frequently, but incorrectly, called *Astacus*."

Faxon, 1898, PUSNM, pp. 662-665, gives a detailed discussion of these names. We agree with Faxon's conclusions, but invite attention to the point that under the International Rules of Zoological Nomenclature the case is much clearer than is ordinarily assumed.

Astacus Fabr., 1775, 413, contained a number of species, including as number 2 *Astacus fluviatilis* Fabr., 1775, 413, with *Cancer astacus* Linn., 1758a, 631, as synonym. To establish the correct generic name for *Astacus fluviatilis*, we do not have to go beyond this reference; *Cancer astacus* Linn. is the type, by absolute tautonymy, of *Astacus* Fabricius. See Article 30d International Rules of Nomenclature.