NEWS and Notes

H. C. Dudley, head of the Biochemistry Division of the Naval Medical Research Institute, Bethesda, Maryland, has been appointed head of the newly organized Allied Medical Sciences Section, Medical Service Corps of the Navy.

U. S. scientists who have been invited by the Paris Centre National de la Recherche Scientifique to attend the colloquium on astronomical constants to be held in Paris, March 27–April 1, 1950, are **G. M. Clemence,** U. S. Navy Observatory, Washington 25, D. C., and **Dirk Brouwer,** of the Yale University Observatory.

William McDowell Hammon, assistant director of the Hooper Foundation, University of California, has been appointed professor and head of the Department of Epidemiology at the Graduate School of Public Health, University of Pittsburgh. In this position Dr. Hammon will also be responsible for the instructional and research interests of the school in the field of microbiology. His appointment is effective February 1, 1950.

William E. Mahin, director of research at Armour Research Foundation of Illinois Institute of Technology, has been appointed a member of the National Research Council for a three-year period ending June 30, 1952. Dr. Mahin will represent the American Society for Metals.

D. A. Fraser, lecturer in botany, University of Alberta, has been appointed forest ecologist, Forest Insect Laboratory, Dominion Department of Agriculture, Sault Ste. Marie, Ontario.

Eric Ogden, formerly of the University of Texas, Medical Branch, Galveston, has been appointed professor and chairman of the Department of Physiology at the College of Medicine, Ohio State University.

The Atomic Energy Commission has appointed two new branch chiefs to its Washington headquarters staff. They are **Walter D. Claus,** former head of the Physical-Chemical Division of the Pabst Research Laboratories, Milwaukee, as chief of the Biophysics Branch, Division of Biology and Medicine, and **Joseph B. Platt,** former associate professor of physics, University of Rochester, as chief of the Physics Branch, Division of Research. Dr. Claus replaces **Lauriston S. Taylor,** who has been on loan from the National Bureau of Standards. Dr. Taylor will return to the position of chief of the X ray Section and will act as consultant to the AEC on radiation matters.

Hsien Wu, visiting scholar, College of Physicians and Surgeons, Columbia University, has accepted a position as visiting professor of biochemistry at the Medical College of Alabama, Birmingham. Dr. Wu was professor of biochemistry at Peiping Medical College from 1928 to 1941, and, in 1944, director of the Nutrition Institute, Ministry of Health, China.

Paul E. Clark, physical chemist and former head of the Department of Chemistry at Washington and Jefferson College, Washington, Pennsylvania, has accepted a position as technical reports writer at the Applied Physics Laboratory of Johns Hopkins University, Silver Spring, Maryland.

Visitors to U. S.

Recent visitors at the Plant Industry Station at Beltsville, Maryland were **Sir William G. Ogg,** director of the Rothamsted Experimental Station in England, and **C. H. Edelman,** director of the Soil Survey in Holland and president of the International Congress of Soil Science.

Recent visitors at the Department of Agriculture were **Gregorio Rosenberg M.,** head of horticultural research, Ministry of Agriculture, Santiago, Chile; **René L. Ambroise,** chief of the Soil Conservation Service, Haitian Department of Agriculture; and **Julio Peña,** professor of chemistry, Central University of Quito, Ecuador.

Visitors at the National Bureau of Standards September 19–30 included: **J. F. Allen,** professor of physics, St. Andrew's College, Scotland; **K. R. Atkins,** physicist, Cambridge University, England; **Axel Bernstein,** metallurgist, the Sandvik Steel Works, Sandviken, Sweden; **A. Fogg,** director, Motor Industry Research Association, Brentford, England; **W. D. Forrester,** field engineer, Canadian Geodetic Survey, Ottawa; **Felix A. Galavis S.,** chief of the Geological Laboratory, Ministeriode Fomento, Caracas, Venezuela; **Sir Charles Goodeve,** director, British Iron and Steel Research Society, London; **A. Goodewaagon,** chemical engineer, Donda, Netherlands; **H. O. Hartley,** lecturer in statistics, University of London, London; **Francis M. Henderson,** senior design engineer, Dominion Physical Laboratory, Department of Scientific and Industrial Research, Wellington, New Zealand; **P. Lainé,** physicist at the Bellevue Laboratory, France; **J. M. Los,** physicist, National Research Council of Canada; **M. Meissner,** professor of physics, Technical Institute, Munich; **F. E. Simon, K. Mendelssohn,** and **A. H. Cook,** professors of physics at the University of Oxford, England; **D. S. Montgomery,** Canadian Bureau of Mines, Ottawa, Canada; **J. Singer,** director, Central Organization for Applied Scientific Research for the Netherlands, the Hague; **Hilding Slatis,** professor, Nobel Institute for Physics, Stockholm; **R. A. Smith,** physicist with the British Ministry of Supply, London; **Serge Staub,** sugar technologist, Department of Agriculture, Great Britain, Reduit, Mauritus Island; and **F. W. Wood,** in charge of Watheroo Ionospheric Observatory, Department of Mineral Resources, Melbourne, Australia.

Ryokichi Sagane, professor of physics at Tokyo Imperial University, will spend six months as visiting professor at the Institute for Atomic Research, Iowa State College, beginning January 1. Dr. Sagane will deliver a series of lectures and confer with staff members associated with the synchrotron.

Grants and Awards

The Federal Security Agency has announced the distribution of $3,250,000 among nine teaching institutions to assist in construction of cancer research laboratories. Recipients are: *University of Minnesota,* $200,000 for two floors of clinical research at the Mayo Memorial Medical Center; *University of Chicago,* $240,000 to aid construction of the seven-story Goldblatt Memorial Hospital for Cancer Research; *New England Deaconess Hospital,* Boston, $85,000 for two floors adjoining the New England Deaconess Cancer Institute; *University of Kansas,* $200,000 for one wing of a two-story building for laboratory and clinical research at the University Medical Center; *Johns Hopkins University,* Baltimore, $750,000 to aid construction of cancer research facilities; *St. Louis University,* $625,000 for a new clinical research building at the University Medical School; *University of California,* Los Angeles, $700,000 for a wing of the medical school; *University of Pennsylvania,* $200,000 for a one-half-floor laboratory; and *Memorial Hospital for Cancer and Allied Diseases,* New York, $250,000, for an additional floor for an experimental surgical laboratory.

The John Fritz medal for 1949, for "scientific or industrial achievement," has been presented by the Engineering Societies to Walter Hull Aldridge, president of the Texas Gulf Sulphur Company. Mr. Aldridge was cited for his contribution to the mineral production of the U. S. and Canada. The societies have also announced that the 1950 **Daniel Guggenheim Medal** for achievement in aeronautics will be given to Edward P. Warner, president of the Interim Council of Provisional International Civil Aviation Organization.

Carnegie Institute of Technology has awarded $1,000 graduate fellowships in engineering to René Saul M., Mexican electrical engineer formerly associated with RCA Victor Mexicana, and Edilberto Vega P., Peruvian civil engineer who has worked with the Department of Public Works and the Division of Sanitary Projects in Lima. The fellowships are granted annually to Latin Americans in the interest of intercontinental unity.

The National Institutes of Health have awarded to **John C. Krantz, Jr.,** professor of pharmacology, School of Medicine, University of Maryland, a grant of $6,500 for study of the mechanism of the action of drugs on the cardiovascular system.

Grants totaling $8,614,737, to be administered by the **National Heart Institute of the Public Health Service,** have been awarded 85 medical schools and research institutions in 34 states and the District of Columbia. The funds will be used for heart research, expanded programs of heart teaching in medical schools, and for building additional heart research laboratories throughout the country. The grants are in addition to those awarded in July (amounting to $1,200,000 for continuing research projects already under way) and provide a total of nearly ten million dollars in federal funds appropriated during the fiscal year ending June 30, 1950 to combat heart disease. The categories of the grants are: $2,053,310 for 189 research investigations in 66 nonfederal institutions in 28 states and the District of Columbia; $671,032 for improving and expanding cardiovascular teaching in 46 medical schools in 28 states and the District; and $5,890,395 for providing research laboratory facilities for study of heart diseases in 22 nonfederal institutions.

The Atomic Energy Commission Division of Biology and Medicine has approved 18 research proposals in biology and medicine during the past three months. The institutions and their research projects are: Massachusetts General Hospital—*William M. Sweet* and *Bertram Selverstone,* for the use of phosphorus-32 in the precise localization of brain tumors; University of Oregon Medical School—*Edward E. West,* for a study of labeled acetic acid and ethanol in relation to fat metabolism; University of Tennessee—*E. F. Williams,* for research in pathology, physiology, and chemistry; Presbyterian Hospital of the City of Chicago—*R. Gordon Gould,* for study of the mechanism of CO_2 fixation; Peter Bent Brigham Hospital—*Francis D. Moore,* for study of intracellular changes in trauma depletion and repair, and biochemical studies in the human being with the aid of isotopes; University of Denver—*Frank M. D'Amour,* for study of the physiologic and pathologic effects of radioactive cobalt; Harvard University—*Thomas H. Ham* and *William B. Castle,* for study of the destruction of red blood cells; Harvard University—*S. P. Hicks,* for study of the effects of radiation upon the development of rat embryos; Syracuse University—*E. L. Lozner,* for study of the defenses against hemorrhages; Washington University, St. Louis—*Frank Dixon,* for investigation of the effects of agents used in the treatment of cancer, and study of x rays and nitrogen mustards on the immunologic response of experimental animals; University of Illinois—*A. C. Ivy,* for irradiation of gastric mucosa by intragastric instillation of radioactive isotopes; Iowa State College—*S. Aranoff,* for study of the metabolism and physiology of roots, and *R. E. Sealock,* for study of combined biochemical and physiological actions of throsine and vitamin B_{12}; Agricultural and Mechanical College of Texas—*Raymond Reiser* and *Kenneth Kuiken,* for study of the metabolism of glycerines; University of Pennsylvania—*D. Wright Wilson,* for study of the synthesis of isotopic carbon compounds used in biochemistry; University of Chicago—*E. M. K. Geiling,* for the study of biosynthesis of radioactive drug compounds; University of Wisconsin Experiment Station—*B. W. Burris* and *P. W. Wilson,* for studies of biological nitrogen fixation with isotopic tracers, and study of the metabolism of organic acids in higher plants and microorganisms; University of Washington—*F. W. Church* and *Raymond Allen,* for meteorological studies; *Robert G. Fleagle,* for meteorological studies.

Negotiations leading to the award of contracts covering the newly approved research projects are now under way and contracts will be awarded by the AEC operations office nearest the institution conducting the research.

The award of contracts to the institutions involved will bring to a total

of 150 the number of AEC-supported research projects being carried on in medicine, biology, cancer studies, and biophysics at universities, hospitals, and research centers. Approximately five million dollars has been allocated by the AEC for support of such research in nongovernment agencies during the fiscal year 1950.

Meetings and Elections

A series of 12 weekly lectures on the **Psychology of Emotional Growth** began on October 11 at Cooper Union in New York City. The series is open to the public without charge or seat reservations.

The National Academy of Sciences will hold its autumn meeting at the University of Rochester, New York, October 24–26. Abstracts of papers presented will be published in the October 28 issue of *Science*.

The Engineers' Council for Professional Development will hold its 17th annual meeting at the Edgewater Beach Hotel in Chicago October 28–29. Programs may be obtained in advance of the meeting by writing to George G. Lamb, Technological Institute, Northwestern University, Evanston, Illinois.

The 450th meeting of the **American Mathematical Society** will be held at Columbia University on October 29. R. H. Fox, of Princeton University, will deliver an address on covering spaces.

The Fourth Annual Congress on Horticulture will be held October 30–November 1, at the Essex House, New York City. The congress will include a symposium and round table on color, preliminary to the publication of a 2,000-color standard chart by the Commission on Testing and Reporting of the American Horticultural Council. Further details may be obtained from R. Milton Carleton, 601 West Jackson Boulevard, Chicago 6.

The Gulf and Caribbean Fisheries Institute will hold its second annual meeting November 15–18, at the Robert Richter Hotel, Miami Beach, Florida. Papers will be presented by delegates from Cuba, Martinique, and other Caribbean countries, as well as from the southeastern states of the U. S.

ACS at Atlantic City. One thousand sixty-five papers—by far the largest number in the history of the American Chemical Society—were presented at the society's 116th national meeting, held in Atlantic City, New Jersey, September 18–23, with 8,232 chemists and chemical engineers participating. Nineteen professional divisions of the society held 151 technical sessions, at which advances in virtually every chemical field from agriculture and biology to petroleum and rubber were reported.

An optimistic keynote was provided by Arthur B. Lamb, of Harvard University, retiring editor of the *Journal of the American Chemical Society,* who received the Priestley Medal at a general assembly in the Atlantic City Convention Hall. Science, whose revolutionary progress has plunged man into the maelstrom of social upheaval, will lead him safely through into a better world than he has ever known, Professor Lamb declared. Despite the grave problems now confronting civilization, there is no need to be "unduly depressed," he said, because "fundamentally, and for the long pull, mankind's prospects have never been brighter."

An appeal to private industry to insure its own continuing progress and the future welfare of the nation by creating a $75,000,000-a-year foundation for the support of basic research was made by the society's president, Linus Pauling, of the California Institute of Technology. Such a foundation would not eliminate the need of federal aid for research, but it would avert the menace of bureaucratic domination of scientific study and thus help preserve the American system of free private enterprise, Professor Pauling said.

The names of seven 1950 award recipients were announced by Dr. Pauling. They are:

Garvan Medal—Pauline Beery Mack, director, Ellen H. Richards Institute of Research in Textiles and Nutrition, Pennsylvania State College; *American Chemical Society Award in Pure Chemistry* (financed by Alpha Chi Sigma)—Verner Schomaker, California Institute of Technology; *Precision Scientific Company Award in Petroleum Chemistry*—Kenneth S. Pitzer, (University of California), director of research, Atomic Energy Commission; *Eli Lilly and Company Award in Biological Chemistry*—William Shive, University of Texas; *Fritzsche Award in Essential Oils*—A. J. Haagen-Smit, California Institute of Technology; *Fisher Award in Analytical Chemistry*—Isaac M. Kolthoff, University of Minnesota; *Paul-Lewis Laboratories Award in Enzyme Chemistry*—Britton Chance, director, Johnson Foundation, University of Pennsylvania. The awards will be presented at the society's spring meeting, which will be divided into three sessions at Houston, Philadelphia, and Detroit.

First announcement in the U. S. of the decisions of the International Union of Chemistry on the names of plutonium and 13 other elements was made at the ACS meeting. Alexander Silverman, University of Pittsburgh, American representative on the union's Commission on Inorganic Nomenclature, who had just returned from the union's 15th conference in Amsterdam, reported that these names had been accepted for the eight new elements discovered during World War II: technetium (43), promethium (61), astatine (85), francium (87), neptunium (93), plutonium (94), americium (95), and curium (96). He also listed the following rulings on names of older elements: wolfram instead of tungsten for number 74; niobium instead of columbium for 41, beryllium rather than glucinium for 4, hafnium for 72, lutetium rather than lutecium for 71, and protactininum rather than protoactinium for 91.

Widespread interest was aroused by a symposium on "Security Clearance and the Scientist," sponsored by the society's Industrial and Engineering Division, at which Colonel E. M. Tally, Jr., chief of the Munitions Board's Office of Manpower, announced that the Department of Defense is establishing a central security file to make the entire clearance system simpler and to eliminate much of the duplication existing under separate Army, Navy, and Air Force procedures.

Discovery of a simple, low-cost method for the mass-scale production of essential amino acids for safe intravenous feeding was reported by Jesse P. Greenstein, of the National Cancer Institute.

Recent findings in the biochemical study of diabetes, achievements in the flameproofing of textiles, the varied industrial uses forecast for titanium, and developments in the fields of paints, plastics, rubber, and insecticides were among the other subjects discussed at the meeting.

WALTER J. MURPHY

The Mt. Desert Island Biological Laboratory is planning to issue early in 1950 a *Bulletin Number* covering the years 1941–49, and a list of papers resulting from work at the laboratory from 1929 through 1949. All contributors are asked to submit titles of published papers or a sentence description of unpublished work by *December 1* to J. Wendell Burger, Director, Trinity College, Hartford 6, Connecticut.

The Philadelphia Section of the American Chemical Society will sponsor again this fall special noncredit evening courses in physiology for chemists and recent developments in colloid chemistry. The lectures will be held at the Philadelphia College of Pharmacy and Science, 43rd and Kingsessing Avenue, Philadelphia. Attendance is not limited to members of the American Chemical Society. Further information may be obtained from E. J. Rosenbaum, Sun Oil Company, Norwood, Pennsylvania, chairman of the Philadelphia Section's Chemical Education Committee.

The New York Academy of Medicine has donated 12,000 volumes to the Southwestern Medical College in Dallas, Texas. These volumes are part of a gift to the academy of 20,000 volumes from the New York Public Library, representing its original collection of medical books accumulated during the 19th century. The academy is adding the remaining 8,000, including valuable foreign medical publications and issues of unusual journals, to the 260,000 volumes of its present library.

The National Bureau of Standards has just published its annual report summarizing investigations in the physical sciences carried on at the bureau during 1948. Activities were conducted by 14 divisions, concerned with electronics, applied mathematics, atomic and molecular physics, radio propagation, electricity and optics, metrology, heat and power, chemistry, mechanics, organic and fibrous materials, metallurgy, mineral products, building technology, and commodity standards. Of the projects carried out by approximately 100 sections within these divisions, those of greatest general interest and widest application have been selected for description. The 272-page illustrated booklet is available from the U. S. Government Printing Office, Washington 25, D. C.

The New York Academy of Sciences, now located at Central Park West and 79th Street, New York City, will occupy new headquarters at 2 East 63rd Street after January 1. The new residence is the million-dollar gift of Norman B. Woolworth. The academy is conducting a campaign for one million dollars, half to be used for alteration, equipment, and maintenance of its new home and half to be set aside for an extension of activities.

Recently Received—

Medical Mission to Greece and Italy, April 15–June 7, 1948. Abridged report. Unitarian Service Committee, Inc., 9 Park Street, Boston 8.

Sixth Report of the Biological Bureau, Quebec, 1948. Game and Fisheries Department, Quebec, Canada.

The Navajo Meteorite. Sharat Kumar Roy and Robert Kriss Wyant. Geological Series of Field Museum of Natural History, Chicago. Vol. VII, No. 8. 30¢.

List of Publications, Department of Terrestrial Magnetism, 1948. Carnegie Institution of Washington, Washington 15, D. C.

Handbook on Florida Termites. E. Morton Miller. Technical Series, University of Miami Press, Coral Gables, Florida.

Proceedings of the First Annual Northern California Research Conference, January, 1949. Stanford Research Institute, Stanford, California. $2.00.

Un diagramme nouveau a quatre coordonnees. P. Lenk-Chevitch. Extract from technical bulletin of l'Union des Ingenieurs sortis dee Ecoles Speciales de l'Universite de Louvain, Brussels.

Isotopes, Catalogue and Price List No. 3, July 1949. Isotopes Division, U. S. Atomic Energy Commission, Oak Ridge, Tennessee.

Ecological Crop Geography of Germany and Its Agro-Climatic Analogues in North America. M. Y. Nuttonson. International Agro-Climatological Series, Study No. 8, 1949. On request from American Institute of Crop Ecology, P.O. Box 1022, Washington, D. C.

A Collection of Fishes from Talara, Peru. Samuel F. Hildebrand and Otis Barton. Miscellaneous Collections, Vol. III, No. 10, Publ. 3986, Smithsonian Institution, Washington, D. C.

Make Plans for—

Pacific Chemical Exposition and **Pacific Industrial Conferences,** sponsored by the American Chemical Society, November 1–5, Civic Auditorium, San Francisco.

Special Libraries Association, council meeting, November 3–5, Hotel Statler, New York City.

American Association of Blood Banks, November 3–5, Seattle, Washington.

Society of Rheology, 20th annual meeting, November 4–5, Hotel New Yorker, New York City.

American Society for the Study of Arteriosclerosis, November 5–7, Hotel Knickerbocker, Chicago.

American Society of Tropical Medicine, meeting conjointly with the **National Malaria Society** and **American Academy of Tropical Medicine,** November 6–9, Memphis, Tennessee.