

NEWS and Notes

Louis A. Turner, head of the Department of Physics at the State University of Iowa, has been appointed director of the Division of Physics at the Argonne National Laboratory. Dr. Turner will assume his duties on a full-time basis at the end of the 1949-50 academic year.

S. R. M. Reynolds, Department of Embryology, Carnegie Institution of Washington, Baltimore, will serve as visiting professor on the Facultad de Medicina de Montevideo, Uruguay, from March 6 to May 12. His work will be concerned primarily with physiology, obstetrics, histology, and embryology.

Louis Gdalan has been appointed director of pharmacy at Michael Reese Hospital, Chicago, effective January 1. Mr. Gdalan was formerly assistant director of pharmacy at St. Luke's Hospital in Chicago.

Elmer G. Butler, professor of biology at Princeton University, will lecture at four Belgian universities in February and March on his research in experimental morphology. The lectures will be given under the auspices of the Belgian-American Educational Foundation.

Irving Langmuir has retired from the General Electric Company, where he has served as associate director of the firm's Research Laboratory since 1932. He will continue work in the laboratory as a consultant. Dr. Langmuir won the 1932 Nobel prize for his research in surface chemistry.

W. Boas, of the Metallurgy School, University of Melbourne, has been named chief of the Division of Tribophysics of the Commonwealth Scientific and Industrial Research Organization of Australia, to succeed **S. H. Bastow**, who was recently appointed to the executive of the organization. **F. J. Lehany**, Division of Electrotechnology,

CSIRO, will succeed **D. M. Myers** as head of the division. Dr. Myers has resigned to become professor of electrical engineering at the University of Sydney.

Frederick S. Baker, dean of the School of Forestry, University of California at Berkeley, has been elected a Fellow of the Society of American Foresters.

Leonidas Marinelli, assistant professor of radiology, College of Medicine, Cornell University, has been named research associate in the Division of Biological Sciences, University of Chicago. Dr. Marinelli is also on the staff of the Argonne National Laboratory.

Dermott Brownrigg Taylor has been appointed associate professor of pharmacology, and **Ralph Hawkins** lecturer in anatomy at the University of California Medical School, San Francisco. Dr. Taylor has been at the University of London for the past ten years and Dr. Hawkins was most recently at the Massachusetts General Hospital in Boston.

Leon O. Jacobson, associate professor of medicine, Division of Biological Sciences, University of Chicago, has been appointed special consultant to the U. S. Public Health Service as a member of the Hematology Study Section of the National Institutes of Health.

Visitors to U. S.

M. Caillaux, technical director, Société Française DUCO, Paris, **Anders Nielsen**, director of research, Topsoe Laboratories, Copenhagen, and **W. Ray Piggott**, principal scientific officer, National Physical Laboratories, Department of Scientific and Industrial Research, Slough, England, were recent visitors at the National Bureau of Standards.

K. A. Clendenning, National Research Council of Canada, is visiting the Photosynthesis Laboratories at the University of Illinois during the first semester.

George W. Hunter, III, returned from Tokyo last month to attend meetings of the American Public Health Association, the National

Malaria Society, and the American Society of Tropical Medicine. Colonel Hunter is chief of the Section of Medical Zoology, 406th Medical General Laboratory, in Tokyo.

Grants and Awards

W. H. Taliaferro, professor of bacteriology and parasitology and chairman, Division of Biological Sciences, University of Chicago, was recently awarded the **Mary Kingsley Medal** by the Incorporated Liverpool School of Tropical Medicine in recognition of his contributions to tropical medicine.

The **Sigma Delta Epsilon Award** of \$500 was presented to **Ruth V. Dippell**, a research associate at Indiana University, at the recent AAAS meeting in New York City. Dr. Dippell won the award for her studies on mutations of bacteria.

The **National Vitamin Foundation, Inc.** has awarded eight new grants, totaling \$55,505, for research on problems of human nutrition. The grants, effective January 1, include **Bacon F. Chow**, Johns Hopkins University School of Hygiene and Public Health—\$5,000 to study the value of vitamin B₁₂ in promoting growth of infants on diets restricted because of medical reasons, of apparently healthy infants on normal diets and of chronically ill older children; **William J. Darby** and **Edgar Jones**, Vanderbilt University School of Medicine—\$21,000 for a three-year study of the effects of vitamin B₁₂ and of the pteroylglutamates (folic acid) on the blood-forming organs and the circulating blood in the human, and the determination of the requirements of man for these vitamins for the maintenance of normal blood cell and hemoglobin values, as well as for the prevention of nervous disorders (combined system disease) in patients with pernicious anemia; **Benjamin M. Kagan**, Michael Reese Hospital, Chicago—\$7,500 for studies of vitamin A metabolism in man in health and disease and particularly of disturbances in vitamin A metabolism observed in certain diseases of the kidney and of the liver; **R. W. Luecke**, Michigan State College, Department of Agricultural Chemistry

—\$3,000 for the study of the effects of low intakes of certain of the B vitamins during pregnancy on the health and livability of the newborn, using the pig as the experimental animal; *Elaine P. Kalli*, New York University College of Medicine—\$3,605 for continuation of studies on the relation of certain of the B vitamins, particularly pantothenic acid, to the functions of the adrenal glands and of the pituitary gland; *Tom D. Spies*, Northwestern University, Department of Nutrition and Metabolism—\$5,400 for studies on the effects of vitamin B₁₂ on the bone marrow and the circulating blood of patients with nutritional macrocytic anemia and sprue; *Richard W. Vilter*, University of Cincinnati College of Medicine—\$5,000 for the study of pyridoxine (vitamin B₆) deficiency in man and its effective treatment; *Heinrich Waelsch*, New York State Psychiatric Institute—\$5,000 for continuation of studies on glutamic acid and glutamine metabolism.

Fellowship and Scholarships

The New York Tuberculosis and Health Association announces that the **James Alexander Miller Fellowship** for research in tuberculosis will be available from July 1, 1950 to June 30, 1951. The \$5,000 fellowship will make possible full-time research on a project with a definite bearing on tuberculosis by a qualified medical investigator. The applicant must be acceptable in the laboratory or clinic of his choice (preferably in New York City) and be provided with necessary equipment. Applications will be supplied on request to the New York Tuberculosis and Health Association, 386 Fourth Avenue, New York City, and must be submitted in duplicate not later than *March 1*. Announcement of the award will be made in April.

The Illinois Institute of Technology is accepting applications for two fellowships in chemical engineering for the academic year 1950–51. One, given by the Chicago Paint, Varnish, and Lacquer Association and the Chicago Paint and Varnish Production Club, grants the winner \$1,000 and \$550 tuition for two semesters, the research project to be

selected by the paint groups and the college. The other, given by the Standard Oil Company (Indiana), awards \$1,700 for research dealing with some phase of chemical engineering of general interest to the petroleum industry.

Both fellowships will begin September 1950. Applications must be received by *March 15*. Announcement of the winners will be made to all applicants by April 1. Further information and application blanks may be obtained from the Dean of the Graduate School, Illinois Institute of Technology, Chicago 16.

The National Foundation for Infantile Paralysis has approved an appropriation to provide fellowships of three to six months in principles of physical medicine and rehabilitation for physicians who are certified by or are preparing to meet the requirements of specialty boards in neurology, orthopedics, pediatrics, and internal medicine. Information concerning the program can be obtained from the Educational Division, National Foundation for Infantile Paralysis, 120 Broadway, New York City.

The foundation recently announced the award of March of Dime funds for 29 additional research and educational projects in infantile paralysis, totaling \$849,736.68, to be conducted by scientific and technical institutions throughout the U. S. and Canada. This brings the total expended by the foundation since 1938 to more than \$11,000,000 in each of the fields of research and education.

Meetings and Elections

The National Speleological Society will hold its seventh annual convention in Washington, D. C. at the Dodge Hotel, March 31–April 2. Inquiries should be addressed to William J. Foster, Chairman of the Convention Committee, 3100 Lee Boulevard, Arlington, Virginia.

The French Society of Physics will hold its 47th exhibition of scientific instruments and materials May 26–June 1, in the exhibition rooms of Paris University at the Sorbonne. The latest results of French scientific research will be displayed,

as well as French and foreign industrial instruments. The 1949 exhibit attracted some 25,000 visitors. Further information may be had by writing to the Exhibition Committee, 12 rue Cuvier, Paris 5e.

The annual meeting of the **Electrochemical Society** is to be held in Cleveland, Ohio, at the Hotel Statler, April 19–22. Symposia are now being planned on theoretical electrochemistry, rare metals, instrumentation, electrothermics, luminescence, industrial electrolytics, and electric insulation.

The Executive Committee of the International Union of Crystallography has accepted an invitation from the Swedish National Committee to hold the **Second International Congress on Crystallography** and the **Second General Assembly of the Union** in Stockholm June 27–July 3, 1951. These dates have been chosen in consultation with the Swedish National Committee and with the national committees of all the countries which adhere to the union. It is hoped that this early notice will make it possible for those interested in crystallography and its related fields to arrange to attend. Further information can be obtained from Dr. R. C. Evans, General Secretary of the Union, Cavendish Laboratory, Cambridge, England.

The International and Fourth American Congress on Obstetrics and Gynecology will convene May 14–19 at the Hotel Statler in New York City. Speakers at the five morning general sessions include Heinrich Martius, University of Göttingen; Leon Gerin-Lajoie, University of Montreal; Carlos D. Guerrero, Mexico City; Arthur T. Hertig, Harvard Medical College; Carl Kaufmann, Phillip University, Marburg, Germany; Hans Ludvig Kottmeier, Radiopathology Institute, Stockholm; Laksmanaswami Mudaliar, Madras University, India; Manuel Luis Perez, Buenos Aires; S. R. M. Reynolds, Carnegie Institution, Washington, D. C.; Walter Seegers, Wayne University College of Medicine; Harold H. Sheehan, University of Liverpool; Jean Snoek, Hospital St. Pierre, University of Brussels;

and Herbert F. Traut, University of California Medical School. The list of speakers for the afternoon programs is not yet complete. For further information regarding the congress, write to Dr. Fred L. Adair, 161 East Erie Street, Chicago 11.

A Symposium on Molecular Structure and Spectroscopy will be held at the Mendenhall Laboratory of Physics, Ohio State University, June 12-17. Interpretation of molecular spectroscopic data and methods for obtaining such data will be discussed. For further information or for a copy of the program, write to Harald H. Nielsen, Mendenhall Laboratory of Physics, Ohio State University, Columbus 10.

A series of seminars in the biological sciences has been instituted for 1950 by the Office of Naval Research in conjunction with the Naval Medical Research Institute. The seminars will be held at the Naval Medical Research Institute, Bethesda, Maryland. Information on speakers and subject matter may be obtained from Roger D. Reid, Head, Microbiology Branch, Office of Naval Research, Constitution Avenue, Washington 25, D. C.

The Pacific Southwest Association of Chemistry Teachers at its recent meeting in San Francisco elected the following officers for 1949-50: president, Arthur Furst, University of San Francisco; treasurer, Claude Merzbacher, San Diego State College; secretary, Valerie Phillips, San Francisco College for Women. Membership is open to anyone living in Arizona, California, Nevada, New Mexico, and Utah who is actively participating in a college chemistry teaching program or who has an interest in the field. Inquiries regarding meetings should be addressed to the state secretary.

NRC News

AEC Fellowships. The National Research Council has announced three programs of postdoctoral research fellowships supported by the Atomic Energy Commission. It is the purpose of these fellowships to train a limited number of men and

women for research in those aspects of the physical, biological, and medical sciences whose development is the direct responsibility of the AEC.

For the fellowships in the physical sciences, these fields include the chemistry and nuclear physics of elements of atomic number greater than 90, the neutron physics of various elements, the effect of high energy radiation on matter, the chemistry of the fission product elements, and the separation of isotopes. For the parallel programs in the biological sciences and the medical sciences, the research fields will include studies of the physiological and toxicological effects of fission products, investigations which at some stage require the use of special facilities available at the AEC installations, and the development of radiation instruments for use in the study of problems of a classified nature in the fields of biology and health physics.

Because these fellowships are for training in fields where some or all information is classified, the AEC is required by law to determine the applicant's loyalty to the government of the U. S. before approving payment of the fellowship stipend. The AEC clearance will be based upon the report of the Federal Bureau of Investigation as to the character, associations, and loyalty of the applicant.

A fellow must be a citizen of the U. S. under 35 at the time of the appointment. For the fellowships in the physical and biological sciences, he must have training equivalent to that represented by the Ph.D. degree, and must have demonstrated superior ability in research; for the fellowships in the medical sciences, the fellow must have had training in some branch of the biological or medical sciences equivalent to that represented by the M.D. or Ph.D. degree, and show promise of research ability. Holders of the M.D. degree must have completed one year of internship or its equivalent.

Applications must be completed by *February 15*. Appointments will be for one year unless a shorter term is approved by the fellowship board, and must terminate on or before June 30, 1951.

Requests for additional information and application blanks for the

fellowships in the physical and biological sciences should be addressed to the Fellowship Office, National Research Council, 2101 Constitution Avenue, Washington 25, D. C. For additional material on the medical research fellowships, address the AEC Postdoctoral Fellowship Board in the Medical Sciences, at the same address.

New Division Chairmen. S. Smith Stevens, professor of psychology and director of the Psychoacoustic Laboratory at Harvard University, has been appointed chairman of the Division of Anthropology and Psychology. Dr. Stevens is known for his researches on the psychology of hearing, and the establishment of quantitative scales for volume, pitch, and loudness as tonal attributes. Ernst Cloos, professor of structural geology at Johns Hopkins University, is the new chairman of the Division of Geology and Geography. Dr. Cloos is a member of the Executive Committee of the American Geophysical Union, which serves also as the NRC's Committee on Geophysics.

The Subcommittee on Latin-American Psychology, Division of Anthropology and Psychology, has announced the availability of its second publication, *La enseñanza de la psicología en los Estados Unidos de Norte América*, by Horacio J. A. Rimoldi. The bulletin, in Spanish, describes undergraduate and graduate training in psychology in the U. S., with details on course work, requirements for the master's and doctor's degree, examinations and theses for the doctorate, and the amount of time commonly spent in obtaining the degrees. In addition there is included a listing of elementary, intermediate, and advanced psychology courses in two representative U. S. universities, Wisconsin and Chicago.

Copies of the first publication of the subcommittee, *Revistas de los Estados Unidos en psicología, psiquiatría y campos afines*, are still available. This bulletin lists sixty U. S. journals in psychology, psychiatry, child development, and related fields, with information on the associated society, subscription price,

editor, address, and type of articles found in each. The bulletin was prepared and translated into Spanish by Margaret E. Hall of the Chicago Board of Education, chairman of the subcommittee.

Astronomy Committee. C. D. Shane, director of Lick Observatory, has succeeded Otto Struve as chairman of the NRC Committee on Astronomy Advisory to the Office of Naval Research. Dr. Struve will continue as a member of the committee. Leo Goldberg, of the University of Michigan, will serve as vice chairman. Under the plan of rotation of membership of the committee, the terms of B. J. Bok, I. S. Bowen, and A. E. Whitford have expired, and upon the recommendation of the executive committee of the American Astronomical Society, Dr. Goldberg and J. L. Greenstein of Caltech and F. L. Whipple of Harvard have been appointed to succeed them.

The committee recommends to ONR the support of research projects in astronomy and astrophysics submitted to it. Sixteen projects approved by the committee were in operation during the past year, with typical researches including measurements on double stars, stellar parallaxes and luminosities, long period variables, the infrared absorption spectrum of the night sky and aurora, and theoretical studies in cosmology and spectroscopy.

Miscellaneous

The component elements of smog are being determined by a new method of analysis of minute quantities of matter, now being tested in Los Angeles. The method was developed by Sylvan Rubin and Volney K. Rasmussen, Stanford Research Institute physicists, in cooperation with C. C. Lauritsen, professor of physics at California Institute of Technology, and the work was done in Caltech's Kellogg Radiation Laboratory. Samples of smog are bombarded by a stream of protons, using a Van de Graaff generator, then analyzed by an ion detector. The elements present are easily detected and analyzed even in layers of material no more than one molecule in thickness.

The effectiveness of antihistamines in the prevention and treatment of the common cold is being evaluated by Naval Medical Research Unit No. 4 at the Naval Training Center, Great Lakes, Illinois. The research project, started November 15 to continue for a five-month period, is the first official study undertaken by the Navy to determine the action of antihistamine drugs on infections of various causes. Two separate investigations, each involving 500 men, are being carried on under the direction of John R. Seal. One investigation deals with the preventive aspect of the problem, the other with the treatment phase.

The first fascicle of the *Atlas of tumor pathology*, which when completed will represent the cooperative effort of 30 pathologists and seven sponsoring agencies, has just been completed. The new reference work—half text, half illustration—will provide a 3,000-page standard to aid the teaching and diagnosis of human tumors of all kinds, in all their occurrences in the body.

The *Atlas*, the most exhaustive ever written on a single disease, will appear in 39 parts, each covering cancers of definite organs or systems of the body. Besides being a compilation of the best modern opinion, it will serve as a standard for tumor terminology, and will include some previously unpublished research. The biological and biochemical aspects of the cancer are also included wherever they are significant in diagnosis.

To insure completeness and homogeneity—and to point out where even the experts disagree—each of the 30 authors will read and criticize all sections of the work while it is in preparation. This arrangement has also made available an unusually large number of case histories as source material. The illustrations, some of them in color, were reproduced by the Medical Illustration Service of the Armed Forces Institute of Pathology, which is publishing the *Atlas*. The National Research Council's Subcommittee on Oncology exercised administrative and editorial guidance. The subcommittee is one of many such

groups maintained by the NRC Division of Medical Sciences to advise the National Military Establishment on medical research. Other sponsors of the new treatise are the Departments of the Army, Navy, and Air Force; the American Cancer Society; the U. S. Public Health Service; and the Veterans Administration.

The *Atlas* was originated by Balduin Lucke and M. C. Winternitz, professor of pathology at Yale. It has been in preparation for two years, and about two years more will be necessary to finish publication of the 39 fascicles. First distribution will be to military medical installations, medical schools, and state cancer control boards, to which the work will be especially useful in establishing uniformity in diagnosis and terminology.

The *Atlas* is obtainable from the American Registry of Pathology, at the Armed Forces Institute of Pathology, 7th and Independence Avenue, S.W., Washington, D. C.

A Security Survey Panel has been appointed by the Atomic Energy Commission. The special panel, which is expected to take about two months for its task, will survey the organization and functions of the AEC Security Division and submit recommendations on the manner in which these functions can best be discharged and the special qualifications desired in a security division director. The panel will also suggest candidates for the position of director. The director's post has been vacant since May, 1949, when John Gingrich resigned to return to duty with the Navy.

John S. Bugas, vice president of Ford Motor Company in charge of industrial relations, will head the panel. Other members are J. Arthur Mullin, president of Glenvale Products, Detroit; Paul E. Klopsteg, director of research of the Technological Institute, Northwestern University, and David Luke Hopkins, vice president of the board of trustees of Johns Hopkins University. John T. Tate, chairman of the Physics Department, University of Minnesota, also appointed to the panel, has withdrawn because of illness.