

NEWS and Notes

John S. Laughlin, who has been working on the betatron project at the University of Illinois Chicago Professional Colleges, has been appointed assistant professor of radiology and radiation physicist at the University's College of Medicine.

John H. Payne has been appointed head of the Technology Department of the Hawaiian Sugar Planters' Association Experiment Station, Honolulu.

Tracy M. Sonneborn, professor of zoology, Indiana University, will deliver the fifth Harvey Lecture of the current series at the New York Academy of Medicine on February 17. Dr. Sonneborn will speak on "Cellular Transformations."

S. Smith Stevens has been appointed director of the Harvard Psychological Laboratories, succeeding **Edwin G. Boring**, who is resigning his directorship after 25 years of service but will continue as professor of psychology.

Margery C. Carlson, assistant professor of botany at Northwestern University, is making a six-month botanical exploration of Mexico and Central America. Dr. Carlson will collect specimens of the native flora to be deposited in the Chicago Natural History Museum. The expedition is sponsored jointly by the Museum and the University.

Lawrence R. Hafstad, former executive secretary of the Joint Research and Development Board of the National Military Establishment, has been appointed director of the new Reactor Development Division of the U. S. Atomic Energy Commission. This division of the USAEC was created last August to carry out the program of designing and developing nuclear reactors for the practical application of atomic energy for power, propulsion of ships and aircraft, production of isotopes, and for research on reactors themselves.

George W. Schaeffer, former assistant professor of chemistry at the University of Chicago, has been appointed associate professor and director of the Department of Chemistry at Saint Louis University.

David E. Lilienthal, chairman of the U. S. Atomic Energy Commission, will deliver the mid-year commencement address and receive the honorary degree of doctor of laws at Lehigh University, February 6.

J. Lanjouw, conservator of the Herbarium and Botanical Museum at the University of Utrecht, Netherlands, has been appointed professor of plant taxonomy, succeeding A. A. Pulle, retired. Dr. Lanjouw is at present in Surinam doing botanical work.

Shepard Bartnoff and **Winston H. Bostick** have been appointed instructors in physics at Tufts College.

Merritt L. Fernald, retired director of the Gray Herbarium of Harvard University, and **Fisher** professor emeritus of natural history, has been elected to the Royal Society of Sciences of Uppsala.

Robert R. Sears of the University of Iowa has been appointed professor of education and child psychology at Harvard University. Dr. Sears will also become director of a new laboratory of human development to promote research in the fields of motivation and learning theory.

Ford M. Milam of the University of West Virginia is now employed by the U. S. Department of Agriculture as head of the agronomy department at its experiment station in San Salvador, El Salvador, Central America.

Paul Magnus Gross, professor of chemistry at Duke University, has been elected vice president of the University in charge of the educational division. Dr. Gross is also dean of the Graduate School at Duke.

Raymond Kennedy, professor of sociology at Yale University, will leave in June to spend 15 months in Indonesia studying the influence of western civilization on native culture. The Indonesian research trip is a project of the Southeastern Asia Studies, whose headquarters in this country are

at Yale. The trip will be supported by the Viking Fund, the Coolidge Fund, and the Social Science Research Council.

Grants and Awards

John Rawlings Rees, British scientist and president of the World Federation for Mental Health, has received an award of \$5,000 from the International Committee for Mental Hygiene in New York, for his research into the application of psychology to international relations.

Two German scientists are to receive Nobel prizes in chemistry that Hitler had forbidden them to accept. They are **Richard Kuhn** of Heidelberg University, who won the prize in 1938, and **A. Butenandt** of Tuebingen University, who won it in 1939.

The Carl Neuberger Medal for 1949 has been awarded to **F. F. Nord** of the Chemistry Department of Fordham University.

Warren K. Lewis, professor emeritus of chemical engineering at the Massachusetts Institute of Technology, will be awarded the 1949 gold medal of the American Institute of Chemists at the Institute's annual meeting in Chicago in May.

Smith, Kline and French Laboratories of Philadelphia have awarded a total of 73 grants amounting to \$314,761 in support of medical research during 1948. The funds provide for scholarships and fellowships, aids to preclinical research, and support of investigations in fields of clinical medicine. Twenty-seven of the grants were made to medical schools, and the balance to institutes, clinics, and individual investigators.

Mathematicians **Donald C. Spence**, Stanford University, and **Albert Schaeffer**, Purdue University, have been named joint recipients of the

Bocher Memorial Prize, which is awarded every five years by the American Mathematical Society. The prize is \$100, and each received this amount. They were honored for their book on conformal mapping, a technical mathematical work of which one application is in computation of pressures in the flow of air over an airplane wing.

Fellowships

Duke University School of Medicine will make available on July 1 several two-year fellowships carrying stipends of \$2,400 the first year and \$3,000 the second year. The work will include special training, clinical and consultation practice, and teaching and research in the fields of hematology and allergy, pulmonary diseases, gastro-enterology, hypertensive cardiovascular and renal diseases, metabolic diseases, cardiology, and general internal medicine and therapeutics. Applicants must have completed three years of training in internal medicine or a satisfactory equivalent. Further information may be obtained from Eugene A. Stead, Jr., Professor of Medicine, Duke University School of Medicine, Durham, North Carolina.

The Conway MacMillan Memorial Research Fellowship in Botany at the University of Minnesota is offered again to doctoral students for the year 1949-50. The award of \$1,200 for the academic year is supplemented by payment of tuition fees in the Graduate School. Applications must be made by *March 1*. Address all inquiries to A. O. Dahl, Chairman of the Conway MacMillan Fellowship Committee, Department of Botany, University of Minnesota, Minneapolis 14, Minnesota.

Colleges and Universities

The Damon Runyon Laboratory of Chemical Embryology of the University of Colorado Medical Center will be housed in a new cancer research wing to be constructed at the Center through funds recently made available by the National Cancer Institute of the U. S. Public Health Service and the University of Colorado. The grant of \$25,000 received last summer from the Damon Runyon Cancer Fund will be administered by representatives from the Departments of Biochemistry, Obstetrics and Gynecology, and Pediatrics. The Laboratory will be directed by Heinz Herrmann, now at Yale University and formerly at the Biological Institute of the Carlsberg Foundation, Copenhagen. He will join the staff as associate professor of pediatrics (research) on July 1, 1949.

Providence College, Providence, Rhode Island, dedicated its Albertus

Magnus Science Hall on January 27-29. The new million-dollar building will house the Departments of Biology, Chemistry and Physics.

The Building Committee of the **University of Texas Medical Branch**, Galveston, under the chairmanship of W. B. Sharp, professor of bacteriology, reports plans for new buildings at the Medical Branch to cost more than \$6,000,000. These include part of a new general hospital and a private pavilion to be erected by the Sealy and Smith Foundation at an estimated cost of \$3,500,000 and the Henry and Ross Zeigler Tuberculosis Hospital, to be built by funds from the Zeigler bequest.

The 2nd Symposium on Plasticity will be held at **Brown University** April 4-6, 1949, under the sponsorship of the Bureau of Ships and the Office of Naval Research, Navy Department. The principal topics will be "Structural Applications of the Theory of Plasticity" and "Dynamic Problems of Plasticity." One day will be devoted to miscellaneous contributions to theoretical or experimental phases of plasticity. Further information may be obtained from Prof. P. S. Symonds, Graduate Division of Applied Mathematics, Brown University, Providence 12, Rhode Island.

The 30-inch Jenkintown, Pennsylvania telescope, one of the 50 largest reflectors in the world, has been purchased by the **Agnes Scott College**, Decatur, Georgia.

The Fritz Engineering Laboratory of **Lehigh University** has been assigned a two-year research project aimed at checking and improving design procedures of shell roof structures of the type used in large airplane hangars and in the domes of monumental buildings. The assignment was made by the Roberts and Schaefer Engineering Company of Chicago.

The recently established **Harvard Foundation for Advanced Study and Research**, designed to further the interest of the Schools of Arts and Sciences, Design, Education, Engineering, and Public Administration, will provide for student housing, research, fellowships, and scholarships in the

areas of graduate study encompassed by the schools. In addition to the five graduate schools, a number of non-tuition-paying University departments will participate in the Foundation. These include the Arnold Arboretum, Atkins Garden and Research Laboratory, Blue Hill Meteorological Observatory, and the following museums: Botanical, Comparative Zoology, William Hays Fogg, Germanic, Peabody, and Semitic.

Summer Programs

The Institute of Statistics of the University of North Carolina, Chapel Hill, will offer a summer session from June 9 to July 19 for research workers in other sciences who want a practical working knowledge of statistical theory, statistical consultants in various fields, those preparing to teach statistics or develop statistical theory, and students working toward a degree in applied or theoretical statistics. An announcement of the course may be obtained from the Director, Institute of Statistics, University of North Carolina, Box 168, Chapel Hill, North Carolina.

The Mount Desert Island Biological Laboratory, Salsbury Cove, Maine, will continue its tissue culture program this year June 15-September 15. Accommodations are available for about 10 investigators with research problems in the field of aseptic cultivation of tissues, organs, and embryos of plants and animals, with preference given to projects utilizing local organisms. Only applicants qualified to carry on independent research will be accepted. Applications should be sent before March 15 to Dr. Philip R. White, Institute for Cancer Research, Corinthian Avenue and Poplar Street, Philadelphia 30.

Duke University School of Medicine and Duke Hospital, Durham, North Carolina, will offer a course in medical mycology under the direction of Norman F. Conant this summer. The course will emphasize the practical aspects of the laboratory as an aid in helping establish a diagnosis of fungus infection. Classes will be held every day in the week except Sunday during the month of July. A fee of \$50 will be charged for the course and a certificate will be awarded upon com-

pletion. Further information may be obtained from Dr. Norman F. Conant, Duke University School of Medicine.

Industrial Laboratories

The problems of research and engineering involved in improving the chemical processes of plutonium production have been assigned to the **E. I. duPont de Nemours and Company** by the U. S. Atomic Energy Commission. The survey will include study of means to increase the amount of plutonium produced from a given quantity of uranium and ways to simplify the handling of the wastes of the production process.

Production of water-white single crystals of pure calcium tungstate in research quantities has been announced by the **Linde Air Products Company**, Unit of Union Carbide and Carbon Corporation. Two of their major uses, as indicated by the Company, are in scintillation counters in the detection and measurement of radioactivity, and as screens in X-ray fluoroscopy.

The **Multi-Tron Laboratory of Chicago** has been established to conduct research and development in the fields of electronics, radiation, optics, and nuclear physics, with special emphasis on high and low voltage electronic tubes.

Westinghouse Electric Corporation has named William E. Shoupp and Robert A. Bowman to direct the research and engineering respectively of its new Atomic Power Division. Dr. Shoupp is the former manager of electronics and nuclear physics research at the Westinghouse Research Laboratories in Pittsburgh, and Dr. Bowman the former manager of condenser engineering at the Company's Steam Division in South Philadelphia. The Division's activities will include construction and testing of an atomic power plant for the propulsion of naval vessels.

John W. Coltman has been appointed manager of the electronics and nuclear physics department of the Westinghouse Research Laboratories. Dr. Coltman, former head of the X-ray section, succeeds **William E. Shoupp**,

who was recently named director of research for the Westinghouse atomic power division.

Meetings and Elections

The **Seventh Pacific Science Congress** will be held in Auckland and Christchurch, New Zealand during the month of February. It is expected that 30 countries interested in Pacific problems will be represented at the Congress, which plans for meetings covering geology, geophysics, meteorology, oceanography and marine biology, zoology, botany, soil resources, forestry, agriculture, anthropology, public health, nutrition, and the social sciences. Seventy-one American scientists are planning to participate in the program, some of whom will stop over in American Samoa to consult with those engaged in scientific research there.

The **Ohio Alpha Chapter of Alpha Epsilon Delta**, national premedical society, will be host for a state-wide convention of premedical students, advisors, and faculty members of all the liberal arts colleges in the state at the Ohio State University, Columbus, on February 19.

The annual **Louisiana State University Symposium on Modern Methods of Analytical Chemistry** will be held March 2-5 in Baton Rouge. A formal program of lectures and round table discussions has been planned. Hotel reservations should be made as soon as possible by writing: Dr. Philip W. West, Coates Chemical Laboratory, Louisiana State University, Baton Rouge 3, Louisiana.

The **Optical Society of America** will hold its winter meeting in New York City March 10-12. Headquarters will be the Hotel Statler (formerly Hotel Pennsylvania). The meeting will be open to non-members of the Society.

The **American Chemical Society** will hold its 115th national meeting in San Francisco March 28-April 1. Air pollution, the cause and treatment of high blood pressure, and chemical aspects of heredity and mutations are among the subjects to be discussed.

The **2nd National Symposium on**

Recent Advances in Antibiotics Research, sponsored by the Antibiotics Study Section of the National Institutes of Health to stimulate research in this field, will be held in Washington, D. C., on April 11-12. All interested persons may not only attend the meetings but also participate in the proceedings by presenting reports of current investigations in the field. Only papers concerned with original and unpublished observations can be considered, however. It is hoped that all accepted papers can be published as a single monograph or as a supplement by one of the scientific journals. All abstracts of papers (in triplicate) should be sent to Dr. Leonard Karel, Executive Secretary, Antibiotics Study Section, Division of Research Grants and Fellowships, National Institutes of Health, Bethesda, Maryland, before March 10.

The **Mathematical Association of America** elected the following officers at its annual meeting in December: president, R. E. Langer, University of Wisconsin; second vice president, N. H. McCoy, Smith College; members of the board of governors: C. B. Allderfer, Haverford College and R. J. Walker, Cornell University. Continuing in office from last year are Saunders MacLane, University of Chicago, first vice president, and H. M. Gehman, University of Buffalo, secretary-treasurer. Dates were set for 1949 meetings: June 20-21, a joint meeting with the American Society for Engineering Education at Rensselaer Polytechnic Institute, Troy, New York; August 29-30, the 31st summer meeting, at the University of Colorado, Boulder, Colorado; December 30, the 33rd annual meeting, in New York City.

The **Pacific Chemical Exposition** is scheduled for November 1-5 at the San Francisco Civic Auditorium. James O. Clayton, research associate of the California Research Corporation has been appointed chairman.

At the 18th annual meeting of the **Western Society of Naturalists**, held at Occidental College, Los Angeles, December 28-30, 1948, officers were elected as follows: President, Richard M. Eakin, Department of Zoology, University of California, Berkeley; vice-president, Lyman Benson, Department

of Botany, Pomona College; secretary-treasurer, William M. Hiesey, Division of Plant Biology, Carnegie Institution of Washington, Stanford; members at large on the executive committee, Margaret H. Storey, Natural History Museum, Stanford University, and F. M. Scott, Department of Botany, University of California, Los Angeles.

The American Microscopical Society, at its recent annual meeting held in Washington, D. C., elected the following officers for 1949: Clarence E. Taft, president; Irene McCulloch, first vice president; David C. Chandler, second vice president; Frank E. Eggleton, secretary-editor; Alden B. Dawson, elective member of the executive committee.

The Hawaii Psychological Association, recently formed by a group of fellows and associates of the American Psychological Association in Hawaii, elected the following officers for 1949: president, Theodore W. Forbes; president-elect, Colin J. Herrick; secretary-treasurer, Helen E. Peixotto; representative to the APA, W. Edgar Vinacke; and representative at large to the executive council, Mildred C. Mendenhall.

The American Academy of Dental Medicine will hold its annual meeting June 4-5 at the Statler Hotel in New York City. One feature of this year's program will be a symposium and round table discussion on psychomatics. Further information can be obtained from Dr. William M. Greenhut, National Secretary, 124 East 84th Street, New York City 28.

Deaths

Gertrud Oppenheimer, 55, German chemist who had been at the California Institute of Technology since 1942, died August 27, 1948, in an automobile accident.

Ryozo Kanehira, Japanese forester and botanist, died in Tokyo on November 27. From 1942-1945, Dr. Kanehira served as director of the library and herbarium at Butienzorg, Java, and was instrumental in making living conditions for the interned scientists more satisfactory there. Later, he became technical consultant in

forestry to the Natural Resources Section, G.H.Q., Tokyo.

Adolph R. Ringoen, 62, a member of the Department of Zoology of the University of Minnesota for the past 36 years, died January 13 in Minneapolis.

James F. McKernon, 83, professor of otology, who was president of the New York Post-Graduate Medical School and Hospital for 14 of his 26 years' service there, died January 23 at his New York City home.

Tenney L. Davis, 59, professor emeritus of organic chemistry at M. I. T. and former secretary of the American Academy of Arts and Sciences, died January 25 in Norwell, Massachusetts. Upon retiring from the M. I. T. staff in 1942, Dr. Davis became director of scientific research for the National Fireworks Company of Hanover, Massachusetts.

Lithium deuteride and lithium aluminum deuteride are now being synthesized by Metal Hydrides, Inc. and can be purchased from this source at cost by research organizations having need for the material. Information regarding price and availability may be secured from Metal Hydrides, Inc., 12-24 Congress Street, Beverly, Massachusetts. Blanks (AEC Form 100) for obtaining the necessary approval from the AEC will be sent on request by the Company or the Isotopes Division, USAEC, P. O. Box E, Oak Ridge Operations, Oak Ridge, Tennessee.

A new lightweight film-cassette changer for taking stereoscopic views of the human chest has been developed for military field use by the Engineering Development Division of the Army-Navy Medical Procurement Office at its Fort Totten, New York laboratories. The new apparatus weighs only 75 pounds, as compared with currently available models ranging from 370-700 pounds, and has a volume of only 4.6 cubic feet. Lightweight construction has been attained by the elimination of heavy counterweights and by the use of lighter metals, principally aluminum.

Veterinarians are needed by the Bureau of Animal Industry of the

U. S. Department of Agriculture for work in such fields as Federal meat inspection and research, in the control of animal diseases. Graduates of recognized veterinary colleges who are interested may obtain further details by writing to the Bureau of Animal Industry, Agricultural Research Administration, U. S. Department of Agriculture, Washington 25, D. C.

A previously uncharted natural arch of white sandstone in southern Utah has been named Grosvenor Arch in honor of Gilbert Grosvenor, president of the National Geographic Society, by Jack Breed, Boston naturalist who discovered it during his Escalante Expedition from Bryce Canyon last summer. The arch thrusts eastward from a massive ridge and towers 152 feet above the valley floor. The underside of the main arch is 139 feet high, but the opening is worn only part of the way down, being 40 feet wide and 73 feet high. A second opening, 6 feet high and 4 feet wide, is close to the top and creates a double arch effect.

The Florida Academy of Science has completed the first 10 volumes of its *Quarterly Journal*. The Academy has attempted to include in the publication as little on its own business and as much original research material as possible. Papers are accepted entirely on merit.

Southwest Research Institute, the Institute of Inventive Research, and the Foundation of Applied Research have announced the following new appointments to their technical staffs: to SWRI, Charles E. Balleisen, Duffer B. Crawford, Dean Hawley, Maurice Holland, Leopoldo H. Mayoral, Gilbert D. McCann, Apolonio L. Morales, Ray Neumann, Norman C. Penfold, Kenneth Shaftan, Erwin R. Strong, Jr., and Judson S. Swearingen; to IIR, Ion Eddeleanu; and to FAR, Wayne A. Kalenich, Travis S. Richardson, and Raymond Umbaugh.

The Philadelphia Section of the American Chemical Society will sponsor two special noncredit courses on sulfur chemistry and on process control, each of which will be offered on ten successive Monday evenings, beginning February 21. The Section

has also arranged a series of lectures on the administration of industrial research, which will be presented on Tuesday evenings. The classes will be open to both members and non-members of the Society and will be located in the Philadelphia College of Pharmacy and Science, 43rd and Kingsessing Avenue, Philadelphia. Further information may be obtained from Dr. J. F. Gall, Whitmarsh Research Laboratories, Pennsylvania Salt Manufacturing Company, Wyndmoor, Pennsylvania.

Fossil remains of fish and plants of the Upper Triassic period (175,000,000 years ago) are being excavated near Haymarket, Virginia by David H. Dunkle, Smithsonian Institution paleontologist. The fish, which presumably lived in a fresh-water lake, were ancient forms of bony fishes whose extant descendants are the gar pike and the bow fin, or fresh-water dogfish. The ancient forms were hitherto poorly known in this region, although they are similar to those commonly found in rocks of comparable age in Massachusetts, Connecticut, and New Jersey.

Applications are being reviewed for the newly created position of Director of Research and Development at the Engineers Research and Development Laboratories, Corps of Engineers, U. S. Army, Fort Belvoir, Virginia. It is open to individuals with at least fifteen years' experience, exclusive of graduate work, ten of which should have been in research or as a research or development engineer. Five of the fifteen years' experience should have been as the chief of a branch or department of a research and development organization. The salary is \$12,500 per year. Applications may be made either in person or by letter to the Commanding Officer at the Laboratories.

Scientific writers and medical statisticians are needed at the Communicable Disease Center of the Public Health Service in Atlanta, Georgia. It is highly desirable that applicants for both types of position have experience in the biological sciences.

The positions are under federal civil service and salaries range from \$4,479.60 to \$10,305.00 per year (most of the jobs available are at the lower rate of pay). Further information may be obtained from S. R. Gervin, personnel officer at the Center.

The Public Health Research Institute of the City of New York has completed preliminary work toward setting up a laboratory for determining the Rh factor in human blood. Another laboratory recently developed performs virus diagnosis for physicians free of charge. Both laboratories are operated by the Bureau of Laboratories of the Department of Health.

Reserve commissions in the U. S. Army ranging from second lieutenant to a full colonel are available to qualified mathematicians and statisticians. Applicants must be citizens of the United States and between the ages of 21 and 55 inclusive. Full details of the commissioning program are provided in Department of the Army Circular No. 210, which may be obtained, together with application forms, from local Reserve Unit Headquarters or from Organized Reserve Unit Instructors, or by writing to Army Headquarters at New York, Baltimore, Atlanta, Chicago, Houston, or San Francisco.

The first license to manufacture oil from coal in the Union of South Africa was granted to the Anglo Transvaal Consolidated Investment Company. A designed capacity of 76,000,000 gallons of liquid fuel and oil a year is provided for and the coal will come from the deposits situated in the Vredefort district of the Orange Free State.

The Forest Service of the U. S. Department of Agriculture is studying means for avalanche control. Continuous skiing in some areas has been observed to keep the snow well enough packed so that it is not likely to slide. Recent experiments at Alta, Utah, showed that it is also possible to avert a slide by setting off explosives in danger spots when the area is clear of visitors.

Make Plans for—

American Mathematical Society, February 26, meetings in New York City and Chicago.

American Institute of Chemical Engineers, regional meeting, March 6-9, Los Angeles, California.

Institute of Radio Engineers, 1949 convention, March 7-10, Hotel Commodore and Grand Central Palace, New York City.

American Physical Society, Division of Solid State Physics, annual meeting, March 10-12, Hollenden Hotel, Cleveland, Ohio.

Optical Society of America, winter meeting, March 10-12, New York City.

Recently Received—

German gas turbine developments during the period 1939-1945. British Intelligence Objectives Sub-Committee Overall Report No. 12. British Information Services, 30 Rockefeller Plaza, New York 20, N. Y. \$35.

Fundamental education. (Bulletin 1948 No. 13, Office of Education.) Washington 25, D. C.: Supt. of Documents, U. S. Government Printing Office, 1948. \$10.

Bulletin of the American Physical Society, programme of the 1948 annual meeting at Columbia University, January 26-29, 1949. Lancaster, Pennsylvania: Prince and Lemon Streets. \$1.00.

The memorial review. Published by the Women's Society of Memorial Hospital Center for Cancer and Allied Diseases, 444 East 68th Street, New York 21, N. Y.

Report of the Chief of the Bureau of Entomology and Plant Quarantine, 1948. Publication of the Agricultural Research Administration, U. S. Department of Agriculture. Washington 25, D. C.: Supt. of Documents, U. S. Government Printing Office, 1949. \$15.

Further new Cambrian Bellerophon Gastropods by J. Brooks Knight. (Publ. 3951.) Washington, D. C.: Smithsonian Institution, 1948.