

NEWS and Notes

Harry F. Dowling has been named head of the newly established Department of Preventive Medicine at the University of Illinois College of Medicine. Dr. Dowling is now clinical professor of medicine at George Washington University.

Joseph G. O'Mara has been appointed professor and research professor of genetics at Iowa State College. Dr. O'Mara has been conducting research at the University of Missouri since 1936 as a member of the staff of the field crops group in the U. S. Department of Agriculture.

Clarence J. Hylander has been appointed executive secretary of the American Institute of Biological Sciences with headquarters at the National Research Council, Washington, D. C. Dr. Hylander was formerly chief of the Technical Information Section of the Medical Division, Army Chemical Center, Maryland. **Milton O. Lee**, who has been acting executive secretary, will continue as executive secretary of the NRC Division of Biology and Agriculture.

Henry Kritzler, former curator at Marine Studios, Inc., St. Augustine, Florida, has been appointed resident investigator at the Duke University Marine Laboratory at Beaufort, North Carolina, where he will be in charge of a year-round research program. **C. G. Bookhout**, associate professor of zoology at Duke, has been named director of the laboratory.

Visitors to U. S.

Harold Davenport, of the University College, London, **Werner Fenchel**, of the Polytechnical School, Copenhagen, **W. K. Hayman**, of Exeter College, England, and **W. W. Rogosinski**, of King's College, Newcastle, England, will be associated with the Mathematics Department of Stanford University during the summer quarter.

Hidesaburo Aoyama, professor of mining and metallurgy, **Seiji Kaya**, dean of the Faculty of Science, and **Hiroshige Shiota**, president of the Nippon Medical School, all of the University of Tokyo, were recent visitors at the National Bureau of Standards. They are members of the Japan Science Council, in the U. S. to observe advances in equipment and techniques in the various fields of science.

Franz Ollendorf, head of the Electrical Engineering Department of the Institute of Technology in Haifa, Israel, is in the U. S. to select equipment for his laboratory. He plans to visit the electrical engineering laboratories of several universities here.

Carl von Weizsacker, of the Physics Department, Göttingen University, Germany, recently visited Georgetown University, Washington, D. C. While there, he lectured on the "Evolution of Galaxies and Stars."

Seishi Kikuchi, chief of the Physics Department of Osaka University, has been appointed a member of the visiting research staff at Cornell University. He will serve as senior research associate at the university's Floyd Newman Laboratory of Nuclear Studies.

Grants and Awards

The first presentation of the newly created **Lemuel Shattuck Award** for the promotion of public health by a New Englander was made at the 60 anniversary meeting of the Massachusetts Public Health Association held at Boston University, April 25. The award will be given to **Charles-Edward Amory Winslow**, professor emeritus of public health, Yale University Medical School and editor of the *American Journal of Public Health*. April 25 marked the 100th anniversary of Lemuel Shattuck's "Report of the Sanitary Commission of Massachusetts."

The **Psychophysiology Branch, Human Resources Division, Office of Naval Research**, recently announced the following contracts: at Ohio State University, **J. W. Black** will study variables that affect intelligibility in voice communication; in-

vestigations of the nature of night vision to determine racial differences will be conducted at the University of Hawaii under the direction of **W. J. Holmes**; **D. R. Griffin** at Cornell University is studying the basic mechanisms by means of which flying mammals emit sonic and ultrasonic pulses; and research to determine the lower thresholds of smell sensitivity is being conducted by **F. N. Jones** at the University of California.

William F. Geddes, chief of the University of Minnesota's Agricultural Biochemistry Division, has been named recipient of the **Thomas Burr Osborne Medal** of the American Association of Cereal Chemists. Dr. Geddes, who was cited for his distinguished contributions in cereal chemistry, will receive the medal during the annual meeting of the association in Chicago in May.

The American Institute of Nutrition made the following awards at its annual meeting in Atlantic City on April 19: *Osborne and Mendel Award*, to **Conrad A. Elvehjem**, professor of biochemistry at the University of Wisconsin, in recognition of his contributions to the knowledge of vitamin and amino acid requirements of experimental animals; *Mead Johnson Vitamin B Complex Award* for 1950, to **William B. Castle**, of the Harvard University Medical School, for his investigations leading to the concept of extrinsic and intrinsic factors in pernicious anemia and his studies on the relation of B_{12} to pernicious anemia; *1950 Borden Award in Nutrition*, to **Henry C. Sherman**, professor emeritus at Columbia University, for his research on the nutritive importance of components of dairy products.

Atomic Energy Commission contracts in physical research, totaling \$1,345,660, have been awarded to 12 institutions during the first three months of 1950. The largest contract—\$1,250,000—was awarded the California Institute of Technology for the design, construction, and operation of a one-bev electron synchrotron. The project is being supervised by **Robert F. Bacher**, head of the Division of Physics, Mathematics, and Astronomy at Caltech

and former Atomic Energy Commissioner. Other newly awarded contracts are: George Washington University, *C. R. Naeser*, studies of the fluorides of the rare earth elements; New York University, *C. V. King*, measurement of metal dissolution rates in aqueous solutions of acids and oxidizing agents; Pennsylvania State College, *P. J. Elving*, research on polarography of organic compounds; University of Florida, *D. O. Swanson*, completion of one-Mev electrostatic generator now under construction; University of Illinois, *P. E. Yankwich*, hot atom chemistry and isotopic exchange reactions primarily between uncomplexed ions; University of Louisville, *R. H. Wiley*, synthesis and properties of ion exchange resins; University of New Hampshire, *H. H. Haendler*, certain uncommon inorganic fluorides; University of North Carolina, *S. Y. Tyree, Jr.*, study of molecular compound formation between zirconium tetrachloride and certain organic esters; University of Puerto Rico, *A. Cobas*, low latitude cosmic ray studies; Western Reserve University, *E. L. Pace*, thermodynamic properties of gases adsorbed on solids; Yale University, *L. Meites* and *J. M. Sturtevant*, study of polarographic diffusion with objective of increasing the accuracy of the polarographic method of chemical analysis.

Fellowships

To aid persons of ability to enter the library profession or to do advanced study in library science, the **University of Illinois Library School** is offering fellowships and assistantships for both postgraduate and undergraduate students. Included are graduate fellowships paying from \$700 for first year students to \$1,000 for third year students; the \$600 Katherine L. Sharp fellowship, teaching assistantships paying a base salary of \$2,400, research assistantships with a base salary of \$2,600, library assistantships at the same rate, and part-time student assistantships.

The Allied Chemical and Dye Corporation is offering 31 fellowships, mainly in the fields of chem-

istry and chemical engineering, to outstanding students in their final year of graduate study. The fellowships provide \$1,200 and tuition. The fellows and the research to be undertaken will be selected by the following schools: University of California, California Institute of Technology, Carnegie Institute of Technology, University of Chicago, Columbia University, Cornell University, Duke University, Harvard University, University of Illinois, University of Iowa, McGill University, Massachusetts Institute of Technology, University of Michigan, University of Minnesota, Northwestern University, Ohio State University, Pennsylvania State College, University of Pennsylvania, Polytechnic Institute of Brooklyn, Princeton University, Purdue University, Syracuse University, University of Wisconsin, and Yale University.

Summer Programs

Summer field courses in geology, for both graduate and undergraduate students, are being offered by the University of Nebraska, beginning June 7, at its permanent summer field camp in northwestern Nebraska. The program will be under the direction of Alvin L. Lugin, professor of geology at the university. The courses will be open to students from other universities and colleges, but they must apply for admission at least one month in advance of registration. Graduate work will be arranged to suit individual needs. Tuition and fees vary according to status as resident or nonresident student and number of credit hours desired. A deposit of \$85 is required to cover costs of the field course. Further information may be obtained from Prof. Lugin or from Prof. E. F. Schramm, chairman of the Department of Geology, University of Nebraska, Lincoln.

The Oregon Institute of Marine Biology has announced its tenth annual summer session at Charleston on Coos Bay, Oregon, from June 19 to August 11. The work in ichthyology will not be given this summer, but graduate and undergraduate

courses will be offered in botany, algology, ecology, and invertebrate zoology, including embryology. No out-of-state tuition is required of students from other states. Admission forms and additional information may be obtained from F. A. Gilfillan, Oregon Institute of Marine Biology, Corvallis, Oregon.

A course in catalysis in organic chemistry, offered this summer by Northwestern University, will make available the facilities of the Ipatieff High Pressure and Catalytic Laboratory to students of other institutions and to industrial chemists. Qualified persons will also be permitted to take advanced work in the field. Those interested should write at once to Dr. Herman Pines, Northwestern University, Evanston, Illinois, as the registration is limited.

A general chemistry workshop for teachers of general chemistry will be held July 12-23 on the campus of Oklahoma Agricultural and Mechanical College. The two-week conference is sponsored by the Division of Chemical Education of the American Chemical Society and will be directed by T. Bentley Edwards, of Chico College, Chico, California, and Theodore Ashford, of the University of Chicago. Further information may be had from J. A. Shotton, Department of Chemistry, Oklahoma A. and M. College, Stillwater, Oklahoma.

A course in medical mycology, under the direction of Norman F. Conant, will be offered at Duke University School of Medicine and Duke Hospital, July 3-29. Emphasis will be placed on the laboratory as an aid in diagnosing fungus infection. Work with patients, clinical material, cultures, and laboratory animals will serve as a basis for the course. Study of pathologic material, gross and microscopic, will be available to those with previous specific training. Registration for the course is limited and applications will be considered in the order in which they are received. A fee of \$50 will be charged. Inquiries should be directed to Dr. Conant, Duke University School of Medicine, Durham, North Carolina.

Meetings and Elections

A symposium on recent studies of the mammalian male sexual accessory glands will be held Monday evening, May 8, at the New York Academy of Science, 2 East 63rd Street, New York City. The symposium is sponsored by the academy's Biology Section. Papers will be presented by W. W. Scott, Johns Hopkins University, James Leatham, Rutgers University, E. D. Goldsmith, New York University College of Dentistry, R. F. Nigrelli, New York Zoological Society, and J. B. Trunnell and B. J. Duffy, Jr., of Sloan-Kettering Institute for Cancer Research, New York City.

The American Malacological Union will hold its 16th annual meeting at the Chicago Natural History Museum, June 14-16. Titles and abstracts of papers should be sent as soon as possible to Dr. Fritz Haas, Chicago Natural History Museum, Roosevelt Road and Lake Shore Drive, Chicago. Hotel and dinner reservations should be made with Dr. Haas not later than June 10.

The Seventh International Congress of the International Society for Cell Biology will be held at Yale University September 4-8. Dates of the sessions and their chairmen are as follows: September 4—Chemical Organization of Protoplasm, *J. F. Danielli*, Chester Beatty Research Institute, Royal Cancer Hospital, London; September 5—Nuclear and Chromosomal Structure, *T. Caspersen*, director of the Department for Cell Research, Karolinska Institute, Stockholm; Nucleocytoplasmic Relations, *T. M. Sonneborn*, Indiana University, Bloomington; September 6—Mitosis, *Honor B. Fell*, Strangeways Research Laboratory, Cambridge, England; Cell Nutrition, *A. Haddow*, Chester Beatty Research Institute, Royal Cancer Hospital, London; September 7—Fine Structure of Cells, *E. Fauré-Fremiet*, Collège de France, Paris; Fertilization, *C. W. Metz*, director of Zoological Laboratory, University of Pennsylvania, Philadelphia; Enzymes in Embryos, *Heinz Holter*, Carlsberg Laboratory, Copen-

hagen; September 8—Reproduction of Cytoplasmic Particles, *Albert Claude*, Institut Jules Bordet, Brussels; Cell Surfaces, *J. Runnstrom*, Wenner Grens Institute, Stockholm.

The American Society for the Study of Arteriosclerosis will hold its annual meeting November 5-6 at the Knickerbocker Hotel in Chicago. Contributions to the scientific program are invited. Titles and abstracts (not exceeding 200 words) should be sent not later than June 15 to G. Lyman Duff, chairman of the Program Committee, 3775 University Street, Montreal, Canada.

The Association of Geology Teachers elected the following officers for 1950-51 at its meeting in Urbana, Illinois, April 14-15: president, Paul R. Shaffer, University of Illinois; vice president, Rudolph Edmund, Augustana College; secretary-treasurer, Raymond C. Gutschick, University of Notre Dame; and editor, William F. Read, Lawrence College.

The Society of Agricultural Scientists of Finland at its annual meeting in Helsinki, Finland, March 9, elected J. Vuorinen to succeed E. A. Jamalainen as chairman. John E. Kotila, senior pathologist of the Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Maryland, was elected corresponding member.

NRC News

An advisory committee on physiology to the Office of Naval Research has been established in the American Institute of Biological Sciences of the NRC. This is the second of several committees planned by the AIBS to provide advisory services to ONR on research proposals submitted to it for support, and to evaluate the ONR research program.

Members of the new committee are: Ralph W. Gerard, professor of physiology, University of Chicago, chairman; Edward Baltes, professor of biophysics, Mayo Clinic; Fred D'Amour, professor of zoology, University of Denver; Olive McCay, professor of nutrition, Cornell Univer-

sity; and Carl Schmidt, professor of pharmacology, University of Pennsylvania School of Medicine. The committee held its first meeting April 22-23.

In conjunction with the International Nickel Company's annual Kure Beach Corrosion Conference, to be held June 7-9, the company and the NRC's Prevention of Deterioration Center are jointly sponsoring a Kure Beach Marine Conference, at Wrightsville, North Carolina, June 5-6. The Monday session, which will be opened by Admiral J. F. Jelley, chief, Bureau of Yards and Docks, Department of the Navy, will hear reports on marine engineering problems and discussions on the salt-water deterioration of wood, concrete, and steel. The Tuesday meetings will consider marine biological research, particularly recent studies on protection against marine borers. A tour of the company's marine testing facilities will be included. Programs may be obtained from Dr. Glenn A. Greathouse, NRC, 2101 Constitution Ave., Washington 25, D. C.

The NRC's Committee on Drug Addiction and Narcotics, at its meeting on March 10, approved the first two grants to be awarded under its new research fund. The grants were made to M. H. Seevers, professor of pharmacology, University of Michigan Medical School, for studies designed to determine the value of the monkey for predicting addiction liability to the newer synthetic analgesics; and to Henry K. Beecher, Dorr Professor of Research in Anesthesiology, Harvard Medical School, for a study of methods for the clinical evaluation of new analgesic drugs.

The new research fund has been guaranteed by Endo Products, Inc.; Hoffman-LaRoche, Inc.; Lederle Laboratories, Inc.; Eli Lilly & Co.; Mallinckrodt Chemical Works; Merek & Co, Inc.; New York Quinine & Chemical Works, Inc.; Parke, Davis & Co.; The Upjohn Co.; and Winthrop-Stearns, Inc. Although the fund is now fully obligated, the committee hopes to be able to consider additional applications later.

Deaths

Thomas B. Hutcheson, dean of agriculture at Virginia Polytechnic Institute, died April 8 of a heart attack at his home in Blacksburg, Virginia. He was 68 years old. Dr. Hutcheson was head of the Agronomy Department at the institute for more than 20 years.

H. Evert Kendig, dean of the Temple University School of Pharmacy since 1932, died April 18 in Philadelphia at the age of 71. Dr. Kendig had served on the Pharmacy School's faculty at Temple for 42 years, and received the university's alumni distinguished service award in February, 1949.

Vaman Ramachandra Kokatnur, chemist and inventor, died April 18 at his home in New York City at the age of 63. Dr. Kokatnur was born in Athani, India, and became an American citizen in 1921. His patents, totaling more than 30, have a wide range of industrial uses.

Charles Drew, 45, Negro physician and pioneer in the field of blood plasma, was killed in an automobile accident near Burlington, North Carolina on April 1. Dr. Drew was professor of surgery and head of the department at Howard University. In 1940 he served as full-time medical director of the plasma project for Great Britain, and in 1941 was appointed the first director of the blood banks for the American Red Cross.

The American Library Association recently published a 1949 membership directory. The 400-page volume contains the names and addresses of 19,694 members as of November 1, 1949. Copies, priced at \$5.00, may be obtained from the American Library Association, 50 East Huron Street, Chicago 11.

Research data on atomic radiation effects is being made available by the Navy to civilian physicians and medical officers of the armed services and federal agencies. Pathological slide study sets and literature prepared by the Naval Medical Research Institute, Bethesda, Maryland, have been provided to naval hospitals throughout the country. The commanding officer of each

naval hospital will arrange for interested physicians in their area to join with Navy doctors in the use of this study material. The program does not replace or supplement any established course concerning effects of atomic radiation.

The Biochemistry Branch of the Office of Naval Research announces that it is accepting research proposals for study at the fall meeting of its Advisory Panel. For further information address the Biochemistry Branch, Code 442, Office of Naval Research, Navy Department, Washington 25, D. C.

The National Science Foundation Act was passed in its final form by the House of Representatives on April 27 and by the Senate on April 28. President Truman is expected to sign the bill before this issue of *Science* appears.

The Senate-House conference committee, in writing the final version of the bill, accepted the budget ceilings of \$500,000 for the first year and \$15,000,000 a year thereafter, that were included in the House bill. The conference committee gave greater power to the board and less to the director and the (optional) executive committee then had the bills passed earlier by the two houses. Although this change is in the direction of the bill vetoed in 1947 by President Truman, his other objections to the earlier bill have been met and so his signature is expected.

The final bill left out entirely the controversial loyalty amendments introduced by Representatives Smith and Flood and substituted a new section which requires clearance of all persons who have access to material affecting national security; it does not require clearance of other persons. Scholarship and fellowship holders will be required to sign an affidavit of loyalty and an oath of allegiance.

The next task is for President Truman to select the 24 members of the board. He has already received nominations for those posts from some of the agencies invited in the bill to suggest board members. The director cannot be appointed until after the board has held its first meeting and had an opportunity to

suggest possible candidates for the position.

This bill is frankly a compromise, but perhaps as good a compromise as could be obtained now. If changes seem necessary later, amendments can be made. In the meantime the Foundation can get started on its task of developing and helping to implement a national policy for the promotion of basic research and education in the sciences.

Recently Received—

Report of the Medical Research Council, 1945-48. Committee of Privy Council for Medical Research. His Majesty's Stationery Office, London, W. C. 2. 5s.

The Salticid Spiders of Jamaica. Elizabeth B. Bryant. Vol. 103, No. 3, Bull. of Museum of Comparative Zoology, Harvard College, Cambridge, Mass.

Types of S. Typhosa in Israel and the Near East and Their Epidemiological Significance. L. Olitzki and M. Shelubsky. Research Council of Israel. Azriel Printing Works, Jerusalem. 3 s.

Studies of South American Plants, XII. A. C. Smith. Vol. 29, Part 8, Smithsonian Institution. U. S. GPO, Washington 25, D. C. 35 cents.

Non-Parasitic Disorders of Apple Fruits in Australia. W. M. Carne. Bull. 238, Council for Scientific and Industrial Research. 314 Albert St., East Melbourne, C.2, Victoria, Australia.

Transactions of the Royal Society of Edinburgh. Vol. 61, Part 3. Oliver and Boyd, Tweeddale Court, Edinburgh; 98 Great Russell St., London. 54 s.

Biological Antioxidants. Trans. Third Conference. Oct. 7-8, 1948. Cosmo G. Mackenzie, ed. Josiah Macy, Jr. Foundation, 565 Park Ave., NYC. \$2.70.

Blood Clotting and Allied Problems. Trans. Second Conference, Jan. 24-25, 1949. Joseph E. Flynn, ed. Josiah Macy, Jr. Foundation, 565 Park Ave., NYC. \$2.25.

Metabolic Interrelations. Trans. First Conference, Feb. 7-8, 1949. Edward C. Reifstein, Jr., ed. Josiah Macy, Jr. Foundation, 565 Park Ave., NYC. \$2.95.