

tory of fellowships offered by government, foundations, industry, and other sources outside of universities. Copies of the book may be obtained at \$3.75 from the Publications Division of the American Council on Education, 1785 Massachusetts Ave., NW, Washington 6, D.C.

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A set of final examinations given at the Russian 10-year school was included in testimony on Soviet education presented by Vice Admiral Hyman Rickover to the House Appropriations Committee at hearings last August. Recently the printed transcript containing the examinations was made available. Normal circulation for such a record is 1000 copies; however, within 10 days the committee had received requests for more than 5000 copies.

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An exchange program between the Czechoslovak Academy of Sciences and the Waldemar Medical Research Foundation is now in progress. Three scientists from the Czechoslovak Academy will pursue their researches at the foundation's Port Washington, N.Y., laboratories during the 1959-60 period, and in 1960-61 representatives of the Waldemar laboratory will conduct studies in Czechoslovakia. These studies are concerned with problems of tumor immunity, immunotherapy, and the pathophysiology of the host-tumor relationship.

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Funds for the performance of research and development in private industrial firms totaled \$7.2 billion in 1957, according to a National Science Foundation report, *Funds for Research and Development Performance in American Industry, 1957*. Of this amount, more than half was accounted for by two industries: the aircraft industry and the electrical equipment industry. Total performance of research and development in private firms increased about one-fifth between the 2 years covered, 1956 and 1957, from \$6 billion to \$7.2 billion. The survey also showed that during 1957 \$3.7 billion, or slightly more than one-half of the total research and development performed by private industrial firms, was financed by the Federal Government.

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Massachusetts General Hospital, Boston, has received a gift of \$1 million from the Joseph P. Kennedy, Jr. Memorial Foundation for the establishment of the Joseph P. Kennedy, Jr. Laboratories for Research on Mental

Retardation. Half of the amount will be spent for the construction of the laboratories and the other half will serve as an endowment to provide continuing operating funds. The new research unit will be concerned with the causes, treatment, and prevention of diseases of the brain occurring during infancy and childhood. The work will be directed by Raymond D. Adams, the hospital's chief of neurology and Bulard professor of neuropathology, Harvard Medical School.

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A monograph entitled "The Analysis of Fatty Acid Mixtures by Gas-Liquid Chromatography: Construction and Operation of an Ionization Chamber Instrument," by John W. Farquhar *et al.* of the Rockefeller Institute, was published as a separate supplement to the August issue of *Nutrition Reviews*. Reprints of this 30-page, illustrated pamphlet are available, free, from the publisher of *Nutrition Reviews*, the Nutrition Foundation, Inc., 99 Park Ave., New York 16, N.Y.

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A United States exhibit describing the historical development and use of high-speed computers in information processing has begun a tour of French universities and other European educational centers. The exhibit, "Progress in Information Processing," was prepared by the National Science Foundation in cooperation with other government agencies and with industrial groups. The tour is sponsored by the U.S. Information Services. Showings also have been arranged at meetings and institutions in the United States.

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A "Summary-Analysis" of hearings on industrial radioactive waste disposal was released recently by the Joint Congressional Committee on Atomic Energy. The publication reviews the major points developed during hearings held during January, February, and July 1959, by the Special Subcommittee on Radiation, under the Chairmanship of Representative Chet Holifield (D-Calif.).

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According to Peking radio, scientists in mainland China have discovered a well-preserved lower jaw of a Peking woman, a human being who lived half a million years ago. The jaw was excavated by a team from the Institute of Vertebrate Paleontology of the Chinese Academy of Sciences in a cave at Choukowitz, outside of Peiping, where the first fossils of Peking man were found in 1929.

Scientists in the News

Hans A. Bethe, theoretical physicist, who in 1938 developed the theory that the carbon-nitrogen cycle is instrumental in the sun's energy production, has been named recipient of the Franklin Medal, highest award of the Franklin Institute. Bethe, who is the John Wendell Anderson Professor of Physics at Cornell University, received the medal at formal institute ceremonies on 21 October.

Wallace R. Brode, science adviser to the Department of State, was named president-elect of the Optical Society of America at its 44th annual meeting. He will succeed **James G. Baker**, consultant to the Harvard University Observatory, who is president of the society for 1960.

Armin C. J. Braun has been appointed a member and professor of the Rockefeller Institute. Braun, a plant physiologist, has been at the Institute since 1938. Among other honors, he has received the Newcomb Cleveland prize of the AAAS, which was presented at the 1949 Annual Meeting.

John P. Conrad, professor of agronomy at the University of California, Davis, retired 1 October after 38 years of service. In 1947, Conrad was chosen Faculty Research Lecturer at Davis in honor of his work on soils and crop-yield relationships. His studies have included effects of crop residues on yields of following crops and basic work on soil enzymes.

Conrad expects to leave this month for a 2-year assignment in Panama City, where he will be curriculum adviser to a new College of Agriculture at the University of Panama.

The following individuals have received the Special 1959 Albert Lasker Awards for Extraordinary Public Service to the nation's health: **Senator Lister Hill** (Alabama), chairman of the Senate Committee on Labor-Health, Education, and Welfare Appropriations; **Representative John E. Fogarty** (Rhode Island), chairman of the House Subcommittee on Labor-Health, Education, and Welfare Appropriations; **Maurice Pate**, executive director, United Nations Children's Fund, New York; **John Holmes Dingle**, Western Reserve University Medical School, Cleveland; **Albert Coons**, Harvard University Medical School, Cambridge;

Jules Freund, National Institutes of Health, Bethesda, Md.; **Gilbert Dall-dorf**, The National Foundation, New York, and formerly head of research laboratories, State Department of Health, Albany, N.Y.

The Franklin Institute has awarded the Frank P. Brown Medal posthumously to **Hardy Cross**, a former Yale professor, whose original moment distribution method revolutionized the design procedures for reinforced-concrete structures. The medal citation to Cross, who died in February of this year, reads: "For his outstanding career as a teacher, especially of engineering students during the past fifty years at Hampden-Sydney College, Brown University, the University of Illinois, and Yale University; for his many contributions to professional publications during this time; and finally for his original and later supplementary papers on the moment distribution method of analyzing indeterminate structures."

Navy Distinguished Public Service awards were recently made to **Lawrence Gould**, president of Carlton College, Northfield, Minn.; **Herbert Wexler** of the United States Weather Bureau; and **Hugh Odishaw** of the National Academy of Sciences. The awards were given to the three civilian scientists for their direction of International Geophysical Year programs.

Vincent dePaul Goubeau, vice president and director of materials of the Radio Corporation of America, recently received the Howard Coonley Medal of the American Standards Association. **William L. Barth**, retired head of the engineering standards section of General Motors Corporation and executive secretary of the standards committee, received the association's Standards Medal. The two gold medals were presented at an award dinner 21 October in conjunction with the Tenth National Conference on Standards.

Arthur Chovnick, assistant director of the biological laboratory of the Long Island Biological Association of Cold Spring Harbor, has been appointed director. He will succeed **M. Demerec** upon the latter's retirement on 1 July 1960.

C. William Besserer and **Floyd E. Nixon** have joined Prentice-Hall, Inc. as coeditors of the Space Technology Series.

Louis G. Henyey has been appointed director of the Leuschner Observatory and chairman of the department of astronomy at the University of California, Berkeley. He succeeds **Otto Struve**, who has taken a leave of absence from the University to serve as director of the National Radio Astronomy Laboratory at Green Bank, W. Va.

John F. Morse has been appointed chief of the student-loan program under the National Defense Education Act. Morse, who will be on leave as vice president of Rensselaer Polytechnic Institute, in Troy, N.Y., succeeds **Peter P. Muirhead**, now director of the financial aid branch of the Office of Education's Division of Higher Education.

Sylvan Wallach, assistant project manager with Gibbs and Cox, Inc., has been named manager of the theoretical department of Associated Nucleonics, Inc., a subsidiary of Stone and Webster Engineering Corporation. He will be responsible for reactor physics, shielding, hazards analyses, and related work performed as part of the company's consulting services in the nuclear field.

The 1958 Wien Award for outstanding contributions to the science of cancer cytology will be presented to **John R. Heller** at a citation dinner to be held 7 November. The award is made annually to the scientist whose work or projects represent "outstanding research in cancer cytology." The award consists of \$1000 cash and a bronze plaque.

Loren Eisely, anthropologist, resigned 16 October as chairman of the department of anthropology at the University of Pennsylvania, to become provost of the university. He will continue as a professor in the department.

The following scientists will receive awards at the 41st National Metal Exposition and Congress of the American Society for Metals, to be held 2-6 November in Chicago.

Rene Perrin, president and board chairman of Ugine Steelworks, France, will receive the Albert Sauveur Award.

John L. Atwood, president of the North American Aviation, Inc., will receive the ASM Medal for the Advancement of Research.

Matthew A. Hunter, dean emeritus of Rensselaer Polytechnic Institute, will receive the 1959 Gold Medal of the ASM.

Recent Deaths

Fred W. Borden, San Francisco, Calif.; 65; inventor of the standard x-ray stereoscope, a device for three-dimensional viewing of x-rays, and the Borden Hemorrhometer, an instrument for continuous measurement of blood lost during surgery; 24 Sept.

Wheeler P. Davey, University Park, Pa.; 73; retired research professor of physics and chemistry at Pennsylvania State College; author of *A Study of Crystal Structure*; 12 Oct.

Nathan L. Drake, Riverdale, Md.; 60; University of Maryland professor of chemistry and chairman of the department; 13 Oct.

Harry D. Kitson, Mishawaka, Ind.; 73; retired professor of psychology, Teachers College, Columbia University, and a specialist in vocational guidance; author of *How to Use Your Mind*; 25 Sept.

Paul Kosok, New York; 63; archeologist and former chairman of the department of history and government at Long Island University; author of *Land, Water, and Life in Ancient Peru*; 4 Oct.

Benno E. Lisher, St. Louis, Mo.; 83; dean emeritus of the Washington University School of Dentistry; 9 Oct.

Julian D. Loudon, Toronto, Canada; 78; retired chief physician at St. Michael's Hospital and author of many medical papers; 16 Oct.

Bela Mittelman, New York; 60; psychoanalyst and research psychiatrist; visiting professor at the Albert Einstein College of Medicine; 4 Oct.

Julia E. Moody, Natick, Mass.; 90; professor emeritus of zoology at Wellesley College; 16 Oct.

Gottfried Neumann, New York, N.Y.; 58; assistant professor of gynecology and obstetrics at New York University-Bellevue Medical Center, and chief of the Sterility Clinic at Bellevue Medical Center; 26 Sept.

Frederick H. Paulson, Warwick, R.I.; 61; former director of the American Society of Civil Engineers; 29 Sept.

Frank P. Shepard Jr., Greenwich, Conn.; 39; assistant professor of pathology at Columbia University; 14 Oct.

Paul Welch, Ann Arbor, Mich.; 77; professor emeritus of zoology at the University of Michigan; noted researcher in entomology and limnology; author of a textbook *Limnology*; 1 Oct.

O. B. Williams, Austin, Texas; 64; chairman of the department of bacteriology at the University of Texas; 23 Sept.