

to turn out two or possibly three squadrons of Jupiters at the most. All other squadrons of the nuclear armed 1,500-mile range missiles will be Thors. Production of the Jupiter weapon, however, will continue for an indefinite time.

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The Atomic Energy Commission is inviting proposals for the development, design, construction, and operation within the United States, including its territories and possessions, the Canal Zone, and Puerto Rico, of a gas-cooled, graphite-moderated, nuclear power plant of sufficient size to serve as an effective prototype for a future full-scale power plant of similar design. The invitation is extended to individual organizations or groups of organizations representing privately, publicly, or cooperatively owned power groups, and to equipment manufacturers, or others. Proposals must be received by the commission within 60 days from 22 September 1958.

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An x-ray unit that will permit physicians to examine the heart at work on an 8-inch television screen was demonstrated in Washington last month. The unit, called a specialized cardiologic table, makes fluoroscopic examination for possible heart diseases easier, faster, and safer. The device, developed after 3 years of research, substantially diminishes the amount of radiation a patient is subjected to. An integral motion picture camera allows more detailed study of the heart after the initial exposure to the x-rays.

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The Smithsonian Institution has announced a new booklet, *Anthropology as a Career*, that describes the major subdivisions of anthropology and offers advice on courses and outside activities for high school and college students who intend to specialize in the subject. The booklet, which was prepared by William G. Sturtevant, may be obtained for 20 cents from the Editorial and Publication Division, Smithsonian Institution, Washington 25, D.C.

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A radar with a 1000-foot dish antenna is being designed by Cornell University scientists. Two sites are being considered for the instrument. One is a limestone sink in Puerto Rico. The other is a similar formation in Texas. The radar unit, which should be completed by the spring of 1961, is to be used to obtain space data which once seemed accessible only to artificial satellites.

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The Public Health Service reports that the number of people in the United States without ready access to general hospitals has dropped from 10 million to 2.8 million since 1948. Even in the most rural areas only a small percentage

of the population is now without nearby hospital facilities.

This and other evidence of progress in hospital planning and construction, as well as needs for other types of health facilities, are shown in a new PHS publication, *The Nation's Health Facilities—Ten Years of the Hill-Burton Hospital and Medical Facilities Program, 1946-1956*.

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With the opening of the 1958-59 school year, seven panel trucks left the American Museum of Atomic Energy to begin the fourth year of the Atomic Energy Commission's high-school demonstration program "This Atomic World." This year's schedule will bring the program to 1069 schools in 15 states before the end of the school year.

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The North Carolina Engineering Foundation has announced plans to finance the establishment of seven distinguished professorships in the School of Engineering at North Carolina State College. This will enable the college to provide substantial supplements to the state salary scale for the employment of a core of outstanding engineering educators.

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The captain and 16 engineers of the world's first nuclear-powered merchant ship, the *Savannah*, have begun training for the posts they will assume when their ship makes her maiden voyage early in 1960. The group will study at the Marine Reactor Training School in Lynchburg, Virginia. The Babcock and Wilcox Company, builders of the *Savannah's* reactor, will conduct the school. The training period, to qualify the engineers to operate the ship's 74,000-watt power plant, will be 15 months in length.

### Scientists in the News

RICHARD COURANT has retired as scientific director of New York University's Institute of Mathematical Sciences and head of the university's mathematics department to become professor emeritus of mathematics and science adviser to the university. Courant joined N.Y.U. from Göttingen University in Germany, where from 1920 to 1933 he was professor of mathematics and director of the Mathematical Institute, at that time a world-recognized center for mathematics. He has been head of the department of mathematics at N.Y.U.'s Graduate School of Arts and Science since 1934, and scientific director of the Institute of Mathematical Sciences, the largest mathematics center in the United States, since its creation in 1953.

In July, for his "outstanding contributions" during and since the war, Courant

received the Navy Distinguished Public Service Award. This year Courant also received three honorary doctor-of-science degrees—from New York University, Case Institute of Technology, and the Technische Hochschule in Aachen, Germany. In 1955 the Technische Hochschule in Darmstadt, Germany, conferred the honorary degree of doctor of engineering.

New York University honored Courant earlier with the establishment at the university of the Richard Courant lectureship in mathematical sciences. This was announced last January during a convocation for the eminent mathematician on the occasion of his 70th birthday.

Courant is a member of the Royal Netherlands Academy of Science and Letters, the Accademia Nazionale dei Lincei (Rome), the Akademie der Wissenschaften (Göttingen), and the National Academy of Sciences and the American Philosophical Society in the United States.

CEDRIC W. M. WILSON of the department of pharmacology and general therapeutics, University of Liverpool, England, has been awarded a Medical Research Council traveling fellowship for a year to work at the National Heart Institute, Bethesda, Md.

EDWIN M. McMILLAN, Nobel laureate and professor of physics at the University of California, has been appointed director of the university's Radiation Laboratory to succeed the late ERNEST O. LAWRENCE, Nobel Laureate and inventor of the cyclotron. McMillan, an associate director of the Radiation Laboratory since 1954, is a member of the General Advisory Committee of the Atomic Energy Commission. He and Glenn Seaborg shared the Nobel prize in 1951 for their work on the transuranium elements. McMillan also is the discoverer of the theory of phase stability, which paved the way for present research in ultrahigh energy physics.

WILLIS C. BEASLEY, director of the Biophysics Research Laboratory, Bethesda, Md., and director of the Kinesiology Laboratory, Elizabeth Kenny Institute, Minneapolis, Minn., received the gold medal of the American Congress of Physical Medicine Rehabilitation for his scientific exhibits on "Ontogenetics and Biomechanics of Ankle Plantar Flexion Forces" at the congress' meeting in Philadelphia on 28 August.

ROBERT SIMHA, well known in the high-polymer field, will serve as visiting professor of chemistry at the University of Southern California for the academic year 1958-59.

Three major awards will be presented during the 40th annual meeting of the American Society for Metals, which will take place in Cleveland, Ohio, 27-31 October. ALBERT J. PHILLIPS, vice president and director of research, American Smelting and Refining Company, South Plainfield, N.J., will receive the society's Gold Medal; CRAWFORD H. GREENEWALT, president, E. I. DuPont de Nemours & Company, Wilmington, Del., is to receive the Medal for Advancement of Research; and WILLIAM G. PFANN, physical metallurgist, Bell Telephone Laboratories, Inc., Murray Hill, N.J., will receive the Albert Sauveur Achievement Award.

RALPH H. WETMORE of Harvard University will discuss "Morphogenesis in Plants—A New Approach" as a Sigma Xi national lecturer at a number of colleges and universities during October and November.

OLGA LAKELA, after serving for 26 years as a teacher of biology in schools of North Dakota and Minnesota and for 15 years as professor of botany and curator of the herbarium at Duluth State Teachers College and the Duluth Branch of the University of Minnesota, retired as professor emeritus on 15 June 1958.

The Institute for Cancer Research, Philadelphia, Pa., has announced the formation of a Scientific Advisory Committee that consists of the following men: RENATO DULBECCO, professor of biology, California Institute of Technology; DAVID R. GODDARD, professor of botany and director of the division of biology at the University of Pennsylvania, and professor at the Rockefeller Institute, New York; ALEXANDER HADDOW, professor and director, Chester Beatty Research Institute, London, England; ALBERT L. LEHNINGER, professor and director, department of physiological chemistry, Johns Hopkins School of Medicine; and JONATHAN E. RHOADS, professor of surgery and surgical research, and provost, University of Pennsylvania.

The American Society for Horticultural Science has made the following awards for 1958: Leonard H. Vaughan Award in floriculture, J. P. NITSCH, Cornell University, "Growth Responses of Woody Plants to Photoperiodic Stimuli"; Leonard H. Vaughan Award in vegetable crops, IRVING L. EAKS and LEONARD L. MORRIS, University of California, Davis, "Deterioration of Cucumbers at Chilling and Non-Chilling Temperatures"; Charles G. Woodbury Award in raw products research, E. L.

PROEBSTING, JR., G. H. CARTER, D. W. INGALSBE, and A. M. NEUBERT, Washington State College, Pullman, "Relation between Leaf Nitrogen and Canning Quality of Elberta Peaches"; Joseph Harvey Gourly Award, L. P. BATJER, H. D. BILLINGSLEY, M. N. WESTWOOD, and B. L. ROGERS, U.S. Department of Agriculture, Wenatchee, Wash., "Predicting Harvest Size of Apples at Different Times during the Growing Season."

MALCOLM M. RENFREW will return on 11 February 1959 to his alma mater, the University of Idaho, to become professor of chemistry and head of the department of physical sciences. Renfrew, who has been director of research and development for Spencer Kellogg & Sons, Buffalo, N.Y., since 1954, and has served in similar capacities for DuPont and General Mills, will succeed WILLIAM E. CONE as department head. Cone, a member of the faculty for 34 years, will relinquish his administrative duties but will continue as professor of chemistry.

The Leidy Medal of the Academy of Natural Sciences of Philadelphia has been awarded to HERBERT B. HUNGERFORD, professor emeritus of entomology, University of Kansas. The medal, which will be presented at a ceremony in the academy on 23 October, is given every 3 years for "the best publication, exploration, discovery or research in the natural sciences." Hungerford's research has been devoted to the ecology and biology of water insects. He is a world authority on the taxonomy of certain aquatic families.

Vanderbilt University School of Medicine is holding symposia on Nutrition in Internal Medicine and on Medical Education in honor of JOHN B. YOUNG, 4-5 December.

FRANK A. BEACH, JR., formerly of Yale University, and M. BREWSTER SMITH, formerly of New York University, have joined the faculty of the University of California as professors of psychology. Beach is a specialist in animal behavior and the relation of hormones and the nervous system to behavior. Smith, a social psychologist, has made contributions in the investigation of attitudes and personality.

JOSEPH MIGLIARESE has been named head of the Colgate-Palmolive Company's new Laboratory for Biological Research, which is located adjacent to Rutgers University at New Brunswick, N.J. Migliarese, formerly on the Rutgers staff, has been with Colgate for 3 years.

JOSEPH W. LONDEREE has been appointed research manager of the new glass refractories department in the Ceramic Research Laboratory of Corning Glass Works, Corning, N.Y. He has been a member of the research staff of Corhart Refractories Company, Inc., a wholly owned subsidiary of Corning.

MORRIS E. FRIEDKIN, associate professor of pharmacology at the Washington University School of Medicine, has been appointed professor and chairman of the department of pharmacology at the Tufts University School of Medicine. He will succeed BYRON B. CLARK, who has resigned after 10 years to join a midwestern pharmaceutical firm.

Science Service, Washington, D.C., has announced two new staff appointments. RALPH SEGMAN, formerly science editor of Employee Communications at Eli Lilly and Company, is news editor, succeeding HOWARD SIMONS, on leave in order to accept a Nieman fellowship at Harvard University.

DOROTHY SCHRIVER is executive secretary of Science Clubs of America, a Science Service activity, and she has also been designated coordinator of the National Science Talent Search for the Westinghouse Science Scholarships and Awards, administered by Science Service. Mrs. Schriver has been associated with Science Service since 1941. She succeeds MARGARET PATTERSON, who has resigned.

A. M. RABINER has been named professor emeritus of neurology at the State University of New York Downstate Medical Center in Brooklyn. A member of the center's faculty since 1937 when it was still the Long Island College of Medicine, Rabiner retired as professor and head of the division of neurology on 31 August. On the same date he retired as director of neurology at the Kings County Hospital.

Three British scientists received John Price Wetherill Medals from the Franklin Institute on 15 October "for their basic developments which provided the first useful highpower pulsed microwave magnetron, and which established the fundamental principles upon which all later developments in this field were based." The recipients were JOHN T. RANDALL, Wheatstone professor of physics at the University of London, King's College; HENRY A. H. BOOT, a senior principal scientific officer at the Services Electronics Research Laboratory, Baldock; and JAMES SAYERS, professor of electron physics at the University of Birmingham.