

cesses. Three small United States satellites went into orbit. In May the Russians far overmatched them with the ton-and-a-half Sputnik III. But the United States followed with "lunar probes" that reached a quarter of the distance to the moon, and the first successful flight of an Atlas Intercontinental Ballistic Missile at full range of more than 6000 miles. In December a full Atlas rocket went into orbit—a feat comparable to the Russians' with Sputnik III. That Russia is still ahead, however, is apparent from their successful moon shot on 2 January."

News Briefs

The Atomic Energy Commission has contracted with the American Municipal Association to assemble and report on the available information relating to the impact of private atomic energy activities on local government. The contract cost of the study, which is to be completed in 6 months, is \$14,860.

In authorizing the study, the commission noted that there has been growing interest and concern on the part of municipalities about the potential impact of private atomic energy activities on local governmental functions, services, and responsibilities, particularly with regard to public health and safety, fire protection, and zoning.

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The National Aeronautics and Space Administration has established an Inventions and Contributions Board to evaluate scientific contributions to aeronautical and space technology. The board will recommend actions which would reward an inventor or contributor, or waive the government's title to inventions made in the performance of work under NASA contract. These decisions will apply to contributions by private citizens as well as NASA and other government employees, and NASA contractors. More than 250 proposals for aeronautical and space technology have been submitted to NASA since the National Aeronautics and Space Act of 1958 was passed last July.

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Levels of strontium-90 in milk increased during September in eight out of ten sampling stations across the country, the Public Health Service reported recently. All samples remained well below the levels currently considered by the National Committee on Radiation Protection and Measurements to be permissible for consumption.

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The second Holloman Summer Lecture Series, sponsored by the Air Force Missile Development Center, will be held 15–26 June in Cloudcroft, N.M. The lec-

turers will be Theodore von Kármán, Karl Pohlhausen, Paul S. Epstein, and Wallace D. Hayes, each widely known for his work in aerodynamics, physics, or applied mathematics. Housing information and other details may be obtained from Dr. J. R. Foote, P.O. Box 1053, Holloman AFB, N.M.

Grants, Fellowships, and Awards

Astronautics. The annual Daniel and Florence Guggenheim Fellowships for graduate study in astronautics, rockets, jet propulsion, and flight structures have been announced by the Daniel and Florence Guggenheim Foundation. From 18 to 20 fellowships will be given for study during 1959–60 at the Daniel and Florence Guggenheim Jet Propulsion Centers at Princeton University and California Institute of Technology and at the Daniel and Florence Guggenheim Institute of Flight Structures at Columbia University. The fellowships, of which six to eight are awarded for advanced study at each center and the institute, provide tuition and a stipend ranging from \$1500 to \$2000, depending on the stage of advancement of the student.

Fellowships are open to science or engineering students who are residents of the United States or Canada, who have outstanding technical ability and leadership qualities, and who intend to make a career in rockets, jet propulsion, flight structures, or astronautics. Applicants must file their credentials with the university selected by 1 March. Successful candidates will be notified by 1 April.

Biochemistry. The \$1000 McCollum Award for Sustained Research in Biochemistry, made possible through the generosity of friends of Elmer V. McCollum, is to be awarded by the American Society of Biological Chemists at the spring meeting in Atlantic City, N.J. The award will be made to an investigator in this country who has continued to make significant experimental studies in biological chemistry after reaching the age of 60. In general, only those studies made since 1950 will be reviewed. Nominating letters and pertinent material must be sent before 1 March to Roger M. Herriott, 615 N. Wolfe St., Baltimore 5, Md.

Industrial Hygiene. Applications are invited for the Atomic Energy Commission's Special Fellowships in Industrial Hygiene, which lead to the master's degree in the subject. These fellowships are open to college graduates who hold bachelor's degrees in physics, chemistry, or engineering, and who are acceptable for graduate work at one of three universities to which they may be assigned. Fellows must also be under 35 years of

age and citizens of the United States.

Basic stipend for industrial hygiene fellows is \$2500 for the academic year, plus \$350 for a spouse and \$350 for each dependent child. Normal tuition and fees will be paid, as will a limited travel allowance. Applicants who have one or more years' graduate work or industrial experience in a related field may be eligible for an additional \$200 in the basic stipend. Fellowship appointees study at Harvard University, the University of Cincinnati, or the University of Pittsburgh and, whenever possible, the applicant's choice of university will be adhered to. Applications, which must be returned by 1 March, are available from Dr. L. K. Akers, Industrial Hygiene Fellowship Office, Oak Ridge Institute of Nuclear Studies, P. O. Box 117, Oak Ridge, Tenn.

Therapy. Each year the American Therapeutic Society presents the Oscar B. Hunter Memorial Award in honor of its late secretary, Oscar B. Hunter. The award is made in recognition of an outstanding contribution, or series of contributions, to therapy by an individual or a team of workers. One object in making the award is to bring recognition to those who have not received distinguished awards for their work. The term "therapy" is used in a broad sense to include the use of any drugs, procedure, or device of benefit in the treatment of patients.

The award consists of a bronze medal struck in the likeness of Dr. Hunter, mounted on a plaque, and engraved with the name of the recipient. The winner will be expected to deliver a paper that describes the award-winning work at the time of the presentation of the award. Travel expenses to the presentation will be furnished. Nomination letters, accompanied by a curriculum vitae of the candidate and a list of his publications, should be sent before 1 March to Dr. Harry E. Ungerleider, 393 7th Ave., New York 1, N.Y.

Scientists in the News

The National Science Foundation has announced the appointment of JAMES S. BETHEL as head of the Special Projects in Science Education Section, and ARTHUR S. ROE as head of the Course-Content Improvement Section. Both positions are in the Division of Scientific Personnel and Education.

Bethel is succeeding WALTER J. PETERSON, who will return to North Carolina State College as dean of the Graduate School. Bethel, on leave from North Carolina State, has held positions there of professor of wood technology, head of the wood products department, and acting dean of the Graduate School.

Roe is on leave from the University of North Carolina, where he has been Kenan professor since 1955 and chairman of the department of chemistry since 1952. He replaces DONALD B. ANDERSON, who has returned to his position as provost of the Consolidated University of North Carolina.

MICHAEL DARMADY, senior pathologist, Portsmouth, England, is spending the first 6 months of 1959 as a guest investigator in the Renal Research Unit, Research Department, CIBA Pharmaceutical Products Inc., Summit, N.J. The unit is directed by Jean Oliver and supported by the National Institutes of Health. In addition to his primary purpose of studying renal problems using the technique of microdissection, Darmady will survey sterile practices in American hospitals for the British Government.

Scientific visitors to the United States from the United Kingdom are as follows.

F. H. C. CRICK of the Medical Research Council's Molecular Biology Research Unit, Cavendish Laboratory, Cambridge, arrived in mid-January to take up an appointment as visiting professor in the chemistry department at Harvard University. He will spend approximately 6 weeks at the Virus Laboratory, Berkeley, Calif., before returning to the U.K.

D. S. ROBINSON, a member of the Medical Research Council's External Scientific Staff at the Sir William Dunn School of Pathology, Oxford, has been invited by L. W. Kinsell of the Institute for Metabolic Research, Highland Alameda County Hospital, Calif., to take part in a symposium on metabolic diseases, including atherosclerosis, that is to be held in San Francisco beginning 16 February. This will be followed by another meeting, "The Deuel Conference on Lipids," on the clearing reaction induced by heparin injection. He will also visit Cleveland; Chicago; San Francisco; Memphis; Nashville; Washington (3 March); Radnor, Pa.; and New York before he leaves the country on 7 March.

R. WHITTAM, member of the Medical Research Council's scientific staff at the Cell Metabolism Research Unit, Department of Biochemistry, The University, Oxford, has been invited by D. Nachmansohn of Columbia University to spend 6 months in his department as a visiting scientist.

Current Russian scientific visitors to the United States include ALLA MASEVICH, vice president of the Astronomical Council of the Soviet Academy of Sciences; IVAN ARTOBOLVSKY, an engineer who is a specialist in automation; and ALEXANDER ALEXAN-

DROVICH VISHNEVSKY, a specialist in cardiovascular surgery and a candidate for the Lenin Prize. Their tours are being made independently of one another under the auspices of the American Friends Service Committee, a Quaker organization that is sponsoring an exchange program of American and Russian scientists. During August and September, three American medical scientists visited the Soviet Union under the program.

HENRY A. IMUS, formerly assistant to the director, National Institute of Neurological Diseases and Blindness, National Institutes of Health, has joined the staff of the U.S. Naval School of Aviation Medicine, Pensacola, Fla. His position is supervisory psychologist, department of psychology, and head, Aviation Psychology Laboratory. He is responsible for the direction and coordination of research on problems related to the selection, training, assessment, and motivation of naval aviators.

At the recent meeting in Bloomington, Ill., of the American Society of Plant Taxonomists, two awards were given. The Cooley Award for the best paper on southeastern flora published during the calendar year 1957 was made to JAMES W. HARDIN ["A Revision of the American Hippocastanaceae," *Brittonia* 9, 145, 173 (1957)]. The Cooley Award for the outstanding paper presented before a session of the American Society of Plant Taxonomists at Bloomington went to RICHARD A. HOWARD ("Vascular Anatomy of the Petiole as a Taxonomic Character"). The ASPT is able to make these awards through the generosity of one of its members, George R. Cooley.

S. W. HERWALD, manager of the Westinghouse Electric Corporation's air arm division at Baltimore, Md., has been elected the corporation's vice president in charge of research.

HAROLD P. KLUG has been appointed assistant director of research at the Mellon Institute, Pittsburgh, Pa. In his new position, Klug, who has been a staff fellow of the institute, will assist in building the investigational programs in physical chemistry, inorganic chemistry, and crystal physics.

ROBERT W. NOYES, gynecologist at the Stanford Medical School, has won the annual Squibb Prize of the Pacific Coast Fertility Society. He will present the prize-winning paper next April at meetings in Atlantic City of the American Society for the Study of Sterility. It is titled "Endocrine Control of the Passage of Spermatozoa and Ova through the Female Genital Tract."

Recent Deaths

HAROLD W. CLOSE, Princeton, N.J.; 70; dean of the School of Arts and Sciences of the American University of Beirut, Lebanon, from 1942 until his retirement in 1953; taught at the Beirut College for Women after his retirement; 2 Jan.

RICHARD H. DIEFFENBACH, Newark, N.J.; lung surgeon, who retired in 1956 after 50 years of practice; president of the medical staff of Clara Maass Hospital, 1937-51; headed the first clinic for tubercular cases in Newark; 3 Jan.

DONALD W. KNAGGS, Mount Vernon, N.Y.; 60; inventor of a method of printing on glass; 13 Dec.

CHARLES L. PARMENTER, Philadelphia, Pa.; 76; emeritus professor of zoology, University of Pennsylvania, since 1953; taught at the University of Southern California, the University of Wisconsin, and the University of Minnesota before joining Pennsylvania in 1916; 1 Jan.

WOLFGANG PAULI, Zurich, Switzerland; 58; physicist who received the Nobel Prize in 1945 for his work on the interrelationship of electrons; 15 Dec.

CHARLES S. REDDING, Philadelphia, Pa.; 75; chairman of the board of directors and former president of Leeds & Northrup Company; president of the Franklin Institute, 1941-46, and president of the Scientific Apparatus Makers of America, 1949-51; 2 Jan.

GEORGE L. ROBINSON, Chicago, Ill.; 95; theologian and archeologist who explored the Sinai Peninsula and discovered the sixth and seventh wells of Beersheba; director of the American School of Oriental Research in Jerusalem, 1913-14; 17 Dec.

EDWARD A. STRECKER, Philadelphia, Pa.; 72; professor and head of the department of psychiatry at the University of Pennsylvania from 1931 until his retirement in 1953; clinical professor of psychiatry and mental diseases at Yale University, 1926-32; professor of nervous and mental diseases at Jefferson Medical College, 1925-31; author of 200 papers and many books on psychiatry; 2 Jan.

VALENTINA P. WASSON, New York, N.Y.; 57; attending pediatrician at New York Infirmary, who wrote *The Chosen Baby*, a children's book on adoption; a specialist in mushrooms and co-author of *Mushrooms, Russia and History*; 2 Jan.

HAROLD K. WILSON, State College, Pa.; 58; associate dean of admissions for research and development and professor of agronomy at Pennsylvania State University; formerly head of the department of agronomy; taught at Iowa State Teachers College and at the University of Minnesota; 31 Dec.