has joined the Washington, D.C. office of Stanford Research Institute. He will assist in broadening the scope of S.R.I.'s operations research program on the East Coast. In addition, he will aid in developing the institute's interests in medical and biological economics.

FRANK M. STRONG, biochemist at the University of Wisconsin, will deliver three of the 1956 series of the E. R. Squibb lectures at the Rutgers Institute of Microbiology. He will lecture on the general subject of "Adventures in microbial chemistry: Antimycin, CoA, Kinetin" on 5, 6, and 7 Dec.

DONOVAN S. CORRELL has joined the staff of the Texas Research Foundation, Renner, Tex., as chief botanist and head of the Botanical Laboratory. He was formerly principal botanist in the Plant Introduction Section of the U.S. Department of Agriculture, Beltsville, Md.

RICHARD T. WHITCOMB, aeronautical research scientist at the Langley Aeronautical Laboratory of the National Advisory Committee for Aeronautics, has received the NACA's highest award, the Distinguished Service Medal. He is the first person to receive the award since it was established last year. The citation said that Whitcomb "by his discovery and experimental verification of the Area Rule, accomplished in the period 1951–52 through the skillful use of the new NACA transonic wind tunnels, provided a novel and useful means of increasing, by as much as 25 per cent, and without additional power, the speed of airplanes in supersonic flight. . . .

The Area Rule provides a means of reducing the drag rise of airplanes that occurs at transonic and supersonic speeds.

Whitcomb found that when the combined cross-sectional area of wings, fuselage, tail, and other surfaces of the airplane is reduced, the drag rise is lowered substantially. In practice the design usually results in a narrow waist, or indentation, about mid-section of the aircraft fuselage.

The Area Rule was kept secret for security reasons from 1952 until September 1955, when the first planes using the concept went into production for the Air Force and Navy. Other high-speed military aircraft now under development incorporate the Area Rule design.

PAUL A. SIPLE recently left for Antarctica, where he will take charge of the scientific program at a base to be established at the South Geographical Pole. While at the pole he plans, by means of radio, to continue his activities as deputy to Rear Adm. Richard E. Byrd, officer in charge of the U.S. Antarctic Programs.

HARVEY BURSTEIN, who holds a law degree and who served with the Federal Bureau of Investigation for 6 years, has been named security officer at the Massachusetts Institute of Technology. He will be involved in the problems of security for the classified research work being done for the Federal Government, and also with the general problems of plant protection that are extensive in an institution as large as M.I.T.

ALFRED M. FREUDENTHAL, professor of civil engineering at Columbia University, has been awarded the 1956 medal of the Swedish Aeronautical Society. The presentation was made recently by Bo Lundberg, president of the Swedish Society of Engineers, at the Swedish Aeronautical Research Institute in Stockholm.

ROBERT S. MULLIKEN, physicist and expert on the spectra of molecules at the University of Chicago, has been named to the university's Ernest DeWitt Burton distinguished service professorship. Mulliken, who has been a member of the University of Chicago faculty since 1928, has specialized for the past 20 years in the study of the chemical bond of molecules, using spectroscopic methods. The professorship to which he has been appointed was established in honor of the third president of the University of Chicago and is one of a limited number of specially named chairs awarded for distinction in scholarship or science.

ROBERT W. SCHUMANN, formerly of Argonne National Laboratories, where he designed and developed the 256-channel analyzer, has been appointed chief development engineer of Radiation Counter Laboratories, Skokie, Ill.

R. M. BURNS, senior scientific adviser to the Stanford Research Institute, has been awarded the Acheson medal of the Electrochemical Society in recognition of his work on the corrosion of metals and his long-time participation and leadership in the affairs of the society. The medal and a $1000 prize are awarded every 2 years for notable contributions to the advancement of the society's objectives, purposes, and activities.

GEORGE P. FULTON, professor of biology, Boston University, College of Liberal Arts, has been appointed to succeed BRENTON R. LUTZ as chairman of the department of biology.

Inauguration exercises for the installation of ROBERT B. SMITH, JR., as fourth president of the Medical College of Virginia are scheduled for 17 Dec. Smith assumed the presidency on 1 July.

FLOYD A. ODELL, formerly deputy chief, biophysics division, Medical Directorate, Army Chemical Center, Md., has been appointed scientific director of the Army Medical Research Laboratory, Fort Knox, Ky.

The National Institute of Mental Health, Bethesda, Md., has announced the appointment of HAROLD M. HILDRETH as consulting psychologist in the Hospital Consultation Service of the Community Services Branch. Hildreth was formerly chief of the Clinical Psychology Division of the Veterans Administration.

JOHN E. BELL, formerly director of the Psychological Clinic at Clark University, where he was associate professor, is now with the NIMH as consultant in clinical psychology assigned to the San Francisco office of the Public Health Service.

WILLIAM M. HALES, formerly area chief psychologist in the area medical office of the Veterans Administration in St. Paul, Minn., has joined the staff of NIMH as consultant in clinical psychology. He has been assigned to the USPHS Dallas office.

Recent Deaths

MARK H. ADAMS, Huntington, L.I., N.Y.; 44; associate professor of biochemistry, New York University College of Medicine; member of AAAS editorial board; 17 Oct.

PAUL E. CARLINER, Baltimore, Md.; 46; codeveloper of Dramamine; 13 Oct.

HARRY N. FALK, Los Angeles, Calif.; 70; vice president of Baxter Laboratories; 9 Oct.

DAVID S. FAULKNER, Los Angeles, Calif.; 70; mechanical engineer and retired vice president of the National Supply Company; 11 Oct.

DENIS DE GOENCZ, Washingon, D.C.; 74; color chemist and pioneer in crush-resistant fabrics; 14 Oct.

TAYLOR B. GRANT, Chocorua, N.H.; 67; retired electrical engineer for the Bell Telephone Laboratories; 15 Oct.

AARON M. HAGEMAN, Verona, N.J.; 66; retired director of research, engineering, and equipment for the lamp division of the Westinghouse Corporation; 11 Oct.

SHORTRIDGE HARDESTY, Larchmont, N.Y.; 72; civil engineer and specialist in bridge designing; 17 Oct.

KENNETH S. JOHNSON, South Orange, N.J.; 71; retired engineer at the Bell Telephone Laboratories; 17 Oct.

HENRY R. KRAYBILL, Chicago, Ill.; 65; professorial lecturer in the de-

partment of biochemistry of the University of Chicago and director of the department of scientific research of the American Meat Institute; 30 Sept.

KATHRYN McHALE, Washington, D.C.; 67; former professor of psychology at Goucher College; 8 Oct.

MARY K. NICHOLAS, Spring Valley, N.Y.; 50; instructor in chemistry at the Jersey City Medical Center Nursing School; 13 Oct.

ROBERT B. OSGOOD, Boston, Mass.; 83; emeritus professor of orthopedic surgery at Harvard Medical School; 2 Oct.

JOHN C. PICKERING, Fort Lauderdale, Fla.; 73; retired mining engineer; 10 Oct.

ALICE M. RUSSELL, Philadelphia, Pa.; 65; head of the biology department at Rosemont College; 14 Oct.

EDWARD M. TWITMYER, Philadelphia, Pa.; 55; clinical psychologist; headmaster of the Pennsylvania School for the Deaf; 6 Oct.

JEREMIAH H. WALSH, Corning, N.Y.; 86; former secretary of the American Medical Association; instructor in anatomy at Rush Medical Center; 12 Oct.

Education

■ The Commonwealth of Massachusetts has appropriated $2,108,000 for a new four-story building at Lowell Technological Institute that will be used primarily to house the electronic and plastics engineering departments and the general engineering laboratories.

■ The Scripps Institution of Oceanography of the University of California has announced plans for expanding into other phases of science. Initial expansion will cost between $12 million and $15 million. The first steps will be to enlarge the departments of physics, chemistry, biology, geophysics, and research engineering.

■ A new laboratory for research in urology is to be established at Northwestern University Medical School. The laboratory has been made possible by the Lucy and Edwin Kretschmer Fund, which was created by the late Herman L. Kretschmer, urologist and former president of the American Medical Association, in honor of his wife and son. John Grayhack will be director of the new facility.

■ The natural science faculty of Newark College, Newark, N.J., a division of Rutgers University, in cooperation with the New Jersey Science Teachers Association, has scheduled a series of seven free lectures in the sciences for teachers.

■ The U.S. Public Health Service has announced the first grants, totaling $765,159, in its 3-year, $90-million program to assist in the construction of medical research facilities. Approval of the awards was based on the recommendation of the newly created National Advisory Council on Health Research Facilities, which recently held its first meeting at the National Institutes of Health in Bethesda, Md. The grants will be matched on a 50-50 basis by the institutions.

Some 24 additional applications were tentatively reviewed by the council. However, in order to have a better knowledge of the number and kind of applications which may be submitted, the council elected to act only on those projects for which full data were available and which warranted immediate support. It is expected that a major part of the $30 million available this year will be recommended for allocation at the December meeting of the council.

This first meeting was chiefly concerned with setting policies and organizing the new program. Regulations were recommended by the council and will be published soon in the *Federal Register*.

More than 250 institutions have asked for information and application forms for these construction grants. A list of the initial grants approved follows: Massachussets General Hospital, neurosurgical floor in the Warren Medical Building, $95,045; Albany Medical College of Union University, animal quarters, $45,000; Elizabeth Gamble Deaconess Home Association, operating the Christ Hospital Institute of Medical Research, Cincinnati, Ohio, construction and equipment of fourth floor in the Institute of Medical Research, $184,000; University of Pennsylvania, William H. Donner Center for Radiology, $179,004; University of Minnesota Medical School, department of anatomy research facilities, Jackson Hall, $26,110; University of Minnesota College of Medical Sciences, departments of physiological chemistry, physiology, and pharmacology research facilities, Millard Hall, $161,000; Georgetown University, animal research laboratories, $75,000.

Grants, Fellowships, and Awards

■ The National Science Foundation is initiating a program for the support of chemical research to be performed by qualified high-school and college chemistry teachers during the summer. Grants in support of such research will be awarded to colleges and universities that are interested in participating in this program, and they will select the high-school and college teachers who will conduct the research.

Proposals describing the research to be performed should be prepared along the lines suggested in the foundation's booklet, *Grants for Scientific Research*, copies of which are available upon request. The proposals should list the staff members of the chemistry department of the institution submitting the proposal, the name of the person who will supervise the research of the high-school and college teachers, and a description of the problems that will be studied.

In order to permit adequate time to arrange for the research to be conducted during the summer of 1957, it is planned to award grants in support of the selected proposals by about 1 Mar. 1957. The deadline for receipt of proposals to be considered is *1 Dec. 1956*. Proposals should be addressed to the Mathematical, Physical and Engineering Sciences Division, National Science Foundation, Washington 25, D.C.

■ Three fellowships are available at the Montefiore Hospital, Pittsburgh, Pa. These fellowships are designated by the donor, Bessie F. Anathan, for study or research in the medical sciences or in the basic sciences that contribute to the advancement of human health.

The fellowship committee will consider applicants, not only on the basis of high scholastic standing, but also on aptitude for research, without limiting the selection of fellows to residents of any area, and without regard to race, color, creed, or religion. For information, write to the Bessie Frank Anathan Fellowship Fund, Montefiore Hospital, Fifth Avenue at Darragh Street, Pittsburgh 13, Pa.

■ Applications are now open to college and university faculty members for places in the Oak Ridge Research Participation Program for 1957. Administered by the Oak Ridge Institute of Nuclear Studies in cooperation with Oak Ridge National Laboratory, the Research Participation Program is designed to disseminate scientific and technical information to educational institutions by enabling faculty members to spend varying amounts of time, usually the three summer months, conducting research in Oak Ridge laboratories. The participant's salary at Oak Ridge is equivalent to his university salary. Application blanks for summer appointments in 1957 may be obtained by writing to the University Relations Division, Oak Ridge Institute of Nuclear Studies, P.O. Box 117, Oak Ridge, Tenn. Forms must be returned *by 15 Dec.*

■ The training program for steroid biochemistry that is being sponsored by the National Institutes of Health for the Public Health Service [*Science* **124**, 482