

the United States and Great Britain. This service was inaugurated in 1927 and is handled entirely by radiotelephone.

Each of the transatlantic cables will be equipped to transmit speech in one direction: thus voices from New York will travel eastward over one cable, and voices from London will be carried westward over the second cable. The system will be able to carry 36 conversations at the same time, almost tripling the present radiotelephone capacity between the United States and Great Britain.

In 1927, when radiotelephone service was initiated, there were 2000 calls made. The annual telephone traffic between the two countries today is more than 30 times as heavy.

■ The widely held belief that cattle do not sweat has now been disproved by research conducted by the Commonwealth Scientific and Industrial Research Organization in Sydney, Australia. Investigators compared a purebred Ayrshire calf with two Zebu-cross calves. The animals were kept in a hotbox and a small, shaved area of the coat was examined for traces of sweat. All three calves produced beads of sweat. The Zebu-cross calves produced about 4 times more sweat than the pure British breed.

The Zebu-cross calves kept their temperature normal at 102°F when they were in a hotbox at 115°F. The temperature of the purebred British calf rose to 105°F under the same conditions, and it showed signs of heat distress. It seems likely that the greater amount of sweat produced by the Zebu-cross calves helped them adjust satisfactorily to the hot environment.

Scientists in the News

GERTRUDE D. MAENGWYN-DAVIES, assistant professor of ophthalmology in the Wilmer Institute, Johns Hopkins Medical School, has been appointed an associate research professor in the department of pharmacology at the George Washington University Medical School, Washington, D.C., effective 1 July.

In a presentation ceremony that took place at Washington University (St. Louis) on 6 June, ALLEN O. WHIPPLE, professor emeritus of surgery at the College of Physicians and Surgeons of Columbia University, received the first Graham award for outstanding contributions to surgery. Funds for the award were set up by associates and former students of EVARTS A. GRAHAM, emeritus Bixby professor of surgery at Washington, at the time of his retirement in 1951. The medal will be awarded every 3 or 4 years to the surgeon who, in the opinion of the selection committee, has made the

most significant contributions to his profession.

Whipple is director of a new project by which the American College of Surgeons will be associated with the U.S. Foreign Operations Administration in bringing to this country doctors from the NATO countries who might train in American hospitals.

Two new appointments in the department of mechanical engineering at Massachusetts Institute of Technology are as follows: KNOX MILLSAPS, chief of the applied mathematics research branch at the Wright Air Development Center, Wright Patterson Air Force Base, Dayton, Ohio, will be visiting professor for the 1955-56 academic year; and, effective 1 July, JAMES A. FAY, assistant professor in the department of engineering mechanics at Cornell University, will become an associate professor.

Last month ROBERT C. BERSON, dean of the Medical College of the University of Alabama, was formally installed as the university's vice president for health affairs.

Both Berson and THOMAS F. PAINE, Jr., professor of microbiology, have recently accepted additional appointments as professors of medicine. These appointments are on a voluntary basis; each man will offer his services from time to time when called upon by the chairman of the department.

W. MAURICE EWING, director of Columbia University's Lamont Geological Observatory, Palisades, N.Y., and a pioneer scientist in underwater sound research, has received the U.S. Navy's Distinguished Public Service award for his outstanding contributions to the science of undersea warfare. The presentation was made by Assistant Secretary James H. Smith, Jr., in a ceremony that took place in Washington on 31 May.

For his outstanding contributions to gliding, RALPH S. BARNABY, chief of the aeronautics section of the Franklin Institute Laboratories for Research and Development, was honored by the Federation Aeronautique Internationale during its 1955 General Conference in Paris, 1-25 June. He received a Paul Tissandier diploma, awarded annually by the FAI to representatives of the various member nations "who by their action, work, initiative, their devotion or any other manner, serve the cause of aviation in general, and private and sporting aviation in particular."

An especially prepared issue (May 1955) of the *Stanford Medical Bulletin* has been dedicated to ARTHUR L. BLOOMFIELD, emeritus professor of medicine,

by more than 150 former students and colleagues. A tribute written by Emile F. Holman, head of Stanford Medical School's department of surgery, describes the noted internist as a "profound student, incomparable teacher, superb diagnostician, and relentless foe of the pusillanimous."

Bloomfield, who retired last year as head of the department of medicine after 26 years of teaching at Stanford, was particularly well-known for his ward rounds. Holman says: "His ward rounds were a delight. In the midst of a scholarly medical review he would suddenly present an apt quotation from Cicero or Shakespeare or the more homely philosopher, O. Henry, to give color, point, and zest to his teaching."

JOSEPH T. VELARDO, research associate at the Harvard Medical School and the Peter Bent Brigham Hospital, Boston, is the recipient of the Rubin award for his work in reproductive physiology and sterility. He was honored during the annual meeting of the American Society for the Study of Sterility that took place in Atlantic City, N.J., 4-5 June. Velardo's paper "Effect of various steroids on gestation and litter size in rats" helped bridge the gap between basic studies and clinical applications.

ARTHUR KNUDSON, professor of biochemistry at the Albany Medical College, will depart in July for Djakarta, Indonesia, where he will serve as visiting professor of biochemistry. During the 2-year appointment he will participate in the University of California-University of Indonesia project in medical education that is being sponsored by F.O.A.

The council of the Royal College of Surgeons of England has announced that LOYAL DAVIS, chairman of the department of surgery at Northwestern University Medical School, who is known for his work in surgery of the nervous system, has received an honorary fellowship.

The fellowship is awarded to outstanding surgeons who have made significant contributions to their field. The Royal College also awarded fellowships to ROBERT JANES of Toronto, Canada, and WILLIAM DOOLIN of Dublin, Ireland.

CARL R. MOORE, professor and chairman of the University of Chicago's department of zoology, has been awarded the first Endocrine Society medal. The medal has been established to honor distinguished scientific research in the study of the endocrine glands.

Moore is one of the pioneers in the study of sex glands and hormones. His researches began almost 40 years ago and have led to new information on sex-

gland transplantation, the function of sex hormones secreted by living tissues, the conditions under which germ cells are produced, and a test for the male sex hormone. Research at the University of Chicago in which Moore played a leading role formed the foundation for medical progress in the treatment of prostate cancer in men and breast cancer in women.

RUSSELL J. SEIBERT, director of the department of Arboreta and Botanic Gardens for Los Angeles County, Calif., has been appointed director of the Longwood Gardens near Kennett Square, Pa., effective 15 July. The appointment was announced by Henry B. du Pont, president of the Longwood Foundation, which operates the gardens.

JAMES B. FISK, vice president in charge of research for Bell Telephone Laboratories, was elected executive vice president on 1 June. In his new post Fisk is directly responsible for all technical activities of Bell Laboratories as well as continuing as head of research.

Also effective on 1 June, ESTILL I. GREEN, director of military communication systems, was elected vice president in charge of systems engineering.

At the same time five new general department heads were named: M. L. ALMQUIST is director of systems engineering I; P. W. BLYE is director of systems engineering II; F. J. SINGER is director of systems engineering III; J. A. MORTON is director of device development under the vice president in charge of switching and transmission developments; and R. R. HOUGH is director of military electronics development II.

RAYMOND R. DICKISON, former head librarian at the Colorado School of Mines, has been named chief librarian for Oak Ridge National Laboratory.

KANEMATSU SUGIURA, associate of the Sloan-Kettering Institute for Cancer Research, New York, has been appointed an honorary member of the Japanese Cancer Association. He had an audience with Emperor Hirohito on 27 Apr.

DONALD F. MARLOWE, associate technical director for engineering at the U.S. Naval Ordnance Laboratory, Silver Spring, Md., resigned on 1 July to become dean of engineering and architecture at Catholic University. During his 14 years at NOL, Marlowe has become an authority on the applications of the theory of elasticity to mine structure.

He is succeeded by DAVID S. MUZZEY, who has served as chief of the engineering department for the past 3 years. In his new post Muzzey has supervisory responsibility for four NOL departments:

engineering, underwater ordnance, fuze, and technical evaluation. Muzzey is in turn succeeded by WILLIAM B. ANSPACHER, former deputy chief of the engineering department.

The following are among those who have recently received honorary doctoral degrees.

Oglethorpe University: MURRAY M. COPELAND, professor and director of the department of oncology, Georgetown University Medical Center.

Smith College: CAROLINE BEDELL THOMAS, associate professor of medicine, Johns Hopkins University School of Medicine.

Pomona College: AVERY S. HOYT, chief of the U.S. Bureau of Entomology and Plant Quarantine.

University of Oxford: KING GUSTAF VI ADOLF of Sweden, archeologist.

New York University: EDGAR DOUGLAS ADRIAN, Nobel laureate in physiology and master of Trinity College, Cambridge University, England; GEORGE PACKER BERRY, dean of the Harvard Medical School; VINCENT DU VIGNEAUD, chairman of the department of biochemistry, Cornell University Medical College; EVARTS AMBROSE GRAHAM, surgeon and emeritus professor at Washington University School of Medicine; BERNARDO ALBERTO HOUSSAY, Nobel laureate and director of the Institute of Medicine and Experimental Biology, Buenos Aires, Argentina; KAJ ULRIK LINDERSTRØM-LANG, director of the Carlsberg Laboratory, Copenhagen, Denmark; ROBERT FREDERICK LOEB, chairman of the department of medicine, Columbia University; THOMAS PARRAN, dean of the School of Public Health, University of Pittsburgh, and formerly Surgeon General of the U.S. Public Health Service; WILDER GRAVES PENFIELD, professor of surgery and neurosurgery, McGill University, Canada, and founder and director of the Montreal Neurological Institute; LOWELL JACOB REED, president of the Johns Hopkins University; ALFRED NEWTON RICHARDS, professor emeritus of pharmacology and vice president in charge of medical affairs of the University of Pennsylvania, and former president of the National Academy of Sciences; JONAS EDWARD SALK, discoverer of the vaccine for the prevention of poliomyelitis and director of the Virus Research Laboratories of the School of Medicine, University of Pittsburgh; HOWARD CANNING TAYLOR, JR., professor of obstetrics and gynecology, Columbia University.

Ohio State University: MELVIN DE GROOTE, vice president, Petrolite Corp.; HOMER C. FRITSCH, executive vice president, Parke, Davis and Co.

Monmouth College: P. A. WELLS, chief of the Eastern Utilization Research

Branch, U.S. Agricultural Research Service.

North Carolina State College: ELWOOD L. DEMMON, director, Southeastern Forest Experiment Station.

Pratt Institute: WALTER LEO WEIBLE, Deputy Chief of Staff for Operations and Administration, U.S. Army.

Worcester Polytechnic Institute: CLARENCE H. LINDER, vice president for engineering, General Electric Co.; HAROLD S. BLACK, research engineer, Bell Telephone Laboratories, Inc.; MILTON P. HIGGINS, president of Norton Co.

Lehigh University: FRANK M. MASTERS, bridge designer; WILMER A. DEHUFF, principal of the Baltimore Polytechnic Institute.

Columbia University: FELIX ANDRIES VENING-MEINESZ, geophysicist, University of Utrecht, Netherlands.

The following appointments to assistant professor have been announced: University of Illinois: LEO F. KOCH, biology. Western Michigan College: NATHAN NICHOLS, physics; JAMES H. POWELL, mathematics; CAROLA TRITTIN, paper technology.

Necrology

WALTER C. BAKER, 87, pioneer automotive manufacturer, Baker-Raulang Co., Cleveland, Ohio, 26 Apr.; MADISON BENTLEY, 84, psychologist, author, and editor, and former chairman of the department of psychology at Cornell University in Ithaca, N.Y., Palo Alto, Calif., 29 May; CARLE M. BIGELOW, 65, retired chemical and management expert, Fine Chemicals Division of the American Cyanamid Co. in Somerville, N.J., Bound Brook, N.J., 10 May.

WALTER H. DANE-DWORECKI, ear, nose, and throat specialist and chief of otolaryngology at the Veterans Administration Hospital in Albuquerque, N.M., London, England, 18 May.

GUSTAV EGLOFF, 69, petroleum scientist, research director for the Universal Oil Products Co. of Des Plaines, Ill., former president of the American Institute of Chemists and of the Western Society of Engineers, Chicago, 29 Apr.; ADOLPH ELWYN, 67, associate professor of neuroanatomy at Columbia University College of Physicians and Surgeons in New York, Briarcliff Manor, N.Y., 9 June; R. WILLIAM ESHMEYER, 50, fisheries expert, executive vice president of the Sport Fishing Institute and former head of fisheries research for the Tennessee Valley Authority in Knoxville, Tenn., Arlington, Va., 20 May.

THADDEUS REAMY GILLESPIE, 59, assistant professor of obstetrics at the University of Cincinnati College of Medicine, Cincinnati, Ohio, 21 Apr.; ISAAC