

Medical Service Graduate School, Walter Reed Army Medical Center, Washington, D.C.; and F. REED DICKERSON, Office of General Counsel, Department of Defense.

WALTER O. ROBERTS, director of the High Altitude Observatory of the University of Colorado, has recently been appointed professor of astrophysics and head of the university's newly created graduate department of astrophysics. He will continue as director of the observatory.

MAURICE EWING, director of the Lamont Geological Observatory of Columbia University, has been awarded the degree of doctor of science by the State University at Utrecht, the Netherlands. The honorary degree was conferred on Ewing by H. W. Obbink, rector of the State University, on the occasion of its 321st anniversary.

LEO A. WALL, a chemist at the National Bureau of Standards, has been presented with the Arthur S. Flemming award, which is given annually to ten outstanding young men in Government by the District of Columbia Junior Chamber of Commerce. Five of the awards are in the administrative field and five in science. Other winners in the scientific field were as follows: ALFRED J. EGGERS, JR., National Advisory Committee for Aeronautics; MAURICE R. HILLEMANN, Department of the Army Medical Corps; HERBERT TABOR, Department of Health, Education, and Welfare; and MANUAL F. MORALES, Naval Medical Research Institute.

EDWIN G. BORING, an experimental psychologist, and ALFRED C. REDFIELD, a physiologist and oceanographer, will retire this summer from the faculty of Harvard University. Boring, who is Edgar Pierce professor of psychology, is the recognized historian of modern experimental psychology. He served as director of the psychological laboratories at Harvard for 25 years and was the first chairman of the psychology department when it became independent of philosophy in 1934. Harvard named him Lowell Television lecturer for 1956-57.

His research has been focused on the field of sensation and perception. In his early work on cutaneous sensitivity, he cut a nerve in his own arm for experimental purposes. His *History of Experimental Psychology* was first published in 1929 and again in a revised edition in 1950. A second volume, *Sensation and Perception in the History of Experimental Psychology*, appeared in 1942.

Boring studied mechanical engineer-

ing at Cornell University, and then shifted to psychology as a graduate student under E. B. Titchener. From Cornell he received the M.E. degree in 1908, the A.M. degree in 1912, and the Ph.D. degree in 1914. He taught at Cornell and at Clark University before joining the Harvard faculty in 1922. He has served as president of the American Psychological Association, as vice president of the American Association for the Advancement of Science, as secretary of the International Congress of Psychology, and as chairman of the Section on Psychology of the National Academy of Sciences. He received honorary doctorates from Clark University in 1956 and from the University of Pennsylvania in 1956.

Redfield, professor of physiology, is a specialist in the functions of the blood. As an oceanographer, he applied the disciplines of physiology to the study of the marine environment in which water and organisms interact. In addition to his Harvard work, he has been associate director and senior oceanographer of the Woods Hole Oceanographic Institution.

Redfield has received the Agassiz medal of the National Academy of Sciences and an honorary degree from the University of Oslo; in addition, he was elected an honorary member of the Marine Biological Association of the United Kingdom last year for his distinguished contributions to oceanography. He made important contributions to the physiology of human and animal organisms before devoting his attention to studies of the sea. His analyses of biochemical cycles in the sea, of the distribution of organisms, and of the products of biological activity led to interpretations of the oceanic circulation incorporating physical, chemical, and biological cycles.

At Harvard, where he began teaching in 1921, he served as the first director of the Biological Laboratories in 1934 and as chairman of the department of biology from 1935 to 1938. He taught for a year at the University of Toronto before joining the Harvard faculty and was, for a summer, visiting professor at Stanford University and later at the University of Washington.

Redfield has been secretary of the American Physiological Society, president of the Ecological Society of America and the American Society of Limnology and Oceanography, chairman of the Natural Resources Council of America, and president of the oceanographic section of the American Geophysical Union. He was on the editorial boards of the *Journal of Comparative and Cellular Physiology* and the *Biological Bulletin* and subsequently became managing editor of the latter.

He studied at Haverford College and at Harvard, receiving Harvard's B.S. de-

gree in 1914 and Ph.D. degree in 1917. He continued his studies at Cambridge University, England, and at the University of Munich.

CHARLES W. CREASER of Wayne State University has been awarded a sabbatical leave for 1957-58. Also, his request has been granted that he be relieved of the chairmanship of the department of biology at the end of the current academic year in order to devote more time to research and teaching upon his return.

STEWART T. GINZBERG, chief of the psychiatry division in the Veterans Administration central office at Washington, D.C., resigned on 1 May to become commissioner of mental health for the state of Indiana. He also will hold an appointment as professor of psychiatry at the Indiana University School of Medicine in Indianapolis.

Recent Deaths

GLACE BITTENBENDER, Jackson, Miss.; 45; professor of anesthesiology at the University of Mississippi Medical Center; 15 Apr.

EDWARD FRANCIS, Washington, D.C.; 85; retired U.S. Public Health Service officer who identified and developed methods to combat tularemia; 14 Apr.

PAVEL P. LAUPMAN, Moscow, U.S.S.R.; 70; leading engineer who worked on the Dnieper hydropower complex, the Kuibyshev and Stalingrad hydropower stations, and the Moscow and Volga-Don canals.

RICHARD S. LULL, New Haven, Conn.; 89; retired paleontologist at Yale University; former director of Yale's Peabody Museum; 22 Apr.

OAKLEY A. MORHOUS, Larchmont, N.Y.; 80; retired chief chemist at the Consolidated Gas Company of New York; 20 Apr.

SEYMOUR OPPENHEIMER, New York, N.Y.; 85; retired specialist in ear, nose, and throat diseases and in plastic surgery; wrote *Surgery of the Middle Ear*; 21 Apr.

WILLIAM G. SAWITZ, Philadelphia, Pa.; 63; professor of parasitology and an associate in medicine at Jefferson Medical College; 19 Apr.

JAMES S. SHAND, Dundee, Scotland; 75; professor emeritus of geology at Columbia University; former professor of geology and mineralogy at the University of Stellenbosch, South Africa; 20 Apr.

WILLIAM F. VERDI, New Haven, Conn.; 84; clinical professor emeritus of surgery at the Yale Medical School and former chief surgeon at St. Raphael's Hospital; 21 Apr.