

ence Foundation; Edward M. Purcell of Harvard University; David S. Heesch, the present G. R. Agassiz radio astronomer; and A. Edward Lilley of the Naval Research Laboratory.

■ A map of the heavens as they appear from radio waves rather than light has been made at Ohio State University. H. C. Ko described the chart, which records 70 percent of the sky, at the recent meeting of the American Astronomical Society. The map shows the distribution of radio waves of 250 megacycles from the celestial sphere visible at Columbus, Ohio.

■ The 16 faculty members dismissed by the University of California for refusal to sign a loyalty oath in 1950 will be given a total of \$162,000 in back pay. Individual payments will range from \$2050 to \$23,116. Following a January 1953 ruling of the California Supreme Court that the oath was illegal, the 16 were returned to their jobs.

■ A "united institute of nuclear research" will be established in the Soviet Union to provide a coordinated atomic and thermonuclear research program for Communist countries. The U.S.S.R. announced plans for the institute on 26 Mar.

The announcement said the Soviet Union will turn over to the new organization its Institute of Nuclear Research, including its laboratory of electrophysics and a 680-mev synchrotron. Plans also were announced for construction of a new cyclotron, a laboratory of neutron physics, and a laboratory of theoretical physics.

The countries that signed the cooperative agreement are the People's Republic of China, Bulgaria, Hungary, North Korea, Mongolia, Poland, Romania, Czechoslovakia, and East Germany. North Vietnam has been invited to join the institute.

Scientists in the News

Viking Fund medals and an award of \$1000 each were presented to three men at the annual award dinner of the Wenner-Gren Foundation for Anthropological Research in New York on 2 Mar. The recipients were as follows:

A. IRVING HALLOWELL, professor of anthropology and curator of social anthropology in the Museum of the University of Pennsylvania. The citation read, in part, "From an early start in social work he turned to anthropology as a formal discipline, developing an exemplary breadth of interest. This is reflected in the more than sixty papers and monographs he has authored which range with

facility through prehistory, physical anthropology, ethnography, ethnology, personality and culture. . . .

"Hallowell is the leading scholar today in the study of personality and culture. Scheduled to appear this spring is a book by him entitled *Culture and Experience*. This book is in part a collection of brief papers to which new material has been added so as to make it a presentation of his most important ideas within a consistent over-all framework, including his latest contributions to a theory of culture and its relationship to psychological functioning. . . ."

WILFRID E. LE GROS CLARK, professor of anatomy at the University of Oxford. The citation read, "This choice is based on his long and distinguished series of contributions to primatology and human paleontology, running from earlier works as, *Early Forerunners of Man* to his numerous recent studies of Proconsul, Limnopithecus, and the Australopithecinae, and including his widely read and useful *British Museum Handbook: History of the Primates*, and his *Fossil Evidence for Human Evolution*. . . ."

J. ERIC THOMPSON, department of archeology, Carnegie Institution of Washington. The citation read, "J. Eric Thompson is today the outstanding man in Maya ethnology and archeology. He has published many technical and several popular books on the Maya and Aztec. His most recent book is the *Civilization of the Maya*. . . . His archeological researches in British Honduras, Yucatan, and his current work on the Maya calendar system are outstanding. He is a field man of wide experience and a scholar of deep perception and knowledge. His work continues fruitful today as it has been in the past."

GEORGE THOMSON, Corpus Christi College, University of Cambridge, Cambridge, England, will speak at the University of Maryland on 19 Apr. His talk on "The impact of science on modern life: the new industrial revolution" is one of a series of centennial lectures in physics. Other lecturers from abroad in the series have been WALTER E. THIRRING, of the University of Bern, Bern, Switzerland, "Consistency of quantum field theory," and L. LEPRINCE-RINGUST of the Ecole Polytechnique and the University of Paris, Paris, France, "Investigations of heavy mesons and hyperons."

JOHN LEAR is science editor for the new section on science and research that the *Saturday Review of Literature* began in its 24 Mar. issue (see editorial in *Science*, 6 Apr.). Lear has been an associate editor of *Collier's* magazine specializing in science, science feature writer for the Associated Press, and free-lance

writer on science for leading national magazines. He has received a number of major awards for distinguished journalism in the field of science, including the AAAS-Westinghouse award in 1951.

PAUL ROSENBERG, president of Paul Rosenberg Associates, consulting physicists, Mount Vernon, N.Y., received the Talbert Abrams award of the American Society of Photogrammetry at the society's annual meeting in Washington, D.C., on 22 Mar.

FRITZ LIPMANN, Nobel prize winner and professor of biochemistry at Harvard University, will be guest lecturer on 7 May at the dedication of the Ireland Research Laboratory, University of North Dakota Medical School.

LOUIS RODDIS, deputy director of the Atomic Energy Commission's Division of Reactor Development, and JOHN LAWRENCE, director of the Donner Laboratory, University of California, Berkeley, are visiting Thailand and Pakistan, and Roddis will visit Turkey, as consultants in connection with the development of atomic energy programs in these countries.

RAYMOND STEVENS, president of Arthur D. Little, Inc., Cambridge, Mass., will receive the gold medal of the American Institute of Chemists at its annual meeting in Boston, 10-11 May, for his "contributions to the wider understanding of essential procedures for the management and operation of industrial research."

GEORGE P. CRESSMAN of the USAF Air Weather Service has received the highest Air Force civilian honor, the decoration for exceptional civilian service for outstanding accomplishment in weather analysis and forecasting. Cressman is director of the Joint Numerical Weather Prediction Unit at Suitland, Md., a facility operated jointly by the Air Force, Navy, and Weather Bureau.

HARVEY M. MERKER, widely known speaker on medical and pharmaceutical subjects and director of scientific relations for Parke, Davis and Company, retired on 29 Feb. after nearly 50 years of service. He joined the firm as a part-time laborer in 1907 while he was still a student.

In 1919 he was promoted to superintendent of manufacturing at the company's Walkerville, Ont., plant, and in 1929 he was named superintendent of manufacturing in Detroit, a post he held for 24 years. Merker became director of inventory control in 1953, and 2 years later was appointed director of scientific relations.

HUGH R. LEAVELL, professor of public health practice and assistant dean at the Harvard School of Public Health, has been granted a year's leave of absence to serve as adviser to the Government of India on problems of community sanitation and child and maternal health. Leavell, who left on 30 Mar., will serve under a grant given by the Ford Foundation to the Indian government. Two health educators, CLAUDIA GALIHER of Washington, D.C., and MARY CHAMPLIN of Pittsburgh, Pa., will work with him in India.

From headquarters in New Delhi, Leavell will help organize a program for training Indian health workers and for evaluating ways in which the cooperation of Indian villagers can best be attained in community health projects. At the same time he will be searching for means to further the teaching of foreign students in the Harvard School of Public Health.

R. B. BRIGGS was appointed director of the Homogeneous Reactor Project at Oak Ridge National Laboratory on 1 Mar. He was formerly associate director of the ORNL Reactor Experimental Engineering Division. He succeeds J. A. SWARTOUT, who has served as director of the homogeneous reactor project since 1951. Swartout will continue his association with the project as chairman of the steering committee.

WENDELL E. REED, project engineer for the Solar Aircraft Company, San Diego, Calif., was awarded the Wright Brothers medal by the Society of Automotive Engineers at its national aeronautical meeting in New York on 10 Apr. His paper "A new approach to turbojet and ramjet engine control," given at SAE's national meeting in Los Angeles last October, was judged the best presentation on aeronautics in 1955. In it Reed described a more reliable control for aircraft gas turbine power plants.

JOSEPH C. AUB, professor of medical research at Harvard Medical School and director of medical laboratories at the Collis P. Huntington Memorial Hospital, has received the Bertner Foundation award for 1956.

Established in 1950 in honor of the late E. W. Bertner, first acting director of M. D. Anderson Hospital and Tumor Institute and the first president of the Texas Medical Center, the award is presented annually for outstanding contributions in the field of cancer research.

CARROLL E. PALMER and LAURENCE IRVING, of the U.S. Public Health Service, were awarded honorary degrees by the University of Oslo, Oslo, Norway, on 13 Mar. The degree, doc-

tor medicinae honoris causa, is awarded by the university once in 5 years to distinguished foreigners.

Palmer, a physician, has spent the major part of his life in research on tuberculosis and other infections of the lung. He has been working recently on the development of a specific preventive for tuberculosis. Irving, a physiologist, has conducted extensive research on methods of adapting human life to arctic temperatures.

EDWARD R. WEIDLEIN retired on 31 Mar. from the Mellon Institute, with which he has been associated for more than 40 years, most recently as president. Following his retirement, he will spend several months in Europe on a Federal Government mission. He will remain on the board of trustees of the institute and will be available to advise on the administration of the institute's research programs.

The author of a large number of scientific papers and articles on industrial research achievements, opportunities, and management, and, with William A. Hamor, of two popular works, Weidlein has received much recognition for his contributions, including many honorary degrees. During World War II, he held a number of wartime and governmental positions. He is deeply interested in all matters pertaining to the improvement of his home city, Pittsburgh, and its environs.

As president of the Mellon Institute, an endowed, nonprofit organization, Weidlein has been cognizant of the research conducted there in chemical and physical technology; in the pure sciences, especially physical chemistry; and in the welfare of the professions concerned. He has also been closely associated with the industrial fellowship system at the Mellon Institute since its formation in 1907, when he was an undergraduate at the University of Kansas.

Recent Deaths

ARMAND W. ANGULE, Upper Darby, Pa.; 55; professor of anatomy at Hahnemann Medical College and Hospital; 21 Feb.

ARTHUR A. BLANCHARD, Brookline, Mass.; 79; former professor of chemistry at Massachusetts Institute of Technology; 25 Mar.

BURGHARD BREITNER, Innsbruck, Austria; 72; head of the surgical department of Innsbruck University from 1932-56; 27 Mar.



WILLIAM CHRISTIANS, Philadelphia, Pa.; 52; professor of geography at the University of Pennsylvania; 13 Mar.

EUGENE C. CRITTENDEN, Washington, D.C.; 75; retired associate director of the National Bureau of Standards; U.S. representative on the International Committee on Weights and Measures from 1946-54; 28 Mar.

JOHN H. GIBBON, SR., Philadelphia, Pa.; 84; professor emeritus of surgery at Jefferson Medical College; 13 Mar.

JOHN C. LYNCH, Bridgeport, Conn.; 93; retired adjunct professor of neurology and mental diseases at New York Post Graduate Medical School; 23 Mar.

HARRY SODERMAN; 53; Tangier; Swedish criminologist and former head of the Institute of Police Science at the University of Stockholm; 16 Mar.

SYDNEY WEINTRAUB, Tappan, N.Y.; 61; professor of clinical radiology at Cornell University Medical College; 24 Mar.

EDMUND T. WHITTAKER, Edinburgh, Scotland; 82; royal astronomer of Ireland, 1906-12; professor of mathematics at Edinburgh University, 1912-46; Hitchcock professor at the University of California, 1934; 24 Mar.

Education

■ The Raytheon Manufacturing Company has established a graduate study program to enable its outstanding employees or prospective employees who are science and engineering graduates to pursue a program of study leading to a master's degree.

Students who are completing their undergraduate studies as candidates for a bachelor's degree in science or engineering may apply in expectation of becoming employees prior to entering the graduate program.

The program grants will include full tuition, fees, book allowance, and a salary while in residence at school equivalent to research assistant salaries afforded individuals employed by the schools. This salary is currently in the neighborhood of \$240 per month.

Those interested in applying for this program of study are invited to request further information and application forms from Dr. Ivan A. Getting, Vice President, Engineering and Research, Raytheon Manufacturing Company, Waltham 54, Mass.

■ Two Norelco X-ray Diffraction Schools will be sponsored by the Instrument Division of North American Phillips Company, Inc., during coming months. The 24th weeklong series of sessions will be held at the Hotel Morrison, Chicago,