

Retiring This Year



Robert D. Gray

Professor of Economics

Robert D. Gray becomes professor emeritus this month after 39 years on the Caltech faculty. In 1930 Bob took his BS in economics at the Wharton School of Finance and Commerce, University of Pennsylvania, and remained on the faculty there until 1937. After three years at the University of Connecticut, he came to Caltech in 1940 as associate professor of economics and industrial relations, becoming professor in 1942. From 1941 to 1977 he was director of the Industrial Relations Section (which became the Industrial Relations Center in 1960), and he stayed most of another year as acting director while the Institute searched for a suitable successor. More than 300 friends honored him for his work at the Center at a dinner in December 1977. He has become widely recognized as an authority on wage and salary administration, managerial compensation, management development, surveys of employee opinions, and employee benefit plans. He has served on a number of Institute committees over the years, particularly those having to do with employee benefits. He has also served governmental agencies as a member or consultant. He was, for example, for almost 20 years a member of the California State Personnel Board and was twice its president. He is a member of several service and civic groups and professional societies and was made a life member of the Personnel and Industrial Relations Association of Los Angeles in 1955. Among his latest awards are the Thomas P. Pike Industry Award of the Alcoholism Council of Greater Los Angeles and the Phil Carroll Award of the Society for the Advancement of Management.



Robert P. Sharp

Robert P. Sharp Professor of Geology

After a career at Caltech that began when he enrolled as a freshman in the fall of 1930, Bob Sharp is about to become professor emeritus. During the 12 years between 1935 and 1947 he earned an AM and a PhD at Harvard, spent 3 years in the Air Force, and taught at the Universities of Illinois and Minnesota. He has spent the years since then back at the Institute — except, of course, for thousands of hours on geological field trips devoted to teaching, to research, and to sheer enjoyment of the out of doors. His research interests have been directed toward understanding the processes shaping the features of the earth's surface, and to that end he has hiked over and studied a lot of it, particularly the western United States and Alaska. He is the author of a number of papers and three books — one book on glaciers and two field guides to southern California. His knowledge of surface features made him a leader of those attempting to analyze photographs of the lunar and Martian surfaces in early space explorations. Under his chairmanship from 1952 to 1967 the Division of Geology grew in both scope and distinction. He was chairman of the presidential search committee, whose work led to the selection of Harold Brown, and a member of many other Institute committees. In 1950 *Life* magazine named him as one of the country's outstanding college teachers; and in 1958 he was winner of *Sports Illustrated's* Silver Anniversary Award, presented to former college athletes — a unique distinction among Caltech football players. He has also been widely recognized professionally with membership in numerous professional societies, in 1964 by the Kirk Bryan Award of the Geological Society of America and in 1977 by its highest award — the Penrose Medal. In 1973 he was elected to the National Academy of Sciences; and in 1978 his colleagues at Caltech completed a three-year-long project (with his unwitting help) to raise money for the professorship that was named in his honor and of which he has been the first holder.

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J. Harold Wayland

Professor of Engineering Science

J. Harold Wayland, who becomes professor emeritus on July 1, is a 1931 graduate of the University of Idaho. He then came to Caltech and earned his MS and PhD, working in mathematics and physics under Harry Bateman and Robert A. Millikan. For the past 20 years he has concentrated on bringing the methods of the physical and engineering sciences to bear on studies of biomedical problems. He has been particularly interested in studies of flow and exchange dynamics in microcirculatory beds, specializing in the use of intravital microscopy for such studies in experimental animals. Recently his work has involved the use of fluorescent tracers carried on biocompatible macromolecules and recorded using state-of-the-art closed circuit television techniques. He is past president of the Microcirculatory Society and past chairman of the Medical Sciences Division of the AAAS. He is very much involved in furthering international cooperation and collaboration in microcirculatory studies, and to that end he is currently chairman of the International Liaison Committee for the 2nd World Congress for Microcirculation, to be held in La Jolla this summer. He is also a member of the Commission on Microcirculation and Capillary Exchange of the International Union of Physiological Sciences. He has been a visiting professor at Shinshu University Medical School in Japan; visiting scientist at the Karolinska Institutet in Stockholm; academic guest, Institut für Biomedizinische Technik of the University and ETH, Zürich; and in the fall of 1979 will be visiting professor in the Department of Physiology, University of Limburg, Maastricht, The Netherlands. The visit to Maastricht is just the start of a trip around the world for the Waylands, mixing science with pleasure and including a two-week trip on the Nile.