

# The Month at Caltech

## *Honors and Awards*

Don L. Anderson, assistant professor of geophysics, and Steven C. Frautschi, assistant professor of theoretical physics, have received unrestricted basic research grants from the Alfred P. Sloan Foundation.

Dr. Anderson, who received his MS in 1959 and his PhD in 1962 from Caltech, plans to use his grant to carry on investigations of the elastic and non-elastic properties of the earth mantle, and to make an interpretation of wave lengths and free oscillation caused by large earthquakes.

Dr. Frautschi, who has been at Caltech since 1962, will continue his research on the powerful forces which bind strongly interacting particles such as neutrons, protons, and mesons together.

John D. Roberts, professor of organic chemistry and chairman of the division of chemistry and chemical engineering, received an honorary doctor of science degree from Temple University in Philadelphia on March 21.

Pol Duwez, professor of materials science, and Ronald H. Willens, assistant professor of materials science, are co-recipients of the 1964 Champion H. Mathewson Gold Medal of the American Institute of Mining, Metallurgical and Petroleum Engineers, for a paper on their development of entirely new metal alloys by a unique rapid cooling process. Dr. Willens, a former graduate student of Dr. Duwez', received his BS in 1953, his MS in 1954, and his PhD in 1961 from Caltech.

## *Leader of America*

Roy Wilkins, executive secretary of the National Association for the Advancement of Colored People, will be on the Caltech campus April 22 and 23 as the third and last YMCA Leader of America for 1963-64.

Mr. Wilkins, the grandson of a Mississippi slave, was born in St. Louis in 1901. While still in college, he served as secretary for the local chapter of the NAACP in St. Paul, Minn. In 1923 he received his AB from the University of Minnesota and immediately went to work on the Kansas City, Mo., *Call*, a leading Negro weekly. After eight

years as a newspaperman, he joined the administrative staff of the national NAACP. From 1934 to 1949, he served as editor of its official magazine, *The Crisis*. He was unanimously elected executive secretary of the organization in 1955.

## *Arthur H. Young*

Arthur H. Young, emeritus lecturer in industrial relations, died on March 4 in a Santa Barbara hospital. He was 81 years old. A pioneer in the field of management-labor relations, he was one of the founders of the Institute's Industrial Relations Center in 1939, and served on the Caltech faculty from 1939 to 1952.

Born in Joliet, Illinois, Young worked in steel mills as a young man, and was vice president of U.S. Steel from 1934 to 1937.

He was chief safety expert of the U.S. Employees Compensation Commission, managed industrial relations for the International Harvester Company, established and directed Industrial Relations, Inc., from 1924 to 1934, was consultant to the International Labour Organization in Geneva, and was a member of the New York State advisory committee on employment.

In the first world war he served as chief safety expert of arsenals and Navy yards, and in World War II he was a consultant to the Secretary of War and a civilian member of the Navy Manpower Survey Board. He was awarded the Navy's Meritorious Civilian Service Emblem in 1944.

When Mr. Young became lecturer emeritus in industrial relations in 1952, some of his friends and associates established the Arthur H. Young Fund in Industrial Relations. The income from this fund is used for the support and maintenance of the Arthur H. Young Visiting Lecturer in Industrial Relations.

Mr. Young is survived by his wife, three children, nine grandchildren, and five great grandchildren.

## *Guggenheim Fellowship Awards*

Two Caltech professors were awarded Guggenheim Fellowship Awards this month — Leon T. Silver, associate professor of geology; and Theodore Y. Wu, professor of applied mechanics.

*Leon T. Silver,  
associate professor  
of geology.*

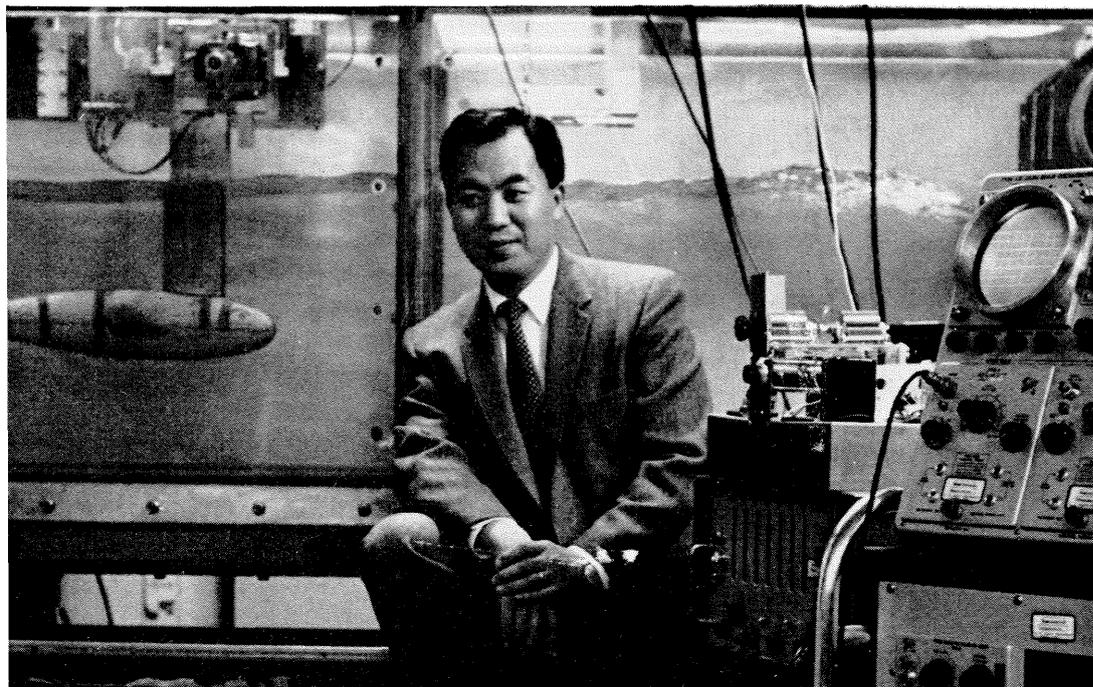


Dr. Silver will continue his studies of the history and age of the earth by analyzing the uranium and lead isotopes of ancient crystalline rocks in Norwegian and Swedish fjords. He has already made extensive investigations of the Grenville Precambrian belt — a broad zone of rocks, extending from the San Gabriel Mountains in southern California to the Northeastern United States, which formed more than 1100 million years ago. These rocks represent some of the roots of a great mountain chain which ran for 4,000 miles across the American continent. Recent petrological and geochronological studies indicate rocks of similar character and approximately the same age in southern Norway and Sweden. After study and field work in Europe,

Dr. Silver will continue his investigations of the isotopic content of the rocks by chemistry techniques in the Caltech laboratories.

Dr. Wu will carry out studies of hydrodynamics of free surface flows at the University of Hamburg in Germany, and at several other universities in Europe.

This particular field of hydrodynamics has been developing rapidly in recent years, spreading into such fields as geophysical and biophysical fluid mechanics. It is concerned with water waves, cavity flows, jets, wakes, and stratified flows in meteorology and oceanography. Dr. Wu will study the viscous effects on cavity and wake flows, and the interaction between gravity waves and boundary layers.



*Theodore Y. Wu,  
professor of  
applied mechanics.*