

THE MONTH AT CALTECH

Lucas Medal

DR. BRUCE H. SAGE, Caltech professor of chemical engineering, has received the American Institute of Mining and Metallurgical Engineers' Anthony F. Lucas Gold Medal Award for 1954.

At the annual banquet of the A.I.M.M.E. in New York last month the Award Committee presented Dr. Sage the medal "for his distinguished achievements in research on the phase behavior and thermodynamics of petroleum hydrocarbons; for the development of ingenious techniques and equipment for the study of these materials under petroleum reservoir conditions; for the resourceful application of mathematics in extending the range of prediction of the behavior of hydrocarbons over a wide range of pressure and temperature; and for his marked contribution to the present-day concepts of good petroleum engineering practice."

A native of State College, New Mexico, Bruce Sage was graduated from New Mexico State College and received his MS and PhD degrees from Caltech (in 1931 and 1934 respectively). He became a Caltech research fellow in 1934, has been professor of chemical engineering since 1944.

During the war he supervised the Propellant and Interior Ballistics Section of the Caltech rocket project and his investigations and contributions earned him the U.S. Medal for Merit in 1948.

He received the American Chemical Society's first Precision Scientific Company Award in Petroleum Chemistry in 1949. In 1952 he was presented a Certificate of Appreciation by the American Petroleum Institute for his contributions to its project, supported at Caltech since 1927, on the behavior of fluids in petroleum reservoirs. New Mexico State College awarded him an honorary Doctor of Engineering degree last year.

NACA

FOUR CALTECH FACULTY members have been reappointed to the National Advisory Committee for Aeronautics. Professors Clark B. Millikan, Hans W. Liepmann, Ernest E. Sechler, and Frank E. Marble received 1954 appointments to NACA committees and subcommittees as did Dr. A. J. Stosick, division chief at the Jet Propulsion Laboratory.

These men, who serve in a personal and professional capacity without compensation, are selected because of

their technical ability, experience and leadership in a special field.

They provide material assistance in the consideration of problems related to their technical fields, review research in progress both at NACA laboratories and in other organizations, recommend research projects to be undertaken, and coordinate research programs.

Professor of aeronautics and director of the Guggenheim Aeronautical Laboratory at Caltech and of the Southern California Cooperative Wind Tunnel, Dr. Millikan was reappointed chairman of the subcommittee on fluid mechanics and to the committee on aerodynamics.

Dr. Liepmann, professor of aeronautics, was appointed to the subcommittee on fluid mechanics.

Dr. Sechler, professor of aeronautics, will continue as a member of the subcommittee on aircraft structures.

Dr. Marble, who is associate professor of jet propulsion and mechanical engineering, was reappointed to the subcommittee on combustion. Dr. Stosick was reappointed to the special subcommittee on rocket engines.

Telescope Study

CALTECH AND the Mount Wilson and Palomar Observatories share in a new \$50,000 grant from the Carnegie Institution of Washington to study methods of increasing the range of telescopes.

The program will apply particularly to adapting the techniques of electron microscopy to boosting the range of the larger telescopes. Scientists will participate from the U. S. Naval Observatory, the National Bureau of Standards, George Washington University, and the Carnegie Institution's own Department of Terrestrial Magnetism. When instruments developed under the research program reach the testing stage they will be tried out at the Mount Wilson and Palomar Observatories.

Honor Medal

CALTECH'S INDUSTRIAL Relations section was awarded a George Washington Honor Medal last month by the Freedoms Foundation for its "aid in the training and development of supervisory and executive personnel in order to improve employer-employee relations through improved understanding of our profit and loss system."

The Freedoms Foundation is a nonprofit, nonpolitical, nonsectarian organization set up in 1949 to make annual awards to American for outstanding contributions to a better understanding of freedom.