

# THE MONTH AT CALTECH

## EXPLORER'S BIRTHDAY

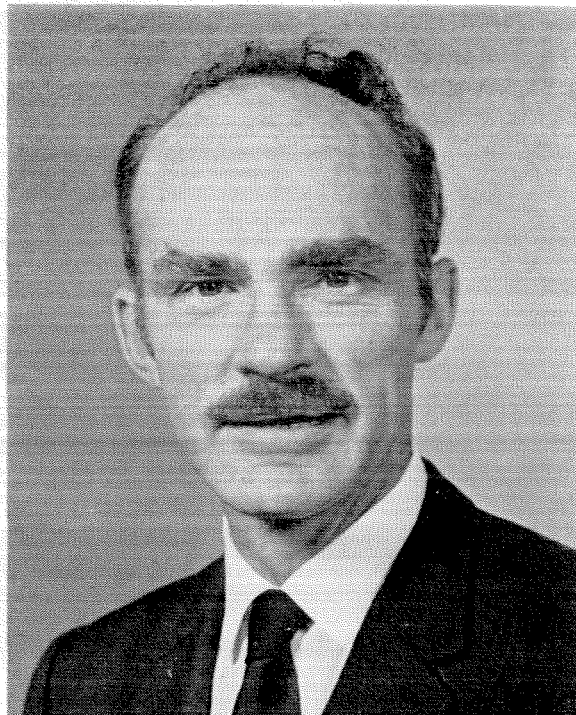
More than 200 prominent physicists, space executives, and military officials gathered in Caltech's Beckman Auditorium on February 1 for a two-day symposium celebrating the tenth anniversary of the launching of Explorer I—and the beginning of the space age in American science.

Speakers at the Explorer Anniversary Symposium included James A. Van Allen, head of the University of Iowa's physics and astronomy department, who verified the radiation belts discovered by Explorer I; Lt. Gen. Austin W. Betts, chief of research and development, U.S. Army; John Findlay, chairman of the lunar and planetary missions advisory board of NASA; and Joseph Kaplan, UCLA professor of physics, who was U.S. Chairman of the International Geophysical Year when the first Explorer was launched.

Following the first day of the symposium, Lee A. DuBridge, president of Caltech, and William H. Pickering, director of Jet Propulsion Laboratory, were hosts at an anniversary banquet at the Huntington-Sheraton Hotel.

Explorer I, developed at JPL, was launched at 3:55 a.m. on February 1, 1958, following a hectic 80-day period after the Soviets launched Sputnik I. The satellite was carried into orbit by the Jupiter C rocket and its Redstone first stage, designed and built by an Army Ballistic Missile Agency team led by Werner von Braun.

Dr. von Braun was a special guest at the celebration along with Maj. Gen. John B. Medaris, retired former head of the Army Ballistic Missile Agency; Lt. Gen. John H. Hinrichs, retired Army chief of ordnance; and Col. Frank Borman, one of the first U.S. astronauts and a Caltech alumnus.



George S. Hammond

## ACTING CHAIRMAN IN CHEMISTRY

George S. Hammond, who has been Arthur Amos Noyes Professor of Chemistry at Caltech since 1964, became acting chairman of the division of chemistry and chemical engineering on February 1. He will serve for a 14-month period while John D. Roberts, division chairman since 1963, takes a temporary leave to devote more time to research and writing.

Dr. Hammond's appointment, which was to have been effective July 1, was rescheduled when Dr. Roberts broke his leg in a skiing accident on December 20.

Dr. Hammond has been on the Caltech faculty since 1956. He is distinguished for his research in photochemistry and believes that the field may ultimately lead to development of new methods for the harvest, storage, and transfer of energy. He is a consultant for a number of government agencies and industry and is also known as an innovator in chemical education.

## HONORS AND AWARDS

Pol Duwez, Caltech professor of materials science, delivered the American Society for Metals' Edward De Mille Campbell Invitational Lecture for 1967 in recognition of his outstanding ability in metallurgical science and engineering.

John R. McMillan, president of the Reserve Oil and Gas Company, has been elected president of the California Institute Associates. He succeeds Samuel F. Bowlby, a retired petroleum executive, who has held the office since 1964. Also elected were William Burgess and Franklin Donnell, vice presidents; John R. White, secretary; Preston Hotchkis, treasurer; and Theodore Combs, assistant secretary-assistant treasurer. Newly elected board members are Mrs. Anna Bing Arnold, Francis D. Frost Jr., and W. Morton Jacobs.

Allan R. Sandage, staff member of the Mount Wilson and Palomar Observatories, has been awarded the David Rittenhouse Silver Medal for his work with quasars and in the field of cosmology. The medal was presented to Dr. Sandage in Philadelphia by the Rittenhouse Society, the second oldest astronomical society in the United States.

Hans W. Liepmann, Caltech professor of aeronautics, has been named as the first Dryden Research Lecturer by the American Institute of Aeronautics and Astronautics.

#### APPOINTMENTS

Rear Admiral John E. Clark, USN (Ret.), has been named deputy director of the Jet Propulsion Laboratory. Concluding a distinguished naval career, Admiral Clark retired last September. He was commandant of the 12th Naval District, with headquarters in San Francisco. He will assume his new duties at JPL on February 19.

Royal H. Tyson has been appointed campus architect for Caltech. Mr. Tyson came to Caltech from Stanford University where he has served as principal campus planner for the past seven years. He is president of the National Association of University Architects.

#### STAR STUDY GRANT

Caltech has received a \$200,000 grant from the National Science Foundation for continuing research on how stars and other cosmic objects generate energy and synthesize chemical elements. The research is under the direction of William A. Fowler, professor of physics.

Additional studies involving detailed anal-

ysis of materials found in meteorites will be conducted under Gerald Wasserburg, professor of geology and geophysics.

#### EDWIN BUCHMAN 1904-1968

Edwin Raphael Buchman, Caltech research associate in organic chemistry, died on February 6 at the age of 63. He had been at Caltech since 1937. Before coming to the Institute, he had done research at Columbia University and was responsible, with two colleagues, for synthesizing vitamin B-1. At Caltech he continued his work on vitamin B-1 with James Bonner. During World War II he helped direct an anti-malaria research project here. He also did exploratory work on the problem of the synthesis of cyclobutadiene. During the past 15 years he was involved largely in mathematics research, specializing in very large prime numbers.

A memorial service for Dr. Buchman was held in Caltech's Dabney Hall lounge on February 12. Dr. Bonner, John Roberts, and Max Delbrück, who were colleagues of Dr. Buchman's during his years at Caltech, spoke about his life and his work.



L.S.B. LEAKEY, world-renowned archeologist from Kenya, after his lecture at Caltech on January 26, received the special tribal greeting of the Kikuyus of Kenya from Wairimu Bowman, wife of Caltech research fellow Dave Bowman (right) and their daughter, Patricia Njeri. Dr. Leakey is a tribal member.