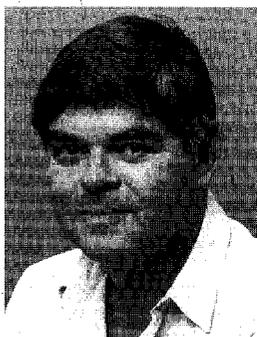
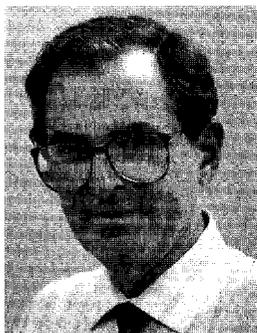


# Random Walk

**R. Stanton Avery (left), chair emeritus of the Board of Trustees, admires a drawing of Avery House with President Tom Everhart at the structure's May 9 groundbreaking. The innovative residence, which will open its doors in the fall of 1996, will house undergraduates, grad students, and faculty, and will provide a meeting place for the exchange of ideas with visiting entrepreneurs.**



**Paul Dimotakis**



**David Goodstein**



**Bradford Sturtevant**



**Philip Saffman**

## *New Professorships*

Appointments to three new professorships and one older one were announced this spring.

Paul Dimotakis has been appointed the John K. Northrop Professor of Aeronautics, a chair established with funds from the dissolution of Northrop University. Dimotakis, who has been a member of the faculty since 1973 and whose research is on turbulent flows, will also remain professor of applied physics.

Vice Provost and Professor of Physics and Applied Physics David Goodstein will become the first Frank J. Gilloon Distinguished Teaching and Service Professor, a chair endowed by the estate of Gilloon, who taught civil engineering at Caltech in 1919–20 and who died recently at the age of 99. Goodstein joined the Caltech faculty in 1966 and works in condensed-matter physics.

The first Hans W. Liepmann Professor of Aeronautics will be Bradford Sturtevant, who specializes in the study of shock waves. Sturtevant, who earned his MS and PhD from Caltech, has been a member of the faculty for 35 years. The chair honors Liepmann, the Theo-

dore von Kármán Professor of Aeronautics, Emeritus.

Philip Saffman will succeed Anatol Roshko, who succeeded Hans Liepmann in the von Kármán chair. Saffman, whose title will be the Theodore von Kármán Professor of Applied Mathematics and Aeronautics, has conducted pioneering research on various types of fluid interactions. He came to Caltech as professor of fluid mechanics in 1964.

## *Honors and Awards*

Three Caltech faculty members were elected fellows of the American Academy of Arts and Sciences: Tom Ahrens, professor of geophysics; Paul Jennings, acting vice president for business and finance and professor of civil engineering and applied mechanics; and Anthony Readhead, professor of astronomy. Ahrens has also been named the recipient of the 1995 Arthur L. Day Medal and of a life fellowship in the Geological Society of America.

Clarence Allen, professor of geology and geophysics, emeritus, will receive the 1996 Medal of the Seismological Society of America.

Lew Allen Jr., senior faculty associate

# Random Walk continued

son of Engineering, has received the James Clerk Maxwell Prize of the American Physical Society.

Gregory Hjorth, the Bateman Research Instructor in Mathematics, has been awarded the Sacks Prize in Mathematical Logic.

Wolfgang Knauss, professor of aeronautics and applied mechanics, has received the 1995 Murray Medal of the Society for Experimental Mechanics.

Rudy Marcus, Nobel laureate and the Arthur Amos Noyes Professor of Chemistry, has received the Honorary Professorship at Fudan University in the People's Republic of China, and the Lavoisier Medal of the French Chemical Society. He has also been named an honorary fellow of the Chemical Institute of Canada, an honorary member of the International Society of Electrochemistry, and an honorary fellow of University College, Oxford.

Three Caltech professors were elected to the National Academy of Sciences this year: Elliot Meyerowitz, professor of biology; Anthony Readhead, professor of astronomy, and Alexander Varshavsky, the Howard and Gwen Laurie Smits Professor of Cell Biology (see page 26).

Clair Patterson, professor of geochemistry, emeritus, has been awarded the \$150,000 Tyler Prize, the world's highest honor in environmental science.

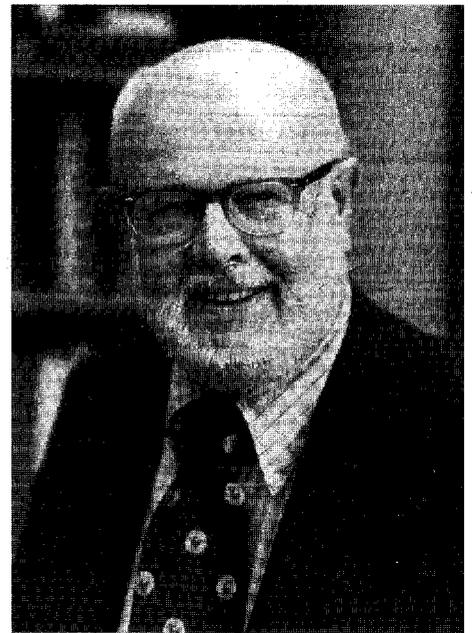
E. Sterl Phinney, associate professor of theoretical astrophysics, has received the Helen B. Warner Prize for Astronomy from the American Astronomical Society.

Douglas Rees, professor of chemistry, has been awarded the 1994 Johnson Foundation Prize by the Johnson Research Foundation of the University of Pennsylvania Medical School.

Ares Rosakis, professor of aeronautics and applied mechanics, has been named a Fellow of the American Society of Mechanical Engineers.

Philip Saffman, the Theodore von Kármán Professor of Applied Mathematics and Aeronautics, has received the American Institute of Aeronautics and Astronautics Fluid Dynamics Award.

Ahmed Zewail, the Linus Pauling Professor of Chemical Physics, is the recipient of the 1995 Herbert P. Broida Prize of the American Physical Society.



## *William A. Fowler* 1911–1995

William A. (Willy) Fowler, Nobel laureate and Institute Professor of Physics, Emeritus, died March 14 in Pasadena at the age of 83. He first came to Caltech as a graduate student in 1933 to work with Charles Lauritsen; he earned his PhD in 1936, whereupon he joined the Caltech faculty, which he never left. His work in the Kellogg Radiation Laboratory put Fowler and his collaborators at the forefront of some of the central issues in modern physics and cosmology. Fowler was primarily concerned with studies of fusion reactions—how the nuclei of lighter chemical elements fuse to create the heavier ones in a process known as nucleosynthesis. It was for this work that he was awarded the Nobel Prize in 1983.

Gerald Wasserburg, Crafoord laureate and the John D. MacArthur Professor of Geology and Geophysics, heads a committee that is planning a symposium on "Nuclear Astrophysics/A Celebration of Willy Fowler," to be held December 14 through the morning of December 16.

and former director of JPL, has received the 1995 Goddard Astronautics Award.

Felix Boehm, the William L. Valentine Professor of Physics, has been awarded the 1994 Tom W. Bonner Prize in Nuclear Physics.

Jehoshua Bruck, associate professor of computation and neural systems and electrical engineering, has been selected to receive a Sloan Research Fellowship.

Thomas Caughey, the Richard L. and Dorothy M. Hayman Professor of Mechanical Engineering, has been elected a fellow of the American Association for the Advancement of Science.

Ray Deshaies, assistant professor of biology, has been named a 1995 Searle Scholar.

Jeffrey Dubin, associate professor of economics, has been awarded a 1995 Haynes Foundation Faculty Fellowship.

Sam Epstein, the William E. Leonard Professor of Geology, Emeritus, and Hugh Taylor, the Robert P. Sharp Professor of Geology, with alumnus Robert Clayton, PhD '55, professor of cosmochemistry at the University of Chicago, have received the Urey Medal of the European Association of Geochemistry.

Harry Gray, the Arnold O. Beckman Professor of Chemistry and director of the Beckman Institute, has been elected a foreign member of the Royal Society of Arts and Sciences in Sweden.

Roy Gould, the Simon Ramo Profes-