

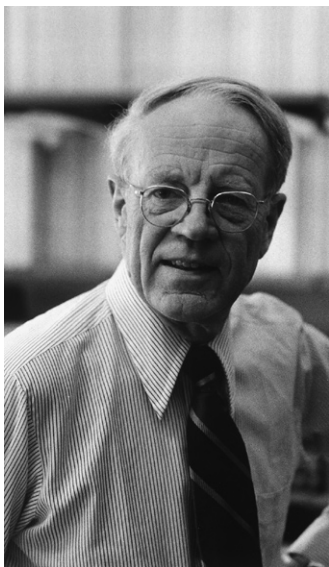
**LEVERETT DAVIS, JR.
1914–2003**

Leverett Davis, Jr. (PhD '41), professor of theoretical physics, emeritus, died June 15, 2003, after a long struggle with Alzheimer's disease. He was 89.

A native of Illinois, Davis earned his BS degree at Oregon State College in 1936, before coming to the Institute to pursue graduate work in physics. He joined the Caltech faculty in 1946, after several years on campus as an instructor, and taught for nearly four decades, before retiring in 1981.

At Caltech, his research interests included cosmic rays, solar physics, and the characteristics of interplanetary space. He was involved in planning the magnetometer experiment on the Pioneer spacecraft that passed Jupiter and was coexperimenter for the magnetometers aboard the Mariner spacecraft.

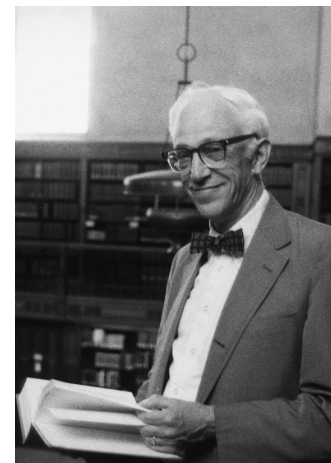
Davis was also a fellow at the Rockefeller Institute for Medical Research in 1940–41 and an NSF Fellow at the Max Planck Institute in Göttingen, Germany, in



1957–58. He was a consultant with Aerojet, the Space Technology Laboratories, and NASA, as well as serving as a member of the 1969 National Academy of Sciences study group on the exploration of the outer planets, and on the 1970 National Science Foundation study group for the exploration of Venus.

In 1970, Davis was presented with NASA's Exceptional Scientific Achievement Award for his research into interplanetary magnetic fields, and he served as president of the International Astronomical Union from 1967 to 1970. He was a fellow of the American Physical Society, the American Geophysical Union, and the American Astronomical Society.

Davis is survived by his wife, Vicki, and three children. A memorial service has been set for Monday, November 11, at 3:00 p.m. in the main lounge at the Athenaeum. □



**MARTIN RIDGE
1923–2003**

Martin Ridge, professor of history, emeritus, died September 22, 2003. He was 80.

A native of Chicago, Ridge graduated from Chicago Teachers College with a bachelor of arts degree in 1944, and then earned his master's degree and doctorate at Northwestern University. After serving on the faculty at Westminster College, San Diego State University, and Indiana University, he joined the Caltech faculty in 1980, where he remained until his retirement in 1995.

Ridge was an authority on American history and the Westward expansion. He was author of several books, including *Ignatius Donnelly: Portrait of a Politician*, *California Work and Workers* (with Vanza Devereau), *The American Adventure* (with Walker Wyman), *Westward Expansion: A History of the American Frontier* (with Ray Allen Billington), and the first two volumes of *Liberty and Union: A History of the United States* (with Raymond J. Wilson

and George Spiero).

He wrote introductions to several books, including the 1985 University of Wisconsin edition of *The Significance of the Frontier in American History*, by Frederick Jackson Turner, as well as to the 1974 edition of Francis Parkman's *The Oregon Trail*. He also edited and revised several works on American history.

In addition to his faculty position at Caltech, Ridge was also a senior research associate at the Huntington Library.

Among his honors were the Ray Allen Billington Prize, the Best Book Award from the Pacific Coast Branch of the American Historical Association, the Best Book Award from Phi Alpha Theta, and the Gilberto Espinosa Prize from the *New Mexico Historical Review*. He was a former president of the Western History Association and the Pacific Coast Branch of the American Historical Association, and former editor of the *Journal of American History*.

He is survived by his wife, Sally Ridge, of San Gabriel; and two sons, Wallace and Drew Ridge. A memorial service will be held on Saturday, November 22, at 2:00 p.m. at the University Club of Pasadena. □

Faculty File

HONORS AND AWARDS

Jess Adkins, assistant professor of geochemistry and global environmental science, has been awarded the European Association for Geochemistry's 2003 Houtermans medal, which is given to outstanding young scientists for their contribution to geochemistry.

Barry Barish, Linde Professor of Physics and director of the Laser Interferometer Gravitational-Wave Observatory (LIGO) Laboratory, has been chosen to be the Hiroomi Umezawa Distinguished Visitor at the University of Alberta, where he will present a seminar and a public lecture.

Christopher Brennen, professor of mechanical engineering, has been selected by the Japanese Foundation of Fluids Machinery Research to receive the Fluids Science Research Award. The first non-Japanese recipient of this award, Brennen is being recognized for his work on cavitation and multiphase flows, and he will travel to Japan to receive the award in December.

John Brewer has been named the Eli and Edye Broad Professor of Humanities and Social Sciences. He joined Caltech in 2002 as professor of history and literature, a title he retains.

Emmanuel Candès, associate professor of applied and computational mathematics, and his coauthor, former grad

student Franck Guo, have received the 2003 Best Paper Award of the European Association for Signal, Speech and Image Processing (EURASIP). The award—in recognition of “New Multi-scale Transforms, Minimum Total Variation Synthesis: Applications to Edge-Preserving Image Reconstruction,” published in the November 2002 issue of *Signal Processing*—will be presented at the EUSIPCO-2004 conference in Vienna.

André DeHon, assistant professor of computer science, has been named to the 2003 TR100, a list of 100 top young innovators in technology. Chosen from around the world by *Technology Review*, the nominees “are recognized for their contributions in transforming the nature of technology.” DeHon was cited for work toward building practical molecular computers, including figuring out how to arrange nanowires into working circuits, and inventing a reprogrammable architecture based on such circuits.

Kenneth Farley has been named the W. M. Keck Foundation Professor of Geochemistry.

Michael Hoffmann, the Irvine Professor of Environmental Science and the dean of graduate studies, Hui-Ming Hung (PhD '00), and Joon-Wun Kang, a former visiting associate, have been

awarded the Water Environment Federation's (WEF's) Jack Edward McKee Medal. The medal, named for the past WEF president and Caltech professor (1949–1980), was given for their article, “The Sonolytic Destruction of Methyl tert-Butyl Ether Present in Contaminated Groundwater,” published in the December 2002 issue of *Water Environment Research*.

Andrew Ingersoll has been named the Earle C. Anthony Professor of Planetary Science.

Jerrold Marsden has been named the Carl F Braun Professor of Engineering and Control and Dynamical Systems.

David Politzer, professor of theoretical physics, is corecipient of the European Physical Society's 2003 High Energy and Particle Physics Prize, which he shares with David Gross of UC Santa Barbara and Frank Wilczek of MIT. The trio “are best known for their work on QCD—the theory of the strong force. In particular they showed that the force between two particles in certain types of gauge theories is strong when they are far apart and weak when they are close together.” (For more on this subject, see page 25 of this issue.)

Demetri Psaltis, Myers Professor of Electrical Engineering, and colleagues Karsten Buse and Christophe Moser (PhD '01) have received the