

Macelwane Medal, which is given for significant contributions to the geophysical sciences by outstanding scientists younger than age 36. Eiler is an assistant professor of geochemistry in the division of geological and planetary sciences at Caltech and Manga is an associate professor of Earth and planetary science at the University of California, Berkeley.

AGU gave the Roger Revelle Medal to **Ralph J. Cicerone** for his "extraordinary breadth of contributions to the understanding of biogeochemical cycles and their effect on climate." Cicerone is the Aldrich Professor of Earth System Science, a professor of chemistry, and chancellor at the University of California, Irvine.

Daniel Weill, former director of the Ocean Drilling Program at the Joint Oceanographic Institutions, received the Edward A. Flinn III Award for his "unselfish efforts on behalf of the wider Earth science community to meet the needs of evolving instrumentation and facilities."

In 2001, AGU established the Charles S. Falkenberg Award to honor a scientist younger than age 45, who has contributed to the quality of life, economic opportunities, and stewardship of the planet through the use of Earth science information, and to the public awareness of the importance of understanding our planet. The first award went posthumously this year to **Charles S. Falkenberg**, a computer scientist, who was killed in the hijacked airliner that crashed into the Pentagon on September 11th.

National Academy Honors Achievements

Next month at a ceremony in Washington, DC, the National Academy of Sciences will recognize 18 individuals for their contributions in different fields of science, including chemistry and the Earth sciences.

The academy will present its Award in Chemical Sciences to **Harry Gray**, Arnold O. Beckman Professor of Chemistry at Caltech. This annual award recognizes innovative research in the chemical sciences that contributes to a better understanding of the natural sciences and that benefits humanity. Gray is being cited for his "demonstration of long-range electron tunneling in proteins, his inspirational teaching and mentoring of students, and his unselfish service as a statesman of chemistry." He will receive a medal and cash prize of \$20 000.

John Wasson will be the recipient of the J. Lawrence Smith Medal, which

NAS presents every three years for recent original and meritorious investigations of meteoric bodies. The academy is acknowledging him for his "important studies on the classification, origin, and early history of iron meteorites and chondritic meteorites, and on the mode of formation of chondrules." Wasson, who holds joint appointments in UCLA's Institute of Geophysics and Planetary Physics and in the departments of Earth and space sciences and of chemistry and biochemistry, will receive a medal and \$25 000.

To honor contributions to geology and paleontology, the academy's Mary Clark Thompson Medal will go to **Frederik Hilgen**, university lecturer on the faculty of Earth sciences at the University of Utrecht in the Netherlands. Hilgen is being cited for his "meticulous integration of various geological, geophysical, and proxy cyclostratigraphic sedimentological records in developing a Late Neogene (12–0 Ma) astronomical time scale." He will receive a medal and a cash prize of \$15 000. The award is given approximately every three years.

AIP Presents Science Writing Awards

The American Institute of Physics has acknowledged its science writing award winners for 2002.

Alfred B. Bortz, a Monroeville, Pennsylvania, physicist who writes children's science books under the name of Fred Bortz, garnered the 2002 Science Writing Award for Children's Literature. He was chosen for his book *Techno-Matter: The Materials Behind the Marvels*, published in 2001 by Twenty-First Century Books.

The 2002 Science Writing Award in Broadcast Media went to **David Kestenbaum**, science correspondent at National Public Radio, for his story "Measuring Muons," which aired on 8 February 2001. The story can be heard at http://search.npr.org/cf/cmn/segment_display.cfm?segID=118293.

For coverage of AIP's 2002 Science Writing Award to a Scientist, see the box in PHYSICS TODAY, December 2002, page 28.

Two Win King Faisal Science Prize

This month, the King Faisal Foundation in Riyadh, Saudi Arabia, presented the 2003 King Faisal International Prize for Science (Chemistry) to **M. Frederick Hawthorne** and **Koji Nakanishi**. Each received a

gold medallion and the pair shared a cash award of about \$200 000.

Hawthorne, University Professor of Chemistry at UCLA, is "one of the most creative and productive chemists in the world," according to the foundation. He is being recognized for his research in boron chemistry, which extends over many fields ranging from the synthesis of new classes of compounds to catalysis and novel therapies for cancer. His research "could lead to the development of a 'silver bullet' to target cancerous cells for destruction while sparing healthy ones," says the citation.

Nakanishi, Centennial Professor of Chemistry at Columbia University, is "an equally eminent chemist." Through his research in biologically active natural products, he has "established the properties and elucidated the structures of many chemical compounds including antibiotics, carcinogenic materials, and anti-cancer products." Over the years, he has also been working on the mechanism of vision. His recent research on age-related macular degeneration is "likely to accelerate the development of a treatment [of this disease], which afflicts many elderly people."

Science Prize topics rotate annually. Next year's topic will be biology.

Holonyak to Receive Top IEEE Medal

At its annual honors ceremony this coming June in Nashville, Tennessee, the Institute of Electrical and Electronics Engineers will present the 2003 IEEE Medal of Honor, its highest award, to **Nick Holonyak Jr.**

The institute is honoring Holonyak for a "career of pioneering contributions to semiconductors, including the growth of semiconductor alloys and heterojunctions, and to visible light-emitting diodes and injection lasers." Holonyak is the John Bardeen Chair Professor of Electrical and Computer Engineering and Physics at the University of Illinois at Urbana-Champaign. The award includes a gold medal and a cash honorarium.

In Brief

At a ceremony next month in Tokyo, the Science and Technology Foundation of Japan will award the 2003 Japan Prize to three individuals. In the science and technology complexity category, the prize will go jointly to **Benoit B. Mandelbrot**, Sterling Professor of Mathematical Sciences at