

ASA Bestows Awards in Nashville

At the 145th meeting of the Acoustical Society of America, which took place in Tennessee recently, five individuals were recognized for their contributions to the field.

Richard H. Lyon received ASA's top honor, the Gold Medal. Lyon, professor emeritus of mechanical engineering at MIT



Lyon

and president of RH Lyon Corp in Cambridge, Massachusetts, was recognized for his "sustained leadership and extensive contributions in the application of statistical concepts to

structural acoustics and noise."

The R. Bruce Lindsay Award went to **Dani Byrd** for her "research in motor control and timing in speech production." Byrd is an associate professor of linguistics at the University of Southern California.

Brian C. J. Moore, the professor of auditory perception in the department of experimental psychology at the University of Cambridge, received the Silver Medal in Psychological and Physiological Acoustics. Moore was honored for his "contributions to understanding human auditory perception, especially the perceptual consequences of peripheral frequency analysis in normal and impaired listeners."

The society's Helmholtz-Rayleigh Interdisciplinary Silver Medal was presented to **Arthur B. Baggeroer** for his "applications of model-based signal processing to underwater acoustics and for contributions to Arctic acoustics." He is the Ford Professor of Engineering and the Secretary of the Navy/Chief of Naval Operations Chair for Ocean Science in the departments of ocean and electrical engineering at MIT.

"The development of underwater sound measurements to determine rainfall rate and type at sea" garnered the Medwin Prize in Acoustical Oceanography for **Jeffrey A. Nystuen**, principal oceanographer in the air-sea remote sensing group at the University of Washington's applied physics lab in Seattle.

Scientists Honored for Work in Geophysics

The European Geophysical Society (EGS) awarded medals to 13 individuals at a ceremony in Nice, France, this past April.

Götz Paschmann received the Hannes Alfvén Medal for his "outstanding contributions to the exploration and understanding of the magnetospheric boundaries and fundamental processes governing the interactions with the solar wind." He is a senior scientist with the Max Planck Institute for Extraterrestrial Physics in Garching, Germany, and directs the International Space Science Institute, in Bern, Switzerland.

In bestowing its David Bates Medal on **Eberhard Grün**, EGS acknowledged Grün's "innovative experimental and wide-ranging scientific contributions to dust research throughout the heliosphere." He is a professor of physics at the University of Heidelberg in Germany and a researcher at both the Max Planck Institute for Nuclear Physics and the Hawaii Institute of Geophysics and Planetology.

The Vilhelm Bjerknes Medal went to **Joost A. Businger** for his "fundamental contributions to the understanding of atmospheric turbulence and boundary layer processes and structure." He is a professor emeritus of atmospheric sciences and geophysics at the University of Washington.

EGS presented its John Dalton Medal to **Murugesu Sivapalan**, professor of environmental engineering at the University of Western Australia, Crawley (in Perth). He was recognized for his "pioneering contributions to advancing the science of catchment hydrology."

Georges Vachaud received the Henry Darcy Medal for his "outstanding contributions to the sustainable management of soil and groundwater systems." He is a researcher in the field of soils physics and water resources at CNRS and a professor at the Laboratoire d'Etude des Transferts en Hydrologie et Environnement at the University of Grenoble in France.

The Beno Gutenberg Medal was bestowed on **Barbara Romanowicz** for her "outstanding contributions to wide-ranging topics of theoretical

seismology and to the development of broadband seismic networks on land and in the oceans." She is chair of the department of Earth and planetary science at the University of California, Berkeley.

Véronique Dehant received the Vening Meinesz Medal in recognition of her "outstanding contributions to the study of nutations of the Earth's axis of rotation and their implications for the structure of the Earth's core." Dehant heads the time, Earth rotation, and space geodesy section at the Royal Observatory of Belgium in Brussels.

The Milutin Milanković Medal went to **John Imbrie**, Henry L. Doherty Professor of Oceanography Emeritus at Brown University. EGS acknowledged his "leadership in the systematic examination of the response of the global climate system to forcing by changes in the Earth-Sun orbital geometry."

Kurt Polzin received the Fridtjof Nansen Medal in recognition of his "pioneering contributions to the measurement of mixing in the deep ocean." He is an associate scientist in the physical oceanography department at the Woods Hole Oceanographic Institution in Woods Hole, Massachusetts.

EGS awarded its Hans Oeschger Medal to **Sigfus Johnsen**, associate professor of geophysics at the University of Copenhagen's Niels Bohr Institute. Johnsen was cited for his "outstanding contributions to ice core research through the modeling of water isotopes and their use for paleoclimate reconstruction."

The Lewis Fry Richardson Medal was given to **Uriel Frisch** for his "fundamental contributions to the understanding of turbulence." Frisch is a researcher at CNRS in the Observatoire de la Côte d'Azur in Nice, France.

Raymundo S. Punongbayan received the Sergey Soloviev Medal for his "exceptional knowledge and skills in understanding explosive volcanic eruptions" that, according to EGS, "led to the saving of thousands of lives during the eruption of Mount Pinatubo in 1991." He is the executive director of the Earthquake and Megacities Initiative, a nonprofit organization in Quezon City, Philippines.

For his "outstanding contributions to the biogeosciences and to the biogeochemical cycle of carbonates," **Peter Westbroek** took home the

Vladimir Ivanovich Vernadsky Medal. Westbroek is a professor emeritus in geophysics at the University of Leiden in the Netherlands.

NAE Adds to Its Ranks

In February, the National Academy of Engineering elected 77 new members and nine foreign associates. Those who are physicists or who work in physics-related fields include the following:

Rod Alferness, senior vice president of the optical networking research division at Lucent Technologies in Murray Hill, New Jersey

James R. Asay, associate director of the Institute for Shock Physics at Washington State University, Pullman

Bernard Cohen, professor emeritus in the University of Pittsburgh's physics and astronomy department

Stephen Forrest, professor of electrical engineering at Princeton University

Glenn Fredrickson, director of the Mitsubishi Chemical Center for Advanced Materials at the University of California, Santa Barbara

Robert Fugate, senior scientist for atmospheric compensation at the Air Force Research Laboratory in Albuquerque, New Mexico

Joseph Greene, director of the Frederick Seitz Materials Research Laboratory at the University of Illinois at Urbana-Champaign

Tatsuo Itoh, TRW Chair in Microwave Electronics and professor of electrical engineering at UCLA

Charles Jakowatz, manager of the signal processing and research department at Sandia National Laboratories in Albuquerque, New Mexico

Michael King, senior project scientist of the Earth Observing System at NASA's Goddard Space Flight Center in Greenbelt, Maryland

Oliver Kingsley Jr., president and chief operating officer of Exelon Corp in Chicago

David C. Larbalestier, Grainger Professor of Superconducting Materials and L. V. Shubnikov Professor in the materials science and engineering department and a professor of physics at the University of Wisconsin-Madison

Ronald Larson, chair of the chemical engineering department at the University of Michigan, Ann Arbor

R. Noel Longuemare Jr., consultant at Longuemare Consultants in Ellicott City, Maryland

Tso-Ping (T. P.) Ma, Raymond John Wean Professor of Electrical Engineering at Yale University

Alfred MacRae, president of MacRae Technologies in Berkeley Heights, New Jersey

Richard Meserve, president of the Carnegie Institution of Washington in Washington, DC

Elaine S. Oran, senior scientist for reactive flow physics at the Naval Research Laboratory in Washington, DC

Charles Pryor Jr., chief executive of the BNFL Nuclear Utilities Business Group in Cheshire, England

Emery Reeves, independent aerospace consultant in Palos Verdes Estates, California

Thomas E. Romesser, vice president of technology development at the Northrop Grumman Corp space technology sector in Redondo Beach, California

Alton Romig, vice president of science, technology, and partnerships and chief technology officer at Sandia National Laboratories in Albuquerque, New Mexico

Adel Sarofim, Presidential Professor in the combustion research group at the University of Utah, Salt Lake City

Dudley Saville, Stephen C. Macaleer '63 Professor of Engineering and Applied Science and a professor of chemical engineering at Princeton University

Stephen Senturia, professor of electrical engineering at MIT

Soroosh Sorooshian, Regents Professor and director of the NSF science and technology center at the University of Arizona, Tucson

R. Bruce Thompson, director of the center for nondestructive evaluation at Iowa State University and Distinguished Professor of Materials Science and Aerospace Engineering at the university

Alan Title, senior fellow in the advanced technology center of Lockheed Martin Corp in Palo Alto, California

Thomas H. Vonder Haar, director of the Cooperative Institute for Research in the Atmosphere at Colorado State University and University Distinguished Professor of Atmospheric Science at the university

Eli Yablonovitch, professor of electrical engineering at UCLA.

The foreign associates include

John Knott, Feeney Professor of Metallurgy and Materials at the University of Birmingham and an Extraordinary Fellow of Churchill College, Cambridge, England

Giuseppe Marrucci, professor of chemical engineering at the University of Naples in Italy

Shuji Nakamura, professor of materials and electrical and computer engineering at the University of California, Santa Barbara