

Elizabeth Swinbank, Fellow in Science Education at the University of York, is the recipient of the Bragg Medal and Prize. She is being honored for her “innovative contributions to the development of the school physics curriculum, in particular as director of the [university’s] Salters Horners Advanced Physics project.”

The IOP is awarding its Charles Chree Medal and Prize to **Joanna Haigh** for her “outstanding contributions to atmospheric physics, in particular for her work on solar variability and its effect on climate.” She is a professor of atmospheric physics at Imperial College London.

Michael B. Green, John Humphrey Plummer Professor of Theoretical Physics at the University of Cambridge, is this year’s recipient of the Paul Dirac Medal and Prize. He is being cited for his “crucial role in the development of superstring theory as a credible new framework for physics.”

The Duddell Medal and Prize are going to **James Hough** for his “seminal contributions to the design and development of gravitational wave detectors worldwide.” He is the director of the Institute for Gravitational Research, Physics and Astronomy at the University of Glasgow.

Ian Ward, recipient of the Glazebrook Medal and Prize, is being acknowledged for his “outstanding contributions to the structural understanding of polymeric materials and the development of innovative processing methods for their manufacture.” He is an emeritus professor in the physics and astronomy department at the University of Leeds.

The IOP is handing out its Guthrie Medal and Prize to **Henry Hall**, emeritus professor of physics at the University of Manchester. The society is citing him for his “outstanding experimental and theoretical contributions to quantum fluids and in particular for the development of the ^3He – ^4He dilution refrigerator.”

Sharing the Kelvin Medal and Prize are **Mike Gluyas**, who formerly was a lecturer in the University of Salford’s department of pure and applied physics, and **Wendy Gluyas**, who taught English as a foreign language to undergraduates, linguists, and educators. The husband–wife team, now retired, are being recognized for their “outstanding lecture-demonstrations on the physics of sound and music, delivered to over 200 000 schoolchildren, university students, and the public throughout the UK, Eire, and internationally.” The pair currently travels worldwide

to deliver an illustrated demonstration lecture entitled “Musical Squares—Adventures in Sound,” which explores the many aspects of sound and hearing.

Martin Bodo Plenio of Imperial College London is being honored with the Maxwell Medal and Prize for his “influential contributions to quantum information theory, in particular the characterization and manipulation of quantum entanglement and its application to the processing of information.” He is a professor of quantum physics.

The Mott Medal and Prize are being bestowed on **Ted Forgan** for his “outstanding contributions to condensed matter physics, in particular for his influential work on the study of vortices in superconductors using small-angle neutron scattering and muon spin rotation.” He is a professor of condensed matter physics at the University of Birmingham.

Ian Gilmore, principal research scientist at the UK’s National Physical Laboratory, is the recipient of the Paterson Medal and Prize. He is being cited for his “major contributions to the analysis of molecules at surfaces, particularly for the development of a new technique (G-SIMS), which allows direct interpretation of spectra. This technique is now available commercially, providing solutions for polymer liquid-crystal display and hard disk developments in industry.”

The IOP is awarding its Rutherford Medal and Prize to **David Wark** for his “personal contributions to particle astrophysics, in particular to the field of solar neutrinos.” He is a professor of physics at the University of Sussex and the Rutherford Appleton Laboratory near Didcot in Oxfordshire.

Aspnes Set to Be Next President of AVS

David Aspnes is the AVS Science and Technology Society’s president-elect for 2004. Aspnes, who will become president of the society in January 2005, succeeded **Robert Childs**, who is president effective this month (see PHYSICS TODAY, January 2003, page 61).

Aspnes received his BS in 1960 and his MS in 1961, both in electrical engineering, from the University of Wisconsin–Madison. He earned his PhD in physics in 1965 from the University of Illinois at Urbana-Champaign and spent the next two years doing postdoctoral research at Illinois and at Brown University.

In 1967, he became a member of the technical staff at AT&T Bell Laboratories (now Lucent Technologies’ Bell Labs) in Murray Hill, New Jersey, where he spent the next 17 years. Aspnes then moved to Bellcore, an R&D and telecommunications company in Piscataway, New Jersey, in 1983. There, he managed the interface physics department and later headed the optical physics department, before joining North Carolina



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Aspnes

State University (NCSU) faculty in 1992. Also a member of the American Physical Society and the Optical Society of America, he is currently a Distinguished University Professor of Physics and head of the real-time diag-

nostics and control Group at NCSU. His research spans a broad spectrum of subjects, including semiconductor and surface physics and optical spectroscopy.

When asked about his vision for AVS, Aspnes said, “AVS and its members have a more than 50-year history of identifying relevant technologies and expediting their implementation through a unique mix of science and technology. I will work toward promoting these interactions by encouraging volunteer participation, particularly by younger members, and by strengthening relationships with the international community and with sister organizations such as the APS.”

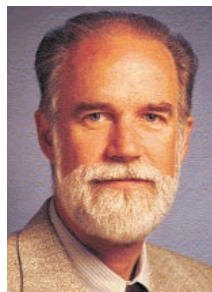
In other AVS election results, **Joseph Greene** (University of Illinois at Urbana-Champaign) retains his position as secretary and **John Coburn** (University of California, Berkeley) remains the society’s treasurer. Also taking office this month are two new AVS directors: **Neal Shinn** (Sandia National Laboratories in Albuquerque, New Mexico) and **Anne Testoni** (Varian Semiconductor Equipment Associates Inc in Gloucester, Massachusetts). **Fred Dylla** (Thomas Jefferson National Accelerator Facility in Newport News, Virginia) and **Paula Grunthaner** (NASA’s Jet Propulsion Laboratory at Caltech) are AVS’s new trustees.

Van Stryland Is OSA Vice President for 2004

On 2 January, **Eric Van Stryland**, director of the School of

Optics/Center for Research and Education in Optics and Lasers (CREOL) and a professor at the University of Central Florida (UCF) in Orlando, begins his term as the Optical Society of America's vice president. Van Stryland, who succeeds **Susan Houde-Walter** (see PHYSICS TODAY, December 2002, page 75), will become president-elect in 2005 and will serve as president in 2006. **Peter Knight** begins his term as the OSA president for 2004 (see PHYSICS TODAY, January 2002, page 69).

Van Stryland graduated in 1970 with a BS in physics from Humboldt State University in Arcata, California. While working at the Optical Sciences Center at the University of Arizona in Tucson, he completed his MS (1975) and PhD (1976), both in physics. He then spent two years in the Center for Laser Studies at the University of Southern California, and subsequently joined the University of North Texas in 1978 as an assistant professor of physics. He was a founding member of the Center for Applied Quantum Electronics at North Texas and served as the center's chairman from 1983 to 1985. In 1987, he joined UCF as a professor of



Van Stryland

physics and electrical and computer engineering and in 1998 helped establish the School of Optics, where he is now director. His current research interests involve the characterization of the nonlinear optical properties of materials and their temporal response and the applications of those properties for sensor protection, switching, and beam control.

In his candidate's statement, Van Stryland said he would "focus on furthering the society's commitment to education and international outreach." He also plans to "work with the OSA board to determine new ways to encourage and expand the society's volunteer base, as well as embrace the developing fields of optics and photonics, including biophotonics and nanotechnology."

Also taking office this month for three-year terms are OSA's new directors at large: **Martin Fejer** (Stanford University), **Julie Fouquet** (Agilent Laboratories in Palo Alto, California), and **Katherine Hall** (PhotonEx in Maynard, Massachusetts).

In Brief

Martin Rees, Astronomer Royal and a Royal Society Research Professor at the University of Cambridge, takes office this month as the master of Trinity College, Cambridge University.

US Navy Rear Admiral Thomas Q. Donaldson V becomes the director of NASA's John C. Stennis Space Center in South Mississippi on 5 January. Donaldson previously was the commander of the Naval Meteorology and Oceanography Command at Stennis. He replaces interim director **Michael Rudolph**, who moved in December to NASA's Marshall Space Flight Center in Huntsville, Alabama, where he manages the Space Shuttle Propulsion Office.

Garry W. Rogerson took the reins last month as the new CEO of Varian Inc in Palo Alto, California. Rogerson, who has a PhD in biochemistry, had been the company's president and chief operating officer and will retain the title of president. He succeeds **Allen J. Lauer**, who will remain the chairman of Varian's board of directors.

In November, the American Society of Mechanical Engineers presented its 2003 Per Bruel Gold Medal for Noise Control and Acoustics to **David Feit**. A senior research scientist for structural acoustics with the Naval Surface Warfare Center's Carderock Division in West Bethesda, Maryland, Feit was recognized for "advancing the understanding of structural-acoustic phenomena and subsequent noise and vibration control treatments related to submerged vehicles, high-frequency noise radiation from fluid-loaded structures, and the vibration of fuzzy structures."

Three individuals recently joined the physics faculty at the University of Texas at Austin. This month, **Gennady Shvets** began working as an assistant professor. He previously was an associate professor in the department of biological, chemical, and physical sciences at the Illinois Institute of Technology in Chicago. **Ernst-Ludwig Florin** and **Maxim Tsoi** both began their positions as assistant professors this past October. Florin previously was a scientist with the cell biology and biophysics program at the European Molecular Bi-

ology Laboratory in Heidelberg, Germany. Tsoi had been working with the research division at the IBM Almaden Research Center in San Jose, California.

At a ceremony in Munich in October, the Eduard Rhein Foundation, based in Hamburg, conferred its awards for 2003 to three winners, two of whom do physics-related work. The Cultural Award, with a cash prize of €20 000 (about \$23 500), went to **Ernst Peter Fischer**, a physicist who has been a writer since 1987 and who also routinely teaches the history of science at the University of Konstanz in Germany. He was recognized for his "recent book, *Die andere Bildung: Was man von den Naturwissenschaften wissen sollte* [*The Other Culture: What You Should Know From the Natural Sciences* (Ullstein, 2001)]. With this volume, [Fischer] has strongly and positively influenced the ongoing debate in Germany about the appropriate strategies in higher education." The foundation gave the Technology Award to **Paul C. Lauterbur**, Center for Advanced Study Professor of Chemistry at the University of Illinois at Urbana-Champaign, for "the invention of magnetic resonance imaging as a noninvasive method for cross-sectional imaging at high spatial resolution and with endogenous tissue contrast." Lauterbur received a cash prize of €50 000 (about \$59 000).

This past October, **Jack Rowe** became the deputy director of the newly formed Institute for Advanced Materials, Nanoscience and Technology at the University of North Carolina at Chapel Hill. Rowe, also an adjunct professor in the university's department of physics and astronomy, had been a senior research scientist responsible for special studies in the physical sciences directorate at the Army Research Office in Research Triangle Park, North Carolina, since 1996.

Sun Kwok became director of the Taiwan-based Institute of Astronomy and Astrophysics in September. He had been a professor of astronomy at the University of Calgary in Canada and Killam Fellow of the Canada Council for the Arts.