

WE HEAR THAT

International Science Prize Goes to Two

The King Faisal Foundation in Riyadh, Saudi Arabia, announced this past December that **Sajeev O. John** and **Chen Ning Yang** jointly won the 2001 King Faisal International Prize for Science. John and Yang will share the cash award of about \$200 000. Winners also receive a gold medallion



JOHN

and a certificate describing their work. According to the awards citation, John, a professor of physics at the University of Toronto, was recognized "for proposing a new method for the transmission of information by optical means. It is hoped that the use of electrons to transmit messages within telecommunications devices and computers can be replaced by light." The citation added that this new method "would lead to faster, cheaper, and more versatile tools and would transform the computer and telecommunications industries."

Yang was acknowledged as being "one of the most eminent contemporary physicists. Among his many fundamental contributions to the field of physics, Professor Yang proposed a theoretical framework, which later became the basis of the present theory of the structure of matter at the smallest scales and highest energies." Yang is Albert Einstein Professor Emeritus at SUNY Stony Brook. Yang and Tsung-Dao Lee shared the 1957 Nobel Prize in Physics for their investigation of parity laws.



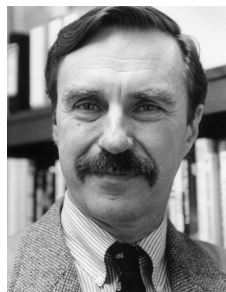
YANG

The King Faisal International Prize was established in 1977 and first awarded in 1979. This year's prize was also given in the categories of Arabic literature, medicine, and service to Islam.

Gemant Award Bestowed on Trefil

The American Institute of Physics presented its Andrew W. Gemant Award for 2000 at the Sigma Pi Sigma 2000 Congress held last September at the American Center for Physics in College Park, Maryland.

The winner, **James Trefil**, was honored for his "outstanding and sustained contributions in presenting a broad range of topics in physics to millions of nonscientists around the world, through books, periodical articles, radio, and television." He also was cited for his "effective national leadership in developing and promoting new curricula for science education." Trefil is a Clarence J. Robinson Professor of Physics at George Mason University in Fairfax, Virginia.



TREFIL

Leal and Others Receive SOR Prizes

The Society of Rheology presented two prizes for 2000 at a meeting held last month in Hilton Head, South Carolina.

The Bingham Medal, SOR's highest honor, was presented to **Gary Leal**, a professor of chemical engineering at the University of California, Santa Barbara. According to the citation, Leal was recognized for his "outstanding and wide-ranging accomplishments in rheology over the last thirty years."

Four authors are sharing SOR's Publication Award for parts 1 and 2 of their paper entitled "Shear Thickening in Low-Concentration Solutions of Wormlike Micelles." **David Pine**, **Y. T. Hu**, and **Phillipe Boltzenhagen** wrote part 1, "Direct Visualization of Transient Behavior and Phase Transitions." These authors, along with **Eric Matthys**, wrote part 2, "Slip, Fracture, and Stability of the Shear-Induced Phase." Pine is a professor of chemical engineering and materials and Matthys is a professor of mechanical engineering at the University of

California, Santa Barbara. Hu is a senior research scientist at Unilever Research in Edgewater, New Jersey, and Boltzenhagen is the head of research at the CNRS Laboratory of Complex Fluid Dynamics in Strasbourg, France.

OSA Announces Engineering Excellence Awards

The Optical Society of America recently announced the winners of its 2000 Engineering Excellence Awards, which are given for technical achievements in optical engineering.

Joseph Anello Jr., chief engineer of GN Nettest's optical division in Utica, New York, was honored for being an "exemplary engineer who serves as a strong community advocate for engineering education, working with schools and businesses to increase student awareness in the profession, its importance, and the skills needed to succeed," according to the citation.

Arne Erstling, director of engineering at SpectraSwitch in Santa Rosa, California, received his award for "creating from inception in just eighteen months an engineering department encompassing research and development, process, and manufacturing efforts that resulted in a groundbreaking telecommunications technology for the active/passive optical components industry."

Andrew Tam, manager of exploratory magnetic recording at the IBM Almaden Research Center in San Jose, California, was recognized for "inventing, developing, and implementing novel laser processes for the manufacturing of modern disk-drive components, particularly laser zone texturing for disks and laser curvature adjust for magnetic head sliders."

Judith Grenko, **Robert Hartman**, **Leonard J.-P. Ketelsen**, all of Lucent Technologies in Breinigsville, Pennsylvania, and **Won Tsang**, founder and CEO of Multiplex Inc in South Plainfield, New Jersey, shared an award for the "development of high-performance integrated multiple-quantum-well electro-absorption modulated distributed-feedback lasers, and associated epitaxial growth, fabrication, and characterization methodologies for highly reproducible manufacture."