

## EVENT

# Distinguished Science and Technology Award: Dr. Daniel Chee Tsui

*Arthur LeGrand Doty Professor  
Electrical Engineering  
Princeton University*

Was born in the Henan province of China, Dr Tsui had his high school education in Hong Kong. In 1958 he came to the United States to attend Augustana College, and then went to graduate school at the University of Chicago, receiving his Ph. D. in Physics in 1967. He worked at Bell Laboratory in Murray Hill, N.J. until 1982, when he joined the Department of Electrical Engineering at Princeton University.

Professor Tsui received the 1998 Nobel Prize in Physics, the 1984 Buckley Condensed Matter Physics Prize from the American Physical Society- and the 1998 Benjamin Franklin Metal in Physics. He is a member of the National Academy of sciences, the National Academy of Engineering, the American Academy of Arts and Sciences, and the Academia Sinica. He is a fellow of the American Physical Society and the American Association of the Advancement of Science, and a foreign member of the Chinese Academy of Sciences.

In an experiment in 1982. he discovered with Horst Stormer that at low temperature and in

strong magnetic fields, electrons confined to move along the interface between two different semiconductors could form new kinds of quasi-particles with charges that are only fractions of the normal electron charge. Within

a year of the discovery, Prof Robert Laughlin contributed the theoretical analysis. These three were subsequently awarded the Nobel Prize in 1998 "for the discovery of a form of quantum fluid with fractionally charged excitations".

Prof Tsui has continued to explore the collective behaviors of electrons in solid-state materials. His continuing research continues to yield provocative phenomena, which have enabled theorists to develop more profound insight into the inner structure and dynamics of matter.

