

Nano/Bio Interface Center



NBIC Award for
Research Excellence in Nanotechnology

HORST L. STORMER

2005 Recipient

UNIVERSITY *of* PENNSYLVANIA



Horst Stormer was born in Frankfurt, Germany, and received his Diploma degree in Physics in 1974 from the local Goethe University and a Ph.D. in 1977 from the University of Stuttgart. He completed a postdoctoral fellowship at the renowned Bell Laboratories in Murray Hill, NJ where he spent the next 25 years. He became a Member of Technical Staff in 1978 and headed the Semiconductor Physics Research Department from 1983 to 1992. He then became Director of the Physical Research Laboratory of, heading most of the fundamental physics research activities. In 1997, he moved to Adjunct Physics Director of Bell Labs, now part of Lucent Technologies, and became a Professor in the Department of Physics and the Department of Applied Physics and Applied Mathematics of Columbia University.

Horst Stormer has worked extensively on the properties of two-dimensional electron sheets in semiconductors and published more than 200 papers on this and on related subjects. In 1978 Stormer co-invented a technique that “speeds up” electrons in semiconductors. The world’s fastest and quietest transistors are based on this principle. The very same invention has led to the discovery of amazing new physics, in which Stormer participated in 1982. Professor Stormer and his colleagues received numerous awards for the discovery of the fractional quantum Hall effect, the most prestigious of which being the 1998 Nobel Prize in Physics. His recent work focuses on transport in single molecules. In addition to maintaining a distinguished research program, Horst Stormer has been an enthusiastic spokesperson for the nanotechnology community.

*Join the Nano / Bio Interface Center
as we award the first annual*

NBIC Award for Research Excellence in Nanotechnology

Inaugural Recipient

Horst L. Stormer

Professor of Physics, Columbia University

Wednesday, October 26, 2005

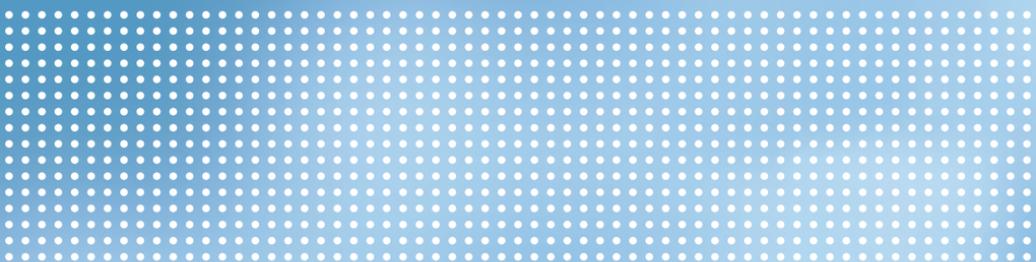
3:30 PM

Wu and Chen Auditorium

Levine Hall

3330 Walnut Street

Reception to follow



Nano/Bio Interface Center at the University of Pennsylvania is a Nanoscale Science and Engineering Center (NSEC) bringing together researchers from the Schools of Engineering and Applied Science; Arts and Sciences; and Medicine. The NBIC exploits Penn's internationally recognized strengths in design of molecular function and quantification of individual molecules. The study of the ethics of nano-bio technology is also an integral part of the program. The Center unites investigators from ten departments to provide, not only new directions for the life sciences, but also for engineering in a two-way flow essential to fully realizing the benefits of nano-biotechnology.