

**ELECTRON DEVICES SOCIETY  
EDUCATION AWARD  
PREVIOUS WINNERS**

2006      Mark S. Lundstrom

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*Presented to*

**MEYYA MEYYAPPAN**

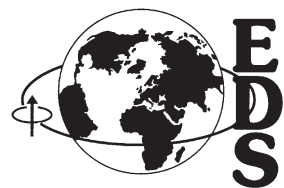
*by the*

**IEEE Electron Devices Society**

at the  
**International Electron Devices Meeting**

Washington, D.C.  
10 December 2007





## **ELECTRON DEVICES SOCIETY EDUCATION AWARD**

The EDS Education Award was established in 2006 by the Electron Devices Society of the Institute of Electrical and Electronics Engineers, Inc.

The Award is presented annually and is intended to recognize distinguished contributions to education within the fields of interest of the IEEE Electron Devices Society.



### **MEYYA MEYYAPPAN 2007 EDS EDUCATION AWARD RECIPIENT**

*"For promoting nanotechnology education to university and high school students"*

## **MEYYA MEYYAPPAN**

Meyya Meyyappan is Chief Scientist for Exploration Technology at NASA Ames Research Center in Moffett Field, CA. Until 2006 he was the Director for the Center for Nanotechnology at NASA Ames, where he led a group of over 60 scientists working on various aspects of nanotechnology. He is a founding member of the Interagency Working Group on Nanotechnology established by the Office of Science Technology Policy, which was responsible for formulating the US National Nanotechnology Initiative.

He received his Ph.D. from Clarkson University in 1984. His earliest EDS-related contributions include modeling of heterostructure bipolar transistors and high electron mobility transistors in III-V systems and developing damage-free etch processes for III-V device fabrication. His current research includes carbon nanotubes and inorganic nanowires and their applications in sensors, instrumentation, and nanoelectronics. In all these fields, he has published over 175 articles in peer-reviewed journals and given over 200 invited/keynote/plenary talks and invited seminars across the world.

Since 1997, Dr. Meyyappan has been involved in nanotechnology education and training for university and high school students through establishing research internship programs at NASA Ames, which has had over 100 students each. He developed an introductory course on Nanoscale Science and Technology and taught it to engineering and science students at Santa Clara University for three years starting in 2002. He has made this course materials available to over 30 universities across the world, which is currently available from the web portal hosted by the Northwestern University's Nanotechnology Center for Teaching and Learning and downloaded 24000 times in the first six months. He has taught over 25 continuing education short courses around the globe based on these materials as well as on carbon nanotubes. These courses were sponsored by NATO, IEEE, MRS, and Nanoscience and Technology Institute. He has given numerous lectures, both live and via video, at high schools and community colleges to raise awareness about this emerging field.

Dr. Meyyappan is a Fellow of the IEEE, the Electrochemical Society, AVS, and the California Council on Nanotechnology. For his contributions and leadership in nanotechnology, he has received numerous awards including a Presidential Meritorius Award, NASA's Outstanding Leadership Medal, Arthur Flemming Award given by the Arthur Flemming Foundation and the George Washington University, and the 2008 IEEE Judith Resnick Award. For his educational contributions, he has received an Outstanding Recognition Award from the NASA Office of Education and the Engineer of the Year Award(2004) by the San Francisco Section of the American Institute of Aeronautics and Astronautics(AIAA). Dr. Meyyappan is the current President of the IEEE Nanotechnology Council (2006-2007) and served as Distinguished Lecturer of Nanotechnology for both IEEE-NTC and ASME. He has been a member of EDS for about 25 years.

Meyya lives in San Jose, CA with his wife, Debbie, who is an artist and brings some much-needed balance to his life.