

**32 EDS Members Elected to the IEEE Grade of Fellow
Effective 1 January 2008**

**Akintunde Akinwande , Massachusetts Institute of Technology, Cambridge ,
MA , USA**

*for contributions to the development of digital self-aligned gate technology and
vacuum microelectronic devices*

**Kenji Anami , Semiconductor Industry Research Institute Japan (SIRIJ),
Chiyoda-ku , Tokyo, Japan**

*for invention of the divided word line structure for high-speed, low-power logic and
memory*

**Colombo Bolognesi , Swiss Federal Institute of Technology (ETHZ), Zurich ,
Switzerland**

*for contributions to millimeter-wave antimonide-based heterojunction bipolar
transistors*

John Booske , University of Wisconsin – Madison, Madison , WI , USA

for contributions to vacuum electronics and microwave processing of materials

Joe Brewer , (Self-Employed), Melrose , FL, USA

for contributions to nonvolatile memory integrated circuit technology and digital signal

**Timothy Brunner , IBM Semiconductor Research and Development Center,
Ridgefield , CT , USA**

for contributions to optical lithography methods used to pattern integrated circuits

Stephen Campbell , University of Minnesota, Minneapolis , MN , USA

for contributions to deeply scaled CMOS devices

**Carlos Diaz , Taiwan Semiconductor Manufacturing Co. (TSMC), Hsinchu ,
Taiwan, China**

for contributions to deep sub-micron foundry CMOS technology

Gary Fedder , Carnegie Mellon University, Pittsburgh , PA , USA

*for contributions to integrated micro-electro-mechanical-system processes and design
methodologies*

Michael Fu , University of Maryland, College Park , MD, USA

for contributions to stochastic gradient estimation and simulation optimization

Robert Gao , University of Massachusetts, Amherst, MA , USA

*for contributions to condition monitoring and health diagnosis of machines through
sensing methodologies*

Fernando Guarin , IBM Microelectronics, Hopewell Junction , NY , USA

for contributions to semiconductor materials and reliability

Hiroki Hamada , Sanyo Electric Co., Ltd., Hirakata-City , Osaka, Japan
for contributions to red semiconductor laser diodes and polycrystalline silicon thin-film transistors

Gregg Higashi , Intel Corporation, Santa Clara , CA, USA
for contributions to wet chemical processing of silicon

Minghwei Hong , National Tsing Hua University, Hsinchu , Taiwan
for contributions to III-V semiconductor MOSFET transistors

Harold Hosack , Semiconductor Research Corporation, Durham , NC , USA
for contributions to resonant tunneling and imaging devices

Judy Hoyt , Massachusetts Institute of Technology, Cambridge , MA , USA
for contributions to silicon-based heterostructure devices and technology

Eishi Ibe , Hitachi Ltd., Yokohama , Kanagawa, Japan
for contributions to neutron-induced soft-error analysis for semiconductor memory devices

Ming-Dou Ker , National Chiao Tung University, Hsinchu , Taiwan
for contributions to electrostatic protection in integrated circuits, and performance optimization of VLSI micro-systems

Rakesh Kumar , Technology Connexions, Inc., Poway , CA , USA
for entrepreneurial leadership in the field of integrated circuits

Sani Nassif , IBM, Austin , TX, USA
for contributions to semiconductor manufacturing processes

Susumu Noda , Kyoto University, Kyoto , Japan
for contributions to photonic crystals and nanophotonics

Donggun Park , Samsung Electronics, Yongin , Gyeonggi-Do, Korea
for contributions to nano-scale CMOS development for memories

Massimo Rudan , University of Bologna, Bologna , Italy
for contributions to theory and modeling of current transport in semiconductor devices

David Shaver , MIT Lincoln Laboratory, Lexington , MA , USA
for leadership in semiconductor microlithography and microfabrication technology

Jyuo-Min Shyu , Industrial Technology Research Institute (ITRI), Hsinchu , Taiwan
for leadership in the microelectronics industry

Michael Simpson , University of Tennessee, Oak Ridge , TN , USA
for contributions to nanotechnology in engineered devices and biology

Gregory Timp , University of Illinois at Urbana-Champaign, Urbana , IL , USA
for contributions to the design, fabrication and characterization of nanometer-scale transistors

Hsing-Huang Tseng , SEMATECH, Austin , TX, USA
for contributions to CMOS ultra-thin gate stack technology

Daisuke Ueda , Matsushita Electric Industrial Co. Ltd., Osaka , Japan
for contributions to power-saving semiconductor devices and circuits

Kit Lai Paul Yu , University of California, San Diego, La Jolla , CA, USA
for contributions to semiconductor waveguide modulators and detectors

Bin Zhao , Freescale Semiconductor, Irvine , CA, USA
for contributions to interconnect technology for integrated circuits