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## *Faculty and Student Awards and Activities*

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### **2003**

- N. Behdad and K. Sarabandi won the First Place Paper award, “A Novel Approach for Bandwidth Enhancement of Slot Antennas,” Antenna Applications Symposium, Robert Allen Park, Monticello, IL, September 2003.
- R. B. Brown served as Interim Chair, Department of Electrical Engineering and Computer Science from July 2001 through June 2003.
- Y. B. Gianchandani served as Co-Chair, IEEE/ASME International MEMS Conference Steering Committee.
- M. Levy was Co-Organizer of the Spring 2003 Materials Research Society Symposium on Hybrid Integration.
- M. Levy received Michigan Tech 2003 Graduate Faculty Mentoring Award.
- M. Liu received the University of Michigan Elizabeth C. Crosby Award for Women in Science and Engineering, July 2003.
- M. Liu received the NSF CAREER Award for her proposal entitled, “Capacity-Driven Design of Large-Scale Wireless Sensor Networks,” August 2003.
- M. McCorquodale received the 2003 College of Engineering Harry Benford Award for Entrepreneurial Leadership.
- M. McCorquodale was the Grand Champion and won Best Pitch, University of San Francisco International Business Plan Competition, San Francisco, CA.
- C. T.-C. Nguyen and Yuan Xie received the Roger A. Haken Best Student Paper Award for the paper titled, “UHF Micromechanical Extensional Wine-Glass Mode Ring Resonators,” 2003 IEEE International Electron Devices Meeting.
- C. T.-C. Nguyen chaired the Sub-Committee on Displays, Sensors, and MEMS, 2003 IEEE International Electron Devices Meeting.
- R. Senger, E. D. Marsman, M. S. McCorquodale, F. H. Gebara, K. L. Kraver, M. Guthaus, and R. B. Brown took 1st Place in the Conceptual Category at the Design Automation Conference/IEEE Solid-State Circuits Society Student Design Contest for their paper, “A 16-Bit Mixed-Signal Microsystem With Integrated CMOS-MEMS Clock Reference.”
- J. Sivagnaname and R. Rao took 1st Prize for their entry, “Dual Issue Power-PC FXU Processor,” at the 16th International Conference on VLSI Design, New Delhi, India.
- D. Sylvester received the Ruth and Joel Spira Outstanding Teaching Award, U-M College of Engineering, 2003.
- D. Sylvester served as General Chair, ACM/IEEE International Workshop on System-Level Interconnect Prediction (SLIP), 2003.

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- D. Sylvester served as a member of the U. S. Design Technology Working Group (TWG) for the International Technology Roadmap for Semiconductors (ITRS), 2001–2003.
- D. Sylvester was awarded the Association for Computing Machinery (ACM) Special Interest Group on Design Automation (SIGDA) Outstanding New Faculty Award, 2003.
- K. D. Wise served as a member of the NAE-IOM Committee on Engineering and the Health Care System.
- K. D. Wise served as a member of the study team “Engineering the Health Care System” sponsored by the National Academy of Engineering.
- J. Zheng was awarded the 2003 Matt Wolfe Award as the Outstanding Graduate Research Assistant in Electrical Engineering at Michigan Technological University.

## 2004

- H. K. L. Chan received the Distinguished Leadership Award from the University of Michigan College of Engineering.
- M. Flynn was the recipient of the NSF Early Career Award.
- S. Hanson received the Henry Ford II Outstanding Junior Prize, University of Michigan College of Engineering, 2004.
- S. Hanson was awarded the American Vacuum Society Undergraduate Research Award, 2004.
- The Integrated Microsystems Enterprise Team received the First Place Award for their Poster Presentation, Michigan Technological University Undergraduate Expo 2004, Houghton, MI, April 2004.
- D. Kipke was elected as a Fellow in the American Institute for Medical and Biological Engineering.
- M. Levy was Co-Organizer of the Fall 2004 Materials Research Society Symposium on Magneto-Optical Materials for Photonics and Recording.
- M. Liu was the Technical Program Co-Chair of the 2nd International Workshop on Wireless and Wired Internet Communications (WWIC), February 2004.
- M. Liu’s student Navid Ehsan won the Distinguished Achievement Award, CoE, University of Michigan, 2004.
- K. Najafi was a member of the Technical Program Committee, *International Symposium on Low-Power Electronics & Devices (ISLPED)*, 2001, 2002, 2003, and 2004.
- K. Najafi concluded his service as Associate Editor, *IEEE J. Solid-State Circuits*, May 2000–February 2004.

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- K. Najafi received the Outstanding Faculty Achievement Award, EECS Department, University of Michigan, 2003–2004.
  - C. T.-C. Nguyen received the Best DARPA Tech Speech Award for his speech titled, “Micro-Electro-Mechanical Systems: Scaling Beyond the Electrical Domain.”
  - C. T.-C. Nguyen and student S. Lee received the Best Student Frequency Control Paper Award for the paper titled, “Mechanically-Coupled Micromechanical Arrays for Improved Phase Noise,” 2004 IEEE Ultrasonics, Ferroelectrics, and Frequency Control Symposium, Montreal, Canada.
  - K. Sarabandi was awarded the College of Engineering Research Excellence Award, University of Michigan, March 2004.
  - A. M. Sastry was elected Fellow of the ASME, 2004.
  - A. M. Sastry received University of Delaware’s Presidential Citation for Outstanding Achievement, 2004.
  - D. Sylvester received the 1938E Award, U-M College of Engineering, given for outstanding teaching, counseling, and scholarly integrity, 2004.
  - D. Sylvester served as Technical Program Committee Co-Chair, ACM/IEEE International Workshop on Timing Issues in the Specification and Synthesis of Digital Systems (TAU), 2004.
  - D. Sylvester served as guest Co-Editor, IEEE Transactions on VLSI Systems, special issue on System-Level Interconnect Prediction, October 2004.
  - D. Sylvester received the IBM Faculty Award, IBM Austin Center for Advanced Studies, 2004.
  - K. D. Wise, K. Najafi, R. D. Sacks, and E. T. Zellers presented an invited paper on “A Wireless Integrated MicroSystem for Environmental Monitoring” at the IEEE Solid-State Circuits Conference in San Francisco, CA.
  - E. T. Zellers delivered an Invited Plenary Presentation at the 2004 Solid-State Sensors and Actuators Workshop, Hilton Head, SC, June 2004.

## 2005

- P. L. Bergstrom delivered an Invited Presentation entitled, “Technologies for Chemical Sensing Microsystems,” presented to the DRDO Indian Centre for Fire, Explosive, and Environment Safety, New Delhi, India, December 2005.
- P. L. Bergstrom and J. C. Kapoor delivered an Invited Talk entitled, “Engineering Concepts and Integrated Microsystems,” presented at the D.A.V. Public School, Village of Barara, Haryana, India, December 2005.
- P. Bergstrom and C. Friedrich led a Summer Youth Program entitled “Microsystems Technologies,” a five-day, hands-on course for six Native American precollege students, July 2005.

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- Y. Gianchandani received the University of Michigan, EECS Department, Outstanding Achievement Award, 2004–2005.
- S. Hanson received the Semiconductor Research Corporation Graduate Fellowship, 2005–2010.
- M. D. Hsieh and M. Huang received the Best Student Poster, Industrial Hygiene Conference and Exposition, New Orleans, LA.
- P. S. K. Karre was awarded the Michigan Tech. ECE Department Matt Wolfe Award for Excellence in Graduate Research in 2005.
- D. Kipke received the Department Achievement Award, Department of Biomedical Engineering, University of Michigan, 2005.
- M. Liu's student Nicholas Chang won the MIT Lincoln Lab Fellowship Award, July 2005.
- J. Lynch received the 2005 Young Investigator Award from the Office of Naval Research for a research project pertaining to wireless sensor networks for real-time control on naval ships.
- A. Mason was the 2005 Recipient of the University Teacher-Scholar Award at Michigan State.
- K. Najafi received the Distinguished Faculty Achievement Award, University of Michigan, for exceptional contributions in scholarship, teaching mentorship, and service, 2005.
- K. Najafi was elected Fellow of the American Institute for Medical and Biological Engineering (AIMBE), January 2005.
- C. T.-C. Nguyen received the 2004 IEEE Custom Integrated Circuits Conference Best Invited Paper Award for the paper titled, "Vibrating RF MEMS for Next Generation Wireless Applications." Award received at the 2005 IEEE Custom Integrated Circuits Conference.
- C. T.-C. Nguyen and John Kitching received 2005 IEEE International Solid-State Circuits Conference Jack Raper Award for Outstanding Technology-Directions for the paper titled, "Towards Chip-Scale Atomic Clocks," May 2005.
- C. T.-C. Nguyen was awarded the 2005 IEEE International Solid-State Circuits Conference Outstanding Panel Award for participation on the panel entitled, "RF MEMS: Fact or Fiction?" February 2005.
- K. Sarabandi received the University of Michigan Faculty Recognition Award, "For Outstanding Contributions as a Teacher, Scholar, and Member of the University Community," October 2005.
- K. Sarabandi received the Distinguished Achievement Award, IEEE Geoscience and Remote Sensing Society, "For Outstanding Research in Advancement of Theoretical and Experimental Radar Remote Sensing," July 2005.

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- A. M. Sastry received the University of Michigan 2004–2005 Faculty Recognition Award.
- D. Sylvester served as General Chair, ACM/IEEE International Workshop on Timing Issues in the Specification and Synthesis of Digital Systems (TAU), 2005.
- J. Wang, working with K. D. Wise, received the 2005 Roger A. Haken Best Student Paper Award from the *IEEE International Electron Devices Meeting*.
- K. D. Wise received the Michigan Emerging Industry Pioneer Award, “In Recognition of Outstanding Leadership to the MEMS, MicroSystems, and Nano Technology Community.”
- K. D. Wise and M. M. Maharbiz organized and chaired a workshop sponsored by the National Science Foundation on the subject, “Challenges and Opportunities in Integrative Complex Systems Engineering.” The workshop was held in Arlington, VA.
- E. T. Zellers delivered an Invited, Plenary Presentation titled, “Au-Thiolate Nanoparticles as Interfacial Layers on Microsensor Arrays for Micro Gas Chromatography,” at Eurosensors XIX, Barcelona, Spain, September 2005.

## 2006

- D. Aslam received an Excellence in Service Award for chairing the poster session during the 2006 Nanomedicine Conference hosted by Michigan State University in April 2006.
- P. L. Bergstrom was presented the IEEE Certificate of Service award on April 2006 by the IEEE Michigan Technological University Chapter.
- R. T. Borno received a Ph.D. Fellowship Award from the Intel Foundation.
- H. Deogun received the 2006 Best Paper Award from the IEEE International Symposium on Quality Electronic Design.
- M. Flynn received the University of Michigan Faculty Achievement Award from the Department of Electrical Engineering and Computer Science.
- T. Galchev received the University of Michigan Excellence in Engineering Fellowship, sponsored by Sandia National Laboratories.
- M. Griep was awarded a three-year NSF Graduate Research Fellowship for research on protein-based toxin nanosensors.
- P. S. K. Karre was awarded second place for technical content in the Michigan Tech. Graduate Student Council Poster Session Competition in 2006.
- M. Maharbiz was elected Vice-President of Technical Operations for the IEEE Sensor Council.

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- M. Maharbiz was elected President of the University of Michigan Latino Faculty-Staff Association (LFSA) at the University of Michigan.
- E. Marsman, R. Senger, and R. Brown received 2nd Place in the Operational Category at the Design Automation Conference/IEEE Solid-State Circuits Society Student Design Contest for their paper, “A DSP Enabled Microsystem for Cochlear Implants With Hybrid LC Clocking,” in June 2006.
- A. Mason (with P. Zhong and students) received 3rd Prize in Phases I and II of the SRC/SIA System-on-Chip Design Challenge for their project, “Adaptive Sensor Network Platform Chip.”
- J. Mitchell, T. Fry, A. Rao, and S. Lee, received a “Dare to Dream Assessment Grant” to evaluate the potential of a MEMS-Based Packaging Foundry from the Zell Lurie Institute in the Ross School of Business, University of Michigan.
- K. Najafi was appointed the Schlumberger Professor of Engineering, College of Engineering, University of Michigan, March 2006.
- K. Najafi served as member of the Executive Committee, National Nanotechnology Infrastructure Network 2004–2006.
- K. Najafi was Editor of *IEEE Transaction on Electron Devices*, March 1996–November 2006.
- C. T.-C. Nguyen advanced to IEEE Fellow for “Contributions to Physics and Technology of Micromechanical Systems.”
- C. T.-C. Nguyen received the 2006 Cady Award for “Pioneering Research, Development, and Commercialization of Timing and Frequency Control Devices Based on Vibrating RF MEMS Technology.”
- J. Pernillo received an Intel Ph.D. Fellowship.
- M. Pinelis received an NIH Cellular Biotechnology Training Program Grant.
- M. Seok received a Fellowship for the Korea Foundation for Advanced Studies, 2005–2007.
- D. Sylvester received the Vulcans Education Excellence Award from the University of Michigan College of Engineering, 2005–2006.
- D. Sylvester was awarded the 2006 Henry Russel Award, University of Michigan, given in recognition of distinguished scholarship and conspicuous ability as a teacher.
- R. Vanga received second place in the MTU student poster session for his poster “Ferroelectric Film-Based High-Efficiency Microvalves and Microsensors.”
- J. Wang received the 2005 Roger A. Haken Best Student Paper Award from the IEEE International Electron Devices Meeting.

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- R. Warrington, P. Bergstrom, and C. Friedrich were leaders for a Summer Teacher Workshop Program entitled “Engineering Enterprise,” exploring the introduction of engineering concepts in precollege instruction through the structure of an engineering business from within the framework of the school and university for high school and junior high school teachers from Michigan, July 2006 and October 2006.
- K. D. Wise was named an Outstanding Electrical and Computer Engineer by Purdue University, West Lafayette, IN.
- K. D. Wise was named to the 2007 Henry Russel Lectureship at University of Michigan. This is the highest honor given to a senior faculty member by the University.
- K. D. Wise presented the Plenary Keynote Talk, “Wireless Integrated Microsystems: Coming Breakthroughs in Healthcare,” at the IEEE International Electron Devices Meeting in San Francisco, CA.
- E. T. Zellers was appointed to the North American Technical Program Committee for Transducers 2007.
- E. T. Zellers delivered an Invited Presentation entitled, “The Microfabricated Gas Chromatograph: State-of-the-Art Review and Implications for Occupational Health,” presented at the Professional Conference on Industrial Hygiene, San Jose, CA, September 2006.
- E. T. Zellers delivered an Invited Presentation entitled, “Richard Sacks and the Path to a Micro-GC,” Symposium honoring Richard D. Sacks at the 33rd Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) Meeting, Lake Buena Vista, FL, September 2006.
- Q. Zhong received 2nd Place for the poster, “A Field-Portable GC With Multi-Stage Preconcentration, Dual-Column Separation, and Chemiresistor-Array Detection for VOC Analysis,” with co-authors: W. H. Steinecker, R. Veeneman, and E. T. Zellers, at the 33rd Federation of Analytical Chemistry and Spectroscopy Societies (FACSS) Meeting, Lake Buena Vista, FL, September 2006.

## 2007

- P. L. Bergstrom led the Integrated Microsystems Enterprise student team at the Michigan Technological University-sponsored Youth Engineering and Science (YES!) Exposition 2007 (<http://www.yes.mtu.edu/>). The team demonstrated the Data Acquisition Cube hardware and software platform for precollege science and engineering visualization to the estimated 20,000 precollege students present at the event in November 2007.

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- P. L. Bergstrom was invited to chair Session 3: Nanoengineering at the First Michigan Alliance in Nano Science & Engineering (MANSE'07), Oakland University, Rochester, MI, May 2007.
- D. Blauuw received the Best Paper Nomination, "Energy Efficient Near-Threshold Chip Multi-Processing," ACM/IEEE International Symposium on Low-Power Electronics and Design (ISLPED), August 2007.
- M. P. Flynn received the Guggenheim Fellowship for work on "The Fundamental Limits of Analog-to-Digital Conversions."
- M. P. Flynn was named Associate Editor for *Journal of Solid-State Circuits*.
- P. S. K. Karre was awarded the Charles L. Lawton Endowed Fellowship in 2007.
- K. Kurabayashi was named Outstanding Professor by the National Mechanical Engineering Honor Society, Pi Tau Sigma, Michigan Pi Roh Chapter.
- M. Levy received Michigan Tech 2007 Outstanding Research Award.
- S. Mahlke received the Young Alumni Award from the Electrical and Computer Engineering Department at the University of Illinois for his contributions in compilers and instruction-level parallelism.
- P. Obiomon received the Teacher of the Year Award for the College of Engineering at Prairie View A&M University.
- J. Pernillo received the Intel Foundation Fellowship.
- R. Rajiv and S. Mahlke received the Best Paper Award at MICRO 40.
- M. P. Rowe, R. A. Veeneman, S. Reidy, P. Quinn, C. W. Avery, W. H. Steinecker, C. Kurdak, and E. T. Zellers, "Thiolate-Monolayer-Protected Gold Nanoparticles as Interfaces for Single- and Multi-Transducer Arrays," Gordon Research Conference, Salve Regina University, Newport, RI, July – August 2007, (Poster awarded 3rd Place).
- S. Wright received the Lincoln Labs Graduate Student award.
- E. T. Zellers served on the North American Technical Program Committee for Transducers '07.