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Three Chosen for COE Outstanding Faculty Awards

The College of Engineering has chosen Professor Sandip Kundu of the Electrical and Computer Engineering Department to receive its 2012 Outstanding Senior Faculty Award and Assistant Professor Jenna Marquard of the Mechanical and Industrial Engineering Department to receive its 2012 Barbara H. and Joseph I. Goldstein Outstanding Junior Faculty Award. Associate Professor James Rinderle of the Mechanical and Industrial Engineering Department was previously selected to receive the 2012 Outstanding Teaching Award.



Dr. Kundu is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), a Fellow of the Japan Society for the Promotion of Science (JSPS), and a Distinguished Visitor of the IEEE Computer Society (2006). He has won numerous best paper awards in the areas of VLSI Circuit Design, Computer Aided Design, and VLSI Testing. He is the holder of 12 issued U.S. patents. He has been an associate editor of many prestigious journals, including the IEEE Transactions on Computers and the IEEE Transactions on VLSI. Currently, he serves as an associate editor of the ACM Transactions on Design Automation of Electronic Systems. Recently, along with his Ph.D. student Aswin Sreedhar, Dr. Kundu published a groundbreaking book with McGraw Hill entitled Nanoscale CMOS VLSI Circuits: Design for Manufacturability. Previously, he earned his B.S. degree from the Indian Institute of Technology in 1984 and his Ph.D. from the University of Iowa in 1988.



Dr. Marquard was recently the recipient of a prestigious \$400,000 National Science Foundation Faculty Early Career Development (CAREER) grant for a research project entitled "Computational Approaches to Model Physicians' and Patients' Interactions with Health Information Technology." Specifically, her project will focus on designing information technology that improves the health outcomes of, and costs of caring for, patients with diabetes and high blood pressure. She is also a key researcher in an almost \$2-million project – supported by the Agency for Healthcare Research and Quality and carried out by the UMass Medical School, the UMass Amherst College of Engineering, and Reliant Medical Group in Central Massachusetts – to develop and evaluate the clinical effectiveness of low-cost technology that allows diabetics to test their blood pressure at home and then send those readings electronically and automatically to nurses. Dr. Marquard earned her B.S. from the University of Iowa, and her M.S. and Ph.D. from the University of Wisconsin-Madison.

Dr. Rinderle, who earned his B.S., M.S., and Ph.D. from the Massachusetts Institute of Technology, has served as the MIE department's Undergraduate Program Director since 2001, its Department Honors Coordinator since 2001, the Associate Department Head for the last four years, and a member of the Commonwealth College Curriculum Committee for five years. As Professor Rinderle has written about his teaching method, "Beyond knowledge, concepts, and methods, we teach how to think and reason." How well does this method translate to his coursework? Student comments speak for themselves. As one of his students noted, "He is particularly adept at explaining complex concepts in a comprehensible manner." Another student said that Professor Rinderle is really amazing "when it comes to describing complicated things with diagrams and charts. Every homework assignment was literally a work of art." One other student summed it all up by noting that Dr. Rinderle teaches students "to begin thinking

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