

WARREN SEERING

*WEBER/SHAUGHNESS PROFESSOR OF MECHANICAL ENGINEERING
AND ENGINEERING SYSTEMS*

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Professor Warren Seering is the Weber/Shaugness Professor of Mechanical Engineering and Engineering Systems at the Massachusetts Institute of Technology. Professor Seering earned his B.S. and S.M. degrees in Mechanical Engineering from the University of Missouri and his Ph.D. degree in Mechanical Engineering from Stanford University. He joined the MIT faculty in 1978. His work at MIT has focused on product design and development, dynamic systems, robotics, and the role of computation in machine performance. He has taught courses in design, product development, applied mechanics, system dynamics, and computer programming and numerical methods. He is a Registered Professional Engineer in the State of Massachusetts.

Professor Seering's research interests are in the areas of machine dynamics, engineering system design, and product development. In 1980 he helped to establish the MIT Machine Dynamics Laboratory, a facility configured to support research in the areas of dynamics, vibrations, controls, and system performance. From 1982 till 1994 he was a member of the MIT Artificial Intelligence Laboratory where he conducted research on robot performance and structured methods for design. From 1996 to 2000, Professor Seering served as Director of the Center for Innovation in Product Development at MIT, an NSF Engineering Research Center that he cofounded. Members of the Center have conducted research on product development practices in collaboration with employees of cooperating companies. His current research addresses methods for evaluating and improving corporate product development capabilities.

In 1982 Professor Seering received the Ralph R. Teetor Educational Award from the Society of Automotive Engineers for his efforts in educational development. In 1983, he received the Harold E. Edgerton Award, given annually to a young member of the MIT faculty for distinction in teaching, research and scholarship. Along with his students, he has earned numerous awards for design projects. In 1985 he received a special commendation from the Trustees of the Lincoln Arc Welding Foundation for his contributions to design education. In 1993 Professor Seering became a Fellow of the American Society of Mechanical Engineers. In 1996 he was named to the Weber-Shaugness Faculty Chair in the School of Engineering at MIT.

In 2007 Professor Seering received the Frank E. Perkins Award, given annually to an MIT faculty member for excellence in the supervision of graduate students. He has supervised more than 75 Masters Degree Candidates at MIT and has guided more than 80 Ph.D. candidates either as research supervisor or as research committee member.

In 2000 Professor Seering accepted a joint appointment in the MIT Engineering Systems Division. In 2001 he was chosen to represent the United States on the Board of Management of the International Design Society. He served as Head of the Society's Advisory Board from 2007 to 2013. In 2010 he was named engineering co-director of MIT's masters degree program in engineering management, the System Design and Management Program. The SDM Program offers masters degrees in engineering and management both on campus and at company sites to mid-career engineers and technical managers.

Professor Seering is a member of Tau Beta Pi and Pi Tau Sigma. He has held visiting appointments at Cambridge University, Cal Tech, The University of California at Irvine, The University of California at Berkeley and Harvard University. From 1991 to 2001 he served as Guiding Professor for the Cambridge Basic Research Laboratory, an independent laboratory that he helped to organize in collaboration with the Nissan Motor Company to study the visual and cognitive processes associated with driving. He has been a consultant to numerous companies on questions concerning design, robotics, and automation. He is a member of the American Society of Mechanical Engineers and the Design Society, and is on the editorial boards of *The International Journal of Robotics and Computer-Integrated Manufacturing*; *The Journal of Artificial Intelligence for Engineering Design, Analysis and Manufacturing*; *Research in Engineering Design*; *IEEE Transactions on Automation Science and Engineering*; and *Design Studies*.