

# MIT MECH E

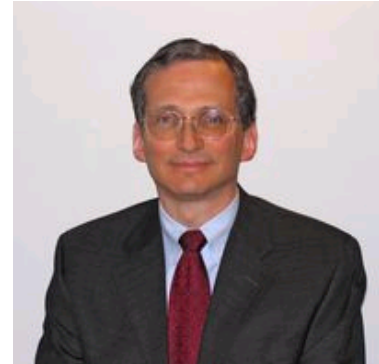
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## Richard M Wiesman

*Professor of the Practice*

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### Education

S.B. in Mechanical Engineering, Massachusetts Institute of Technology, 1976  
S.M. in Mechanical Engineering, Massachusetts Institute of Technology, 1976  
Ph.D. in Mechanical Engineering, Minor in Management, Massachusetts Institute of Technology, 1983

### Principal Fields of Interest

Design, Dynamic Systems and Control, Robotics, Product Design and Engineering Management

### MIT Service

Research Assistant - Department of Mechanical Engineering, 1975 to 1979  
Lecturer, Sept. 1981 to May 1982  
Visiting Lecturer, Sept. 2005 to 2007  
Professor of the Practice - Department of Mechanical Engineering, 2007 to present

### Employment and Professional Experience

Independent Consulting Engineer, Watertown, Massachusetts, 1979 to 1983  
Senior Engineer, Foster-Miller, Inc., 1983 to 1985  
Division Manager, Foster-Miller, Inc., Engineering Design Group, 1985 to 1990  
Manager of Engineering, Foster-Miller, Inc., Design and Systems Integration Group. 1990 to 1996  
Director, GridCom International, Incorporated, Oakland, California, 1996 to present  
Vice President and Group Director, Foster-Miller, Inc., Electrical and Electronic Systems Group, 1996 to 2002  
Senior Vice President, Foster-Miller, Inc., Electrical and Electronic Systems Group, 2002 to 2003  
Executive Vice President and Chief Technology Officer - QinetiQ North America - Technology Solutions Group (Foster-Miller, Incorporated prior to November 2004), 2003 to present

### Patents

Cornering Pipe Traveler, Wiesman, et al, US Patent No 5,172,639, December 22, 1992  
Self-Powered Powerline Sensor, Wiesman, et al, US Patent No 5,892,430, April 6, 1999

### **Selected Publications**

1. "The Potential for Resource Recovery from Demolition Wastes," M.S. Thesis: Massachusetts Institute of Technology, 1976.
2. "An Investigation of the Potential for Resource Recovery from Demolition Wastes," with D.G. Wilson, Massachusetts Institute of Technology, Prepared under grant number AEN 75-14197, National Science Foundation - Research Applied to National Needs, October 1976.
3. "On Increasing the Range of Electric Wheelchairs," with W. Flowers and D. Jansson, Massachusetts Institute of Technology, Report to the Veterans Administration, 1977.
4. "Experimental and Analytical Characteristics of Linear Induction Motors for Transportation," Ph.D Thesis, Massachusetts Institute of Technology, 1982.
5. "Remotely Actuated Mobile Platform for Render Safe or Disposal," Foster-Miller, Inc., March 30, 1987.
6. "The Magnetic and Structural Design of a Liquid Hydrogen-Cooled Magnet Utilizing High-Purity Aluminum Conductors and a Boron/Epoxy Composite as Structural Reinforcement," with D.B. Cope and M.D. Snyder, Presented at the CEC/ICMC Conference at UCLA, July 24-28, 1989.
7. "High Strength Electrical Insulation Composites," with T. Fischer and R. Haghghat, Foster-Miller, Inc.
8. "Multichip Interconnect Substrate," with J. Burnett and K. Pasch, Foster-Miller, April 1990.
9. "GRI's Internal Inspection System for Gas Distribution Mains," American Gas Association, 1991 Operating Section Proceedings.
10. "High Strength Electrical Insulation Composites," with C. Carey, J. Gassner, M. Snyder, J. Larouco, and G. Testa, Report to Defense Nuclear Agency, Foster-Miller, Inc., October 1992.
11. "GRI's Internal Inspection System for Piping Networks," Proceedings, 40th Conference on Remote Systems Technology, 1992, Volume 2, American Nuclear Society.
12. "Internal Inspection Systems for Piping Networks," with R.R. Olander, Presented at First International Symposium on Process Industry Piping, Materials Technology Institute of the Chemical Process Industries, Inc., NACE International, December 14-17, 1993.
13. "Investigation of Local Commutation as Applied to Linear Synchronous Motors for Use as a Maglev Propulsion System," with R. Fontana, B. Gamble, D. Cope, T. Mason and G. Bastarache, Draft Report submitted to FRA, 1994.
14. "Design and Demonstration of a Locally Commutated Linear Synchronous Motor," with R. Fontana, D. Cope and B. Gamble, Future Transportation Technology Conference and Exposition, SAE International, August 7-10, 1995; SAE Technical Paper Series, No. 951919.
15. "Material Handling Robot for Flow Through Storage Applications," with B. Candiloro, J. Dill, J. Downer, L. Fallin, and R. Smith, Mobile Robotics XIII, part of SPIE's Symposium on Intelligent Systems and Advanced Manufacturing, SPIE, The International Society for Optical Engineering, November 2-5, 1998.
16. "SCADA Applications for Power Distribution Systems; Intelligent, Distributed Sensor Networks," with A. Coolidge, Mitigation of Earthquake Disaster by Advanced Technologies (MEDAT-1), Sponsored by: MCEER, NSF, and I3R3CIS, March 2-3, 2000.

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