

Dr. Mark Polczynski - Full resume on-line at: www.technologyforge.net/MHPCV

Professional Preparation

Marquette University	Electrical Engineering	B.S. 1972
Marquette University	Electrical Engineering	Ph.D. 1978

Appointments – 1990 to present

Jan. 2005 - Present	Engineering Director of the MS Engineering Management Program, College of Engineering, Marquette University
2003-2005	Technology Consultant to the Vice President of Engineering and Chief Technology Officer, Eaton Corporation
2000-2002	Director of Advanced Technology Development, Eaton Corporation, Research and Development Center
1990-1999	Materials Technology Research and Development Manager, Eaton Corporation Research and Development Center

Publications Closely Related to the Project (limit of 5)

1. Polczynski, M., Kochanski, A., "[Knowledge Discovery and Analysis in Manufacturing](#)", Quality Engineering, accepted for publication.
2. Polczynski, M., "[The Impact of Technology and Globalization on the Engineering Profession and Education](#)", ASEE NMS Conference, Milwaukee, WI, October 8-10, 2009.
3. Polczynski, M., "[Development Process for a Virtual Learning and Teaming Environment](#)", ASEE NMS Conference, Milwaukee, WI, October 8-10, 2009
4. Polczynski, M., "[An International Engineering Research and Exchange Initiative](#)", 36th Annual ASEE/IEEE Frontiers in Education Conference, San Diego, CA, October 28-31, 2006.
5. Polczynski, M., "[Expanding Extracurricular Learning Opportunities Through International Engineering Student and Faculty Exchange](#)", Proceedings of the Tenth Annual Conference of the National Collegiate Inventors and Innovators Alliance, Portland Or, March 23-25, 2006.

Other Significant Publications (limit of 5)

1. Borkowski, P., Sowinski, T., Kwiatkowski, K., Skalski, K., Zabicka, M., Polczynski, M., "[Geometrical Modeling of Knee Joint Including Anatomic Properties](#)", International Conference on Biomechanics, Zakopane, Poland, Sept. 6-8, 2006.
2. U.S. Patent [6,380,746](#), R. Bauer, R. Hirthe, M. Polczynski, P. Rops, M. Seitz, "Monitoring fluid condition with a spiral electrode configuration", April 30, 2002.
3. U.S. Patent [6,377,052](#), F. Edrozo, R. Hirthe, P. McGinnis, M. Polczynski, P. Rops, S. Schachameyer, "Monitoring fluid condition through an aperture", April 23, 2002.
4. U.S. Patent [6,278,281](#), "Fluid Condition Monitor", R. Bauer, J. Hansen, R. Hirthe, M. Polczynski, M. Seitz, August 21, 2001.
5. Polczynski, M., S. Jaskolski "[Entrepreneurial Engineering Education](#)", Proceedings of Ninth Annual Conference of the National Collegiate Inventors and Innovators Alliance, San Diego, CA, March 17-19, 2005.

Synergistic Activities

- Organizer of the Knowledge Discovery and Analysis Consortium – www.technologyforge.net/KDAM .
- Teaches summer courses regularly at Warsaw University of Technology – <http://eng.pw.edu.pl/>.
- Advising Chief Technology Officer, Paradigm Sensors – www.paradigmsensors.com.
- Developing on-line courses for MS – Engineering Management program at Marquette University – www.mu.edu/msenma

Collaborators and Other Affiliations

Collaborators and Co-Editors

- Dr. Marcin Perzyk, Warsaw University of Technology
- Dr. Andrzej Kochanski, Warsaw University of Technology
- Dr. Stanislaw Strzelczak, Warsaw University of Technology
- Dr. Konstanty Skalski, Warsaw University of Technology
- Dr. Marek Pawlikowski, Warsaw University of Technology
- Dr. Marco Garetti, Politecnico di Milano
- Dr. Zbigniew Czajkiewicz, University of Houston – Clear Lake
- Dr. Andrzej Sobczak, Crakow University of Technology
- Dr. Janusz Pobedza, Crakow University of Technology
- Dr. Marek Sowinski, Poznan University of Technology
- Dr. Irena Chmielewska, Poznan University of Technology

PhD Committees

- The in-situ characterization of a transesterification reaction using electrical impedance spectroscopy, Cho, Sungjin. Proquest Dissertations And Theses, section 0116, part 0544; Marquette University; 2009. Publication Number: AAT 3357944.
- The effect of doping on luminescent properties of cadmium tungstate, Orlow, Waldemar, Proquest Dissertations and Theses, section 0116, part 0346; Marquette University; 2004. Publication Number: AAT 3123978.
- Study of ion exchange media with impedance spectroscopy, Eidler, Phillip Alan, Proquest Dissertations and Theses, section 0116, part 0544 118; Marquette University; 2001. Publication Number: AAT 3028647.
- The characterization of lubricating fluids using AC impedance spectroscopy, Hu, Jianxun, Proquest Dissertations and Theses, section 0116, part 0794 172; Marquette University; 2001. Publication Number: AAT 3133744.
- Electrical characterization of flux/substrate interface, Amin, Mohammad Nurul, Proquest Dissertations and Theses, section 0116, part 0544 161; Marquette University; 1997. Publication Number: AAT 9823975.
- The evaluation of solder paste characteristics using AC impedance spectroscopy, Hirthe, Richard Walter, Proquest Dissertations and Theses, section 0116, part 0794; 1997. Publication Number: AAT 9823980.