

PUBLICATIONS AND PRESENTATIONS

Refereed Journals

- J25. **Mears, L.**, Mehta, P., Kuttolamadom, M., Montes, C., Jones, J., Salandro, W., Werner, A. (2011), "Manufacturing Process Modeling and Application to Intelligent Control," *Journal of the South Carolina Academy of Science, Governor's special issue* (accepted).
- J24. Dubey, M., **Mears, L.**, Cannon, A., Hulseman, R. (2011), "Effect of Various Molding Parameters on Injection Molding of Surface Microfeatures for Functional Control," *ASPE Precision Engineering* (in preparation)
- J23. Kuttolamadom, M., **Mears, L.**, Kurfess, T.R. (2011), "On the Volumetric Assessment of Tool Wear in Machining Inserts with Complex Geometries - Part 2: Experimental Investigation & Validation on Ti-6Al-4V," *ASME Journal of Manufacturing Science and Engineering* (submitted)
- J22. Kuttolamadom, M., **Mears, L.**, Kurfess, T.R. (2011), "On the Volumetric Assessment of Tool Wear in Machining Inserts with Complex Geometries - Part 1: Need, Methodology & Standardization," *ASME Journal of Manufacturing Science and Engineering* (submitted)
- J21. Salandro, W., Bunget, C., **Mears, L.** (2011), "A Thermal-Based Approach for Determining Electroplastic Characteristics," *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture* (submitted, first review complete).
- J20. Bunget, C., Salandro, W., **Mears, L.** (2011), "Several Factors Affecting the Electroplastic Effect During an Electrically-Assisted Forming Process," *ASME Journal of Manufacturing Science and Engineering Special Issue on Forming Technologies* (accepted).
- J19. Salandro, W., Bunget, C., **Mears, L.** (2011), "Electroplastic Modeling of Bending Stainless Steel Sheet Metal Using Energy Methods," *ASME Journal of Manufacturing Science and Engineering*, **133(4)**. doi: <http://dx.doi.org/10.1115/1.4004589>
- J18. Bunget, C., Salandro, W., **Mears, L.** (2011), "Evaluation of Lubricants for Electrically-Assisted forming," *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, doi: 10.1177/0954405411401267.
- J17. Martens, T., **Mears, L.**, Dotson, M., Sanger, P., Graham, M. (2010), "Use of Fused Deposition Modeling of Polyphenylsulfone for Centrifugal Casting of Polyurethane: Material, Surface and Process Considerations," *ASME Journal of Manufacturing Science and Engineering*, **133(5)**, p. 051003, doi:10.1115/1.4004848.

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- J16. Kuttolamadom, M., Hamzehlouia, S., **Mears, L.** (2010), "Effect of Machining Feed on Surface Roughness in Cutting 6061 Aluminum," *SAE International Journal of Materials Manufacturing*, **3(1)**: 108-119.
- J15. McDonnell, D., Mayorga, M., Benson, L., **Mears, L.** (2010), "Stepping out of Academics: The effect of Authentic Learning Experiences on Attitudes of Industrial Engineering Students," *Journal of Applications and Practices in Engineering Education*, **1(2)**: 79-98.
- J14. Salandro, W.A., McNeal, T.A., **Mears, L.**, Roth, J.T. (2010), "Mechanical and Microstructural Effects Caused During Uniaxial Electrically-Assisted Manufacturing Tensile Deformation of MgAZ31B-O Sheet Metal," *ASME Journal of Engineering Materials and Technology* (accepted).
- J13. Bunget, C., Salandro, W., **Mears, L.**, Roth, J.T., (2010) "An Energy-Based Approach to Describe the Effect of Electrical Current on Compressive Forming," *Transactions of the North American Manufacturing Research Institute of SME*, **38(1)**:647-654.
- J12. Jones, J.J., **Mears, L.**, Roth, J.T., (2010) "Empirical Modeling of the Stress-Strain Relationship for Upsetting Under Direct Electrical Current," *Transactions of the North American Manufacturing Research Institute of SME*, **38(1)**: 451-458.
- J11. Jones, J.J., **Mears, L.**, Roth, J.T. (2009), "Compressive Forgeability Enhancement of Magnesium AZ31B-O Using a Continuous Electrical Current," *ASME Journal of Manufacturing Science and Engineering* (accepted).
- J10. Roth, J., Djurdjanovic, D., Yang, X., **Mears, L.**, Kurfess, T. (2009), "Quality and Inspection of Machining Operations: Tool Condition Monitoring," *ASME Journal of Manufacturing Science and Engineering*, **132(4)**:041015 (16 pages), doi:10.1115/1.4002022.
- J09. **Mears, L.**, Omar, M., Kurfess, T. (2009), "Automotive Engineering Curriculum Development: Case study for Clemson University," *Journal of Intelligent Manufacturing: Special Issue on Intelligent Manufacturing Systems* ISSN 0956-5515, doi 10.1007/s10845-009-0329-z.
- J08. **Mears, L.**, Roth, J., Djurdjanovic, D., Yang, X., Kurfess, T. (2009), "Quality and Inspection of Machining Operations: CMM Integration to the Machine Tool," *ASME Journal of Manufacturing Science and Engineering*, **131(5)**: 051006:1-13.
- J07. Omar, M., **Mears, L.**, Kiggans, R., Kurfess, T. (2009) "Organizational Learning in Automotive Manufacturing: A Strategic Choice," *Journal of Intelligent Manufacturing: Special Issue on Intelligent Manufacturing Systems*, ISSN 0956-5515, doi 10.1007/s10845-009-0330-6.

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- J06. Montes, C.A., Ziegert, J.C., **Mears, L.** (2009), "Method to Measure Planar Displacement Using Centroid Calculation," *Transactions of the North American Manufacturing Research Institute of SME*, **37(1)**: 525-532.
- J05. **Mears, L.**, Kurfess, T. (2008), "Open-Loop Velocity Planning to Mitigate the Effect of Stiction in Pushing Positioning," *Transactions of the North American Manufacturing Research Institute of SME*, **36(1)**: 301-308.
- J04. Grujicic, M., Sellappan, V., **Mears, L.**, Seyr, N., Obieglo, A., Erdmann, M., Holzleitner, J. (2008), "Selection of the Spraying Technologies for Over-Coating of Metal Stampings with Thermoplastics for Use in Direct-Adhesion Polymer Metal Hybrid Load-Bearing Components," *Journal of Materials Processing Technology*, **198(1-3)**: 300-312.
- J03. **Mears, L.**, Kurfess, T. (2007), "Impulsive-Actuation Part Positioning through Constrained Energy Balance Planning," *Transactions of the North American Manufacturing Research Institute of SME*, **35(1)**: 521-528.
- J02. **Mears, M. L.**, Kolarits, F., Thompson, M., & Kurfess, T. R. (2007). "Design of a Flexible Centering Tooling System," *International Journal of Computer Applications in Technology*, **28(1)**: 52-62.
- J01. **Mears, L.**, Kurfess, T. (2006), "Application of a Linear Center Identification Scheme to Deterministic Polar Positioning," *Transactions of the North American Manufacturing Research Institute of SME*, **34(1)**: 619-625.

Refereed Conferences

- C32. Jones, J., **Mears, L.**, (2011), "Constant-Current Density Compression Behavior of 304 Stainless Steel and Ti-6Al-4V During Electrically-Assisted Forming," *Proceedings of 2011 ASME International Manufacturing Science and Engineering Conference (MSEC2011)*, Paper No. MSEC-2011-50287, Corvallis, OR, June 13-17, 2011.
- C31. Kuttolamadom, M., **Mears, L.**, (2011), "On the Volumetric Assessment of Tool Wear in Machining Inserts with Complex Geometries: Need, Methodology and Validation," *Proceedings of 2011 ASME International Manufacturing Science and Engineering Conference (MSEC2011)*, Paper No. MSEC-2011-50278, Corvallis, OR, June 13-17, 2011.
- C30. Martens, T., **Mears, L.**, (2011), "Microfeature-Enhanced Sinter Bonding of Metal-Injection Molded (MIM) Parts to Solid Substrate," *Proceedings of 2011 ASME International Manufacturing Science and Engineering Conference (MSEC2011)*, Paper No. MSEC-2011-50129, Corvallis, OR, June 13-17, 2011.

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- C29. Mehta, P., **Mears, L.**, (2011), "Model-Based Prediction and Control of Machining Deflection Error in Turning Slender Bars," *Proceedings of 2011 ASME International Manufacturing Science and Engineering Conference (MSEC2011)*, Paper No. MSEC-2011-50154, Corvallis, OR, June 13-17, 2011.
- C28. Salandro, W., Bunget, C., **Mears, L.**, (2011), "Thermo-Mechanical Investigations of the Electroplastic Effect," *Proceedings of 2011 ASME International Manufacturing Science and Engineering Conference (MSEC2011)*, Paper No. MSEC-2011-50250, Corvallis, OR, June 13-17, 2011.
- C27. Werner, A., **Mears, L.**, Clark, A. (2011), "Dynamic Evaluation of a Nanocomposite Force Sensor," *Proceedings of 2011 ASME International Manufacturing Science and Engineering Conference (MSEC2011)*, Paper No. MSEC-2011-50059, Corvallis, OR, June 13-17, 2011.
- C26. Werner, A., Mehta, P., **Mears, L.**, (2011), "Development of a Condition-Based Maintenance Program for a Computer-Numerically Controlled Machine: Part 1 - Signal Acquisition, Processing and Network Communication," *Proceedings of 2011 ASME International Manufacturing Science and Engineering Conference (MSEC2011)*, Paper No. MSEC-2011-50132, Corvallis, OR, June 13-17, 2011.
- C25. Montes, C., Wong, C., Ziegert, J., **Mears, L.**, (2011), "Hybrid Command Issuing in a 2-Degree-of-Freedom Servomechanism Operated under Vision-Based Feedback Control," *Proceedings of 2011 International Conference on Sustainable Automotive Technologies (ICSAT)*, Greenville, SC, April 5-6, 2011.
- C24. Dubey, M., **Mears, L.**, Cannon, A., Hulseman, R. (2011), "Injection Mold Process Optimization for Surface Microfeature Control," *Proceedings of ASPE Spring Topical Conference*, Paper No. 3222.
- C23. Kuttolamadom, M., Jones, J., **Mears, L.**, Ziegert, J., Kurfess, T. (2011), "A Systematic Procedure for Integrating Titanium Alloys as a Lightweight Automotive Material Alternative," *Proceedings of Society of Automotive Engineers World Congress 2011*, Paper No. 2011-01-0429.
- C22. Namouz, E., **Mears, L.**, Mocko, G., Summers, J. (2011), "Lazy Parts Indication Method: Application to Automotive Components," *Proceedings of Society of Automotive Engineers World Congress 2011*, Paper No. 2011-01-0428.
- C21. Wong, C., Montes, C., **Mears, L.**, Ziegert, J. (2010), "Model Based control to Enhance a Novel Visual Control Positioning System," *Proceedings of International Conference on Control, Automation and Systems 2010*, Gyeonggi-do, Korea, Oct. 27-30, 2010.

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- C20. Montes, C., Ziegert, J., Wong, C., **Mears, L.**, Tucker, T. (2010), “2-D Absolute Positioning System for Real-Time Control Applications,” *Proceedings of the 2010 American Society for Precision Engineering Annual Meeting*, Atlanta, GA, September 13-15, 2010.
- C19. Bunget, C., Salandro, W., **Mears, L.** (2010), “Tribological Aspects in Electrically-Assisted Forming,” *Proceedings of the 2010 ASME International Manufacturing Science and Engineering Conference (MSEC2010)*, Erie, PA, October 12-15, 2010.
- C18. Jones, J., **Mears, L.** (2010), “A process Comparison of Simple Stretch Forming Using Both Conventional and Electrically-Assisted Forming Techniques,” *Proceedings of the 2010 ASME International Manufacturing Science and Engineering Conference (MSEC2010)*, Erie, PA, October 12-15, 2010.
- C17. Salandro, W., Bunget, C., **Mears, L.** (2010), “Modeling and Quantification of the Electroplastic Effect when Bending Stainless Steel Sheet Metal,” *Proceedings of the 2010 ASME International Manufacturing Science and Engineering Conference (MSEC2010)*, Erie, PA, October 12-15, 2010.
- C16. McElreath, M., Mayorga, M., **Mears, L.** (2010), “Assigning Storage Locations in an Automated Warehouse,” *Proceedings of Industrial Engineering Research Conference*.
- C15. Morkos, B., Summers, J.D., **Mears, L.**, Taiber, J. (2010), “Applicability Evaluation of Mobile Devices for Use Within Manufacturing Environments,” *Proceedings of ASME 2010 World Conference on Innovative Virtual Reality*, Paper No. WINVR2010-3759.
- C14. Vimalnathan, S., **Mears, L.** (2010), “Finite Element Simulation of Ring Rolling Process,” *Proceedings of Society of Automotive Engineers World Congress 2010*, Paper No. 2010-01-0270.
- C13. Kuttolamadom, M., Chorogudai, A., **Mears, L.**, Kurfess, T.R. (2010), “Investigation of Machining of Titanium Components for Lightweight Vehicles,” *Proceedings of Society of Automotive Engineers World Congress 2010*, Paper No. 2010-01-0022.
- C12. Kuttolamadom, M., Hamzehlouia, S., **Mears, L.** (2010), “Effect of Machining Speed on Surface Roughness in Cutting 6061 Aluminum,” *Proceedings of Society of Automotive Engineers World Congress 2010*, Paper No. 2010-01-0218 (reported also in SAE Special Publications book SP-2294, Advances In Light Weight Materials – Aluminum, Casting Materials, and Magnesium Technologies, 2010, ISBN 978-0-7680-3428-8).
- C11. Martens, T., **Mears, L.**, Dotson, M., Sanger, P., Graham, M. (2009), “Requirements Selection for Rapid Prototyping: Polyphenylsulfone as a Mold Material for Spin Casting Polyurethane Resin,” *Proceedings of the 2009 ASME International Manufacturing Science and Engineering Conference (MSEC2009)*.

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- C10. Wong, C., **Mears, L.**, Ziegert, J.C. (2009), “Dead Time Compensation for a Novel Positioning System via Predictive Control and Virtual Intermittent Setpoints,” *Proceedings of the 2009 ASME International Manufacturing Science and Engineering Conference (MSEC2009)*.
- C09. Bryan, A., Burger, U., Kuttolamadom, M., **Mears, L.**, Kurfess, T.R. (2009), “Volumetric Flank Wear Characterization for Titanium Milling Insert Tools,” *Proceedings of the 2009 ASME International Manufacturing Science and Engineering Conference (MSEC2009)*.
- C08. Grubb, M., Berger, A., Browning, D., Mayorga, M., **Mears, M.L.** (2009) “WARNING! Engineers in Training.” May 2009, *IIE Annual Conference and Expo 2009*, Miami, FL.
- C07. Teppa, S., **Mears, L.** (2009), “Bonding Strength Modeling of Polyurethane to Vulcanized Rubber,” *Proceedings of Society of Automotive Engineers World Congress 2009*, Paper No. 2009-01-0605.
- C06. Chimalapati, S., **Mears, L.**, Clark, A. (2008), “Characterization of a Nanocomposite Force Sensor in Multiple Environmental Domains,” *International Manufacturing Science and Engineering Conference 2008*, MSEC2008: 111-117.
- C05. Wong, C., Montes, C., **Mears, L.**, Ziegert, J. (2008), “A New Position Feedback Method for Manufacturing Equipment,” *International Manufacturing Science and Engineering Conference 2008*, MSEC2008: 67-74.
- C04. Roth, J. T., **Mears, L.**, et al. (2007). "Quality and inspection of machining operations: Review of condition monitoring and CMM inspection techniques 2000 to present." *Proceedings of the ASME International Manufacturing Science and Engineering Conference 2007*, MSEC2007: 861-872.
- C03. **Mears, L.**, Falcon, J. (2007) “Real-Time System Identification for Impact-Based Part Positioning.” *International Conference on Smart Machining Systems*, National Institute of Standards and Technology, Gaithersburg, MD, March 13-15, 2007.
- C02. **Mears, L.**, Falcon, J., Kurfess, T. (2006) “Real-Time Identification of Sliding Friction Using LabVIEW FPGA.” *Proceedings of the 2006 American Control Conference*, Minneapolis, June 14-16, 2006, ACC2006: 1410-1415.
- C01. **Mears, L.**, Kurfess, T. (2005) “Design of a Flexible and Agile Centering Preprocessing System.” *Proceedings of the 2005 International Conference on Agility (ICAM 2005)*, Int’l Soc. of Agile Manufacturing, Helsinki, Finland, July 27-28, 2005: 307-313. (Best presentation award)

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Magazine Articles

- Martens, T., **Mears, L.** (2010) "New Method of Bonding PIM Compacts to Solid Substrates," *Powder Injection Moulding International*, December 2010.
- Mears, L.**, Falcon, J., Kurfess, T. (2008) "Real-Time Sliding Friction Identification and Analysis: Applications of Control," *IEEE Control Systems Magazine special issue on Modeling and Control of Systems with Friction*, **28(6)**: 20-28.

Reports

- Mears, L.**, "CAREER: Model-Based Control of Machining Processes and Scalability for Manufacturing System Control," NSF CMMI Grantees Conference, Atlanta, GA, January 4-7, 2011.
- Mears, L.**, Ziegert, J.C. "Machining Accuracy Improvement Through Visual Control of an Active Display," NSF CMMI Grantees Conference, Atlanta, GA, January 4-7, 2011.
- Mears, L.**, Ziegert, J.C. "Machining Accuracy Improvement Through Visual Control of an Active Display," NSF CMMI Grantees Conference, Honolulu, HI, June 22-25, 2009.

Presentations

- Mears, L.** (2011), "Case Study to Predict Failure: An Integrated Condition-Based Monitoring System," (invited talk), *Interactive Manufacturing Experience*, Las Vegas, NV, September 12-13, 2011.
- Mears, L.** (2011), "Improving Cost of Ownership: A Planned Maintenance Approach," (invited talk), *Interactive Manufacturing Experience*, Las Vegas, NV, September 12, 2011.
- Mears, L.** (2011), "Integration of a Predictive Maintenance System to the Machine Tool," (invited talk), *Okuma America Partners Group*, August 15, 2011.
- Kuttolamadom, **Mears, L.**, Kurfess, T. (2011). "Modeling & Simulation of Tool Wear in AdvantEdge FEM using High-Performance Computing when Machining Ti-6Al-4V: Challenges & Advances," *10th annual Third Wave Systems 2011 International User's Conference*, Jacksonville, FL, May 25-26, 2011.
- Martens, T., **Mears, L.** (2011). "Micro feature-enhanced sinter bonding of Metal Injection Molded parts to solid substrates," Poster session presented at *MIMA Metal Injection Molding 2011*, Orlando, FL, March 14-16, 2011.
- Martens, T., **Mears, L.** (2011). "Microfeature enhanced bonding of Metal Injection Molded parts," (invited talk). *Harvey Mudd College*, Claremont, CA, March 9, 2011.

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- Warrick, T., Rusly, R., **Mears, L.** Desjardins, J. (2010). "Assessment of Femoral/Tibial Bearing Laxity in Total Knee Replacements Using a Robotic Manipulator." Poster session presented at the *2010 Annual Meeting of the Southeast Biomedical Engineering Career Conference*, October 29, 2010, Clemson, SC, October 29, 2010.
- Mears, L.** (2010), "Electrification of the Transportation Industry" Presentation followed by hosting of panel session, *ASME International Manufacturing Science and Engineering Conference (MSEC2010)*, Erie, PA, October 15, 2010.
- Martens, T., **Mears, L.** (2010). "Sinter Joining in Metal Injection Molding." Poster session presented at the *2010 ASME International Manufacturing Science and Engineering Conference (MSEC2010)*, Erie, PA, October 13-15, 2010.
- Kuttolamadom, M., Jones, J., **Mears, L.**, Ziegert, J., Kurfess, T. (2010). Integrating Lightweight Materials - Component Manufacture in Titanium. Poster session presented at the *2010 ASME International Manufacturing Science and Engineering Conference (MSEC2010)*, Erie, PA, October 13-15, 2010.
- Mears, L.** (2010) "Preparing for and writing proposals to NSF - with additional thought on the CAREER" (invited talk), *2010 NSF Proposal Writing Workshop*, Lincoln, NE, September 1-2, 2010.
- Böker, A., Mayorga, M.E. **Mears, L.** (2010), "Multivariate Throughput Analysis of a Sub-Assembly Line in the Automotive Industry." *INFORMS Southern Regional Conference 2010*, Huntsville AL.
- Gunn, G., Mayorga, M.E., **Mears, L.** (2010), "A Simulation Approach to Allocation of Flexible Servers when Switching Time is Included," *INFORMS Southern Regional Conference 2010*, Huntsville AL.
- Mears, M.L.** (2009) "Real-Time Prototyping and Deployment Controls for Automotive and Manufacturing Applications," (invited talk) *NI-Week*, Austin, TX, August 4, 2009.
- Mears, M.L.** (2008) "Quality Integration in the Automotive Supply Chain," (invited talk) *Lang-Mekra Supplier Day*, Columbia, SC, September 16, 2008.
- Mears, M.L.** (2008) "Simulation and Model-Based Machining to Support Titanium Use in the Commercial Automotive Industry," (invited talk) *National Center for Manufacturing Sciences (NCMS) Automotive Summit*, Ann Arbor, MI, July 23, 2008.
- Mears, M.L.** (2008) "Energy-Based Precision Positioning and Its Application to Automotive Manufacturing," (invited talk) *Marquette University*, Milwaukee, WI, March 6, 2008.
- Mears, M.L.** (2007) "Employment in the Automotive Industry," (invited talk) *Greenville Technical College*, Greenville, SC, November 29, 2007.
- Mears, M.L.** (2007) "Training and Keeping the Technical Future of SC in Lightweight Composite Manufacturing," (invited talk) *South Carolina Composite Economic Cluster Conference*, Spartanburg, SC, November 11, 2007.

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PUBLICATIONS AND PRESENTATIONS

- Mears, M.L.** (2007) “Precision Machining and Measurement with Adaptive Control and Online System Identification,” (invited talk) *NI-Week*, Austin, TX, August 19, 2007.
- Mears, M.L.** (2007) “Real-Time Identification of Sliding Friction Using LabVIEW FPGA,” (invited talk) *Applied Control and Technology Consortium Automotive Control Workshop*, Auburn Hills, MI, March 19, 2007.
- Mears, M.L.** (2006) “Opportunities in Automotive Education in South Carolina,” (invited talk) *Concours d’Elegance Motoring Show Education Symposium*, Hilton Head, SC, November 4, 2006.
- Mears, M.L.** (2005) “Multi-Input Control with Integral Adaptation,” (invited talk) *National Instruments Symposium*, U. of Alabama and Mississippi State U., June 2005.
- Mears, L.** (2005) “Cost Modeling of Positioning Systems for Manufacturing and Metrology,” General Motors Scholar Final Presentation, Warren, MI, February 2005.
- Mears, M.L.** (2005) “Control Design Utilizing LabVIEW Real-Time Deterministic Looping,” (invited talk) *National Instruments Real-Time Symposium*, McGill U., Montreal, Quebec, February 2005.
- Mears, M.L.** (2005) “Control Design Utilizing LabVIEW Real-Time Deterministic Looping,” (invited talk) *National Instruments Real-Time Symposium*, University of Toronto, February 2005.
- Mears, M.L.** (2005) “Control Design Utilizing LabVIEW Real-Time Deterministic Looping,” (invited talk) *National Instruments Real-Time Symposium*, University of Alabama, Tuscaloosa, AL, February 2005.
- Mears, M.L.** (2005) “Control Design Utilizing LabVIEW Real-Time Deterministic Looping,” (invited talk) *National Instruments Real-Time Symposium*, Mississippi State University, Starkeville, MS, February 2005.
- Mears, M.L.** (2004) “Design of a Centering Control System for Precision Measurement of Bearing Rings,” Georgia Tech Industrial Advisory Board presentation and poster session, Atlanta, October 20, 2004.
- Mears, M.L.** (2001) “Flow Testing Cycle Time Reduction Using Statistical Approximation Techniques,” Unisia-JECS Engineering Summit, Atsugi, Japan, September 21, 2001.