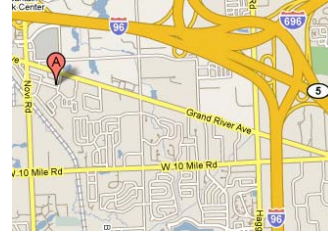


Michigan Simulation Users Group (MSUG)

General Membership Meeting II

All Simulation Users Welcome

Date: Tuesday, June 9th, 2009
Time: 4:00 – 6:00pm
Location: Mongolian BBQ
at Grand River Av & Novi Rd
43155 Main St # 200
Novi, MI 48375



Dr. Ahad Ali from Lawrence Tech University will make a presentation entitled “*Intelligent Modeling and Simulation in Electronics Manufacturing for Performance Improvement*”

Presentation Abstract

This research presents optimized maintenance design using simulation to analyze the capability of auto part manufacturing production system. The integration of simulation and optimization is used to identify critical stations, an optimal system design and maintenance scheduling schemes and evaluates their effects on the overall system performance. Most emphasis is focused on the impact on system by individual station reliability and the fluctuation of maintenance availability. The proposed simulation and optimization for maintenance design is validated through real-life application. This simulation modeling and optimization could help for manufacturing performance improvement.

Dr. Ahad Ali's Bio

Ahad Ali is an Assistant Professor in Mechanical Engineering at the Lawrence Tech University. He earned B.S. in Mechanical Engineering from Bangladesh Institute of Technology, Khulna, Masters in Systems and Engineering Management from Nanyang Technological University, Singapore and Ph.D. in Industrial Engineering from University of Wisconsin-Milwaukee. Dr. Ali was Assistant Professor in Industrial Engineering at the University of Puerto Rico - Mayaguez, Visiting Assistant Professor in Mechanical, Industrial and Manufacturing Engineering at the University of Toledo, and Lecturer in Mechanical Engineering at the Bangladesh Institute of Technology, Khulna. He has published journal and conference papers. Dr. Ali has done research projects with Delphi Automotive System, GE Medical Systems, Harley-Davidson Motor Company, International Truck and Engine Corporation (ITEC), National/Panasonic Electronics, and Rockwell Automation. His research interests include manufacturing systems modeling, simulation and optimization, intelligent scheduling and planning, artificial intelligence, predictive maintenance, e-manufacturing, and lean manufacturing. Dr. Ali is serving as the President of IIE Lean Division. He has been serving as the Chair of IIE Lean Student Paper Competition since 2007. He is member of IIE, INFORMS, SME and IEEE.

After the presentation, we will have dinner and the opportunity to discuss the topic with colleagues. The cost per person is \$15 for members, \$20 for nonmembers, \$10 for students (with student ID whether members or not). The price includes presentation, dinner, gratuity, and non-alcoholic beverages. Cocktails and desserts available at additional cost.

Personal Checks, Cash, Visa, and MC accepted.

Contact Dave Stone at dps16@chrysler.com for reservations.