



### Meeting Announcement

Speaker: Dr. Shahrukh Irani, Associate Professor of Industrial Engineering  
at The Ohio State University  
When: Thursday, April 16, 2009  
Where: Arlington Banquets – 1976 W. Henderson Road, Columbus (614-538-8400)  
Schedule: Social 6:00-6:20pm / Dinner at 6:20pm / Presentation starts at 6:50pm

Cost: Professional Member \$20  
Students \$15  
Non-Member / Guest \$25



**Topic: How Facility Layout and Design Inspires a New Approach to Lean in Non-Assembly Facilities**

**Abstract:** Small and medium-size manufacturers are the exact opposite of assembly line manufacturers like Toyota. They operate in high-mix, low-volume conditions that require them to be *both* Lean *and* Flexible. The foundation for being a Lean *and* Flexible manufacturer is a good facility layout for achieving delay-free minimum-cost material flows. In fact, just about any respected book on Lean Manufacturing considers facility layout to be an important enabler for waste elimination and delay-free material flow. Even a basic result in queuing theory relates some waste to the velocity of material flows through a facility. Unfortunately, the methods for facility design offered by the Toyota Production System (TPS) and modern textbooks are cumbersome, inapplicable and/or impractical in the real world. This interactive presentation will present proven ideas, methods and software tools for designing facility layouts in high-mix, low-volume, multi-product, and multi-machine manufacturing facilities.

**Biography:** Dr. Irani has pioneered the development of JobshopLean, an extension of Lean Manufacturing concepts to enhance the best practices of TPS in smaller enterprises. His research group has created PFAST (Production Flow Analysis and Simplification Toolkit), a software application for material flow analysis. The primary thrust in his teaching and research efforts is the practical realization of the theory and science of Industrial Engineering. He is the Director of the Advanced Manufacturing Interest Group (AMIG), a consortium that seeks to incorporate industry experience across the Industrial Engineering curriculum through a variety of engagements with Ohio manufacturers. He is also a member of SME and IIE.

**Reservations:**

Go online at <http://com-dot.com/newap/activities.php?d=114630&v=411> to register by April 9.

All reservations are final on April 10 and payment will be required. **Please be prepared to pay via Check (made out to IIE) or Cash at the event.**

If you have questions, contact:

Brad Laser

or

Susan Dulik

IIE Membership Director

IIE Student/Community Director

[elaserbeam@yahoo.com](mailto:elaserbeam@yahoo.com)

[susan\\_dulik@ham.honda.com](mailto:susan_dulik@ham.honda.com)

419-512-1782

937-642-5000 ext. 66710