

e-Manufacturing Seminar Series
#4

“Inventory Management and Supply Chain Optimization”

This talk presents IBM team's 1999 Edelman award winning extended supply chain management work. The project started in 1994 when IBM embarked a global supply chain re-engineering. The goal was to achieve quick customer responsiveness with minimal inventory in the IBM global supply chain. A multi-echelon inventory optimization methodology and an extended enterprise supply chain analysis tool, called the Asset Management Tool (AMT), was developed to support this effort. AMT integrates graphical process modeling, analytical performance optimization, simulation, activity based costing, and enterprise database connectivity into an internet-enabled global supply chain management system. AMT has been used to study a wide range of issues including inventory budgets, turnover objectives, customer service level targets, effects of new product introduction, and supply chain scenario analyses. The AMT analyses have generated significant business impacts, including more than \$750M savings in material costs and price protection expenses in 1998 alone for IBM's Personal Systems Group. The talk will also discuss IBM's current directions on Supply Chain Management and E-Commerce.

Speaker: Dr. Grace Lin

Grace Y. Lin is a Senior Manager and Research Staff Member at the IBM T. J. Watson Research Center. She manages the Supply Chain and e-Markets Optimization Department. She received her Ph.D. in Industrial Engineering from Purdue University in 1993 and won the 1994 Institute of Industrial Engineering Doctoral Dissertation Award, several IBM outstanding technical awards, and the 1999 Edelman prize. Her research covers value chain optimization and integration, agent-based systems, and computer integrated manufacturing. She holds two patents and has published in IJFMS, IIE Transactions, Operations Research, and Interfaces. She is an Associate Editor for Operations Research and chairs the INFORMS Academic / Practitioner Interface committee. She is a member of INFORMS and IIE.

Date/Time: December 1 (Friday), 11AM – Noon, followed by a discussion session

Location: 369 Link Hall,
College of Engineering and Computer Science,
Syracuse University

Institute for Manufacturing Enterprises (IME)
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