



### PROGRAM

12:00 - 1:00 p.m. Lecture  
12:50 - 1:00 p.m. Q&A and Discussion  
1:00 – 1:30 p.m. Pizza

### ABSTRACT

This presentation addresses trends in control system development, especially agent-based approaches, which offer benefits over classical rule-based approaches. What are these, how do they work in practice and what performance benefits might result from their use are topics to be developed. Illustrations of their potential development from a research relationship with Vanderlande Industries (The Netherlands) and are grounded in a full scale Order Delivery System application of a goods-to-operator system.

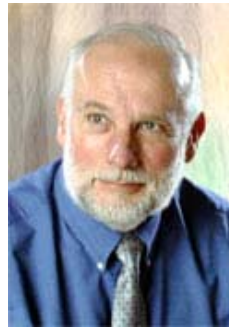
### SEMINAR TITLE

**“Control of Complex Integrated Automated Systems – Emerging Technologies and Industrial Case Experiences”**

### SEMINAR SPEAKER

Dr. Robert J. Graves  
Krehbiel Professor of Engineering  
Thayer School of Engineering  
Dartmouth College

### BIOGRAPHIC PROFILE



Robert J. Graves, Ph.D., is the John Krehbiel Professor of Emerging Technologies at Dartmouth College's Thayer School, Co-Director of Thayer's Masters in Engineering Management Program, and emeritus professor at Rensselaer Polytechnic Institute.

Dr. Graves' research includes web-based agile manufacturing technologies for concurrent product engineering, near real-time scheduling and dispatching, material handling system design, and automated systems controls. He has published over 200 refereed articles, books, and conference papers, holds two patents, and has led nearly \$20,000,000 of sponsored research in these areas. Bob previously was Director of RPI's Electronics Agile Manufacturing Research Institute, holds a BSIE (Syracuse University) and an MSIE and Ph.D. (State University of New York at Buffalo), is a Fellow of IIE and SME, Associate Editor of the *Journal of Manufacturing Systems*, former U.S. Editor of *Production Planning and Control*, and a Board member and Chief Technology Officer of Vesign Inc. Bob received the David F. Baker Distinguished Research Award from IIE, the Reed-Apple Award from the Material Handling Education Foundation, and the RPI School of Engineering Outstanding Research Professor Award in 2003.