

SEMINAR SERIES
Department of Quantitative Analysis and Operations Management
College of Business Administration
University of Cincinnati

**Information, Allocation and Order Fulfillment
Or
What Did the Supplier Know and What Did They Do About It?**

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Owen Graduate School of Management
Vanderbilt University**

**Friday, May 29, 1998
12:30 p.m.
214 Lindner Hall**

Sharing future demand information is a key component of collaborative supply chain relationships. In this talk, we will examine the order fulfillment process in periodic inventory systems where some customers specify future demand information with a desired delivery window. We develop an exact expression for the distribution of order response time and the probability of delivering within the window. We compare the results of our expression to the performance of previously developed bounds on order response time. Using our model, we compare order fulfillment performance and inventory investment under different product allocation rules.

M. Eric Johnson is Associate Professor at the Owen Graduate School of Management, Vanderbilt University. He teaches courses in operations management, supply chain management, and simulation. Previously he was employed by Hewlett-Packard Co. as a manufacturing engineering specialist and Systems Modeling Corp. as a consulting engineer. Through grants from the National Science Foundation, Hewlett-Packard Co. and Pepsi-Cola, Eric is conducting research in supply chain logistics including manufacturing capacity planning, transportation system design, and inventory measurement and control. His articles have appeared in such journals as *Management Science*, *Operations Research*, *Naval Research Logistics*, *IIE Transactions*, and *Transportation Science*. He is currently serving as an associate editor for *Operations Research*, *Production and Operations Management*, and *Manufacturing and Service Operations Management*. He holds a B.S. in Industrial Engineering, B.S. in Economics, an M.S. in Industrial Engineering and Operations Research from Penn State University, and a Ph.D. in Industrial Engineering from Stanford University.