

## **JOHN A. MUCKSTADT**

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### **Education:**

Ph.D. Industrial Engineering, University of Michigan, 1966  
M.A. Mathematics, University of Michigan, 1965  
M.S. Industrial Administration, University of Michigan, 1964  
A.B. Mathematics, University of Rochester, 1962

### **Honors:**

Recipient of Outstanding Graduate Student Award at the University of Michigan Engineering Honors Convocation, 1964.

Recipient of the Outstanding Faculty Member Award for both 1970 and 1971 while at the Air Force Institute of Technology.

Selected Outstanding US Air Force Reserve Officer, Air Force Logistics Command in 1981.

Recipient of Dean's Prize for Innovative Teaching (1987, 1995, 1999).

Recipient of Distinguished Alumni Award, Rackham Graduate School, University of Michigan, 1988.

Recipient of EDUCOM/NCRIPAL Higher Education Award for "The Manufacturing System Development Game," a Distinguished Curriculum Innovation in Engineering, 1990.

Recipient of the Silver Medal Award at the New Media INVISION 1994 Multimedia Awards ceremony given for the development and dissemination of material for a course on manufacturing system design and operation called "The Velocity Manufacturing Corporation" multimedia case.

Recipient of OR&IE Master of Engineering 1995 and 2000 Outstanding Teaching Award.

Recipient of American Institute of Industrial Engineers 1995 Outstanding Teaching Award.

Recipient of 1998 IIE Transactions Award for Outstanding Paper on Scheduling and Logistics entitled "Multi-item, Multi-period Production Planning with Uncertain Demand." (with C. Sox).

Recipient of the University of Michigan's College of Engineering Outstanding Alumni Award, October 2000.

### **Professional Experience:**

- 1974 - Present** Acheson/Laibe Professor of Business Management and Leadership Studies, School of Operations Research and Industrial Engineering (2000- ).
- Director, School of Operations Research and Industrial Engineering (1987-1996).
- Associate Professor (1974-1981) and Professor (1981-2000) at Cornell University in the School of Operations Research and Industrial Engineering.
- Visiting Professor, Department of Industrial and Operations Engineering, University of Michigan (1987).
- Visiting Professor, Department Toegepaste Economie, Katholieke Universiteit Leuven, Leuven, Belgium (1981-1982).
- Co-Director (1981-1983) and Director (1983-1987), Cornell Manufacturing Engineering and Productivity Program.
- Professor Invitee, Institute d'Administration et de Gestion, Universite Catholique de Louvain, Louvain-la-Neuve, Belgium (1980), (1987-1988), (1996-1997).
- Acting Associate Director, School of Operations Research and Industrial Engineering for the 1977-78 academic year.
- Chairman, Graduate Professional Programs Committee, College of Engineering, 1978-1980.
- Part-time consultant to many governmental and industrial organizations (including Accenture, Aspen Technology, Avon, Bell Atlantic, General Electric, General Motors, U.S. Navy, Logistics Management Institute, SAS Airlines, Xerox, XELUS, Chicago Pneumatic Tool, General Foods, Aeroquip-Vickers, IBM, Unilever and the RAND Corporation) mainly in the areas of inventory management, production control, supply chain system strategy and operation, manufacturing and logistics system design.
- 1971 - 1974** Operations Research Analyst for the Deputate of Material Management and Deputate of Acquisition Logistics, Headquarters, Air Force Logistics Command. Designed and implemented mathematical models of the material management logistics environment.
- Part-time teaching position at the University of Dayton.
- 1966 - 1971** Faculty member in the Air Force Institute of Technology. Instructed graduate students in applied operations research courses. Achieved the rank of Associate Professor.

**Editorial Positions:**

Associate Editor of Management Science (1976-1977).

Associate Editor of Naval Research Logistics (1978-present).

Associate Editor of Operations Research Letters (1981-present).

Associate Editor of Interfaces (1981-1983).

Area Editor for IIE Transactions (1985-1987).

Associate Editor of Manufacturing and Operations Management (1988-1996).

Editorial Board of International Journal of Production Economics (1995-present).

### **Contracts, Grants and Fellowships:**

Recipient of National Science Foundation Grant for Study in Operations Research for the summer of 1970.

Recipient of grant from the Naval Weapons Engineering Support Activity in 1975 for study of spare aircraft engine requirements.

Recipient of Office of Naval Research Grant for 1975-1980 for study of inventory management problems in military logistics systems.

Recipient of Air Force Office of Scientific Research and Air Force Logistics Command grants in 1978-1980 for study of inventory management problems for Interchangeable Recoverable Items.

Recipient of National Science Foundation Grant for 1980-1988 for the development of logistics models of automatic factory design and operation.

Recipient of IBM Grant for 1986-1990 for the development of educational materials for teaching manufacturing logistics concepts.

Recipient of AT&T Grant for 1987-1988 for the research in material logistics.

Recipient of New York State Science and Technology Foundation Grant (1986-1987) for the development of COSMOS.

Recipient of IBM Grant for 1986-1987 to study material logistics issues related to chip and module production.

Recipient of General Foods Grant for 1986-1988 to develop COSMOS.

Recipient of IBM Grant for 1989-1990 for development of COSMOS.

Recipient of AT&T Grant for 1989-1990 for development of teaching materials related to manufacturing logistics.

Recipient of NSF Grant for 1989-1992 for study of material logistics issues in semiconductor manufacturing.

Recipient of AT&T Grant for 1990-1991 for enhancement of education in manufacturing systems design and management.

Recipient of AT&T Grant for 1991-1992 to provide computing equipment for studying semiconductor fabrication logistics problems.

Recipient of AT&T Grant for 1992-1993 for enhancement of education in total quality management.

Recipient of NSF Grant for 1991-present -- Synthesis Coalition -- for development of course in manufacturing systems design and control.

Recipient of AT&T Grant for 1993-1994 for enhancement of education in total quality management.

Recipient of NSF Grant for 1993-1996 for development of educational materials for quick response component supply.

Recipient of Sloan Foundation Grant for 1993-1996 for dissemination of educational materials related to the design and operation of manufacturing systems.

Recipient of AT&T Grant for 1994-1995 for enhancement of education in total quality management.

Recipient of AT&T Grant for 1995-1996 for multimedia instruction for manufacturing systems.

Recipient of Aeroquip Corporation Grant for 1995-1997 for studying production and inventory planning models.

Recipient of GM Grant for 1996-present for studying service parts problems.

Recipient of NASA Grant for 2000-present for studying spare parts requirements and logistics system design issues for NASA's Reusable Launch Vehicle Program.

Recipient of Aspen Technology Grant for 2000-present for the development of supply chain course materials.

Recipient of Aspen Technology Grant for 2000-present for developing stochastic models for the control of inventories in large-scale supply chain.

Recipient of NSF Grant for 2000-present for studying scalable enterprise systems.

**Selected Publications:**

"A Model for a Multi-Item, Multi-Echelon, Multi-Indenture Inventory System." Management Science, Vol. 20, No. 4, December 1973, pp. 472-481.

"Establishing Consistent and Realistic Reorder Intervals in Production-Distribution Systems." (with W.L. Maxwell) Operations Research, Vol. 33, No. 6, November-December 1985, pp. 1316-1341.

"Multi-item, Multi-period Production Planning with Uncertain Demand." (with C. Sox) IIE Transactions 28 (1996) 891-900.

"A Computationally Efficient Approach for Determining Inventory Levels in a Capacitated Multi-Echelon Production-Distribution System." (with J.A. Rappold) Naval Research Logistics 47 (2000), 377-398.

"A Multi-Echelon, Multi-Item Inventory Model for Service Parts Management with Generalized Service Level Constraints." (with K.E. Caggiano, P.L. Jackson and J.A. Rappold) School of Operations Research and Industrial Engineering, Technical Report No. 1307, Cornell University, Ithaca, NY, 2001.