

BRET J. WAGNER

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Department of Management
Haworth College of Business
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EDUCATION

Ph.D. in Operations Management, Michigan State University, 1995.
Minors in Statistics and Systems Science

Master of Engineering Administration, George Washington University, 1988.

B.S. in Mechanical Engineering, Michigan State University, 1983.

EXPERIENCE

Associate Professor, Department of Management
Western Michigan University, 2003 – present

Director, Integrated Supply Management Program
Western Michigan University, 2004 – 2012
During this period enrollment in the program increased 79% and the Gartner Group ranked the program #12 in the nation.

Assistant Professor, Department of Management
Western Michigan University, 2001 - 2003

Assistant Professor, Department of Business Administration
University of Delaware, 1995 – 2001.

Lecturer, Department of Business Administration
University of Delaware, 1994 – 1995.

Teaching Assistant, Department of Management
Michigan State University, 1989 – 1994.

Adjunct Faculty, Master of Management Program
Aquinas College, Grand Rapids, MI, 1990 – 1993.

Engineering Supervisor/Engineer, Newport News Shipbuilding, 1983-1989.

PROFESSIONAL LICENSES

Professional Engineering License, Commonwealth of Virginia, 1989.

RESEARCH INTERESTS

Production Planning and Scheduling, Simulation, Supply Chain Management and Quality Management

PUBLICATIONS

Curkovic, S., Scannell, T., Wagner, B., and Vitek, M. "A Longitudinal Study of Supply Chain Risk Management Relative to COSO's of Enterprise Risk Management Framework." *Modern Management Science & Engineering*, Vol. 1, No. 1, February, 2013, p. 13-37.

Scannell, T., Curkovic, S., Wagner, B, and Vitek, M. "Supply Chain Risk Management within the Context of COSO's of Enterprise Risk Management Framework." *The Journal of Business Administration Research*, Vol. 2, No.1, 2013, p. 15-29.

Scannell, T., Curkovic, S., and Wagner, B. "Integration of ISO 31000: 2009 and Supply Chain Risk Management." *American Journal of Industrial and Business Management*, Vol. 3, No. 4, 2013, p. 367-377.

Curkovic, S., Scannell, T., and Wagner, B. "ISO 31000 and Supply Chain Risk Management: A Longitudinal Study." Accepted and Forthcoming: *American Journal of Industrial and Business Management*, Vol. 3, No. 6, 2013.

Curkovic, S., Scannell, T., and Wagner, B. "Using FMEA for Supply Chain Risk Management." Accepted and Forthcoming: *Modern Management Science & Engineering*, Vol. 1, No. 2, 2013.

Davis, Darwin J., Kher, Hemant V. and Wagner, Bret J., "Influence of workload imbalances on the need for worker flexibility," *Computers & Industrial Engineering*, Vol. 57, Issue 1, August 2009, pp. 319-329.

Wagner, B. J. and D. Y. Golhar, "A Practical Procedure for Developing p-Charts", *Economic Quality Control*, Vol. 21, No. 1, 2006, 13-27.

Wagner, B. J., D. J. Davis and H. V. Kher, "The production of several items on a single facility with linearly changing demand rates," *Decision Sciences*. Vol. 33, No. 3, 2002.

Wagner, B. J. and D. J. Davis, "A search heuristic for the sequence-dependent economic lot scheduling problem, *European Journal of Operational Research*, Vol. 141, No. 1, June 2002, 133-146.

Wagner, B. J. and D. J. Davis, "Discrete Sequential Search with Group Activities," *Decision Sciences*. Vol. 32, No. 4, 2001.

Wagner, B. J., "A genetic algorithm solution for one-dimensional bundled stock cutting," *European Journal of Operations Research*, Vol 117, No. 2, September 1, 1999.

Gehrlein, W. V. and B. J. Wagner, "A Two-Stage Least Cost Credit Scoring Model," *Annals of Operational Research*, Vol. 74(1997), 159-172.

Wagner, B. J. and G. L. Ragatz, "The Impact of Lot Splitting on Due Date Performance," *Journal of Operations Management*, Vol. 12, No. 1, October 1994, pp. 13-26.

PROCEEDINGS

Kher, H.K., Davis, D. J. and B. J. Wagner, "Worker Flexibility and Staffing Levels in the Presence of Workload Imbalances," *Proceedings of the 32nd Decision Sciences Conference*, San Francisco, California, November 2001.

Wagner, B.J. and D. J. Davis, "Sequencing Process Diagnostics to Minimize the Expected Problem Detection Time," *Proceedings of the 5th International Decision Sciences Conference*, Athens, Greece, July 1999.

Wagner, B.J., "Observations on Putting Production Scheduling Models into Practice," *Proceedings of the 4th International Decision Sciences Conference*, Sydney, Australia, July 1997.

Wagner, B. J., R. L. Andrews and W. V. Gehrlein, "An Integer-Programming Approach to Brand Choice," *Proceedings of the National Decision Sciences Conference*, Orlando, Florida, 1996.

Wagner, B. J. and W. V. Gehrlein, "A Variable Selection Mixed-Integer Programming Model for Discriminant Analysis," *Proceedings of the Northeast Decision Sciences Conference*, St. Croix, USVI, April 1996.

Wagner, B. J., "A Production Scheduling Model for Dual Resource Constrained Repetitive Manufacturing," *Proceedings of the National Decision Sciences Conference*, Washington, D.C., November 1993.

Wagner, B. J., "Regression-based Due-Date Prediction Intervals," *Proceedings of the 2nd International Decision Sciences Conference*, Seoul, Korea, June 1993.

Wagner, B. J. and R. M. Monczka, "The Impact of Production Schedule Variation on Supplier Performance: A Simulation Study," *Proceedings of the Midwest Decision Sciences Conference*, Lansing, Michigan, May 1993.

Wagner, B. J. and G. L. Ragatz, "Lot Splitting in an Open Job Shop Environment: Effects of Setup Times and Due Date Assignment on Flow Time and Tardiness," *Proceedings of the Midwest Decision Sciences Institute*, Indianapolis, Indiana, May 1991.

BOOK CHAPTERS

Wagner, B. J. and Thomas Rienzo, "Teaching Integrated Business Processes via ERP Configuration," in *Enterprise Systems Education in the 21st Century*, Andrew S. Targowski and J. Michael Tarn, editors. Information Science Publishing, Hershey, PA, 2007.

RESEARCH GRANTS

Developing a Model for Variable Quantity Bundled Stock Cutting with Recuts, \$2500 from MarginMax LLC. Research Grant provided to purchase computer hardware to extend bundled cutting stock research to variable quantity bundles.

TEXTBOOKS

Concepts in Enterprise Resource Planning, 4rd Edition, Ellen F. Monk and Bret J. Wagner, Published by Course Technology, 2012.

GRANTS

Low-impact SAP Exercises to Accompany *Concepts in Enterprise Resource Planning*, \$30,000, SAP America University Alliance.

Teaching the Design and Implementation of Integrated Business Processes using the IDS/Scheer Aris Toolset. With Robert Balik, Satish Deshpande, Damodar Golhar, Bernard Han, Andrew Targowski and Richard Plank. Software Grant valued at \$120,000.

Western Michigan University, Teaching and Learning with Technology Grant, 2002, \$25,000. With Robert Balik, Bernard Han, Andrew Targowski, Richard Plank and Satish Deshpande. Education in Electronic Business Integration.

University of Delaware General University Research Grant, 1997, \$5,000. Research grant to apply genetic algorithms to production scheduling problems.

University of Delaware, College of Business and Economics Information Technology Curriculum Development Grant, 2000, \$1,000. Research grant to develop statistics review web site for Data Analysis and Quality Management courses

INVITED PRESENTATIONS

"To ERP or not to ERP," Keystone Breakfast Series, Western Michigan University, March 1, 2002

“SAP at the University of Delaware,” with J. Brady and E. Monk, Technological Innovations in Business Education Conference, McIntire School of Commerce, University of Virginia, April 23-24, 1999.

“Integrating SAP into the Business Curriculum at the University of Delaware,” University Alliance Program, 1999 SAPPHIRE Conference, Philadelphia, PA, September 14-16, 1999.

AWARDS

Majdi Najm Service Award, SAP University Alliance, 2006, \$5,000 honorarium. First award recipient.

Finalist, Case Studies Award Competition, 32nd Annual Meeting, Decision Sciences Institute, San Francisco, CA, Nov. 17-21, 2001.

PRESS QUOTATIONS

“Auto Jobs a Worry for Minner,” by Bill Yingling, Wilmington News Journal, Wilmington, DE, Jan. 14, 2001.

OTHER Publications

XANEDU Coursepacks: Selected and annotated articles for coursepacks on Quality Management and Operations Management

Book Chapter. “Business and Operations Information Systems,” with Andrew Targowski and Thomas Rienzo, in *Enterprise Information Infrastructure, 3rd Ed.*

SAP UNIVERSITY ALLIANCE

SAP-University Contact for Western Michigan University’s SAP Initiative.

Initiated SAP University Alliance Program at the College of Business and Economics, University of Delaware.

ERP System Training, SAP America Inc.

Manufacturing Planning and Execution for Discrete and Repetitive, 5 days
Manufacturing Planning and Execution for Process, 5 days
Advanced Planner and Optimizer Overview, 2 days
Production Planning/Detailed Scheduling, 3 days
Basic Data for Discrete Manufacturing, 5 days
Quality Management, 3 days
Logistic Information Systems (LIS) Reporting, 2 days
Cost Management and Controlling, 5 days
Processes in Sales and Distribution, 5 days
SAP Business Workflow Introduction, Release 4.0, 2 days
R/3 Basis Technology, 2 days
Implementation of an Integrated Business Solution, 5 days
Implementation of an Integrated Business Solution-Course Setup, 5 days
SAP Accelerated SAP Implementation Methodology, 5 days
Purchasing, 5 days
Production Orders, 5 days
Capacity Planning, 5 days
Flexible Planning, 2 days
Production Planning, 5 days
Kanban, 2 days
Repetitive Manufacturing, 3 days
SAP Business Webflow, 2 days
SAP Business Webflow, Build and Use, 5 days
Software Logistics, 5 days
ABAP Workbench, 5 days
ABAP Data Dictionary, 3 days
ABAP Objects, 5 days
Processes in Logistics Execution, 3 days
Credit and Receivables Risk Management, 5 days
Pricing in Sales and Distribution, 3 days
Data Transfer Workbench, 5 days

TEACHING INTERESTS

Production Planning and Scheduling, ERP System Configuration, Introduction to Operations Management, Introduction to Management Science, Simulation, Business Statistics, Quality Management, Decision Support Systems for Operations.

STUDY ABROAD

Global Business in Japan and Thailand, Spring 2009, 2010, 2012

Assisted Dr. Thaweephan Leingpibul in the development and execution of a two-week study-abroad course in Japan (Tokyo) and Thailand.

Business Leaders Down Under, Spring 2013, 2012, 2007, 2005 and 2003.

Developed and lead a two-week study abroad course for undergraduate students in Australia. Experiences included manufacturing tours, case study competitions and leadership development activities.

Integrated Supply Management in Germany, Spring 2006.

Developed and lead a two-week study abroad course for undergraduate students in Germany. Experiences included manufacturing tours and a case study competition with students at Universität Paderborn.

Business Relations in London and Paris, Spring 2008.

Developed (with Steve Newell) and lead a two-week study abroad course for undergraduate students in London and Paris. Experiences included business visits, retail experiences and presentations at Negocia University in Paris and Brunel University in Uxbridge, UK.

VISITING PROFESSOR

Universität Paderborn, Paderborn, Germany

June 2009, 2010, 2011, 2012 and 2013.

TEACHING EXPERIENCE

MGMT 3200, Managing ERP Systems, Western Michigan University

2003 - Present

Through a hands-on Enterprise Requirements Planning (ERP) software configuration project, students learn how information technology can help a firm manage its business processes. Management issues associated with implementing ERP systems in an organization are also explored.

MGMT 4640, Manufacturing Planning and Control, Western Michigan University

2001 - Present

This course presents quantitative and computer-based methods of planning and controlling operations in manufacturing industries and service organizations. Areas covered in depth include scheduling, aggregate planning, and inventory control.

MGMT 6140, Business Process Management, Western Michigan University

2001 – 2005, 2012 to present

This is a functional core class in the MBA Program and introduces students to the increasingly integrated areas of purchasing, operations and logistics. Students work on a semester-long project to evaluate an existing business process and then develop a proposal to improve the process.

MGMT 6850, Quality Management Strategies, Western Michigan University MBA Program in Singapore, Fall 2003

This course provides an introduction to both quality management philosophies (Total Quality Management, Continuous Improvement, Six Sigma, etc.) as well as an introduction to quality management tools like process capability analysis, control charting and experimental design. This course was offered as an intensive module as part of the WMU Singapore MBA program.

BUS 3750, Production and Service Productivity, Western Michigan University Spring 2002, Summer 2005.

This course examines core business operations and their impact on the productivity of functional business areas and, in turn, the entire organization. The techniques for the design, implementation, and innovation of process improvements in business operations, for example, product design, location and capacity decisions, aggregate operations planning, just-in-time systems, supply chain management, statistical process control, and quality function deployment comprise the body of knowledge.

MGMT 6200, ERP System Configuration, Western Michigan University, Summer 2003, 2004, and 2007 through 2013.

Developed a graduate course in ERP system Configuration. Students were given a hands-on experience in the configuration of an ERP system, including setting up company data structures, general ledger accounts, cost centers, procurement and sales processes and automatic account determination. Each student created and tested their virtual company configuration using the SAP ERP system.

BUAD 820, Data Analysis and Quality Management, University of Delaware 1994 - 2000

This required MBA course covers basic statistical analysis, quality management, quality control tools, regression analysis and ANOVA. I have taught this course on-campus, off-campus at DuPont and MBNA America and in the Executive MBA Program.

BUAD 831, Design and Management of Operations, University of Delaware Summer 2001

Provides an overview of major concerns in the design and management of operations within a business. Focuses on topics such as product design, layout and process design, job design and measurement, forecasting, project, production and staff scheduling, inventory control, and materials management in both manufacturing and service industries.

BUAD 448, Decision Support Systems for Operations, University of Delaware, 1999 - 2001

Developed this course to teach the design, implementation and use of decision support systems in operations. Many of the concepts were illustrated using SAP's R/3 software. This was the first course at the University of Delaware to integrate SAP in the curriculum.

**MGT 304, Purchasing and Operations Management, Michigan State University
1992 - 1994**

This was a required course for undergraduate Materials and Logistics Management majors at Michigan State University. Material covered included basics of purchasing, trends in supply chain management, introduction to operations management, manufacturing requirements planning and forecasting.

**MGT 402, Production Planning and Scheduling, Michigan State University
1993 - 1994**

This was a required course for undergraduate Materials and Logistics Management majors at Michigan State University. Material covered included advanced concepts in manufacturing requirements planning, capacity planning and shop floor control

**MG 510, Business Research Methods, Aquinas College
1990-1993**

This was a required course for the Master of Management Program at Aquinas College. Topics included the research process, survey research, secondary data analysis and statistical analysis. Students developed a research proposal related to their work environment during the course.

**MGT 306, Analysis of Processes and Systems, Michigan State University
1989 - 1992**

This was a required course for undergraduate business majors at Michigan State University to introduce students to management science tools. Served as a teaching assistant and course coordinator. Developed instructional computer simulation program for use in course project.

SERVICE ACTIVITIES

Western Michigan University

International Business Education Committee, 2007 – present.

Faculty Senate International Education Council, 2010 – present. Chair from 2011 to present.

Executive Committee, Department of Management, 2001 – 2006.

Graduate Programs Council, 2002 – 2004.

Department and College Curriculum Committee, 2002 – 2005. Chair from 2012 to present.

Faculty Advisor, WMU Student APICS Chapter, 2003 – Present.

University of Delaware

Member, College of Business MBA Committee, 1996 – 2000.

Co-Chair, College of Business SAP Integration Committee, 1998 - 2001.

Member, College of Business Information Technology Committee, 1998 - 2001.

Member, University Committee on Instructional, Computing and Research Support Services, 1994 - 1997.

Faculty Advisor, Habitat for Humanity Campus Chapter at the University of Delaware, 1996 - 1999.

State of Delaware Quality Award, 1995 - 1999.

Examination Team Leader, Feedback Report Editor and Evaluation Committee Member.

Planning and Logistics Reengineering Project, Montell Polyolefins, 1997.

PROFESSIONAL ACTIVITIES

Reviewer: *Decision Sciences, European Journal of Operational Research, International Journal of Production Economics, International Journal of Systems Science, Production and Operations Management* and the *International Journal of Operations and Quantitative Management*.

Reviewer for McGraw-Hill/Irwin.