

**CURRICULUM VITAE**  
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*SUMMARY*

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Dr. W.C. Benton is the Edwin Dodd Professor of Management and Dean’s Distinguished Professor of Operations Management in the Fisher College of Business at The Ohio State University where he teaches courses in the Business of Healthcare, Operations Planning and Control, Purchasing/Supply Management, Procurement Planning and Control to MBAs and doctoral candidates. Professor Benton received his Ph.D. in Operations and Supply Chain Management and Quantitative Business Analysis from Indiana University–Bloomington. He has won the prestigious *Pacesetters’ Research Award*. Professor Benton has been invited to serve as Keynote Speaker for conferences and companies in Australia, Canada, India, New Zealand, Korea, Taiwan, Hong Kong, Japan, Vienna, and the United States.

Dr. Benton serves on the Board of Directors for The Healthcare Accreditation Colloquium, The Sleep Medicine Foundation, Academic Council for Healthcare Supply Chain Research, The Healthcare Services Research Group, The Supply Chain Research Group, and the House of Hope.

He is also a member of the Decision Sciences Institute, The Institute of Management Sciences, The Institute of Supply Management, The Production and Inventory Control Society, the Production and Operations Management Association, American Society for Quality Control, Society of Logistics Engineers, The Mathematical Association of America, and others.

Dr. Benton served with the Third Marine Aircraft Wing, MCAS, El Toro, California and the III Marine Amphibious Force West Pacific.

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*MAJOR HIGHLIGHTS*

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- 1) My article entitled “Determining Core Acquisition Quantities when Products have Long Return Lags” was selected as the Best Paper published in the IIE Transactions in 2014–2015.
- 2) My article, The Influence of Exchange Hazards and Power on Opportunism in Outsourcing Relationships. *Journal of Operations Management*, 30(1-2): 55-68, was the most cited article in the *Journal of Operations Management* from 2013-2016
- 3) Ranked first out of more than 700 operations management researchers in terms of quality and quantity “POM Research Productivity in U.S. Business Schools.

- 4) My article entitled “The Influence of Task-and Location-Specific Complexity on the Control and Coordination Costs in Global Outsourcing Relationships”, published in the *Journal of Operations Management*, 31(3):109-128 was the first runner up for the **Best Operations Management Paper** for 2014.
- 5) Dr. de la Chapelle’s cancer research team invited me to assist them in developing a cost-effectiveness dimension to their colorectal cancer research. It was **one of five research** projects featured in Research in Dr. Whitacre’s state of the University research address. ([https://fisher.osu.edu/article\\_archive/3749](https://fisher.osu.edu/article_archive/3749))
- 6) Article rated as one of the 10 most influential operations management/research articles during the past 40 years in the *European Journal of Operational Research*. There were more than 7,200 articles published during the 40-year period. Ranked 5 out of the top 20 articles.
- 7) Published a leading textbook on Purchasing and Supply Management. The fourth edition textbook was released on October 15, 2020 by Sage, Publications. This textbook has been adopted by more than two hundred fifty academic programs throughout the world. The book is also used globally by supply chain management practitioners.
- 8) Published a leading textbook on Construction Supply Chain Management, McGraw-Hill-Irvin. This book has been adopted by numerous civil engineering and business programs globally. The book is also used heavily by many highway construction companies throughout the world. The 2<sup>nd</sup> edition is scheduled for 2021.
- 9) Published a leading textbook book on Manufacturing Planning and Control for Supply Chain Management Purchasing and Supply Management. The textbook was released on August 4, 2013 by Cengage in Cincinnati, Ohio. The 2<sup>nd</sup> edition is scheduled for 2022.
- 10) Currently serving as an Associate Editor on seven first tier academic journals.
- 11) Currently serve as Senior Editor for two departments (Manufacturing and Industry Policy) for Production and Operations Management Journal.
- 12) Currently serving as a panel member for the National Science Foundation’s (NSF) Division of Design, Manufacturing and Innovation as well as the Healthcare Research Panel. Also serve as a member of the audit team for the National Science Foundation.
- 13) Currently serving as a panel member for the Austrian Science Foundation, Vienna, Austria (Quantitative Supply Chain Management).
- 14) Have made numerous professional service contributions, including editorial, article reviewer, outside promotion, and numerous tenure reviewer for other universities.

- 15) Have served on several AACSB external program review teams for business school accreditation
- 16) Have made numerous research presentations at conferences and universities throughout the world, and to business associations and Fortune 500 corporations.
- 17) Served as an expert witness for various high profile legal cases.
- 18) Assisted in writing procurement legislation for the State of Ohio.
- 19) Served as an expert witness for the private and public sector.
- 20) Currently serve on the board of directors in the public and private sector
- 21) Currently serve on the University Research Committee at The Ohio State University.
- 22) Currently serve on the Ohio State University Senate (2020-2025)
- 23) Currently serve on the Ohio State Athletic Council (2020-2025)

## *RECENT MEDIA APPEARANCES AND INTERVIEW*

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On Sharing Part Dimensions Information and Its Impact on Design Tolerances in Fixed-Bin Selective Assembly, [Video](https://onlinelibrary.wiley.com/doi/full/10.1111/poms.13503), <https://onlinelibrary.wiley.com/doi/full/10.1111/poms.13503>

Nerd Wallet. Internet. 5 Ways Businesses Can Get Ahead of Stalled Supply Chains. (2021) <https://www.nerdwallet.com/article/small-business/how-to-navigate-supply-chain-issues>.

VOA News – New York Bureau: On Camera Interview: Supply disruption: “A perfect economic storm”

[https://urldefense.com/v3/\\_\\_https://www.vozdeamerica.com/a/escasez-de-suministros-e-inflacion-crean-tormenta-economica/6309681.html?nocache=1\\_\\_;!!KGKeukY!ko0P2MD8UluvMC7SMareICnt5uDnt07udwQjB2wYNaFrKiqLpa-2MiFtFkQzsJcD\\$](https://urldefense.com/v3/__https://www.vozdeamerica.com/a/escasez-de-suministros-e-inflacion-crean-tormenta-economica/6309681.html?nocache=1__;!!KGKeukY!ko0P2MD8UluvMC7SMareICnt5uDnt07udwQjB2wYNaFrKiqLpa-2MiFtFkQzsJcD$)

Fortune. Magazine. 1. No chicken nuggets, no PB&J: Supply chain issues are on the menu at schools across the country. (2021) <https://fortune.com/2021/10/21/supply-chain-issues-school-lunches/>.

10TV. TV. On Camera Interview: The global supply chain blockage and its effects on the auto industry. (December 2021).

Spectrum News 1. TV. On Camera Interview: Lordstown’s Deal to sell plant to Taiwan’s Foxconn, (September 2021) 2021, <https://latakoo.com/-/view/10607677/video/83821f32d1ac6e3f6154c194b7a5ec44/benton.1%40osu.edu>.

Spectrum News 1. TV. On Camera Interview: Employers step up recruiting to prepare for busy holidays, September 15, 2021 <https://spectrumnews1.com/oh/columbus/news/2021/09/14/-employers-step-up-recruiting-to-prepare-for-busy-holidays>

Spectrum News 1. TV. On Camera Interview: Lordstown Motors. (July 2021) <https://latakoo.com/-/view/9203654/video/46f08c1c8c188819b41a717893e69839/benton.1%40osu.edu>

### **1. Supply Chain Management**

With respect to Supply Chain Management, I am interested in strategic integrative purchasing management, supply chain power supplier evaluation, and supply chain information sharing. Exploration of the effects of power on factors of supplier satisfaction will provide the key to understanding the power-satisfaction link in supply chain relationships. This research stream shows how the buyer-seller relationship affects supplier satisfaction. In doing so, previous satisfaction and power literature is pulled together to demonstrate that the power-satisfaction variable must be included in any examination of supply chain partnerships. The three primary objectives of this research are to establish how the different “bases of power” affect the satisfaction of selling firms, investigate how power-driven relationships affect supplier satisfaction, and measure the effect of power influences on supplier satisfaction in the automobile industry. Each of these research objectives was achieved. This research establishes the first empirical evidence for the measurement of power-driven supplier satisfaction. **(See refereed articles below)**

### **2. Health Care Issues**

Hospitals are complex organizations providing a multitude of services to patients, physicians, and staff. These services include dietary, linen, housekeeping, physical plant engineering, pharmacy, laboratory, inpatient treatment (nursing units), surgery, radiology, administration, and others. Each area has specific and often unique materials and supply needs, creating a requirement in these facilities for a supply management system that can provide the necessary supplies when needed. In the current climate of increasing health care costs, systems inventory must be optimized without sacrificing the level of service provided. The functions of inventory in the hospital setting, methods of inventory management utilized, factors that are unique to the health care setting, and current trends in hospital inventory management will be examined.

I am also interested in operational analysis for the health care industry. Informed buyers usually seek the highest perceived value at the lowest cost. Both value and cost are concerns of physicians, patients, regulatory agencies, and third-party payers when considering cardiac surgical services. Thus, a quantitative approach to related quality control issues in the health care industry is needed. I am also interested in healthcare delivery systems operations management. **(See refereed articles below)**. Also see ([https://fisher.osu.edu/article\\_archive/3749](https://fisher.osu.edu/article_archive/3749))

### **3. Closed-loop Supply Chains**

An important problem faced in closed-loop supply chains is ensuring a sufficient supply of reusable products (i.e., cores) to support reuse activities. The sourcing of cores is a complex set of activities that requires careful coordination to avoid the uncontrolled accumulation of core inventory, or shortages leading to unacceptable levels of customer service. In this study, we considered an OEM that also acts as a remanufacturer, and developed a generalized forecasting approach to determine the returns of used products. The forecasts are used in a newsvendor model to account for product returns in determining the quantity of cores to acquire from core brokers. Due to legislation or contractual obligations, the remanufacturer is often required to accept all product returns from customers, irrespective of the quality of the returns. Sourcing in

such an environment is difficult due to the quantity and timing uncertainties of cores from both the primary (i.e., customers) and secondary (i.e., suppliers) sources of cores. Predicting the proportion of product returns is important for procurement decisions, capacity planning, and disposal management in closed-loop supply chains. (**See refereed articles below**). Also see (<https://apra.org/?Papers>) *Surveys*, (<http://www.srclogisticsinc.com/news/2016/4/14/core-acquisitions-planning-in-the-automotive-parts-remanufacturing-industry>)

#### **4. Inventory Management**

Quantity discounts provide a practical foundation for supply chain inventory policies, improving the supplier's profit and reducing the buyer's inventory cost simultaneously. Traditional quantity-discount research, which deals with inventory coordination between a buyer and a supplier, is extended to a stationary stochastic environment. This research shows that the magnitude of the optimal discounts scheduled by the deterministic quantity discount models may not be large enough to cover the buyer's additional inventory stocking risks under uncertain conditions. As a result, the buyer's total inventory cost may often increase rather than decrease. In contrast, the proposed model allows the supplier to identify the discount level, which shares the buyer's amplified risk associated with temporary overstocking and ensures that both buyer and supplier benefit economically. Supply managers must establish procedures to determine what quantity and when to purchase when discount schedules are available. (**See refereed articles below**).

#### **5. Online Shopping Networks**

The home shopping industry, including television networks, electronic retailing, and mobile shopping, is expected to grow by 17% from 2021 to 2026, leveraged by the rapid advance of information and communication technologies. The global outbreak of COVID-19 pandemic has accelerated consumers' embracing of home shopping as a safe and viable shopping option. The television home shopping network is a dynamic form of retail shopping. Since a network company operates 24 hours a day, following a fixed broadcast schedule, there is no room to shorten or extend the sales window (one to two hours) for each product. The rigid schedule magnifies the problem of inventory overage since the leftover products may not have a second chance to be on the air. Intense parasocial interactions between the show hosts and consumers are another unique characteristic that often motivates consumers to make planned, unplanned, or even impulse purchases. It is not uncommon to observe an early sell-out (i.e., product shortage) in the middle of broadcasts, a hidden problem of lost sales. In economics, a product shortage is considered a temporary state of market disequilibrium in which the demand for a product exceeds supply due to the uncertain nature of demand. In the operations management (OM) discipline, a product shortage is treated almost the same as a stockout (inventory underage), an operational failure in customer service. (**See refereed articles below**)

#### **6. Fixed-Bin Selective Assembly Manufacturing Systems**

Fixed-bin-selective-assembly (FBSA) is a method for producing high tolerance specification assembly from lower precision components for automotive, mechanical, and electronic equipment. This study investigates the design tolerance implications of an external supplier sharing dimensional information about shipped parts to be used for FBSA. An approach for reducing surplus components in FBSA is to predictively adjust the assembler's manufacturing process so that components produced internally can better match those of incoming parts from an external supplier.

However, it is unclear how the assembler's use of timely dimensions information about the mean, variance, or both of an externally sourced mating part to perform such adjustments, would influence procedures for setting tolerances in an FBSA context. Particularly when such information may either not be fully shared or be shared for a limited period by an external supplier. **(See refereed articles below)**

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## EDUCATION

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Doctor of Business Administration, Indiana University—Concentration in Operations Management and Operations Research. Studies included Service Operations, Production Planning and Control, Production Process Analysis, Logistical Systems and Quantitative Methods. Received joint degree in Operations & Systems Management and Quantitative Business Analysis

Master of Business Administration, Indiana University—Concentration in Quantitative Business Analysis. Studies emphasized the application of Operations Research Techniques to Operations Management.

Bachelor of Business Administration, Texas Christian University—Concentration in Quantitative Business Analysis, graduated with honors.

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## ACADEMIC APPOINTMENTS

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The <i>Edwin M. Dodd Professor of Operations Management Department</i> , The Ohio State University	<b>September 2006-present</b>
<i>Dean's Research Professor</i> , Operations Management Department, The Ohio State University	<b>June 1997-present</b>
<i>Professor</i> , Operations Management Department, The Ohio State University	<b>June 1991-June 1997</b>
<i>Associate Professor</i> , Operations Management Department, The Ohio State University	<b>June 1986-June 1991</b>
<i>Assistant Professor</i> , Operations Management Department,	

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## PUBLICATIONS

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### BOOKS

Benton, W.C. *Purchasing and Supply Chain Management*, 4<sup>th</sup> ed., Sage, Publications (October 2020)

Benton, W.C. (2013, April). *Supply Chain Focused Manufacturing Planning and Control for Supply Chain Management*, 2<sup>nd</sup> ed. Cengage/Southwest. (Forthcoming 2021)

Benton, W.C. (2013, April). *Supply Chain Focused Manufacturing Planning and Control for Supply Chain Management*. Cengage/Southwest.

Benton, W.C. (2013, April). *Purchasing and Supply Chain Management*, 3<sup>rd</sup> ed., McGraw-Hill Irwin.

Benton, W.C. (2014, January). *Purchasing and Supply Chain Management*, 3<sup>rd</sup> ed., McGraw Hill Irwin.

Benton, W.C. (2010, January). *Purchasing and Supply Chain Management*, 2<sup>nd</sup> ed., McGraw Hill Irwin.

Benton, W.C., and Linda McHenry. (2013, August). *Construction Supply Chain Management*, McGraw-Hill Irwin. 2<sup>nd</sup> ed. Cengage/Southwest. (Forthcoming 2021).

Benton, W.C. (2006, July). *Purchasing and Supply Management*, McGraw-Hill Irwin.

### **Refereed Book Chapters**

Benton, Jr., W. C. (2020). “Power and Buyer Seller Relationships” *The Oxford Handbook of Supply Chain Management*, (Forthcoming June 2021)

Benton, Jr., W. C. (2010). “Materials Requirements Planning Systems” In *Encyclopedia of Operations Research and Management Science* (December 2010).

Benton, Jr., W. C. (2010). “Push and Pull Production Systems” In *Encyclopedia of Operations Research and Management Science* (December 2010).

Benton, Jr., W. C. (2010). “Just-In-Time/Lean Production Systems” In *Encyclopedia of Operations Research and Management Science* (December 2010).

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### **Refereed Journal Articles**

Toyin, C., Benton, Jr, W.C. (2024). Synchronizing the Supply of Components for Automotive Assembly amid Chip Shortages and Other Supply Delays, *Production and Operations Management* (<https://doi.org/10.1177/10591478241260432>)

Toyin, C., Benton, Jr, W.C. (2024). The Impact of Sharing Imprecise Information on Fixed-Bin Selective Assembly. *IIE Transactions* (<https://doi.org/10.1080/24725854.2024.2352575>)

Lee, S., Shin, H., Benton, JR, W. C. (2023). The Influence of Home Shopping Television Network Impulse Buying on Product Shortages. *Journal of Operations Management*, 69(7), 1039-1208

Skowronski, K. C., Benton, JR, W. C. Handley, Sean (2022). The Influence of Culture, Opportunism, and Power on Global Outsourcing Relationships *Journal of Operations Management Operations Management*. *Journal of Operations Management*, 68(3), 270-301

Toyin Clotley (2021) and Benton, JR, W. C. On Sharing Part Dimensions on a Fixed Bin Selective Assembly Procedure, *Production and Operations Management* 30 (11), 4089-4904

Schweiteman, M., et.al. (2021). Supply Chain Integration for Middle-Market Firms: A Qualitative Investigation, *the International Journal of Logistics Management*, December 2021. <https://www.emerald.com/insight/0957-4093.htm>

Benton, JR, W. C. Prahinski, CA, Y. Fan (2020). The Influence of Supplier Development Programs on Supplier Performance, *International Journal of Production Economics*. Vol 230, December 2020.

Skowronski, K. C., Benton, JR, W. C. Hill, J. (2020). Perceived Supplier Poaching and Shirking in Outsourcing Relationships in Emerging Economies *Journal of Operations Management* 66 (7-8) 989-1023.

Clotley, T., and Benton, JR, W. C., (2020). Recommendations for Assessing Unit Non-response Bias in Dyadic Focused Empirical Supply Chain Management Research *Decision Sciences* 51 (2) 423-447

Clotley, T., and Benton, JR, W. C., (2020) Sharing Quality-Distribution Information for the Selective Assembly of Intermediary Components in the Automotive Industry *Production and Operations Management* 29 (1), 174-191

Handley, S. M., Benton, W.C., de Jong. J (2019). Dependence Perceptions, Power, Opportunism with Professional Services Outsourcing, *Production and Operations Management*. *Production and Operations Management*, 28 (7), 1692-1715

Wetzstein, A., Hartman, E., Benton, JR, W. C., Edda Feisel (2019). Uncovering the supplier selection knowledge structure: A systematic citation network analysis from 1991 to 2017 *Journal of Purchasing and Supply Management*, 25 (4), 100519

De Jong, J. L. Benton, JR, W. C (2018). Dependence and Power in Healthcare Equipment Supply Chains, *Health Care Management Science March, 5, 2018, 3-5, 1-14.*

Skowronski, K. C., Benton, JR, W. C. (2018). The influence of intellectual Property Rights on Poaching in Manufacturing Outsourcing. *Production and Operations Management*. *Production and Operations Management* 27 (3), 531-552

Wetzstein, A., Hartmann, E., Benton, Jr., WC & Nils-Ole Hohenstein (2016) A systematic Assessment of supplier selection literature – state-of-the-art and future scope. *International Journal of Production Economics*, 182, 304-323

Shin, H., Park, S., Lee, E., & Benton, Jr., W.C. (2015). A Classification of the Literature on the Planning of Substitutable Products. *European Journal of Operational Research*, 246(3), 686699.

Clotey, T., & Benton, W.C. (2014). Determining Core Acquisition Quantities When Products Have Long Returns” *IIE Transactions*, Vol. 46: 880-893.

Benton, Jr., W. C. (2013). A Profitability Evaluation of America’s Best Hospitals, 2000-2008. In Print, *Decision Sciences Journal*, 44(6):1139-1153.

Handley, S., & Benton, Jr., W. (2013). The Influence of Exchange Hazards and Power on Opportunism in Outsourcing Relationships. *Journal of Operations Management*, 30(1-2): 55-68.

Clotey, T., Benton, W.C., & Srivastava, R. (2012). Forecasting Product Returns for Re-Manufacturing Operations. *Decision Sciences Journal*, 43(4):589-614

Handley, S., & Benton, Jr., W. (2012). Control, Coordination, and Complex Global Services. *Journal of Operations Management*.

Handley, S., & Benton, Jr., W. (2012). Mediated Power and Outsourcing Relationships. *Journal Of Operations Management*, (30), 253-267

T Schoenherr, SB Modi, WC Benton, CR Carter, TY Choi, PD Larson (2013), Research Opportunities in and Supply Management purchasing International Journal of Production Research 50 (16), 4556-4579

Handley, S., & Benton, Jr., W. (2013). The Influence of Exchange Hazards and Power on Opportunism in Outsourcing Relationships. *Journal of Operations Management*, 30(1-2): 55-68.

Zhou, H., Benton, W. C., Schilling, D. A., & Milligan, G. (2011). An Empirical Test of the Supply Chain Operations Reference Model. *Journal of Business Logistics* 32(4): 332-344.

Clotey, T., Benton, W.C Guidelines for Improving the Power Values of Statistical Tests for Nonresponse Bias Assessment in OM Research. *Decision Sciences*, 44(4), 797-812.

Benton, Jr., W. C. (2013). A Profitability Evaluation of America’s Best Hospitals, 2000-2008. *Decision Sciences*, 44(6), December

Shin, H., & Benton, Jr., W. (2010). Evaluating Quantity Discounts under Stochastic Demand. *Management Science and Financial Engineering* 16 (3), 21-47

Handley, S., Benton, Jr., W. (2009). Unlocking the Business Outsourcing Process Model. *Journal of Operations Management*, 27(5): 344-361.

Shin, H., Benton, Jr., W. (2009). Supplier Based Reduction Strategy for Supply Chain Management. *Computers and Operations Research*, 36(8): 2462-2471.

Zhou, H., Benton, Jr., W. (2007). Supply Chain Practice and Information Sharing. *Journal of Operations Management*, 25(6):1195-1208.

- Shin, H. J., Benton, Jr., W. (2007). A Quantity Discount Approach to Supply Chain Coordination. *European Journal of Operational Research*, 108(2): 601-616.
- Benton, W. C., & Ling Li. (2006). Hospital Technology and Nurse Staffing Decisions. *Journal of Operations Management*, 24(5): 676-691.
- Benton, W. C., Williams, T. E., & Greenberger, S. (2006). A Snapshot of the Analysis of Profitability for America's Most Successful Hospitals. *American College of Physician Executive*, Vol. 3, Fall 2006.
- Benton, W. Hempel and de la Chapelle. (2005, August). Screening for Lynch Syndrome. *New England Journal of Medicine*, Vol. 353, No. 5.
- Benton, W. C., & Maloni, M. (2005). The Influence of Power-Driven Buyer/Seller Relationships on Supply Chain Satisfaction. *Journal of Operations Management*, 23(1):1-22.
- Shin, H. J., & Benton, W. C. (2004). Quantity Discount Based Inventory Coordination: Effectiveness and Critical Environmental Factors. *Production and Operations Management*, Vol. 12.
- Prahinski C., & Benton, W. C. (2003). Supply Chain Communication Strategies. *Journal of Operations Management*, 22(1): 39-62.
- Murthy, N., Benton, W. C., & Rubin, P. A. (2003). Offsetting Inventory Cycles of Item Sharing Storage. *European Journal of Operational Research*, 150(2): 304-319.
- Murthy, N., Benton, W. C., & Rubin, P. A. (2003). Offsetting Inventory Cycles of Item Sharing Storage. *European Journal of Operational Research*, Vol. 147.
- Li, Ling, & Benton, W.C. (2003). Strategic Hospital Capacity Management Decision: Emphasis on Cost Control and Quality Enhancement. *European Journal of Operational Research*, 146(3): 596-614.
- Rubin, P. A., & Benton, W.C. (2003). Evaluating Jointly Constrained Order Quantity Complexities for Incremental Discounts. *European Journal of Operational Research*, 149(3): 557-570.
- Li, Ling, & Benton, W.C. (2002). The Impact of Strategic Operations Management on Community Hospital Performance. *Journal of Operations Management*, Vol. 20, 389-408.
- Li, Ling, & Benton, W.C. (2002). Strategic Hospital Capacity Management Decision: Emphasis on Cost Control and Quality Enhancement. *European Journal of Operational Research*, Vol 146, 596-614.
- Rubin, P. A., & Benton, W.C. (2002). Evaluating Jointly Constrained Order Quantity

Complexities for Incremental Discounts. *European Journal of Operational Research*, Vol. 147.

Maloni, M., & Benton, W. C. (2000). Power Influences in the Supply Chain. *Journal of Business Logistics*, 21(1).

Guide, D., Srivastava, R., & Benton, W. (2000, May-June). Supply Chain Management for Recoverable Manufacturing Systems. *Interfaces*, 30(3):125-142.

Jayaramaman, V., Srivastava, R., & Benton, W.C. (1999). Supplier Selection and Order Quantity Allocation: A comprehensive model. *The Journal of Supply Chain Management*, Vol. 35, No. 2.

Benton, W. C., & Shin, H. J. (1998). Manufacturing Planning and Controls: The Evolution of MRP and JIT Integration. *European Journal of Operational Research*, Vol. 109: 2-17.

Srivastava, R., & Benton, W. C. (1998). Purchase Quantity Discounts and Open Order Rescheduling: The Hidden Economic Tradeoffs. *European Journal of Operational Research*, Vol. 110: 261-271.

Williams, T., Fanning, W. J., Benton, W.C., et al. (1998). What is the Marginal Cost for? 'Marginal Risk I Cardiac Surgery. *Annals of Thoracic Surgery*, Vol. 66:1969-81.

Jayaraman, V. J., Benton, W. C., & Srivastava, R. (1998). A Joint Optimization of Product Variety and Ordering Approach. *Computers & Operations Research*, 25(7/8): 557-566.

Maloni, M., & Benton, W. C. (1997). Supply Chain Partnerships: Opportunities for Operations Research. *European Journal of Operational Research*, Vol.101: 419-429.

Benton, W. C., & Park, S. W. (1996). A Classification of Literature on Determining the Lot Size under Quantity Discounts. *European Journal of Operational Research*, Vol. 92: 219-238.

Li, Ling, & Benton, W.C. (1996). Performance Measures in Health Care Organizations. *European Journal of Operational Research*, Vol. 93: 449-468.

Benton, W. C., & Kim, J. S. (1995, January). Lot Size Dependent Lead Times in a Q, R Inventory System. *International Journal of Production Research*, 33(1): 41-58.

Williams, T., Fanning, W. F., Benton, W. C., et al. (1994). Can We Afford to do Cardiac? Operations in 1996? A Risk-Reward Curve for Cardiac Surgery. *Annals of Thoracic Surgery*, Vol. 58: 815-21.

Lin, N. P., Krajewski, L., Leong, K., & Benton, W.C. (1994). The Effects of Environmental Factors on the Design of Master Production Scheduling Systems. *The Journal of Operations Management*, 33(1): 41-58. *(This paper won the 1995 Stanly T. Hardy Best Paper Award.)*

Siferd, S. P., & Benton, W. C. (1994). A Planning Model for Short Term Nurse Staffing Needs. *European Journal of Operational Research*, Vol. 74: 519-527.

Williams, T. E., Benton, W. C., et al. (1994). Quantitative Quality Descriptors for an Open Heart Surgical Program. *Quality Progress*, April.

Rubin, P. A., & Benton, W. C. (1993). Jointly Constrained Order Quantities with All Units Discounts. *Naval Research Logistics*, Vol. 40: 255-278.

Benton, W.C., & Srivastava, R. (1993). Product Structure Complexity and Inventory Storage Capacity on the Performance of Multi-Level Manufacturing Systems. *International Journal of Production Research*, 31(11): 2531-2545.

Benton, W.C. (1993). Time and Cost Based Priorities for Job Shop Scheduling. *International Journal of Production Research*, 31(7): 1509-1519.

Chiang, C., & Benton, W.C. (1994). Sole Sourcing versus Multiple Sourcing Under Stochastic Demands and Lead Times. *Naval Research Logistics Quarterly*, 41(5): 609-624.

Benton, W.C. (1991). Safety Stock and Service Levels in Periodic Review Inventory Systems. *Journal of Operational Research Society*, 42(12): 1087-1095.

Benton, W.C., & Raced, M. D. (1992). The Vehicle Scheduling Problem with Intermittent Demands. *Computers and Operations Research*, 19(5): August.

Kim, J. S. D., Ritzman, L. P., Benton, W. C., & Snyder, D. (1992). Linking Product Planning and Process Design Decisions. *Decision Sciences*, Vol. 23: winter, 44-60.

Malhotra, M., Ritzman, L. P., Benton, W. C., & Leong, G. K. (1992, May 11). A Model for Scheduling Postal Distribution Employees. *European Journal of Operational Research*, 58(3): 381-432. (***This paper won the 1992 Decision Sciences Best Paper Award.***)

Hill, A.V., & Benton, W.C. (1992). Modeling Intra-City Time Dependent Travel Speeds. *Journal of Operational Research Society*.

Siferd, S. P., & Benton, W.C. (1992). Workforce Staffing and Scheduling Hospital Nursing Models. *European Journal of Operational Research*, 60(3): August 10.

Siferd, S. P., Benton, W. C., & Ritzman, L. (1992). Strategies for Service Systems. *European \ Journal of Operational Research*, 56(5): 241-303.

Benton, W. C. (1991). Quantity Discount Decisions Under Conditions of Multiple Items, Multiple Suppliers and Resource Limitations. *International Journal of Production Research*, 29(10): 1953-61.

- Benton, W. C. (1991). Statistical Process Control and the Taguchi Method: A Comparative Evaluation. *International Journal of Production Research*, 29(9): 1761-70.
- Weber, C. A., Current, J. R., & Benton, W. C. (1991, January). Vendor Selection Criteria and Methods. *European Journal of Operational Research*, 50(1): 2-18.
- Srivastava, R., & Benton, W. C. (1990). The Location Routing Problem: Considerations in Physical Distribution Design. *Computers and Operations Research*, 17(5): May.
- Benton, W. C., & Krajewski, L. (1990). Vendor Performance and Alternative Manufacturing Environment. *Decision Sciences*, 21(2): Spring.
- King, B., & Benton, W. C. (1988). Master Production Scheduling, Customer Service and Manufacturing Flexibility in an Assemble-to-Order Environment. *International Journal of Production Research*, 26(6): 1015-1036.
- Johnson, W., & Benton, W. C. (1988). Bargaining and Negotiations. *The Handbook of Economic Psychology*. North Holland: Karl-Erik Warneryd, Editor Warnery; and Boston: Klumen Academic Publishers.
- King, B., & Benton, W.C. (1987). Alternative Master Production Scheduling Techniques in a Assemble-to-Order Environment. *Journal of Operations Management*, Vol. 7, Nos. 1 and 2, October.
- Benton, W. C. (1986). Purchases Discount Research in MRP Systems. *International Journal of Production Management*, Vol. 6, No. 1.
- Benton, W. C. (1986). Evaluating a Modified Heuristic for the Multiple-Vehicle Scheduling Problem. *IIE Transactions*, March.
- Benton, W. C. (1985). Multiple Price Breaks and Alternative Purchase Lot Sizing Procedures in MRP Systems. *International Journal of Production Research*, Vol. 23, No. 5.
- Benton, W. C., & Srivastava, R. (1985). Product Structure Complexity and Multi-Level Lot Sizing in MRP Systems Using Alternative Costing Policies. *Decision Sciences*, Vol. 16, No. 4, Fall.
- Benton, W. C., & Srikar, B. (1985). Experimental Study of Heuristic Algorithms for Solutions for the Multiple Vehicle Routing Problem. *Journal of Business Logistics*, Vol. 6, No. 1.
- Benton, W. C. (1983). An Experimental Analysis of Purchase Quantity Discount Procedures in an MRP Environment. *Journal of Purchasing and Materials Management*, Vol. 19, No. 1, Spring.
- McFillen, J., Reck, R., & Benton, W. (1983). An Experiment in Purchasing Negotiations. *Journal of Purchasing and Materials Management*, Vol. 19, No. 2, summer.

Benton, W. C., & Whybark, D.C. (1982, January). Purchasing Discounts and Material Requirements Planning (MRP). *Journal of Operations Management*.

### **Panelist for Academic Conference**

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2022

"Understanding the home shopping industry, including television networks, electronic retailing, and mobile shopping, is expected to grow by 17% from 2021 to 2026, leveraged by the rapid advance of information and communication technologies. National POMS Meeting.

2021

The Next Frontiers in Strategic Sourcing." (November 2021). Benton, JR, W. C., Tobias Schoenherr, Michigan State University & Stephan Wagner, ETH Zurich (Panelist), National DSI Conference, Virtual

*Importance of Scholarly Writing/Publishing in High Impact Journals*" session, during the ODI 2<sup>nd</sup> Annual Faculty Professional Development Retreat, Ohio State University September 10, 2021

Drs. Agarwal, Benton and Unzueta Graduate/Professional Student/Faculty Panel Discussion on Academic scholarship, February 23, 2021

2019

"Implementation of Successful Global Sourcing", Panel Discussion organized at the 2019 DSI Meeting, Washington, DC

2018

"Managing Buyer-Supplier Relationships", Panel Discussion organized at the 2018 DSI Meeting, Chicago.

2017

"Emerging Horizons in Managing Buyer-Supplier Relationships", Panel Discussion organized at the 2017 DSI Meeting, Washington DC -5 panelists participated.

2016

"The Future of Healthcare Research" Panel Discussion organized For the 2016 POMS Meeting, Orlando, Florida, 2016 (5panelists: W.C. Benton, Aleda Roth, Ed Anderson, Chandrasekaran, Aravind, and Joglekar, Nitin

2016

"Sourcing in the Analytics Driven Economy," Panel Discussion organized at the 2016 POMS Meeting, Orlando, Florida, 2016 (5panelists: W.C. Benton, Aleda Roth, Nada Sanders, Stephan Wagner, Sri Talluri and Ram Narishiman

2014

Frontiers in Purchasing Research for the Global economy," Panel Discussion organized at the 2014 POMS Meeting, Seattle, 2014 (panelists: W.C. Benton, Craig R. Carter, Thomas Y. Choi, Paul Larson, Vincent A. Mabert, Stephan Wagner

## Refereed Proceedings Articles

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Zhou, H., W.C. Benton, N. Hall. 2014. Sharing production progress information in supply chains. In Enterprise Systems Conference Proceedings, *IEEE Xplore*, 130-135.

Clottey, Toyin and Benton, W. C. (2011, November). Core Acquisitions in Remanufacturing Supply Chains. National DSI, Boston.

De Jong, J. and Benton, W. C. (2011, November). The Influence of Power in the Medical Supply Chain, National DSI, Boston.

Benton, W. C. (2011). Emergency Vehicle Dispatching with Time-Dependent Travel Times. POMS, Reno, Nevada.

Benton, W. C. (2011). An Economic Analysis of Respiratory Care Aerosol Medication. POMS, Reno, Nevada.

Clottey, T., and Benton, W. C. (2011). Supply Arrangements for Acquiring Cores in Remanufacturing Supply Chains. POMS, Reno, Nevada.

Handley, S., and Benton, Jr., W. (2011). Antecedents of Buyer Reliance on Mediated Supply Chain Power with Outsourcing. POMS, Reno, Nevada.

Clottey, T., Benton, W. C., Srivastava, R., and P. Ward. (2010, November). Core Acquisitions Planning for the Automotive Parts Remanufacturing Industry Proceedings, National DSI, San Diego, California.

Benton, W. C., and Prahinski. (2010, May). The Influence of Supplier Development on Buyer-Supplier Relationships. POMS, Vancouver, Canada.

Benton, W. C. (2010, May). An Empirical Test of the Supply Chain Operations Reference Model. POMS, Vancouver, Canada.

Benton, W. C., and Park, A. (2009, November). Evaluating Manufacturing Approaches for Healthcare Problems. National DSI, New Orleans, Louisiana.

Handley, S., and Benton, Jr., W. (2008, November). Unlocking the Business Outsourcing Process Model. Proceedings, National DSI.

Benton, W. C., and Michael Maloni. (2008, May). Relationship Performance in the Automobile Supply Chain. POMS, San Diego, California.

Shin, H., and Benton, Jr., W. (2006). Evaluating Quantity Discounts Under Stochastic Demand. Proceedings, National DSI.

- Zhou, H., and Benton, W. C. (2005, November). Supply Chain Information Sharing. Proceedings, National DSI, San Francisco, California.
- Murthy, N., and Benton, W. C. (2005, November). MPS and Product Variety. Proceedings, National DSI, San Francisco.
- Li, Ling, and Benton, W. C. (2005, November). Hospitals and Profitability. Proceedings, National DSI, San Francisco.
- Maloni, M., and Benton, W. C. (2004, November). Supply Chain Disruptions. Proceedings, National DSI, Boston, Massachusetts.
- Benton, W. C. (2003, November). Supply Chain Pegging. Proceedings, National DSI, Washington D.C.
- Shin, H. J., and Benton, W. C. (2003, November). Supplier Based Reduction Strategy for Supply Chain Management. Proceedings, National DSI.
- Prahinski C., and Benton, W. C. (2002, November). Supply Chain Communication Strategies. Proceedings, National DSI, San Diego, California.
- Shin, H. J., and Benton, W. C. (2002, November). Temporary Quantity Discounts and Supply Chain Inventory Coordination under Stochastic Demand. National DSI, San Diego.
- Prahinski C., and Benton, W. C. (2001, November). Supply Chain Communication Strategies. Proceedings, National DSI, San Francisco, California.
- Shin, H. J., and Benton, W. C. (2001, November). Temporary Quantity Discounts and Supply Chain Inventory Coordination under Stochastic Demand. National DSI, San Francisco.
- Prahinski C., and Benton, W. C. (2000, November). Vehicle Routing Decisions for Food and Beverage Distribution. Proceedings, National DSI, Orlando, Florida.
- Murthy, N., Benton, W. C., and Rubin, P. (2000, November). Offsetting Inventory Cycles in a Storage Space Constrained Environment. Proceedings, National DSI, Orlando, Florida.
- Benton, W. C., and Maloni, M. (1999, November). On the Measurement of Inter-Firm Power the Supply Chain. Proceedings, National DSI, New Orleans, Louisiana.
- Shin, H. J., and Benton, W. C. (1999, November). Supplier Performance and Source Selection. Proceedings, National DSI, New Orleans.
- Benton, W. C., Guide, D., and Srivastava, R. (1997, November). Recoverable Product Environments and Systems for Reuse: Integrating Environmental Issues. Proceedings, National DSI, San Diego.

Shin, H. J., and Benton, W. C. (1998, November). Supplier Performance and Source Selection in A Coordinated Lean Manufacturing Environment. Proceeding, National DSI, Las Vegas, Nevada.

Benton, W. C., Guide, D., and Srivastava, R. (1997, November). Recoverable Product Environments and Systems for Reuse: Integrating Environmental Issues. Proceedings, National DSI, San Diego, CA.

Maloni, M., and Benton, W. C. (1997, November). Power Influences within the Supply Chain. Proceedings, National DSI, San Diego, CA.

Maloni, M., and Benton, W. C. (1997, November). Supply Chain Partnerships: Opportunities for Operations Research, National DSI, San Diego, CA.

Benton, W. C., and Park, S. W. (1996, November). Quantity Discount Research Issues. Proceedings, National DSI, Orlando, Florida.

Jayaraman, V., Srivastava, R., and Benton, W. C. (1996, November). A Multi-Item Model for Simultaneous Supplier Selection and Order Quantity Allocation. Proceedings, National DSI, Orlando, Florida.

Li Ling, Benton, W. C., Collier, D. A., and Keong, L. (1996, November). Capacity Planning in \ Health Care Organizations, Proceedings, National DSI, Orlando, Florida.

Guide, D., Srivastava, R., and Benton, W. C. (1996, November). Purchasing in a Remanufacturing Environment. Proceedings, National DSI, Orlando, Florida.

Duray, R., and Benton, W. C. (1995, December). Supply Chain Management: Channel Inequities. Proceedings, National DSI, Boston, Massachusetts.

Rubin, P. A., and Benton, W.C. (1995, November). Jointly Constrained Order Quantities with Incremental Discounts. Proceedings, National (DSI), Boston, MA.

Murthy, N., Benton, W. C., and Srivastava, R. (1995, November). Multiple-Buyer Discount Pricing for Suppliers Operating in a Make-to-Stock Environment. Proceedings, National (DSI) Boston, MA, November 1995.

Rubin, Paul A., and Benton, W. C. (1994, November). A Partial Enumeration Algorithm for Static Capacitated Location Problems. Proceedings, National (DSI) Honolulu, Hawaii.

Srivastava, R., Jayaraman, V., and Benton, W. C. (1994, November). An Improved Algorithm For Determining Order Quantity Under Incremental Quantity Discounts. Proceedings, National (DSI) Honolulu, Hawaii.

Benton, W. C., and Rubin, P. A. (1993, November). A Heuristic for the Single Echelon Dynamic

- Capacitated Facility Location Problem. Proceedings, National (DSI), Washington, D.C.
- Srivastava, R., and Benton, W. C. (1993, November). Purchase Quantity Discounts and Open Order Rescheduling. Proceedings, National (DSI), Washington, D.C.
- Benton, W. C. (1992, November). Cost Based Priorities for Job Shop Scheduling. Proceedings, National (DSI), San Francisco, CA.
- Benton, W. C., and Srivastava, R. (1992, November). Product Structure Complexity and Multi Level Capacity Planning. Proceedings, National (DSI), San Francisco.
- Kim, J. S. D., and Benton, W. C. (1992, November). Inventory Management with Lot Size Dependent Lead Time. Proceedings, National (DSI), San Francisco, CA.
- Siferd, S. P., Ritzman, L. P., and Benton, W.C. (1992, November). Exploring Workforce Flexibility and Other Environmental Issues in Hospital Nursing Units. National (DSI), San Francisco, CA.
- Benton, W. C. (1991, November). Safety Stock and Service Levels in Periodic Review Inventory Systems. Proceedings, National (DSI), Miami, Florida.
- Benton, W. C., and Raced, M. D. (1991, November). The Vehicle Scheduling Problem with Intermittent Demands. Proceedings, National (DSI), Miami, Florida.
- Baker, T., and Benton, W. C. (1991, November). Solving the Dynamic Warehouse Location Problem. Proceedings, National (DSI), Miami, Florida.
- Siferd, S. P., Benton, W. C., and Ritzman, L. P. (1991, November). A Review of Characteristics Of Strategies for Service Operations. Proceedings, National (DSI), Miami, Florida.
- Kim, J. S. D., Ritzman, L. P., Benton, W. C., and Snyder, D. (1990, November). Manufacturing Strategy and the Environment: An Analytical Study. Proceedings, National (DSI), San Diego, CA.
- Malhotra, M., Ritzman, L. P., Benton, W. C., and Leong, G. K. (1990, November). A Model for Scheduling Postal Distribution Employees. Proceedings, National (DSI), San Diego, CA.
- Hill, A.V., and Benton, W. C. (1990, November). Modeling Intra-City Time Dependent Travel Speeds. Proceedings, National (DSI), San Diego, CA.
- Kim, J. S. D., and Benton, W. C. (1990, November). A Q, R Model with Lot-Size Dependent Lead Time: An Algorithm and Managerial Implications. Proceedings, National (DSI), San Diego, CA.
- Lin, N. P., Krajewski, L., Leong, K., and Benton, W. C. (1990, November). Strategy of Master Production Scheduling in Uncertain Environments. Proceedings, National (DSI), San Diego, CA.

Benton, W.C., and Bretcher, N. (1990, May). Manufacturing Quality Products for the 1990's. Proceedings, Pan Pacific Business Conference, Seoul, Korea.

Sharma, Deven, Benton, W.C. and Srivastava, R., "Competitive Strategy and Purchasing Decisions," Proceedings, National (DSI), New Orleans, November 1989.

Kim, J. S. D., and Benton, W. C. (1989, May). Managing Inventory with Reduced Setup Time: More Emphasis on Safety Stock. Proceedings, Pan Pacific Business Conference, Sydney, Australia.

Siferd, S., and Benton, W. C. (1989, May). Short Term Nurse Staffing Needs. CORS, ORSA, TIMS, Vancouver, Canada.

Messersmith, J., Benton, W. C., and Leong. (1988). A Modified Heuristic for Allocating Safety Stock in a Multi-stage Environment. Proceedings, National (DSI), Las Vegas, Nevada.

Srivastava, R., and Benton, W. C. (1988). A Purchase Quantity Discount Decision under Open Order Rescheduling in Multi-level Assembly System. Proceedings, National (DSI), Las Vegas, Nevada.

Srivastava, R., and Benton, W. C. (1987, November 23). The Location-Routing Problem: Considerations in Physical Distribution System Design. Proceedings, National (DSI), Boston, MA.

Siferd, S., and Benton, W. C. (1987, April). Patient Variables as a Determinant of Short Term Nurse Staffing Needs. Proceedings, Midwest (DSI), Toledo, Ohio.

Benton, W.C. (1986, November). Quantity Discounts and Multiple Suppliers. Proceedings, National (DSI), Honolulu, Hawaii.

King, B., and Benton, W. C. (1986, November). Master Production Scheduling, Customer Service and Manufacturing Flexibility in an Assemble-to-Order Environment. Proceedings, National (DSI), Honolulu, Hawaii.

Benton, W. C., and Krajewski, L. (1986, November). Vendor Performance and Alternative Manufacturing Environments. Proceedings, National (DSI), Honolulu, Hawaii.

Siferd, S., and Benton, W. C. (1986, April). The Nurse Scheduling and Staffing Problem: A Framework for Analysis. Proceedings, Midwest (DSI), Lincoln, Nebraska.

Benton, W. C., and Krajewski, L. (1985, November). Vendor Performance Effects Under Various Forms of Product Structure Complexity. Proceedings, National (DSI), Las Vegas, Nevada.

Benton, W. C., and Bregman, R. (1985, November). Dealing with MRP Nervousness. Proceedings, National (DSI), Las Vegas, Nevada.

Benton, W. C., Srivastava, R., and Penlesky, R. (1985). Product Structure Complexity and Multi Level Lot Sizing in a Capacitated Environment Using a Marginal Costing Approach. Proceedings, National (DSI), Las Vegas, Nevada.

King, B., and Benton, W. C. (1985). Master Production Scheduling Techniques in an Assemble To-Order Environment. Proceedings, Midwestern (DSI), Las Vegas, Nevada.

Benton, W.C., and Srivastava, R. (1984, May). Product Structure Complexity and Multi-Level Log Sizing: Two Approaches. Proceedings, Midwestern (DSI), Indianapolis.

Benton, W.C. (1983, April). Automation Technology and the American Worker. Proceedings, Second United States-Japan Business Conference, Tokyo, Japan.

Benton, W.C. (1983, April). An Experimental Analysis of Purchase Quantity Discount Procedures in an MRP Environment. Proceedings, Midwest American Institute for Decision Sciences (DSI), Kansas City.

Benton, W.C. (1983, March). A Classification of Purchase Quantity Lot Sizing Literature. Proceedings, Western (DSI), Reno, Nevada.

Benton, W.C., and Srikar, B. N. (1983, November). An Experimental Analysis of Factors that Affect the Multiple Vehicle Routing Problem. Proceedings, National (DSI), San Antonio, Texas.

Benton, W.C., and Srivastava, R. (1983, November). The Impact of Product Structure Complexity and Multi-Level Lot Sizing in MRP Systems: A Value-Added Approach. Proceedings, National (DSI), San Antonio, Texas.

Benton, W.C., and Whybark, D.C. (1979, April). Evaluating (MRP) Purchase Quantity Discount Procedures under Uncertainty. Proceedings, Midwest (DSI), Chicago, Illinois.

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### *RESEARCH IN PROCESS*

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#### **Research Articles (Under Review & Revisions)**

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Lee, S., Shin, H., and Benton, JR, W. The Influence of Stockout-based Demand Substitution on Product Shortages and Returns, In Progress

Clottey, T., Benton, W. C., & Zhou, H., "Evaluating Progress Information Sharing for Recover Materials Usage in Eco-products, Revise and Resubmit IIE Transactions,

Prahinski, C. A., & Benton, W. C. "The Influence of Supplier Development on Buyer-Supplier Relationships", Submitted to *Journal of Operations Management*,

Benton, W. C., & Maloni, M., "Relationship Performance in the Automobile Supply Chain", Submitted to *Journal of Operations Management*.

## *PRESENTATIONS*

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2022 “The Influence of Home Shopping Television Network Impulse Buying on Product Shortages”, Houston Texas DSI Conference November 2022.

2022 “The Impact of Sharing Imprecise Information on Fixed-Bin Selective Assembly, Houston Texas DSI Conference November 2022

2019 “The Influence of Power in the Medical Supply Chain,” New Orleans DSI Conference, November, 2019

2018 “Sharing Quality-Distribution Information for the Selective Assembly of Intermediary Components in the Automotive Industry, Houston, POMS Conference”.

2017 “The Influence of Supplier Development Programs on Supplier Performance,” Washington DSI Conference, November, 2017

2016 “Sharing Distribution Quality Information for Selective Assembly, Orlando May 2016

2016. “The influence of intellectual Property Rights” Austin DSI Conference, November, 2016

2015. “Assembly Quality”. Decision Sciences, Seattle DSI Conference, November.

2015. “Supplier Governance”. Seattle DSI Conference, November.

2015. “Invited Research Panel Member”. Academy of Management, Vancouver, AOM, August.

2015. “Managing Outsourcing Relationships”. Washington DC, POMS, May.

2015. Oral Presentation, “Supply Chain Integration”. Washington DC, POMS, May.

2015. “Estimation of Demand for Core Acquisition”. Washington, DC, POMS, May.

2011. “Emergency Vehicle Dispatching with Time-Dependent Travel Times”. POMS, Reno, Nevada.

2011. “An Economic Analysis of Respiratory Care Aerosol Medication”. POMS, Reno, Nevada.

2011. “Supply Arrangements for Acquiring Cores in Remanufacturing Supply Chains”. POMS, Reno, Nevada.

2011. “Antecedents of Buyer Reliance on Mediated Supply Chain Power with Outsourcing”. POMS, Reno, Nevada.

2010. “Core Acquisitions Planning for the Automotive Parts Remanufacturing Industry”. National DSI, San Diego, CA, November.

2010. "The Influence of Supplier Development on Buyer-Supplier Relationships". POMS, Vancouver, Canada, May.
2010. "An Empirical Test of the Supply Chain Operations Reference Model". POMS, Vancouver, Canada, May.
2009. "Evaluating Manufacturing Approaches for Healthcare Problems". National DSI, New Orleans, Louisiana, November.
2009. "Construction Supply Chain Management". Clemson University, Department of Industrial Engineering, September.
2008. "Relationship Performance in the Automobile Supply Chain". POMS, San Diego, California, May.
2007. "Unlocking the Business Outsourcing Processing Model". Proceedings, National DSI, Phoenix, Arizona, November.
2006. "A Solvency Critical Analysis of America's Most Successful Hospitals". Innovations in Healthcare, Cincinnati, Ohio, September.
2005. "MPS and Product Variety". Proceedings, National DSI, San Francisco, November.
2005. "Supply Chain Information Sharing". Proceedings, National DSI, San Francisco, November.
2005. "Hospitals and Profitability". Proceedings, National DSI, San Francisco, November.
2004. "Supply Chain Disruptions". Proceedings, National DSI, Boston, MA, November.
2003. "Supply Chain Pegging". National DSI, Washington D.C., November.
2003. Shin, H. J., and Benton, W. C. "Supplier Based Reduction Strategy for Supply Chain Management". National DSI, November.
2002. "Supply Chain Communication Strategies". National DSI, San Diego, November.
2002. "Temporary Quantity Discounts and Supply Chain Inventory Coordination under Stochastic Demand". National DSI, San Diego, November.
2001. "Supply Chain Communication Strategies". Proceedings, National DSI, San Francisco, November.
2001. "Temporary Quantity Discounts and Supply Chain Inventory Coordination under Stochastic Demand". National DSI, San Francisco, November.

2000. "Operations and Technology Issues". W. Arthur Cullman Symposium, October 1-13.
2000. "Supply Chain Management and Operating Costs". Society of CPAs, September 19.
2000. "Vehicle Routing Decisions for Food and Beverage Distribution Proceedings". National DSI, Orlando, Florida, November.
2000. "Offsetting Inventory Cycles in a Storage Space Constrained Environment". Proceedings, National DSI, Orlando, November.
1999. "On the Measurement of Inter-Firm Power the Supply Chain". Proceedings, National DSI, New Orleans, November.
1999. "Supplier Performance and Source Selection". Proceedings, National DSI, New Orleans, November.
1998. "Supplier Performance and Source Selection in a Coordinated Lean Manufacturing Environment". Proceedings, National DSI, Las Vegas, November.
1997. "Re-Engineering the University for 2000 and Beyond: The Impact on Minority Students". The Ohio State University, Office of Minority Affairs, April.
1997. "Recoverable Product Environments and Systems for Reuse: Integrating Environmental Issues". Proceedings, National DSI, San Diego, November.
1997. "Power Influences within the Supply Chain". Proceedings, National DSI, San Diego, November.
1997. "Issues in Remanufacturing and Systems Reuse". National INFORMS, Dallas, Texas, October.
1997. "Re-Engineering the Heavy Highway Construction Industry". Federal Highway Administration, Biloxi, Mississippi, October.
1996. "Quantity Discount Research Issues". Proceedings, National DSI, Orlando, November.
1996. "A Multi-Item Model for Simultaneous Supplier Selection and Order Quantity Allocation". Proceedings, National DSI. Orlando, November.
1996. "Capacity Planning in Healthcare Organizations". Proceedings, National DSI, Orlando, November.
1996. "Purchasing in a Re-manufacturing Environment". Proceedings, National DSI, Orlando, November.
1995. "Supply Chain Management: Channel Inequities". National (DSI), Boston, MA, November 22.

1995. "Jointly Constrained Order Quantities with Incremental Discounts". National (DSI), Boston, MA, November 22.
1995. "Multiple-Buyer Discount Pricing for Suppliers Operating in a Make-to-Stock Environment". National (DSI), Boston, MA, November 22.
1995. "Inventory Control for the Ohio State Park System". Orient Ohio, October 23.
1995. "Purchase Discounts and Open Order Rescheduling". College of Engineering, Tennessee State University, January.
1995. "Capacitated Incremental Quantity Discounts under Conditions of Multiple Constraints". South Carolina State University, February.
1995. "Management Careers". The YMCA Black Achievers Programs, April.
1994. "Careers in Management for the Next Century". *Keynote speaker* for the Ohio State University Job Fair, January.
1994. "Jointly Constrained Order Quantities and the Natural Inventory Cycle". National (DSI), Honolulu, Hawaii, November.
1994. "The Changing Operations Management Research Paradigm". National (DSI), Honolulu, HI, November.
1994. "A Partial Enumeration Algorithm for Static Capacitated Location Problem". National (DSI), Honolulu, HI, November.
1994. "An Improved Algorithm for Determining Order Quantity under Incremental Quantity Discounts". National (DSI) Honolulu, HI, November.
1994. "Purchasing and Materials Management for the Construction Industry". Jackson State University, Mississippi, March.
1994. "Materials Management for the Next Century". Stillman College, Tuscaloosa, Alabama, April.
1994. "Estimating and Bidding Not to Get a Project". Bethune-Coachman College, Daytona Beach, Florida, May.
1994. "Purchasing Management and Shop Floor Control". Kentucky State University, September.
1994. "Time-Based Competition and Master Scheduling". The University of Michigan, October.
1994. "Lot Size Dependent Lead Times in a Q, R Inventory System". The University of

- Michigan, February 15.
1993. "A Heuristic for the Single Echelon Dynamic Capacitated Facility Location Problem". National (DSI), Washington D.C.
1993. "The Future of Operations Management in Business Schools". National (DSI), Washington, D.C., November.
1993. "Purchase Quantity Discounts and Open Order Rescheduling". National (DSI), Washington, D.C., November.
1993. "Quantitative Quality Descriptors for an Open-Heart Surgical Program". University of North Carolina, Chapel Hill, September.
1993. "Cardiac Economics". Grant Medical Center, June.
1992. "Negotiations in the 1990's and Beyond: Strategies and Tactics". The National Association of Purchasing Management, Mansfield, Ohio, November 7.
1992. "Cost-Based Priorities for Job Shop Scheduling". National (DSI), San Francisco, November.
1992. "Product Structure Complexity and Multi-Level Capacity Planning". National (DSI), San Francisco, November.
1992. "Inventory Management with Lot Size Dependent Lead Time". National (DSI), San Francisco, November.
1991. "Safety Stock and Service Levels in Periodic Review Inventory Systems". National (DSI), Miami, Florida, November.
1991. "Solving the Dynamic Warehouse Location Problem". National (DSI), Miami, November.
1991. "A Review of Characteristics of Strategies for Service Operations". National (DSI), Miami, November.
1991. "The Vehicle Scheduling Problem with Intermittent Customer Demands". National (DSI), Miami, November.
1991. "Cost Based Scheduling Problems". National, ORSA, Anaheim, CA, November.
1991. "The Vehicle Scheduling Problem with Intermittent Customer Demands". Operations Management Ph.D. Seminar, October 18.
1990. "Manufacturing Strategy and the Environment: An Analytical Study". National (DSI), San Diego, November.

1990. "A Model for Scheduling Postal Distribution Employees". National (DSI), San Diego, November.
1990. "Modeling Intra-City Time Dependent Travel Speeds". National (DSI), San Diego, November.
1990. "A Q, R Model with Lot-Size Dependent Lead Times: An Algorithm and Managerial Implications". National (DSI), San Diego, November.
1990. "Strategy of Master Production Scheduling in Uncertain Environments". Proceedings, National (DSI), San Diego.
1990. "Manufacturing Quality Products for the 1990's". Pan Pacific Business Conference, Seoul, Korea, June.
1989. "Competitive Strategy and Purchasing". National (DSI), New Orleans, November.
1988. "A Purchase Quantity Discount Decision under Open Order Rescheduling in Multi-Level Assembling System". National DSI, Las Vegas, November.
1987. "The Location-Routing Problem: Considerations in Physical Distribution System Design". National DSI, Boston, November.
1987. "Set Up Time Reduction and the Traditional Economic Order Quantity Model". ORSA/TIMS, St. Louis, Missouri, October.
1987. "Patient Variables as a Determinant of Short-Term Nurse Staffing Needs". ORSA/TIMS, St. Louis, October.
1987. "A Study of Nurse Staffing Needs as a Function of Mean Patient Acuity and Healing Rate". Midwest (DSI), April.
1987. "Reflecting Competitive Strategy in Purchasing Decision". Pan Pacific Business Conference, Taipei, Taiwan, May.
1986. "Quantity Discounts and Multiple Suppliers". National (DSI), Hawaii, November 23.
1986. "Master Production Scheduling, Customer Service and Manufacturing Flexibility in an Assemble-to-Order Environment". National DSI, Hawaii, November 23.
1986. "Vendor Performance and Alternative Manufacturing Environments". National DSI, Hawaii, November 24.
1986. "A Model for Strategic Procurement Decision Making". ORSA/TIMS, Miami, October 29.
1986. "The Renaissance of Operations Management as a Career Choice". Office of Minority

- Affairs, Ohio State University, May 1.
1986. "Capacitated Lot Sizing in MRP Systems". ORSA/TIMS, Los Angeles, CA, April 16.
1985. "Vendor Performance Effects under Various Forms of Product Structure Complexity". National DSI, Las Vegas, November 12.
1985. "Dealing with MRP Nervousness". National DSI, Las Vegas, November 12.
1985. "Product Structure Complexity and Multi-level Lot Sizing in a Capacitated Environment Using a Marginal Costing Approach". National DSI, Las Vegas, November 13.
1985. "Master Production Scheduling Techniques in an Assemble-to-Order Environment". National DSI, Las Vegas, November 13.
1985. "Alternative Master Production Scheduling Techniques in an Assemble-to-Order Environment". Ph.D. Seminar, November 1.
1985. "Operations Management in Small Manufacturing Firms". Pan Pacific Conference, Seoul, Korea, May 14.
1985. "Multiple Discount in MRP Systems ORSA/TIMS". Boston, MA, April 29.
1985. "Project Planning and Scheduling". Ohio Department of Transportation, Columbus, Ohio, March 18.
1985. "Management Science as a Career Option in the 1980's". Office of Minority Affairs, Ohio State University, April 3.
1985. "Careers in Production and Operations Management". Presentation given to undergraduates in the University College, March 14.
1984. "A Systematic Research Plan for Comparing Alternative Purchase Quantity Lot Sizing Procedures". ORSA/TIMS, San Francisco, CA, May.
1984. "Product Structure Complexity and Multi-Level Lot Sizing in MRP Systems: Two Approaches". Midwestern DSI, Indianapolis, Indiana, May.
1984. "Project Planning and Scheduling". Ohio Department of Transportation, Columbus, Ohio, March.
1984. "Japanese Operations Management". APICS (Student Chapter), January 19.
1983. "Experimental Study of Heuristic Algorithms for Solution of the Multiple Vehicle Routing Problem". Ph.D. Seminar, December 2.

1983. "An Experimental Analysis of Factors that Affect the Multiple Vehicle Routing Problem". National DSI, San Antonio, Texas, November.
1983. "The Impact of Product Structure Complexity and Multi-Level Lot Sizing in MRP Systems: A Value-Added Approach". San Antonio, November.
1983. "Evaluating a Modified Heuristic for the Multiple Vehicle Routing Problem". Ph.D. Seminar, April 29.
1983. "Automation Technology and the American Worker". Tokyo, Japan, April 5.
1982. "MRP, Is It for You?" National Association of Purchasing Management, Columbus, Ohio, November 8.
1982. "Evaluating an Efficient Heuristic for the Vehicle Routing Problem". National ORSA/TIMS, San Diego, October 25.
1981. "Purchasing Discounts and Material Requirements Planning". Midwest DSI, Detroit, Michigan, April 8.
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**Dissertation Chairperson for the following PhD students:**

Ron Hitzelberger—Air Force Academy (deceased)  
Rajesh Srivastava—Florida International University  
Ling Li—Old Dominion University  
Michael Maloni—Georgia State University/Andersen Consulting  
V. J. Jayaraman—University of Miami  
Honggeng Zhou—University of New Hampshire  
Sue P. Siferd—Arizona State University  
Nagesh Murthy—University of Oregon/Georgia Tech University  
Ho Jung Shin—Korea University/University of Notre Dame  
Carol Prahinski—Michigan State University/Western Ontario University  
Sean Handley—Rutgers University, Notre Dame and University of South Carolina  
Toyin Clottey—Iowa State University, Wayne State University  
Jurriaan De Jong---SUNY Buffalo and Ohio State University  
Keith Skowronski—University of South Carolina

**Dissertation Committee Member for following PhD students:**

Devin Sharma—President of the S&P  
Daniel Reid-University of New Hampshire  
Ning Pai Lin—Taiwan University  
Don McCaskey  
Paul Griesner (Industrial Engineering)  
Sungwook Park—Korea University  
Jay S. Kim—Boston University  
Manoja Malholtra—University of South Carolina, Dean Lehigh University  
Dale Shields—Lockheed Corp  
Pramod Goal—American Airlines (Industrial Engineering)  
Rassoul Yazkipour  
Sangjoon Lee, Yonsei University

**Taught Individual Graduate Courses for the following Masters/PhD students:**

Lily Adu (PhD Student)  
Jim Messersmith (PhD Student)  
Dave Garrett  
Donna Black (Industrial Engineering)  
Wesley Chiang (PhD Student)  
Rod Johnson (Industrial Engineering)  
W. Hwang  
Jim Waite  
Jane Iverson (PhD Student)  
Gavin Brown

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*PROFESSIONAL AFFILIATIONS*

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The National Association of Purchasing Management  
The Kentucky Highway Contractors Association  
The American Production and Inventory Control Society  
Decision Sciences Institute  
The Institute of Supply Management  
The American Institute of Industrial Engineers  
The Institute of Management Sciences  
Operations Management Association  
American Society for Quality Control  
The Society of Logistics Engineers  
The Mathematical Association of America

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*PROFESSIONAL ORGANIZATIONAL ACTIVITIES*

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**Major University and College Committees**

The Ohio State University Senate	2020-Present
<i>Selected as one of 7 members of the University Office of Research Council</i>	2020- Present
<i>Member of the vice Provost's Advisory Board</i>	2000-present
Athletic Council	1990-95, 2000-04,
2020-Present	
<i>Member, Deans' Search Committee</i>	1988-89, 2008-09
<i>Member, Presidential Fellowship Committee (University Research Committee)</i>	
1988-90, 2020-Present	
<i>Chairperson, Vice Provost of Minority Affairs, Search Committee</i>	1989
University Judicial Committee	1990-1993

**College Committees**

<i>Member, the Endowed Professor Committee</i>	2006-2019, 2021-
Present	
<i>Member, the Executive Committee</i>	1995-97, 2001-2005
<i>Member, Promotion and Tenure Revision Committee</i>	1997-2003, 2008—
<i>Member, Salary Grievance Committee</i>	1996-present
<i>Member, Research Committee</i>	1996-97, 2000—
<i>Member, Graduate Studies Committee, 1991-1995, 1997-2007</i>	2009-present
<i>Member, Search Committee for Dean of Business Research and Continuing Education</i>	1986
<i>Member, College Affirmative Action Committee</i>	1996-2005
<i>Member, Research Committee, 1985-1987, 1996-98</i>	2000-present
<i>Member, Personnel Committee, 1987-1992, 1994-2000</i>	2007-2009
<i>Member, Faculty Recruiting Committee</i>	1982-present
<i>Chairperson, Ph.D. Student Recruiting Committee, 1985-1994</i>	1996-20010
<i>Chairperson/Member of numerous general examination committees</i>	1984-present
<i>Member, Departmental Curriculum Committee</i>	1992- present

*Curriculum Advisor* for numerous masters and doctoral students' 1982-present

### **Offices Held**

*Special Issue Editor*, European Journal of Operational Research 1997-present  
*Senior Editor*, Production and Operations Management Journal 2000-present  
*Associate Editor*, Journal of Operations Management 1998-present  
*Associate Editor*, International Journal of Productivity & Quality Mgmt 2005-present  
*Associate Editor*, Decision Sciences Journal 2004-present  
*Associate Editor*, Journal of Business Logistics 2004-present  
*Associate Editor*, Journal of Supply Chain Management 2004-present  
*Associate Editor*, International Journal of Supply Chain Management 2005- present  
*Associate Editor*, Business of Service Industries: An International Journal 2005-present  
*Member* of the Board of Directors of the Columbus Chapter of the  
National Association of Purchasing Management (ISM) 1984-1996  
Selected as one of the 12 leading purchasing experts—Attended 5-day  
retreat sponsored by The Institute of Supply Management  
Selected to make presentations for the Supply Chain Council's Annual meetings.

### **Board Memberships**

The Sleep Medicine Foundation  
Battelle Memorial Institute  
The House of Hope-Serves as Treasurer  
Ashland Chemical-Ad hoc board member

### **Consultation (Industry, Education, Government)**

Federal Highway Administration  
Indiana Department of Transportation  
Kentucky Department of Transportation  
South Carolina Department of Transportation  
Alabama Department of Transportation  
Florida Department of Transportation  
North Carolina Department of Transportation  
Mississippi Department of Transportation  
Grant Hospital  
Ohio State Medical Center  
Ohio Department of Transportation  
Tennessee Department of Transportation  
U.S. Air Force  
Donita's Inc.  
Gelzer Automated Assembly Systems  
Loeb Electric, Inc.  
The Carter Group of Canada  
The Ohio Bureau of Disability Determination  
Bio-Ohio  
Baruch University  
University of North Texas  
National Science Foundation

*AWARDS*

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Ranked #2 (quality and productivity out of 753 operations management researchers in study published in the Journal of Operations Management (1989-1995).

The Stan Hardy Best Award 1988, 1990, 1999, and 2005.

The Pace Setters Research Award, 1997, the Fisher College of Business.

The 7<sup>th</sup> most influential operations management research articles published in the past 30 years, 2006. Journal of operations Management

“Vendor Selection Criteria and Methods”. *European Journal of Operational Research*, 50(1), January (1991): 2-18.

Recipient of the Ted Thompson Excellence Award *the Institute of Supply Management (formerly known as NAPM)*—given to the most significant contributors to the purchasing and supply management profession (2008).

*Who's Who in Black Columbus*, (2000-2010)

*Who's Who in America*, (2000-2010)

Received numerous research grants from the American Medical Association

Selected as a Raymond Miles Scholar—2005 the University of North Texas

Selected as a Member of the prestigious Expert Witness Round Table (2009-Present)

Best Paper published in IIE Transactions in 2014–2015.

Best Paper Award for Journal of Operations Management in 2007, 2014, 2018