

**VITA**

**Timothy D. Fry**

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**EDUCATIONAL HISTORY**

Ph.D., Production/Operations Management, University of Georgia, 1984

MS, Clemson University, Major: Management Science, 1980

BA, Clemson University, Major: Political Science, 1978

**ACADEMIC EXPERIENCE**

1997 – Present: Professor of Management Science, University of South Carolina; Columbia, South Carolina.

1990 – 1997: Associate Professor of Management Science, University of South Carolina; Columbia, South Carolina.

1998 9/10 - 9/24: Visiting Professor of Management Science, University of Wollongong; Sydney, Australia

1984 - 1989: Assistant Professor of Management Science, University of South Carolina; Columbia, South Carolina.

1987 7/20 - 8/21: Visiting Professor of Management Science, Helsinki School of Economics and Business Administration; Helsinki, Finland.

1981 - 1984: Graduate Teaching Assistant of Management, University of Georgia; Athens, Georgia.

1980 - 1981: Instructor of Management, Georgia College; Milledgeville, Georgia.

## **INTERESTS**

### **TEACHING**

Project Management  
Manufacturing Strategy  
Introduction to Operations Management  
International Operations

### **RESEARCH**

Cost Accounting and Manufacturing  
Performance Measurement Systems  
Theory of Constraints  
Lean Healthcare  
Operations Management Pedagogy

## **PUBLICATIONS/RESEARCH ACTIVITIES**

### **RESEARCH IN PROGRESS**

“Individual and Institutional Research Productivity in Operations Management”, with Joan Donohue, Guangzhi Shang, and Brooke Saladin

“Worker Empowerment in Lean Healthcare” with Ashley Metcalf, Marco Haberman, and Jamie Stoller

“High Reliability Theory and Supply Chain Disruptions” with Marco Haberman and Ashley Metcalf

### **ARTICLES UNDER REVIEW**

“Competitive Bidding and the Impact of Cost Estimation Accuracy” with Pat Philipoom, Al Leitch, and Yu Tian, Decision Sciences Journal, submitted 10/10/14.

“The Effects of Complexity and Coupling on Supply Chain Disruptions” with Marco Haberman and Ashley Metcalf, Production and Operations Management, submitted 8/22/14.

“Cost Estimation for Procurement Auctions”, with Al Leitch, Pat Philipoom, and Yu Tian, International Journal of Project Management, submitted 4/15/14.

### **ARTICLES IN PRESS**

“The Internationalization of Operations Management Research”, with Joan Donohue, Brooke Saladin and Guangzhi Shang, International Journal of Production Research, Accepted 12/5/14.

“The Effects and Use of Respiratory Care Protocols”, with Ashley Metcalf, James Stoller, and Marco Haberman, Respiratory Care, Accepted 11/22/14.

“Research Constituents and Authorship Patterns in the Production and Operations Management Journal” with Joan Donohue, Brooke Saladin and Guanzhi Shang, Production and Operations

Management. Accepted 12/20/2014.

#### **ARTICLES IN PRINT**

“Exploring the Author Affiliation Index to Assess Journal Quality”, Tim D. Fry and Joan Donohue, SCIENTOMETRICS, 2014, Vol. 98, pp 1647-1667.

“The Origins of Research and Patterns of Authorship in the International Journal of Production Research”, Timothy D. Fry, Joan Donohue, Brooke Saladin and Guanzhi Shang, International Journal of Production Research, 2013, Vol. 51, No. 23-24, pp. 7470-7500.

“Equitable Handicapping of Scramble Golf Tournaments”, Dennis Oberhelman, Michael Galbreth and Timothy Fry, Journal of Quantitative Analysis of Sports, 2013, Vol. 9, No. 4, pp 285-300.

“Outlets for Operations Management Research: A DEA assessment of journal quality and rankings” Timothy D. Fry and Joan Donohue, International Journal of Production Research, 2013, Vol. 51, No. 23-24, pp. 7501-7526.

“A Tutorial on Managerial Cost Accounting: Year End Reporting”. Timothy D. Fry and Kirk D. Fiedler, Production and Inventory Management Journal, 2012, Vol. 48, No. 1, pp. 41-49.

“A Tutorial on Managerial Cost Accounting: Living with Variances”, Timothy D. Fry and Kirk D. Fiedler, Production and Inventory Management Journal, 2011, Vol. 47, No. 1, pp. 21-32.

“Accounting Based Heuristics for Order Processing and Review in a Stochastic Environment”, Timothy D. Fry, P.R. Philipoom and R.A. Leitch, International Journal of Production Research, 2008, Vol. 46, No. 6, pp. 1667-1684.

“Opportunity Costing Decision Heuristics for Product Acceptance Decisions”, Robert A. Leitch, Patrick R. Philipoom and Timothy D. Fry, Journal of Management Accounting Research, 2005, Vol. 17, pp. 95-117.

“Comparisons Between Drum-Buffer-Rope and Materials Requirements Planning: A Case Study”, Daniel C. Steele, Patrick R. Philipoom, and Manoj K. Malhotra, International Journal of Production Research, 2004, Vo. 43, No. 15, pp. 3181-3208.

“Labor Flexibility and Assignment Policies in a Job Shop Having Incommensurable Objectives” with H.V. Kher, International Journal of Production Research. 2001, Vol. 39, No. 11, pp. 2295-2311.

“Multi-level Heterogeneous Worker Flexibility in a DRC Job Shop”, T.D. Fry, and J.T. Felan, 2001, International Journal of Production Research, 2001 Vol. 39, No. 14, pp. 3041 - 3059

“Modeling Simultaneous Worker Learning and Forgetting in Dual Resource Constrained Systems”, H.U. Kher, M.K. Malhotra, P.R. Philipoom and T.D. Fry; European Journal of Operational Research, 1999, Vol. 1, pp. 158 – 172.

“Order Review/Release in the Absence of Adherence to Formal Scheduling Policies”, P.R. Philipoom and T.D. Fry, Journal of Operations Management, 1999, No. 3, pp. 327 – 342.

- "The Use of Management Accounting Systems in Manufacturing", T.D. Fry, B.A. Saladin and S.C. Steele, International Journal of Production Research, 1998, Vol. 36, No. 2, pg. 503 – 525.
- "Order Review/Release and lot splitting in Drum-Buffer-Rope," G.R. Russell and T.D. Fry, International Journal of Production Research, 1997, Vol. 35, No. 3, pp. 827-845.
- "A Branch and Bound Procedure to Minimize Mean Absolute Lateness on a Single Processor", T.D. Fry, R.D. Armstrong, P.R. Philipoom and K. Darby-Dowman, Computers and OR, 1996, Vol. 23, No. 2, pp. 171-182.
- "Wall Street, Accounting and Their Impact on Manufacturing," T.D. Fry and D.C. Steele, International Journal of Production Economics, 1995, Vol. 40, pp. 37-44.
- "Managing Worker Flexibility and Attrition in Dual Resource Constrained Job Shops," Timothy D. Fry, Hemant K. Kher, and Manoj K. Malhotra, International Journal of Production Research, 1995, Vol. 33, No. 8, pp. 2163-2179.
- "The Role of Management Accounting in the Development of a Manufacturing Strategy," T.D. Fry, D.E. Steele, and B.A. Saladin, International Journal of Operations and Production Management, 1995, Vol. 15, No. 12, pp. 21-31.
- "Japanese Manufacturing Performance Criteria", T.D. Fry, International Journal of Production Research, 1995, Vol. 33, No. 4, pp. 933-954.
- "A Service Oriented Manufacturing Strategy", T.D. Fry, D.C. Steele, and B.A. Saladin, International Journal of Operations and Production Management, 1994, Vol. 14, No. 10, pp. 17-29.
- "The Rise and Fall of Time-Based Manufacturing", T.D. Fry, W. Baker, and K. Karwan, Management Accounting, June, 1994, pp. 56-59.
- "Labor Flexibility and Staffing Levels in a Dual-Resource Constrained Job-Shop," with J.T. Felan and P.R. Philipoom, International Journal of Production Research, 1993, Vol. 31, No. 10, pp. 2487-2506.
- "A Comparison of Two Intelligent Scheduling Systems For Flexible Manufacturing Systems," Allen E. Smith, Timothy D. Fry, James Sweigart and Patrick Philipoom, Expert Systems With Applications, 1993, Vol. 6, pp. 299-308.
- "The Impact of Learning and Labor Attrition on Worker Flexibility in Dual Resource Constrained Job Shops," M.K. Malhotra, T.D. Fry, and H. Kher, Decision Sciences, 1993, Vol. 24, No. 3, pp. 641-663.
- "Performance Measurement Systems and Time-Based Manufacturing", T.D. Fry, K. Karwan, and W. Baker, Production Planning and Control, 1993, Vol. 4, No. 2, pp. 102-111.
- "Capacity Allocation Strategies in a Hypothetical Job Shop," T.D. Fry and G.R. Russell, International Journal of Production Research, 1993, Vol. 31, No. 5, pp. 1097-1115.

- "Analysis and Discussion of the Optimized Production Technology Software", T.D. Fry, J. Cox, and J.H. Blackstone, Production and Operations Management, 1992, Vol. 1, No. 2, pp. 229-242.
- "Capacity Based Order Review/Release Strategies to Improve Manufacturing Performance," Patrick R. Philipoom and Timothy D. Fry, International Journal of Production Research, 1992, Vol. 30, No. 11, pp. 2559-2572.
- "Manufacturing Performance and Cost Accounting", Production and Inventory Management Journal, 1992, Vol. 33, No. 3, pp. 30-35.
- "Implementing Drum-Buffer-Rope to Control Manufacturing Lead Time," T.D. Fry, K. Karwan, and D. Steele, The International Journal of Logistics Management, 1991, Vol. 2, No. 1, pp. 12-18.
- "Tax Restructuring and Ethics in Management Science: A Reply to Arthur," J.J. Chrisman, R. Weinstein, T.D. Fry, G.R. Reeves, and H.S. Lewis, Interfaces, 1991, Vol. 21, No. 2, pp 87-92.
- "A Preliminary Investigation of Multi-Attribute Based Sequencing Rules for Assembly Shops," R.S. Russell, P.R. Philipoom, and T.D. Fry, International Journal of Production Research, 1991, Vol. 29, No. 4, pp. 739-753.
- "The Robustness of Selected Job Shop Dispatching Rules with Respect to Work Flow Structure and Load Balance," P.R. Philipoom and T.D. Fry, Journal of the Operational Research Society, 1990, Vol. 41, No. 10, pp. 897-906.
- "A Note on Single Machine Scheduling: A Comparison of Two Solution Procedures," T.D. Fry, OMEGA, 1990, Vol. 18, No. 1, pp. 106-107.
- "Controlling Input - The Real Key to Shorter Lead Times," T.D. Fry, International Journal of Logistics Management, 1990, Vol. 1, No. 1, pp. 7-12.
- "Single Machine Scheduling to Minimize Mean Absolute Lateness: A Heuristic Solution," T.D. Fry, R.D. Armstrong, and L.D. Rosen, Computers and OR, 1990, Vol. 17, No. 1, pp. 105-112.
- "Sequencing Rules, Progress Milestones, and Product Structure in a Multistage Job Shop," T.D. Fry, P.R. Philipoom and R.E. Markland, Journal of Operations Management, 1989, Vol. 8, No. 3, pp. 209-229.
- "A Framework for Multiobjective Single Machine Sequencing Research," T.D. Fry, R.D. Armstrong and H.S. Lewis, OMEGA, 1989, Vol. 17, No. 6, pp. 595-607.
- "Due Date Assignment in a Multi-stage Job Shop," P.R. Philipoom, R.E. Markland and T.D. Fry, IIE Transactions, 1989, Vol. 21, No. 2, pp. 153-161.
- "FMS Implementation Procedure: A Case Study," T.D. Fry and A.E. Smith, IIE Transactions, 1989, Vol. 21, No. 3, pp. 288-293.

- "A Dispatching Rule to Allow Tradeoffs Between Inventory and Customer Satisfaction," T.D. Fry and P.R. Philipoom, International Journal of Operations and Production Management, 1989, Vol. 9, No. 7, pp. 72-78.
- "A Multiobjective Linear Programming Methodology for Public Sector Tax Planning," J.J. Chrisman, T.D. Fry, G.R. Reeves, H.S. Lewis and R. Weinstein, Interfaces, 1989, Vol. 19, No. 5, pp. 13-22.
- "Manufacturing Performance: Local Versus Global Measurements," T.D. Fry and J.F. Cox, Production and Inventory Management Journal, 1989, Vol. 30, No. 2, pp. 52-57.
- "The Effects of Product Structure and Sequencing Rules on Assembly Job-Shop Performance," T.D. Fry, M.D. Oliff, E.D. Minor and G.K. Leong, International Journal of Production Research, 1989, Vol. 27, No. 4, pp. 671-686.
- "A Heuristic Solution Procedure to Minimize T on a Single Machine," T.D. Fry, L. Vicens, K. MacLeod and S. Fernandez, Journal of the Operational Research Society, 1989, Vol. 40, No. 2, pp. 293-297.
- "Planning for Idle Time: A Rationale for Underutilization of Capacity," T.D. Fry and J.H. Blackstone, International Journal of Production Research, 1988, Vol. 26, No. 12, pp. 1853-1859.
- "Dispatching in a Multistage Job-Shop where Machine Capacities are Unbalanced," T.D. Fry, P.R. Philipoom and R.E. Markland, International Journal of Production Research, 1988, Vol. 26, No. 7, pp. 1193-1223.
- "A Simulation Study of Processing Time Dispatching Rules," T.D. Fry, P.R. Philipoom and J.H. Blackstone, Journal of Operations Management, 1987, Vol. 7, No. 4, pp. 77-92.
- "Minimizing Weighted Absolute Deviation in Single Machine Scheduling," T.D. Fry, R.D. Armstrong and J.H. Blackstone, IIE Transactions, 1987, Vol. 19, No. 4, pp. 445-449.
- "A Procedure for Implementing Input/Output Controls: A Case Study,," T.D. Fry and A.E. Smith, Production and Inventory Management Journal, 1987, Vol. 28, No. 4, pp. 50-52.
- "A Successful Implementation of Group Technology and Cell Manufacturing," T.D. Fry, M.G. Wilson and M.D. Breen, Production and Inventory Management Journal, 1987, Vol. 28, No. 3, pp. 4-6.
- "An Investigation of Bottleneck Position in a Multistage Job Shop," T.D. Fry, P.R. Philipoom, G.K. Leong and A.E. Smith, International Journal of Operations and Production Management, 1987, Vol. 7, No. 6, pp. 55-63.
- "A Bi-Criterion Approach to Minimize Inventory Costs on a Single Machine When Early Shipments are Forbidden," T.D. Fry and G.K. Leong, Computers and Operations Research, 1987, Vol. 14, No. 5, pp. 363-368.
- "Single Machine Scheduling: A Comparison of Two Solution Procedures," T.D. Fry, T.R. Rakes and G.K. Leong, OMEGA, 1987, Vol. 15, No. 4, pp. 277-282.

"Bi-Criterion Single Machine Scheduling with Forbidden Early Shipments," T.D. Fry and G.K. Leong, Engineering Costs and Production Science, 1986, Vol. 10, pp. 133-137.

"Improving Human Resources and Career Planning Through the Application of Fractional Flow Modeling", T.W. Zimmerer and T.D. Fry, Appalachian Business Review, 1982, Vol. 9, No. 3, pp

### **PROFESSIONAL ACTIVITIES**

President and CEO, Metts Construction, Inc	May 1, 2002-2011
President and Owner, The Fry Company, Inc.	Jan 15, 2006-2013
Decision Sciences Institute	Aug 1984-Present
APICS	Aug 1984-Present
Production and Operations Management Society	Aug 2002- Present

### **CONSULTING ACTIVITIES**

Savannah River Remediation	Jan-Mar 2012
Koyo Bearings	Aug-Jan 2000-01
Mack Truck, Inc	Aug-Sept 1998-99
Fairmont Tamper	July 1997
Anchor Continental	Mar-July 1997-98
Square D	Feb-Dec 1997
TCM	June-July 1997
Torrington Bearings	Aug 1996-98
Versch Lock Mfg.	June-Oct 1995
Salem Vent Mfg	June-Oct 1995