

# VITA (Short version—full version available by request)

## Tyson R. Browning

**Current appointment** (since April 2015):

Professor of Operations Management

Department of Information Systems and Supply Chain Management

Neeley School of Business, Texas Christian University

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### I. [Education](#)

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## I. Education

### Massachusetts Institute of Technology

Cambridge, Massachusetts

**Ph.D.** 1999 *Technology, Management and Policy* (Engineering Management)

**S.M.** 1996 *Aeronautics and Astronautics* (Systems Engineering)

**S.M.** 1996 *Technology and Policy*

### Abilene Christian University

Abilene, Texas

**B.S.** 1993 *Engineering Physics* (with University Honors)

### Educational Honors

- National Science Foundation Graduate Fellowship, 1994-1997
- *USA Today's* All-USA College Academic Team, Honorable Mention, 1993
- H.Y. Benedict Fellowship (from Alpha Chi), 1993
- Barry M. Goldwater Excellence in Education scholarship (from U.S. Congress), 1991-1993
- National Merit Finalist (and corporate scholarship from Honeywell, Inc.), 1989-1993
- National Society of Professional Engineers scholarship, 1989

### International Travel:

Asia: China, Japan, Singapore, Thailand

Australia, New Zealand

Europe: Austria, Belgium, Croatia, Finland, France, Germany, Ireland, Italy, Liechtenstein, Netherlands, Romania, Russia, Spain, Sweden, Switzerland, United Kingdom

Middle East: Israel, Jordan

North America: Canada, Mexico, St. Kitts & Nevis

South America: Brazil

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## II. Research

### II.1 Impact Measures

As of November 7, 2022 via [Google Scholar](#)

Total citations: **10,385** (4,377 since 2017)

h-index: **41** (i.e., 41 papers with at least 41 citations each)

## II.2 Current Interests

- Managing complex technical projects/programs
- Process modeling, analysis, and improvement (including Lean and Six Sigma)
- Architectures of complex projects, products, processes, and organizations
- Design Structure Matrix (DSM)
- Risk management
- Management of innovation and product development
- Enterprise processes

## II.3 Selected Research Publications in Refereed Journals

- P43 He, Qidong, Nengmin Wang, **Tyson R. Browning**, and Bin Jiang (2022) "Competitive Collection with Convenience-perceived Customers," *European Journal of Operational Research*, 303(1): 239-254.
- P42 Yang, Qing, Na Yang, **Tyson R. Browning**, Bin Jiang, and Tao Yao (2022) "Clustering Product Development Project Organization from the Perspective of Social Network Analysis," *IEEE Transactions on Engineering Management*, 69(6): 2482-2496.
- P41 Allaverdi, David and **Tyson R. Browning** (2020) "A Methodology for Identifying Flexible Design Opportunities in Large-scale Systems," *Systems Engineering*, 23(5): 534-556. **One of the "most downloaded articles" in its first 12 months (according to Wiley)**
- P40 Collins, Shawn T. and **Tyson R. Browning** (2019) "It Worked There, So It Should Work Here: Sustaining Change while Improving Product Development Processes," *Journal of Operations Management*, 65(3): 216-241.
- P39 **Browning, Tyson R.** (2019) "Planning, Tracking, and Reducing a Complex Project's Value at Risk," *Project Management Journal*, 50(1): 71-85.
- P38 **Browning, Tyson R.** (2018) "Building Models of Product Development Processes: An Integrative Approach to Managing Organizational Knowledge," *Systems Engineering*, 21(1): 70-87. **Finalist for journal's best paper of the year**
- P37 Engel, Avner, **Tyson R. Browning**, and Yoram Reich (2017) "Designing Products for Adaptability: Insights from Four Industrial Cases," *Decision Sciences*, 48(5): 875-917. **Ninth-most-cited paper out of 261 in DS since 2017 (according to Web of Science, Feb. 2022)**
- P34 **Browning, Tyson R.** and Ali A. Yassine (2016) "Managing a Portfolio of Product Development Projects under Resource Constraints," *Decision Sciences*, 47(2): 333-372. **In the top 15% of citations out of 301 articles in DS since 2016 (according to Web of Science, Feb. 2022)**
- P33 **Browning, Tyson R.** (2016) "Design Structure Matrix Extensions and Innovations: A Survey and New Opportunities," *IEEE Transactions on Engineering Management*, 63(1): 27-52. **Second-most-cited paper (out of 820) in IEEE-TEM since 2016 and already in the top 3% of citations (out of 2820 papers) in the 68-year history of IEEE-TEM (according to Web of Science, Feb. 2022)**
- P32 Meier, Christoph, **Tyson R. Browning**, Ali A. Yassine, and Ulrich Walter (2015) "The Cost of Speed: Work Policies for Crashing and Overlapping in Product Development Projects," *IEEE Transactions on Engineering Management*, 62(2): 237-255.
- P31 **Browning, Tyson R.** (2014) "A Quantitative Framework for Managing Project Value, Risk, and Opportunity," *IEEE Transactions on Engineering Management*, 61(4): 583-598.
- P29 Ramasesh, Ranga V. and **Tyson R. Browning** (2014) "A Conceptual Framework for Tackling Knowable Unknown Unknowns in Project Management," *Journal of Operations Management*, 32(4): 190-204.
- P26a Sosa, Manuel E., Jürgen Mihm, and **Tyson R. Browning** (2013) "Linking Cyclicity and Product Quality," *Manufacturing & Service Operations Management*, 15(3): 473-491.
- P25 **Browning, Tyson R.** and Nadia R. Sanders (2012) "Can Innovation Be Lean?" *California Management Review*, 54(4): 5-19.
- P24 Sosa, Manuel E., Jürgen Mihm and **Tyson R. Browning** (2011) "Degree Distribution and Quality in Complex Engineered Systems," *Journal of Mechanical Design*, 133(10): 101008 (15 pages).
- P22a **Browning, Tyson R.** (2010) "On the Alignment of the Purposes and Views of Process Models in Project Management," *Journal of Operations Management*, 28(4): 316-332.
- P21 **Browning, Tyson R.** and Ali A. Yassine (2010) "A Random Generator of Resource-Constrained Multi-Project Network Problems," *Journal of Scheduling*, 13(2): 143-161.

- P20 Lévárdy, Viktor and **Tyson R. Browning** (2009) "An Adaptive Process Model to Support Product Development Project Management," *IEEE Transactions on Engineering Management*, 56(4): 600-620. **In the top 4% of citations (out of 2820 papers) in the 68-year history of IEEE-TEM (according to Web of Science, Feb. 2022)**
- P19 **Browning, Tyson R.** (2009) "The Many Views of a Process: Towards a Process Architecture Framework for Product Development Processes," *Systems Engineering*, 12(1): 69-90. **The 18<sup>th</sup>-most-cited paper (out of 518 papers) in the journal since 2007 (according to Web of Science, Feb. 2022)**
- P18 **Browning, Tyson R.** and Ralph D. Heath (2009) "Reconceptualizing the Effects of Lean on Production Costs with Evidence from the F-22 Program," *Journal of Operations Management*, 27(1): 23-44.
- P17 **Browning, Tyson R.** and Eric C. Honour (2008) "Measuring the Life-cycle Value of Enduring Systems," *Systems Engineering*, 11(3): 187-202.
- P16 Engel, Avner and **Tyson R. Browning** (2008) "Designing Systems for Adaptability by Means of Architecture Options," *Systems Engineering*, 11(2): 125-146. **The 8<sup>th</sup>-most-cited paper (out of 518 papers) in the journal since 2007 (according to Web of Science, Feb. 2022)**
- P14 Meier, Christoph, Ali Yassine and **Tyson R. Browning** (2007) "Design Process Sequencing with Competent Genetic Algorithms," *Journal of Mechanical Design*, 129(6): 566-585.
- P13 **Browning, Tyson R.** and Ranga V. Ramasesh (2007) "A Survey of Activity Network-based Process Models for Product Development Project Management," *Production and Operations Management*, 16(2): 217-240. **In the top 5% of citations (out of 2068 papers) in the history of POM (according to Web of Science, Feb. 2022)**
- P12 Danilovic, Mike and **Tyson R. Browning** (2007) "Managing Complex Product Development Projects with Design Structure Matrices and Domain Mapping Matrices," *International Journal of Project Management*, 25(3): 300-314. **The most-cited paper from the journal since 2007 (according to the journal's website, 2012)**
- P11 **Browning, Tyson R.**, Ernst Fricke, and Herbert Negele (2006) "Key Concepts in Modeling Product Development Processes," *Systems Engineering*, 9(2): 104-128. **The second-most-cited papers (out of 467 papers) in the 18-year history of SE (Oosthuizen et al. 2016)**
- P10 **Browning, Tyson R.** (2003) "On Customer Value and Improvement in Product Development Processes," *Systems Engineering*, 6(1): 49-61.
- P9 **Browning, Tyson R.**, John J. Deyst, Steven D. Eppinger, and Daniel E. Whitney (2002) "Adding Value in Product Development by Creating Information and Reducing Risk," *IEEE Transactions on Engineering Management*, 49(4): 443-458. **In the top 2% of citations (out of 2820 papers) in the 68-year history of IEEE-TEM (according to Web of Science, Feb. 2022)**
- P8 **Browning, Tyson R.** and Steven D. Eppinger (2002) "Modeling Impacts of Process Architecture on Cost and Schedule Risk in Product Development," *IEEE Transactions on Engineering Management*, 49(4): 428-442. **The 12<sup>th</sup>-most-cited paper out of 2820 papers in the 68-year history of IEEE-TEM (according to Web of Science, Feb. 2022)**
- P7 **Browning, Tyson R.** (2002) "Process Integration Using the Design Structure Matrix," *Systems Engineering*, 5(3): 180-193. **The ninth-most-cited paper (out of 467 papers) in the 18-year history of SE (Oosthuizen et al. 2016)**
- P6 **Browning, Tyson R.** (2001) "Applying the Design Structure Matrix to System Decomposition and Integration Problems: A Review and New Directions," *IEEE Transactions on Engineering Management*, 48(3): 292-306. **The third-most-cited paper out of 2820 papers in the 68-year history of IEEE-TEM (according to Web of Science, Feb. 2022); also cited by four patents (IEEE Xplore)**

## II.4 Selected Other Publications

- O41 **Browning, Tyson R.** and Suzanne de Treville (2021) "Editorial: A Lean View of Lean," *Journal of Operations Management*, 67(5): 640-652.
- O39 Mishra, Anant and **Tyson R. Browning** (2020) "Editorial: The Innovation and Project Management Department in the *Journal of Operations Management*," *Journal of Operations Management*, 66(6): 616-621.

- O38 **Browning, Tyson R.** (2020) "Editorial: Operations Management Writ Large," *Journal of Operations Management*, 66(5): 494-500.
- O37 Chandrasekaran, Aravind, Suzanne de Treville, and **Tyson Browning** (2020) "Editorial: Intervention-Based Research (IBR) – What, Where and How to Use it in Operations Management," *Journal of Operations Management*, 66(4): 370-378.
- O34 **Browning, Tyson R.** and Suzanne de Treville (2018) "Editorial: New Developments at the *Journal of Operations Management*," *Journal of Operations Management*, 64(1): 1-6.
- O32 Maylor, Harvey, Jack Meredith, Jonas Söderlund, and **Tyson R. Browning** (2018) "Old Theories, New Contexts: Extending Operations Management Theories to Projects," special issue introductory article in the *International Journal of Operations & Production Management*, 38(6): 1274-1288.
- O30 **Browning, Tyson R.** (2017) "Project Design and Management," Ch. 11 in Starr, Martin K. and Sushil K. Gupta, Eds., *The Routledge Companion to Production and Operations Management*, New York: Routledge, pp. 214-233.
- O26 **Browning, Tyson R.** and Ranga V. Ramasesh (2015) "Reducing Unwelcome Surprises in Project Management," *MIT Sloan Management Review*, 56(3): 53-62.
- O20 Eppinger, Steven D. and **Tyson R. Browning** (2012) *Design Structure Matrix Methods and Applications*, Cambridge, MA: MIT Press.
  - Japanese edition (2014)

## II.5 Web Articles, Blogs, and Podcasts

"The Design Structure Matrix: A Tool for Managing Complexity," *Scientific American* [guest blog](#), 9/15/12.

"Looking in the Right Places to Identify 'Unknown Unknowns' in Projects," Integration and Implementation Insights [blog](#), 11/5/19.

"Managing Operational Risk and Uncertainty," [Scale with Sergio](#), MarketScale podcast, 5/22/20.

## II.6 Presentations at Universities

Aalto University (Helsinki, Finland)  
 Boston University  
 Clemson University  
 École Centrale Paris (France)  
 Florida State University  
 George Washington University  
 Hong Kong Polytechnic University  
 INSEAD (Fontainebleau, France)  
 Iowa State University  
 Lehigh University  
 Massachusetts Institute of Technology (×8)  
 National University of Singapore (×2)  
 Naval Postgraduate School  
 Ohio State University  
 Penn State University  
 Queensland University of Technology (Brisbane, Australia) (×3)  
 Royal Institute of Technology (Stockholm, Sweden)  
 Southern Methodist University (×2)  
 Stevens Institute of Technology  
 Technical University of Eindhoven (Netherlands)  
 Technical University of Munich (Germany) (×8)  
 Technion (Haifa, Israel) (×2)  
 Temple University (×2)  
 Texas A&M University  
 Tongji University (Shanghai, China)  
 University of Cambridge (UK) (×5)  
 University of Houston  
 University of Lugano (Switzerland)  
 University of Maryland  
 University of Melbourne (Australia)  
 University of New Mexico  
 University of North Texas

University of Notre Dame  
University of Oklahoma  
University of Ottawa  
University of Oxford (UK)  
University of Rostock (Germany)  
University of São Paulo (Brazil) (×2)  
University of South Carolina  
University of Texas at Dallas (×2)  
University of Texas at El Paso  
University of Warwick (Coventry, UK)  
Virginia Tech  
Xi'an Jiaotong University (China)

## II.7 Research Grants

- Office of Naval Research (ONR), “Design Structure Matrix (DSM) Methods and Applications for Naval Ship Design,” \$302,230 over 3 years, 2011-2014, principal investigator
- TCU Research and Creative Activity Fund (RCAF) Grants, 2003-2004 and 2004-2005
- Summer research support, TCU Neeley School of Business, 2003-present

## II.8 Research Positions

**Lean Aerospace Initiative** Cambridge, Massachusetts

*Research Assistant*, Product Development Focus Team, 1995-1999

*Research Assistant*, Organizations and People Focus Team, 1993-1995

Researched advanced management practices and policies. Spent extensive time on-site with Boeing (both commercial and defense, Seattle, WA). Conducted site visits and analyzed product development and organizational practices in multiple projects at Boeing, Daimler Chrysler, General Electric, Lockheed Martin, McDonnell Douglas, Sundstrand, and Texas Instruments. Frequent speaker at consortium workshops.

**Los Alamos National Laboratory** Los Alamos, New Mexico

*Research Assistant*, Software Developer and Equipment Technician, 1990-1993

## II.9 Research Honors and Awards

- **Rob Rhodes Professor of the Year, 2021**
  - “The Neeley School’s highest internal recognition for sustained, high-quality institutional accomplishments in research, teaching, and service”
- Neeley School of Business nominee for the **TCU Chancellor’s Award for Distinguished Achievement as a Creative Teacher and Scholar**, 2013
- Paper P38 was a finalist for the best paper of the year in *Systems Engineering*, 2018
- Papers P6, P7, P8, P9, P11, P12, P13, P18, P19, and P20 are among the most-cited papers from their respective journals
- Paper C17 was nominated for the best paper award at the ASME International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE 2007), Las Vegas, NV, Sept. 4-7, 2007.
- Paper C15 won the **best paper award** out of 132 papers presented at the 15<sup>th</sup> International Symposium of the International Council on Systems Engineering (INCOSE), Rochester, NY, July 11-15, 2005.

## II.10 Media Mention

- Murawski, John (2019) “AI Will Assume Most Project Management Tasks, Gartner Says,” [The Wall Street Journal](#), March 25

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## III. Teaching

### III.1 Appointments

**Neeley School of Business, Texas Christian University**

Fort Worth, Texas

2015 – Present Professor of Operations Management

2009 – 2015 Associate Professor of Operations Management

2003 – 2009 Assistant Professor of Operations Management

## III.2 Courses Taught

### III.2.1 Graduate Courses (MBA/PMBA)

#### Current:

- INSC 60020 Managing Operations and Processes (1.5 units, Core): two sections each Fall, 2011-2016, 2018-2019, Spring 2020; one section each Spring, 2021-2022
- INSC 71003 Project Management (3.0 units, Elective): each Spring, 2017-2022
- INSC 71020 Six Sigma Green Belt for Managers (1.5 units, Elective): Winter 2009; each Summer, 2009-2011; each Spring, 2012-2022

#### Previous:

- INSC 70130 Managing Risk and Uncertainty (1.5 units, Elective): each Spring, 2013-2017
- INSC 60023 Manufacturing & Services Operations Management (3.0 units, Core): ea. Spring, 2004-2011
- INSC 70693 Master of Science in Supply Chain Management Field Study Project: Spring, 2015-2016 (course coordinator and advisor to three students); Fall 2016, Spring 2019 (advisor to one student)
- INSC 70970 Six Sigma Green Belt for Managers (3.0 units, Elective): each Summer 2018-2021
- INSC 70970 Independent Study (Elective): four students, 2004, 2006-2008
- INSC 71000 Project Management (1.5 units, Elective): each Fall, 2004-2009; each Spring, 2012-2016
- INSC 71010 Program Management (1.5 units, Elective): each Fall, 2004-2009; each Spring, 2012-2016

### III.2.2 Undergraduate Course

- INSC 40970 Supply Chain Process Analysis and Improvement: Fall, 2011

### III.2.3 International Course

- Doing Business in China (Hong Kong, Shenzhen, Dongguan, Guangzhou, Macau): Spring 2009

### III.2.4 Executive Education Courses (TCU and External)

- Strategic Project Management: Fall 2021
- Six Sigma Green Belt Certification: May 2016, May 2017
- Leading Process Improvement: Dec. 2013
- Introduction to Project Management: Summer 2009, Fall 2012, Spring 2013
- Developing Operational Excellence: Fall 2006, Fall 2009
- Lean, Just-In-Time, and Inventory Management: Fall 2006

## III.3 Other Teaching Interests

- Enterprise operations management
- Process-based management
- Technology and innovation management
- Systems modeling and analytics
- Decision analysis

## III.4 Continuing Education for Professional Development

- SAP Innovation Alliance training: Business Intelligence I, Aug. 2008
- Introduction to ERP and SAP for classroom use, June, 2007
- Harvard Business School seminar on "The Art and Craft of Discussion Leadership" (teaching with the case method), 2003

## III.5 Teaching Honors and Awards

- **Rob Rhodes Professor of the Year, 2021**
  - "The Neeley School's highest internal recognition for sustained, high-quality institutional accomplishments in research, teaching, and service"
- Neeley School of Business nominee for the **TCU Chancellor's Award for Distinguished Achievement as a Creative Teacher and Scholar, 2013**
- Neeley School **Graduate Teaching Award** (overall), 2020
- Neeley School **Graduate Teaching Award – MBA electives**, 2015
- Neeley School **Graduate Teaching Award – MBA core**, 2007
- Annually voted a "Favorite Professor" by the graduating MBA classes: 2013-2021
- Nominated by an MBA student for the "Wassenich Award for Mentoring in the TCU Community," 2005

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## IV. Service

### IV.1 Academic Committees

#### IV.1.1 Departmental Level

- Chair, Assistant Professor and PPP search committees: 2014-2015, 2021
- Chair, Department Chair Advisory Committee (DCAC): 2021
- Chair, department chair search committee: 2012-2013
- Numerous departmental citizenship activities (research presentations, curriculum meetings, etc.)

#### IV.1.2 College/School Level

- Faculty Evaluation Committee: 2013-2015, 2020-
- Teaching Effectiveness Committee: 2018-2020
- Dean search committee, Neeley School of Business: 2019
- Dean's Neeley School 2020 Strategic Planning Committee: 2016-2018
- Associate Dean for Graduate Programs, search committee: 2016
- Dean's Advisory Committee: 2009-2012
- Critical Thinking committee and START Workshop presenter: 2013-2020
- Nominating committee for Deans' Research and Teaching Awards: 2013
- Nominating committee for Chancellor's Award for Distinguished Achievement as a Creative Teacher and Scholar: 2014
- MBA Core Faculty: each Spring, 2004-2011, 2021; each Fall, 2011-2016, 2018-2019
- PMBA Core Faculty: each Spring, 2004-2006
- Numerous school citizenship activities (especially MBA events)

#### IV.1.3 University Level

- Numerous university citizenship activities (commencements, convocations, meetings, etc.)
- TCU University Advisory Committee: 2017-2020 (Chair, 2019-2020)
- TCU Traffic Regulations and Appeals Committee: 2014-2017
- TCU Evaluation Committee: 2004-2009
- Joint Engineering/Management M.S. degree Committee: 2003-2007
- Visiting Committee for Physics Dept. at Abilene Christian University: 2008-2011
- Visiting Committee for Honors Program at Abilene Christian University: 2003-2007

### IV.2 Recommendation and Evaluation Letters

- Writing numerous recommendations for students
- Writing numerous recommendation, nomination, support, and evaluation letters for colleagues
- Writing numerous external evaluation letters for promotion and/or tenure
- Providing student references for employers

### IV.3 Academic Advising (Including Theses)

- Honors Project committees (2006, 2017)
- Faculty advisor for Neeley & Associates Consultants student teams (8 teams since 2007)
- Doctoral thesis examiner for Morten Wied, Technical University of Denmark (Dec. 2020)
- Doctoral thesis jury member for Jelena Petronijevic, Arts et Métiers ParisTech (Sept. 2020)
- Doctoral thesis examiner for Christoph Hollauer, Technical University of Munich (TUM) (Fall 2017 – Fall 2019)
- Doctoral thesis examiner for David Allaverdi, TUM (Fall 2015 – Fall 2017)
- Doctoral thesis jury member for Louis-Philippe Kerkhove, Ghent University (Summer 2016)
- Doctoral thesis examiner for Daniel Kasperek, TUM (Fall 2015 – Summer 2016)
- Habilitation thesis examiner for Dr. Maik Maurer, TUM (March 2016)
- Doctoral thesis examiner for Frank Deubzer, TUM (Fall 2009 – Summer 2015)
- Habilitation (teaching post-doc) examiner for Dr. Maik Maurer, TUM (Summer 2011)
- Doctoral thesis committee for Christoph Meier, TUM (Fall 2007 – Summer 2011)
- Doctoral thesis committee for Sidarth Rupani, Massachusetts Institute of Technology (Fall 2008 – Fall 2010)
- Doctoral thesis advisor for Viktor Lévárđy, TUM (Fall 2003 – Fall 2006), who received the best dissertation award from the German Project Management Foundation (German Chapter of the International Project Management Association)
- Master's thesis advisor for Christoph Meier, TUM (Fall 2004 – Summer 2005), who received the best thesis of the year award from the German Systems Engineering Society and a cash award of €2500

## IV.4 Memberships in Professional Organizations

- Academy of Management (AOM), 2018-present
- Association for Supply Chain Management (ASCM), 2019-present
- Decision Sciences Institute (DSI), 2007-2008, 2015-present
- European Operations Management Association (EurOMA), 2021-present
- Institute for Operations Research and the Management Sciences (INFORMS), 2002-present
- International Council on Systems Engineering (INCOSE), 1995-present
- Production and Operations Management Society (POMS), 2006-present
- Project Management Institute (PMI), 2017-present
- American Institute of Aeronautics and Astronautics (AIAA), 1995-2000

## IV.5 Service to Professional Groups

### IV.5.1 Boards and Advisory Groups

- POMS College of Operational Excellence (OpEx), Advisory Committee, 2019-present
- *Management and Business Review* (MBR) Advisory Board, 2018-present
- Project Management Institute (PMI) Academic Member Advisory Group (AMAG), Academic Insight Team (AIT), 2018-2021
- *Complex and Enterprise Systems Engineering* book series (Taylor & Francis), Advisory Board, 2008-2012

### IV.5.2 Editorial Positions

- *Journal of Operations Management*
  - **Co-Editor-in-Chief, 2018-2023**
  - Associate Editor, 2015-2017
  - Editorial Review Board, 2015-2017
- *IEEE Transactions on Engineering Management*
  - **Department Editor (inviting and managing review teams)**, 2014-2017
  - Editorial Review Board, 2010-2014
- *Systems Engineering*
  - **Associate Editor (inviting and managing review teams)**, 2013-2018
  - Editorial Review Board, 2003-2012
- *Journal of Modern Project Management*
  - Academic Editor (primary advisor to the Editor-in-Chief), 2021-2022
  - Editorial Board, 2013-2020
- *International Journal of Operations and Production Management*, special issue guest co-editor, 2016-2018

### IV.5.3 Journal Editorial Outreach Presentations (60 presentations since 2016)

### IV.5.4 Ad-hoc Reviews for Journals (260 total manuscripts, inc. revisions)

### IV.5.5 Conference Session Chair / Panelist / Discussant / Organizer Roles

- International Design Structure Matrix (DSM) Conference (annual): Program Chair and Local Chair (Host), 2015; Session Chair, 2003-2004, 2007-2021; Technical Co-Chair, 2005-2006; Planning Committee, 2009-2021; Scientific Committee, 2009-2021
- *Journal of Operations Management (JOM)* mini-conference: Co-organizer and program co-chair, 2020-2021
- POMS annual conference: Discussant, 2008; Track Co-Chair for the Product Innovation and Technology Management track, 2009; panelist, 2018, 2022; Twitter eDebate Thought Leader, 2018; OpEx mini-conference, panelist, 2019
- TCU Neeley School of Business Dean's Research Seminar Series (DRSS): Panelist, 2020
- Utility Supply Management Association (Fort Worth, TX): Panelist, 2017
- POMS Wickham Skinner Award for Teaching Achievements, Award Committee Member, 2017
- DSI Annual Conference: Track Chair for the R&D and NPD Track, 2016; Panelist, 2019, 2021
- International Conference on Engineering Management (Xi'an Jiaotong University): Discussant, 2016
- International Design Conference: Session Chair, 2012
- International Conference on Modelling and Management of Engineering Processes (MMEP): Program Committee, 2010; Session Chair, 2010
- INFORMS Annual Conference: Session Organizer and Chair, 2005
- INCOSE Annual Conference: Session Chair, 2004
- World Conference on P&OM (co-organized by EurOMA, POMS, and JOMSA): Scientific Committee, 2016
- Knowledge Roundtable teleconference on Six Sigma in Product Development: Panelist, 2005
- AMA Consortium on Supply Chain Management: Session Chair, 2003
- D.H. Brown Associates Product Lifecycle Roadmap (PLM) Conference: Panelist, 2003

- Conference on Systems Integration: Session Moderator, 2003
- Lean Aerospace Initiative (LAI) focus team conference: Co-organizer, 2002

#### IV.5.6 Society Officer Positions and Elected Roles

- Secretary, POMS College of Product Innovation and Technology Management, 2010-2012

## V. Industry Experience

### V.1 Full-Time Appointments

#### **Lockheed Martin Aeronautics Company** Fort Worth, Texas

*Senior Project Manager*, Integrated Company Operations, Architecture and Process Integration, 2000-2003.

Technical lead for development of Enterprise Processes and process architecture for entire company. Technical expert and consultant for process concepts, methods, and metrics. Helped develop strategy for process-driven company. Supported creation of company-wide operations "war room." Coordinated quarterly review of company-level objectives. Provided technical expertise in process definition, improvement, and management. Functional boundary spanner. Mentor. Good working relationships with executives. DoD Secret security clearance.

*Senior Specialist*, Engineering, Advanced Process Integration, 1999-2000. Internal consulting and applied research.

Developed and applied new process modeling and project management methods to F-16, F-35, and other programs. Completed special assignment to transfer best practices in engineering processes from across the corporation. Called upon often as consultant by programs. Led successful, one-year, software development project on schedule and within budget. DoD Secret security clearance.

#### **Honeywell, Inc.** Clearwater, Florida

*Software Development Engineer*, 1993

*Summer Intern*, Software Simulation Developer, 1990

Developed software in FORTRAN, Pascal, and C.

### V.2 Industry Honors and Awards

- Special Recognition Award and bonus for "leading and supporting process improvements and increasing process awareness," Lockheed Martin, Dec. 2000

### V.3 Consulting Engagements

- ATPCO (Airline Tariff Publishing Company) (Dulles, VA), 2021 (travel sector)
- Booz Allen Hamilton (McLean, VA), 2009 (government sector)
- BNSF Railway (Fort Worth, TX), 2010-2011 (transportation sector)
- Cs Solutions (Euleess, TX), 2007 (oil and gas exploration sector)
- D.H. Brown Associates (later CPD Associates; Port Chester, NY), 2003 (industry research sector)
- GenCorp AeroJet (now Northrop Grumman; El Segundo, CA), 2001 (aerospace sector)
- General Motors, Vehicle Development Research Lab (Warren, MI), 2007-2008 (automotive sector)
- Husch Blackwell LLP (Dallas, TX), 2017-2018 (expert witness)
- Innosight/Boeing (Philadelphia, PA), 2013 (aerospace sector)
- Lhoist (Fort Worth, TX), 2014 (construction/commodities sector)
- Lockheed Martin Aeronautics Company (Fort Worth, TX), 2006 (aerospace sector)
- Lockheed Martin Corporation (Bethesda, MD), 2006, 2007 (complex systems sector)
- Oncor (Fort Worth, TX), 2020 (utilities sector)
- ReliabilityFirst (Akron, OH), 2012, 2020, 2021 (utilities sector)
- Seagate Technology (Bloomington, MN and Londonderry, Northern Ireland), 2005-2007 (data storage sector)
- Siemens Healthcare Diagnostics (Tarrytown, NY), 2017 (medical equipment sector)
- Southern California Edison (Rosemead, CA), 2007-2008 (utilities sector)
- U.S. Navy, Office of Naval Research (Washington, DC), 2008-2011 (ship design sector)