Michael D. Sherwin, Ph.D., P.E., CLSSBB

Assistant Professor of Supply Chain Management
Palumbo-Donahue School of Business
Duquesne University

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I. PROFESSIONAL PREPARATION AND EXPERIENCE

A. EDUCATION

Ph.D. Mississippi State University Industrial and Systems Engineering August 2018

M.B.A. Carnegie Mellon University May 2008

M.S. Penn State University Industrial Engineering December 2001

B.S. Penn State University
Materials Science and Engineering
December 1999

B. WORK HISTORY

1. Academic Appointments

2022 – Present	Assistant Professor of Supply Chain Management Duquesne University Palumbo-Donahue School of Business
2020 – 2022	Assistant Professor of Industrial Engineering University of Pittsburgh Swanson School of Engineering
2017 – 2021	Adjunct Faculty, Supply Chain Management Duquesne University Palumbo-Donahue School of Business

Last Updated: 09 SEP 2025 Page 1 of 28

2016 – 2021 Adjunct Faculty, Business

Chatham University

2012 – 2016 Adjunct Faculty, Engineering

Robert Morris University

2. Non-Academic Appointments

Next Ridge Technologies, LLC

2020 – Present Principal Consultant

Provide consulting and training services to organizations on

supply chain, quality, and operations management.

Licensed provider of ASQ training materials.

Curtiss Wright

2019 Lead, Forensic Analysis

Responsible for developing and implementing methodologies to identify the problem, root causes and contributing causes, and develop corrective and preventive actions for a reactor coolant pump fault at the Sanmen 2 AP1000 reactor in China. Co-authored report that was submitted to the customer and regulatory authority for approval. Led forensic material analysis and laboratory testing to determine failure modes and ultimate causes. Member of team that presented findings to the customer, utility, and regulatory authorities. Conducted quantitative probabilistic risk assessments to ascertain probability of recurrence. Developed methodology for in-situ inspection to monitor installed plant equipment. Coordinated root cause analysis process and facilitated brainstorming,

FMEA, and other sessions.

2014 – 2019 Senior Manager, Supplier Quality Excellence

Responsible for establishing the organization's

transformation processes related to supplier performance based on Lean and Six Sigma methodologies. Implement APQP and PPAP methodologies with key suppliers to prevent quality and delivery issues. Establish leader standard work and visual management tools for improved resource planning. Additional responsibilities include

managing the site's internal audit program.

2013 - 2014

Senior Manager, Process Improvement Responsible for establishing the division's Continuous Improvement Organization and chartering the implementation strategy. Coach, lead, and facilitate subsequent deployment activities utilizing Lean and Six Sigma tools to drive improvements in Safety, Quality, Delivery, and Cost. Implement and serve as Chairperson for the division's Continuous Improvement Steering Committee. Align, coach, and direct the work of Lean Six Sigma Master Black Belt and Continuous Improvement Engineers. Facilitate kaizen events. Lead Root Cause Analysts, improve division's corrective action request process, and facilitate root cause analysis and problem solving sessions. Develop and conduct training focused on Six Sigma tools for the Continuous Improvement Organization as well as for the division. Facilitate the division's Hoshin planning process.

2012 - 2013

Manager, Quality System Excellence Responsible for the Root Cause Analysis and Corrective Action process team, Quality Assurance process improvements, implementing data-based decision methodologies, Quality Council, leading monthly leadership Quality Review process, Strategy Deployment, and supporting continuous improvement initiatives across the division.

2011 - 2012

Manager, Quality Assurance Engineering
Responsible for Quality Assurance Engineering (Defense,
Process, and Commercial Nuclear market segments),
Supplier Quality Engineering, improving Quality System
processes through the use of Lean and Six Sigma
methodologies, leading Hoshin Planning and Strategy
Deployment initiatives, and serving as an internal
consultant for Lean deployment throughout the division.

Precision Therapeutics

2010 - 2011

Director, Quality Systems and Improvement Reporting to the CEO, responsible for directing, establishing, and improving all corporate quality management systems (cGMP-based environment), which included Operational Excellence, Quality Control, Laboratory Training, and Regulatory Affairs. Involved in and led bioinformatics studies used to identify causal relationships between outcomes and process variables. 2009 - 2010

Operational Excellence Leader

Responsible for coaching and mentoring members of the Operations team in problem-solving using Lean manufacturing and Six Sigma methodologies. Led, developed, and implemented Lean Six Sigma training, metrics, and continuous improvement programs. Through the use of statistical methods, led root cause analysis investigations.

Kennametal

2007 - 2009

Operations Manager and Site Leader

Site Leader responsible for managing and integrating all facets of operations related to a newly acquired business, which included overseeing production, Lean manufacturing, maintenance, quality, safety, planning, inventory control, customer service, financial reporting, and purchasing functions. Implemented the Kennametal Value Business System and led cultural change based on Lean principles.

2007

Project Manager

Responsible for managing a variety of manufacturing and process improvement projects as assigned. Utilized Lean principles in designing and establishing a production system to produce Defense products, which included transferring material science and production technology knowledge from an international manufacturing facility to the United States. As part of this project, directed an international cross-functional project team that included more than 30 team members. Additional projects focused on continuous improvement, new product development, Six Sigma, and capital purchases.

2005 - 2007

Manager, Quality and Manufacturing Engineering Responsible for designing and implementing standardized quality systems throughout the facility. Analyzed key manufacturing data and recommended continuous improvement and optimization projects. Developed systems and procedures and conducted training to prepare the facility for ISO9001:2000 certification. Directed and oversaw the day-to-day activities of the material analysis lab.

Crucible Compaction Metals (now ATI)

2004 – 2005 Materials and Process Engineer

Responsible for metal powder gas atomization process engineering, product engineering for the Aerospace and Process industries. Using designed experiments, developed new powder metal alloys for use in Aerospace and Defense

applications.

AMTellect, Inc.

2002 – 2004 Marketing Engineer

Part of a start-up team that established a materials research center with a core mission of decreasing product incubation

periods by assisting customers in design for

manufacturability. Worked with customers to develop costeffective design for manufacturability solutions using metal injection molding. Responsible for data-driven market research to assess new business development opportunities

and alignment with strategy.

Westinghouse Electric Company

2001 – 2002 Industrial Engineer

Responsible for capital improvement projects, supporting maintenance operations, and process improvements.

C. PROFESSIONAL CERTIFICATIONS

2023	ASCM Supply Chain Planning Certificate
2021 – Present	ASQConnEx Licensed Training Partner
2016 – Present	Registered Professional Engineer (PA, PE084940)
2010 – Present	ASQ Certified Lean Six Sigma Black Belt
2009 – Present	ASQ Certified Lean Six Sigma Green Belt
2017	Curtiss Wright Way Level I Practitioner
2014 - 2011	ASME NQA-1 Qualified Lead Auditor
2008	Graduate, Dale Carnegie Leadership
2007	Kennametal, Six Sigma Green Belt
2007	Graduate, Center for Creative Leadership
2005	QFD Institute, Quality Function Deployment Green Belt
2005	Kennametal, Failure Mode and Effects Analysis Green Belt
2005	Kennametal, Quality Function Deployment Green Belt

Last Updated: 09 SEP 2025

D. MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

2025 – Present	Council of Supply Chain Management Professionals
2017 – Present	Institute of Industrial and Systems Engineering
2013 – Present	Institute for Operations Research and Management Science
2011 – Present	American Society for Quality
2020 - 2022	American Society for Engineering Education
2014 - 2017	Nuclear Industry Assessment Committee

II. TEACHING

A. GRADUATE COURSES TAUGHT

1. Duquesne University

SCMG 527: Supply Chain/Operations Management

Fall 2025

Fall 2024

Fall 2023

Fall 2022

Summer 2019

Summer 2018

Summer 2017

SCMG 616: Supply Chain Process Improvement (LSSGB)

Spring 2025

Spring 2024

Spring 2023

SCMG 620: Forecasting and Demand Management

Summer 2025

Summer 2024

Summer 2023

Summer 2021

SCMG 639: Supply Chain Management Strategic Capstone

Spring 2025

SCMG 727: Supply Chain / Operations Management

Fall 2025

Fall 2024

Fall 2023

Fall 2022

2. University of Pittsburgh

IE 2025: Facility Layout and Material Handling

Fall 2021

Fall 2020

IE 2203: Warehouse Operations

Spring 2022

Spring 2021

3. Chatham University

BUS 513: Logistics and Operations

Fall 2016

BUS 698: Strategy and Entrepreneurship

Spring 2017

4. Jack Welch Management Institute

JWI 550: Operations Management

Fall 2019

B. UNDERGRADUATE COURSES TAUGHT

1. Duquesne University

SCMG 267: Supply Chain Operations Management

Fall 2024

SCMG 375: Supply Chain Process Improvement (LSSYB)

Fall 2025

Spring 2025

SCMG 480: Forecasting, Production, and Inventory Management

Fall 2025

Fall 2024

Spring 2024

Fall 2023

Spring 2023

Fall 2022

2. University of Pittsburgh

ENGR 0038: Plus3 Global Experience

Summer 2022

IE 1080: Supply Chain Analysis

Spring 2022

Spring 2021

Spring 2020

IE 1090: Senior Design Capstone Course

Spring 2022

Fall 2021

Spring 2021

Fall 2020

Summer 2020

IE 1055: Facility Layout and Material Handling

Fall 2021

Fall 2020

IE 1072: Design of Experiments

Fall 2021

Fall 2020

Spring 2020

Fall 2019

IE 1203: Warehouse Operations

Spring 2022

Spring 2021

3. Chatham University

BUS 301: Continuous Improvement Methods

Spring 2021

Fall 2020

Spring 2020

Spring 2018

Spring 2017

BUS 413: Logistics and Operations

Fall 2020

Fall 2019

Fall 2018

Fall 2017

Fall 2016

BUS 423: Continuous Improvement Project Course

Spring 2020

4. Robert Morris University

ENGR 3680: Introduction to Quality Engineering

Spring 2016

Fall 2015

Spring 2015

Spring 2014

Spring 2013

Spring 2012

ENGR 3800: Optimization Techniques

Fall 2013

C. ACADEMIC ADVISEMENT OR SUPERVISION

1. Thesis Committees as a Member

University of Pittsburgh

2022 Robert Lois

MS, Mechanical Engineering University of Pittsburgh

Thesis: "Supply Chain Risk Assessment through Data-

Driven Bayesian Networks"

2. Graduate Advisees/Supervisees

Duquesne University

2025 – Present Maximilian Hradecny

MBA/MS in Analytics and Information Management School of Business Administration Graduate Assistant Research Projects: Supplier Obsolescence Prediction, Current Perceptions of Operational Excellence in Small-to

Medium-Sized Enterprises, Predicting Supplier

Performance

2023 – 2024 Jacob Hanzlik

MBA

School of Business Administration Graduate Fellow Research Project: Multi-Stage Food Manufacturing

Scheduling Optimization

Last Updated: 09 SEP 2025 Page 9 of 28

The University of Texas at San Antonio

2024 – Present Dai Nam Nguyen

PhD Candidate

Dept of Mechanical, Aerospace, and Industrial Engineering

Research Project: Multi-Stage Food Manufacturing

Scheduling Optimization

Duquesne University – Lean Six Sigma Green Belt Candidates

2025 – Present Leila Leskuski

MS, Supply Chain Management Project Sponsor: Highmark Health

Project: Improve Procurement Workflow Certification: In Process (started Fall 2024)

2025 – Present Malco Diletia

MS, Supply Chain Management Project Sponsor: Heidelberg Materials Project: Minimize Freight Deadheading

Certification: In Process (started Spring 2025)

2025 – Present Marty Elliott

MS, Supply Chain Management Project Sponsor: Curtiss Wright

Project: TBD

Certification: In Process (started Spring 2025)

2025 – Present Monique Gomes

MS, Supply Chain Management Project Sponsor: Heidelberg Materials

Project: Fleet Decision Tool

Certification: 2025

2025 – Present Michael Kamphandira Jere

MS, Supply Chain Management

Project Sponsor: Heidelberg Materials

Project: Bulk Material Inventory Optimization Certification: In Process (started Spring 2025)

2025 – Present Sydney Stone

MS, Supply Chain Management Project Sponsor: Stover & Company Project: Adobe Shipstation Integration

Certification: In Process (started Spring 2025)

Last Updated: 09 SEP 2025 Page 10 of 28

2025 – Present Ferwa Zahid

MS, Supply Chain Management Project Sponsor: Heidelberg Materials Project: Improve Yard Layout and Flow Certification: In Process (started Spring 2025)

2025 – Present Olufunmilayo Taiwo

MS, Supply Chain Management Project Sponsor: Harrmonee, LLC

Project: Standardization of Delegation Rules Certification: In Process (started Spring 2025)

2024 Likith Pamuru

MS, Supply Chain Management Project Sponsor: Prominent

Project: Capacity Expansion via Efficiency Improvements

Certification: 2024

2024 Lakshmi Puchhakayala

MS, Supply Chain Management Project Sponsor: Prominent

Project: Capacity Expansion via Efficiency Improvements

Certification: 2024

2024 – Present Geert Bijl

MS, Supply Chain Management

Project Sponsor: Duquesne University SBDC

Project: Client-Consultant Matching Process Improvement

Certification: In Process

2024 – Present Andrei Savrasov

MS, Supply Chain Management

Project Sponsor: Duquesne Men's Basketball Team Project: Availability of Drinking Water Inventory

Certification: In Process

Surabhi Loya

MS, Supply Chain Management

Project Sponsor: Kobold

Project: Warehouse Layout Optimization

Certification: 2024

2024 – Present Bailey Miller

MS, Supply Chain Management

Project Sponsor: Axe & Sledge Supplements

Project: TBD

Certification: In Process

2024 Mary Nyamvumba

MS, Supply Chain Management

Project Sponsor: Kobold

Project: Warehouse Layout Optimization

Certification: 2024

2024 Cristy Sevem

MS, Supply Chain Management

Project Sponsor: Duquesne University, Palumbo-Donahue

School of Business, Center for Student Success Project: Transfer Student Process Improvement

Certification: 2024

2023 – 2024 Blesson Yohannan

MS, Supply Chain Management

Project Sponsor: MSA

Project: Streamlined Carton Management

Certification: 2024

2023 Charles Bookheimer

MS, Supply Chain Management

Project Sponsor: PPG

Project: Laboratory Pilot Batch Process Improvement

Certification: 2023

2023 Benjamin Korpiel

MS, Supply Chain Management Project Sponsor: Leonards Express

Project: Reducing Deadheading and Increasing Margins

Certification: 2023

2023 Axelle Sterkendries

MS, Supply Chain Management Project Sponsor: GlobalPittsburgh

Project: Streamlining the Data Management Process

Certification: 2023

2023 Emmanuella Nnodim

MS, Supply Chain Management Project Sponsor: Freshens Project: Reducing Food Waste

Certification: 2023

2023 Jonathan Kallon

MS, Supply Chain Management Project Sponsor: Freshens Project: Reducing Food Waste

Certification: 2023

3. Undergraduate Advisees/Supervisees

Duquesne University – Sponsor for BUAD 401 Interns

2025 **Brennen Tarrant** BS, Supply Chain Management Internship at Bechtel Plant Machinery, Inc. (BPMI) 2025 **Zachary Singer** BS, Supply Chain Management Internship at Bechtel Plant Machinery, Inc. (BPMI) Marissa Panzetta 2025 BS, Supply Chain Management Internship at Kobold 2025 Sarah Martin BS, Supply Chain Management Internship at Kobold 2024 Jazlyn Yanssens BS, Supply Chain Management Internship at Bechtel Plant Machinery, Inc. (BPMI) 2024 Noah Baumann

2024 Jazlyn Yanssens

BS, Supply Chain Management Internship at Eos Energy Storage

BS, Supply Chain Management Internship at Eos Energy Storage

<u>Duquesne University – Undergraduate Research Assistants</u>

2023 – 2024 Benjamin Sadler

BS, Computer Science

Naval Engineering Education Consortium Researcher Research Project: "Obsolescence Prediction Toolkit in

Critical Supply Chain Management"

2023 – 2024 Sarah Martin

BS, Supply Chain Management

Naval Engineering Education Consortium Researcher Research Project: "Obsolescence Prediction Toolkit in

Critical Supply Chain Management"

2022 – 2024 Olivia Greene

BS, Supply Chain Management

Naval Engineering Education Consortium Researcher Research Project: "Obsolescence Prediction Toolkit in

Critical Supply Chain Management"

<u>University of Pittsburgh – Undergraduate Research Assistants</u>

2021 – 2022 Alison Linares Mendoza

BS, Industrial Engineering

Research Project: "Success Factors in a Project-Based Industrial Engineering Senior Design Capstone Course"

Mississippi State University – Undergraduate Research Assistants

2015 – 2018 Kennedy Brown

BS, Industrial Engineering

Research Project: "Identifying and Mitigating Supply

Chain Risks Using Fault Tree Optimization"

University of Pittsburgh – Undergraduate Student Academic Advisees

2021 – 2022 Katrina Vongrej

BS, Industrial Engineering

2021 – 2022 Yi Wei

BS, Industrial Engineering

2021 – 2022 Sean Zubey

BS, Industrial Engineering

Student

4. High School Advisees/Supervisees

Researchers

2022 – 2024 Puraav Karnavaat

High School Student Lambert High School

Research Project: "Effect of Political Disruptions on Supply Chain Risk: The Cobalt Supply Chain"

D. PUBLICATIONS PERTAINING TO TEACHING ACTIVITIES

Sherwin, Michael, Alison Linares Mendoza, Renee M. Clark. "Success Factors in a Project-Based Industrial Engineering Senior Design Capstone Course." 2022 ASEE Annual Conference Proceedings. Minneapolis, Minnesota, USA. 2022.

Sherwin, Michael Daniel and Bopaya Bidanda. "Effects of Pedagogical Changes to an Engineering Capstone Course During the COVID-19 Pandemic." 2021 ASEE Annual Conference Proceedings. Virtual. 2021.

E. PRESENTATIONS PERTAINING TO TEACHING

Sherwin, Michael, "Success Factors in a Project-Based Industrial Engineering Senior Design Capstone Course", ASEE 2022 (Minneapolis, MN), July 2022.

Sherwin, Michael, "Effects of Pedagogical Changes to an Engineering Capstone Design Course During the COVID-19 Pandemic", ASEE 2021 (Long Beach, CA), July 2021.

Schmidt, David, Ahmed Dallal, and Michael Sherwin, "Jam Sessions: Design Courses & Capstones", University of Pittsburgh Swanson School of Engineering Fall 2020 Preparation Sessions, July 2020.

F. HONORS AND AWARDS RECEIVED FOR TEACHING ACTIVITIES

2025	Nominee, IISE Operational Excellence Division Teaching Award
2024	Finalist, SOBA Outstanding Teaching Award
2022	Mentor, First Place in IE Division, Engineering Design EXPO
2021	Mentor, First Place in IE Division, Engineering Design EXPO
2021	Gold Award Winner, IISE Pittsburgh Student Chapter
2020	Outstanding Regional Faculty Advisor, Northeast Region IISE

Last Updated: 09 SEP 2025 Page 15 of 28

III. SCHOLARSHIP

A. SCHOLARLY PUBLICATIONS

1. Scholarly Journals

Sherwin, Michael, Hugh Medal, Cameron MacKenzie, and Maximilian Hradecny. "A machine learning approach for engineer-to-order firms to predict supplier performance in critical supply chains." International Journal of Management Science and Engineering Management (2025): 1-19.

Zhou, Rui, Tanveer Hossain Bhuiyan, Hugh Medal, Michael Sherwin, and Dong Yang. "A Stochastic Programming Model with Endogenous Uncertainty for Selecting Supplier Development Programs to Proactively Mitigate Supplier Risk", Omega, ISSN 0305-0483 (2021).

Sherwin, Michael D., Hugh R. Medal, Cameron A. MacKenzie, and Kennedy J. Brown. "Identifying and mitigating supply chain risks using fault tree optimization", IISE Transactions 52:2 (2020): 236-254.

Sherwin, Michael D., Hugh Medal, and Steven A. Lapp. "Proactive cost-effective identification and mitigation of supply delay risks in a low volume high value supply chain using fault-tree analysis." International Journal of Production Economics 175 (2016): 153-163.

2. Conference Proceedings

Hurtado, Carlos, M. Amin Rahimian, Michael Sherwin. "Adaptive robust stochastic optimization of product—supply chain codesign subject to shocks." 2022 IISE Annual Conference Proceedings. Seattle, Washington, USA. 2022.

Sherwin, Michael, Alison Linares Mendoza, Renee M. Clark. "Success Factors in a Project-Based Industrial Engineering Senior Design Capstone Course." 2022 ASEE Annual Conference Proceedings. Minneapolis, Minnesota, USA. 2022.

Sherwin, Michael Daniel and Bopaya Bidanda. "Effects of Pedagogical Changes to an Engineering Capstone Course During the COVID-19 Pandemic." 2021 ASEE Annual Conference Proceedings. Virtual. 2021.

Last Updated: 09 SEP 2025 Page 16 of 28

B. PUBLICATIONS BY MAJOR ACADEMIC PUBLISHING COMPANIES

1. Book Chapters

Drake, Matthew and Michael Sherwin. Chapter 19: Information Systems and Supply Chain Digital Transformation. In: Research Handbook on Information Systems and Society. Edward Elgar Publishing, 2024.

Sherwin, Michael D. Chapter 49: Quality Control. In: Maynard's Industrial Engineering Handbook, Sixth Edition. McGraw-Hill Standard Handbooks, 2023. Note: Authorship attributed to the University of Pittsburgh.

Sherwin, Michael D. Chapter 52: Quality Management. In: Maynard's Industrial Engineering Handbook, Sixth Edition. McGraw-Hill Standard Handbooks, 2023. Note: Authorship attributed to the University of Pittsburgh.

2. Professional Manuals

Sherwin, Michael D. "COVID-19: A Wake-Up Call for Supply Chain Professionals". In: The Future of Global Supply Chains Post-Pandemic, Global Manufacturing & Industrialization Summit Knowledge Hub. August 2020.

C. GRANTS AWARDED

1. Funded

Agency: Office of Naval Research (NavalX)

Title: "A Conversational AI Agent for Automating and

Improving System-Level Part Obsolescence Management

at the Enterprise Scale"

Dates: May 2025 – April 2026 Role: Co-Principal Investigator

Funds Received: \$50,000

Agency: Duquesne University School of Business Administration
Title: "Multi-Objective Scheduling Optimization in Perishable

Multi-Stage Food Manufacturing to Minimize Waste and

Maximize Service Level"

Dates: May 2025 – August 2025 Role: Principal Investigator

Funds Received: \$8,000

Last Updated: 09 SEP 2025 Page 17 of 28

Agency: Office of Naval Research, Naval Sea Systems Command

(NAVSEA) Naval Engineering Education Consortium

(NEEC)

Title: "Artificial Intelligence Models for Predicting Supply

Chain Failures and Their Impacts"

Dates: August 2022 – July 2024 Role: Co-Principal Investigator

Funds Received: \$77,055

2. Unfunded

Agency: America Makes

Title: "Impact of Recycled Commercially Pure Grade 2

Titanium Feedstock on the Environmental Sustainability and Material Performance of Additive Manufacturing

Operations"

Dates: November 2023 – October 2025 Role: Senior Personnel / Collaborator

Funds Requested: \$20,000

Agency: Department of Homeland Security Center for Accelerating

Operational Efficiency at Arizona State University

Title: "Checkpoint and Fleet Optimized Surveillance for Border

Protection"

Dates: July 2024 – June 2027 Role: Principal Investigator

Funds Requested: \$522,181 (Duquesne share = \$227,567)

D. SCHOLARLY PRESENTATIONS (Presenter listed first)

Sherwin, Michael and Dai Nam Nguyen. "Multi-Objective Scheduling Optimization in Perishable Multi-Stage Food Manufacturing to Minimize Waste and Maximize Service Level", IISE Annual Conference (Atlanta, GA), May 2025.

Sherwin, Michael. "Supplier Auditing and Scorecards", Unimarket Spark 2025 eProcurement Conference (Pittsburgh, PA), May 2025.

Sherwin, Michael, "Sustainable Supply Chains" [Invited Panelist], Pittsburgh Technology Council Sustainability Conference (Pittsburgh, PA), November 2024.

Sherwin, Michael, "Maintaining Readiness Through Supply Chain Risk Management" [Invited Panelist], 2024 AAAA Cribbins Readiness Conference (Huntsville, AL), November 2024.

Sherwin, Michael, "Supply Chain Risk Management: A Framework" [Keynote Address], 2024 Department of Defense Supply Chain Risk Management Summit (Tysons, VA), June 2024.

Sherwin, Michael and Sarah Martin. "Understanding the Key Factors and Predicting Product Obsolescence in Electronic Components used in Critical Supply Chains", IISE Annual Conference (Montreal, Quebec), May 2024.

Sherwin, Michael and Olivia Greene. "Understanding the Key Factors Associated with Obsolescence Risk in Critical Supply Chains", INFORMS Annual Meeting (Phoenix, AZ), October 2023.

Sherwin, Michael, "Adapting to the Changing Landscapes in Supply Chain Management" [Invited Presentation], Future of Obsolescence Management Conference (Boston, MA), September 2023.

Sherwin, Michael, "Navigating the Complexities of Supply Chain Risks" [Invited Presentation], Zoll Medical Global Operations Summit (Chelmsford, MA), October 2022.

Sherwin, Michael, "Success Factors in a Project-Based Industrial Engineering Senior Design Capstone Course", ASEE Annual Conference (Minneapolis, MN), July 2022.

Sherwin, Michael, "Continuous Quality Improvement", Chatham University, HCI504 Project Management Guest Lecture, May 2022.

Sherwin, Michael, "Working in Industry", University of Pittsburgh Swanson School of Engineering Preparation for a STEM Academic Career Graduate Student Seminar, February 2022.

Sherwin, Michael, Bangalore Chamber of Industry and Commerce (BCIC), "Digital Supply Chains", September 2021.

Sherwin, Michael, "Effects of Pedagogical Changes to an Engineering Capstone Design Course During the COVID-19 Pandemic", ASEE Annual Conference (Long Beach, CA), July 2021.

Sherwin, Michael, Delivered Inaugural Address and served as Chief Guest for the RV College of Engineering Faculty Development Program on "Achieving Operational Excellence by Digital Supply Chain", June 2021.

Sherwin, Michael, Supply Chain Expert Discussion Leader, Global Experience Program: Virtually Exploring Global Supply Chains, University of Pittsburgh Global Experience Office, June 2021.

Last Updated: 09 SEP 2025 Page 19 of 28

Sherwin, Michael, "Identifying and mitigating supply chain risks using fault tree optimization", IISE Transactions Best Papers Special Session, IISE Annual Conference (Virtual), May 2021.

Sherwin, Michael, "A Probabilistic Assessment of Supply Chain Reliability Using Monte Carlo Simulation and Fault Tree Analysis", IISE Annual Conference (Virtual), May 2021.

Sherwin, Michael, "The Future of Supply Chain Management and How IEs Play a Vital Role", IISE Northeast Student Chapter Regional Conference (Virtual), March 2021.

Sherwin, Michael, "Supply Chain Risk, Reliability, Resiliency, and Lessons Learned in 2020", Penn State University Virtual Speaker Series, March 2021.

Bursic, Karen, Michael Sherwin, and Taylor Mungin, "So you want to be an Engineer?", University of Pittsburgh Swanson School of Engineering Recruiting Series, March 2021.

Sherwin, Michael, "Working in Industry: My (Not So Straightforward) Journey from Industry to Academia", University of Pittsburgh Swanson School of Engineering Preparation for a STEM Academic Career Graduate Student Seminar, February 2021.

Sherwin, Michael, "It's Halftime: Lessons Learned from the First Half of My Career", University of Pittsburgh IISE Student Chapter Meeting, February 2020.

Sherwin, Michael, "Supply Chain Management in the Time of COVID-19", University of Pittsburgh Industrial Engineering Undergraduate Student Seminar, October 2020.

Sherwin, Michael, "It's All about the Sauce: The Secrets to Successful Process Improvement", American Society for Quality (ASQ) Human Interaction: The Other Aspect of Process Improvement Conference, September 2020.

Sherwin, Michael, "Navigating the Complexities of Supply Chain Management", Catalyst Connection Webinar, September 2020.

Sherwin, Michael and Jon Carmona, "Risk Management and Resilience Engineering in Supply Chains", IISE Columbus, OH Chapter (Chapter #1) Webinar Series, July 2020.

Schmidt, David, Ahmed Dallal, and Michael Sherwin, "Jam Sessions: Design Courses & Capstones", University of Pittsburgh Swanson School of Engineering Fall 2020 Preparation Sessions, July 2020.

Last Updated: 09 SEP 2025 Page 20 of 28

Sherwin, Michael, "My (Not So Straightforward) Journey from Industry to Academia", University of Pittsburgh Swanson School of Engineering Preparation for a STEM Academic Career Graduate Student Seminar, February 2020.

Sherwin, Michael, "Identification and Mitigation of Supply Chain Risks", APICS Pittsburgh Chapter Meeting, November 2018.

Sherwin, Michael, Hugh Medal, and Cameron MacKenzie, "An Optimized Resource Allocation Approach to Identify and Mitigate Supply Chain Risks Using Fault Tree Analysis and Predicting Supplier Reliability in a Low Volume High Value Supply Chain", INFORMS (Phoenix, AZ), November 2018.

Sherwin, Michael, Hugh Medal, Cameron MacKenzie, and Kennedy Brown, "An Optimized Resource Allocation Approach to Identify and Mitigate Supply Chain Risks Using Fault Tree Analysis", INFORMS (Houston, TX), October 2018.

Sherwin, Michael, Hugh Medal, Cameron MacKenzie, and Kennedy Brown, "An Optimized Resource Allocation Approach to Identify and Mitigate Supply Chain Risks Using Fault Tree Analysis", IISE Annual Conference (Pittsburgh, PA), May 2017.

Sherwin, Michael, Hugh Medal, and Steven Lapp, "Application of Fault Tree Analysis to Supply Chain Risk Management and Mitigation", INFORMS (Philadelphia, PA), November 2015.

Sherwin, Michael, Hugh Medal, and Steven Lapp, "Risk Mitigation in a Supply Chain Infrastructure Using Fault Tree Analysis", IIE Annual Conference (Nashville, TN), May 2015.

Sherwin, Michael, Hugh Medal, and Steven Lapp, "Risk Mitigation in a Supply Chain Infrastructure Using Fault Tree Optimization", INFORMS (San Francisco, CA), November 2014.

Sherwin, Michael, "Supply Chain Risk Identification and Mitigation", Chatham University (Pittsburgh, PA), December 2015.

Sherwin, Michael, "Supplier Quality Risk Mitigation Tools: Control Plans, Risk-Based Oversight (Supplier Risk Assessment, Component/Service Risk Assessment, Gate Reviews) and Audit Process Standardization Checklist", COLIBE (Pittsburgh, PA), October 2014.

Sherwin, Michael, "Failure Modes and Effects Analysis", American Society for Quality (Pittsburgh, PA), March 2011.

Sherwin, Michael, "Identifying Process Inefficiencies", American Society for Quality (Pittsburgh, PA), February 2010.

Last Updated: 09 SEP 2025 Page 21 of 28

E. SCHOLARSHIP HONORS AND AWARDS

2024	Contributing Author to IISE Book-of-the-Year Award
2021	Outstanding Paper by New IE Educator, ASEE
2020	Honorable Mention Best Paper, IISE Transactions
2018	Inducted into The Order of the Engineer
2017	J. Ron Walsh Outstanding Industrial Engineering Graduate Student
2017	MSU Bagley College of Engineering Travel Award
2014	MSU Bagley College of Engineering Travel Award

F. WORKS IN PROGRESS

1. Under Review

Sherwin, Michael, Dallas Rosson, Ben Sadler, and Sarah Martin. "The Role of Binning and Censoring on Statistical Obsolescence Forecasting Accuracy in the Absence of Covariate Predictors." Under the 2nd round of review with the *Journal of Engineering Design*.

Atkins, Ryan, Matthew Drake, and Michael Sherwin. "Supply Chain Decision Making Across Risk Domains." Under the 1st round of review with *Operations and Supply Chain Forum: an International Journal*.

Uhles, Chad, Hugh Medal, Michael Sherwin, Dallas Rosson, Jessica Bean, Kristi Stageberg, and Seth Shuchat. "Optimizing Design Refresh Decisions for Long Life Systems Production." Under revision with *Computers and Industrial Engineering*.

Sherwin, Michael. "A Conceptual Supply Chain Risk Management Framework for Engineer-to-Order Environments." Under revie with the *International Journal of Physical Distribution & Logistics Management*.

2. In Work

Sherwin, Michael. "A Case Study in Supply Chain Analytics: Medical Device Manufacturing." Preparing for submission.

Sherwin, Michael, Olivia Greene, Sarah Martin, and Benjamin Sadler. "Predicting Supplier Obsolescence Risk for Electronic Component Manufacturers in Critical Supply Chains." Preparing for submission.

Sherwin, Michael, Dai Nam Nguyen, and Tanveer Bhuyian. "Multi-Objective Scheduling Optimization in Perishable Multi-Stage Food Manufacturing to Minimize Waste and Maximize Service Level." Preparing for submission.

Last Updated: 09 SEP 2025 Page 22 of 28

Sherwin, Michael and Mark Kachmar. "The Current State of Operational Excellence Programs in Small-to-Medium Manufacturing Enterprises." Preparing for submission.

Sherwin, Michael and Kate Sheridan. "Integrating NACE Career Readiness Competencies in the Classroom." Preparing for submission.

Sherwin, Michael, John Barnes, and Eric Rhodes. "Life Cycle Assessment of Powder Metallurgy Processes in Additive Manufacturing." Preparing for submission.

IV. SERVICE

A. UNIVERSITY, SCHOOL, OR DEPARTMENT SERVICE

1. Committees

Duquesne University

2025 – Present	Office of the Provost Creative Teaching Award Palumbo-Donahue School of Business Representative Award Committee Member
2024 – Present	Faculty Senate Palumbo-Donahue School of Business Assembly Representative
2022 – Present	Palumbo-Donahue School of Business Undergraduate Curriculum Committee Committee Member
2024 – Present	Palumbo-Donahue School of Business Real Estate and Construction Management Task Force Committee Member
2024	Graduate Assistant Policy Standardization Task Force Office of the Vice Provost for Academics Committee Member
2023	Committee to develop Engineering curriculum Committee Member – Designed curriculum flow chart after benchmarking Systems Engineering programs at peer Universities

Last Updated: 09 SEP 2025 Page 23 of 28

University of Pittsburgh

2021 – 2022	Industrial Engineering Department Undergraduate Curriculum Committee Committee Member
2021 – 2022	Industrial Engineering Department Appointment Stream Search Committee Committee Member
2021 – 2022	Katz School of Business Race to the Case Competition Planning Committee Committee Member

2. Activities

Duquesne University

2025 – Present	Mentor to Mary Nyamvumba, MS SCM Student
2025	Panelist, CTE NACE Career Competency Panel
2025	Speaker and Faculty Representative, Admitted Student Day
2025	Teaching for Student Success Certificate Program
2025	Presenter, High School Day for Supply Chain Management
2024	Speaker and Faculty Representative, Admitted Student Day
2024	Faculty Working Group – NACE Competencies
2024	Supply Chain Management Representative, Duq Days
2023 – Present	Mentor to Blesson Yohannan, MS SCM Student
2023	Supply Chain Management Representative, Duq Days
2023	Speaker, Five Scary Business Stories
2023	Client Project Presentation Judge, MGMT 499
2023	Interviewer, Prospective Fellow and Graduate Assistants
2023	Faculty Representative, MS SCM Orientation
2022	Judge, DECA High School Business Plan Competition

University of Pittsburgh

2022	Mentor, Senior Design Capstone Project (1 project)
2021 - 2022	Assistant Graduate Program Director, Part-Time MSIE
2021 - 2022	Lead, Supply Chain Global Experience (Cyprus)
2020 - 2022	Coordinator, IE Supply Chain Management Certificate
2021	Mentor, Senior Design Capstone Projects (4 projects)
2020	Member, COVID-19 Senior Check-In Program
2020	Mentor, Senior Design Capstone Projects (3 projects)

B. OTHER PUBLICATIONS NOT INCLUDED UNDER SCHOLARSHIP

Last Updated: 09 SEP 2025 Page 24 of 28

Sherwin, Michael"Covid pandemic exposed vulnerabilities but brought lessons in preparedness." Interviewed by Tawnya Panizzi. Tribune-Review. 13 April 2025. Available at: https://triblive.com/local/regional/covid-pandemic-exposed-vulnerabilities-but-brought-lessons-in-preparedness/. (Accessed: 26 June 2025).

Sherwin, Michael. "AI and Supply Chains." The KDKA Morning Show, hosted by Larry Richert, Audacy, 27 January 2025.

Sherwin, Michael (2025) 'Covid-19 changed the supply chain. Pittsburgh AI companies are changing it again'. Interviewed by Jake Dabkowski. The Pittsburgh Business Times. 24 January 2025. Available at: https://www.bizjournals.com/pittsburgh/news/2025/01/24/ai-companies-change-supply-chain.html. (Accessed: 29 January 2025).

Sherwin, Michael (2024) 'Supply Chain Headaches Begin after Key Bridge Collapse'. Interviewed by Paul Gough. *The Baltimore Business Journal*. 26 March. Available at: https://www.bizjournals.com/baltimore/news/2024/03/26/key-bridge-collapse-supplychain-headaches.html. (Accessed: 27 March 2024).

C. COMMUNITY SERVICE

Ozanam Summer Basketball League, City of Pittsburgh

2024 – 2025 Head Coach, 14u Boys

Mars Area School District Gifted Education Advisory Board

2021 - 2023	Board Member
2021 - 2023	Member Advocacy Subcommittee

Mars Area Youth Boys' Basketball Association

2023	Assistant Coach, 6 th Grade Travel Basketball Team
2022	Assistant Coach, 5 th Grade Travel Basketball Team

Mars Baseball and Fastpitch Association

2023	Assistant Coach, 12U Travel Baseball Team
2023	Assistant Coach, 12U In-House Baseball Team
2022	Assistant Coach, 11U Travel Baseball Team
2022	Head Coach, 12U In-House Baseball Team
2021	Assistant Coach, 10U Travel Baseball Team
2021	Head Coach, 10U In-House Baseball Team
2020	Assistant Coach, 9U Travel Baseball Team
2020	Head Coach, 9U In-House Baseball Team
2019	Assistant Coach, 8U Travel Baseball Team

Last Updated: 09 SEP 2025 Page 25 of 28

2019	Head Coach, 8U In-House Baseball Team
2016 - 2018	Assistant Coach, 8U In-House Baseball Team

i9 Boys Flag Football

2022	Head Coach, 12U Football Team
2021	Head Coach, 11U Football Team

Mars Area Youth Girls' Basketball Association

2021 – 2022 Coach, Basketball Development Program

D. PROFESSIONAL SERVICE

1. Membership on Committees

Institute of Industrial and Systems Engineers (IISE)

2024 – Present	Past-President Logistics & Supply Chain Division
2022 - Present	Chair, Micro-Credential Development Committee
2023 - 2024	President, Logistics & Supply Chain Division
2022 - 2023	President-Elect, Logistics & Supply Chain Division
2022 - Present	Board Member, Logistics & Supply Chain Division
2022	Academic Affairs Chair, Pittsburgh Chapter

Institute for Supply Management (ISM)

2016 – 2018 Academic Advisory Council, Pittsburgh Chapter

American Society for Quality (ASQ)

2011 - 2012	Youth Outreach Chair, Pittsburgh Section
2010	Healthcare Conference Finance Chair

Penn State Industrial and Manufacturing Engineering Society (PSIMES)

2009 - 2010	Chair, Mentoring Committee
2006 - 2008	President, Board of Directors
2006 - 2013	Director, Board of Directors

2. Other Professional Service

Military Operations Research Journal

2024 – Present Manuscript Reviewer (ad hoc)

International Journal of Production Economics

2023 – Present Manuscript Reviewer (ad hoc)

INFORMS Journal on Applied Analytics

2022 – Present Manuscript Reviewer (ad hoc)

IISE Transactions

2022 – Present Manuscript Reviewer (ad hoc)

European Journal of Production Economics

2015 – Present Manuscript Reviewer (ad hoc)

International Journal of Operational Research

2018 – Present Manuscript Reviewer (ad hoc)

Institute of Industrial and Systems Engineers (IISE)

2025	Manuscript & Abstract Reviewer, IISE Annual Conference
2023 - 2024	Track Chair, IISE Annual Conference
2023 - 2024	Member, IISE Annual Conference Program Committee
2024	Session Chair, IISE Annual Conference
2024	Manuscript & Abstract Reviewer, IISE Annual Conference
2024	Session Chair, "Humanitarian Supply Chains"
2024	Session Chair, "Professional Skills for Students"
2021 - 2022	Track Co-Chair, IISE Annual Conference
2021 - 2022	University Connect Community Ambassador
2020 - 2022	Faculty Advisor, University of Pittsburgh Student Chapter
2022	Manuscript & Abstract Reviewer, IISE Annual Conference
2021	Judge, Logistics & Supply Chain Student Case Competition
2021	Judge, Logistics & Supply Chain Student Best Paper
2021	Manuscript & Abstract, IISE Annual Conference
2020	Panelist, IISE Pittsburgh Chapter Career Industry Panel
2019 - 2020	Manuscript & Abstract, IISE Annual Conference
2020	Track Chair, IISE Annual Conference
2020	Session Chair, IISE Annual Conference
2019	Session Chair, Industrial and Systems Research Conference
2017	Manuscript & Abstract, IISE Annual Conference

American Society for Quality (ASQ)

2022 – Present Assessor, ASQConnEx Program Candidates

Last Updated: 09 SEP 2025 Page 27 of 28

2021 – Present Certified Instructor, ASQConnEx

2020 – Present Subject Matter Expert, Six Sigma Body of Knowledge

American Society for Engineering Education (ASEE)

2022	Paper Reviewer, ASEE Annual Conference
2021	Paper Reviewer, ASEE Annual Conference
2020	Session Moderator, ASEE Annual Conference

Penn State University

2022 – Present Mentor, Engineering Leadership Development Program

Off the Floor Pittsburgh

2020 – 2021 Non-Profit Consulting and Collaboration

Urban League of Greater Pittsburgh

2020 COVID-19 Housing Assistance Program Volunteer

Institute for Operations Research and Management Science (INFORMS)

2018	Session Chair, INFORMS Annual Meeting
2017	Session Chair, INFORMS Annual Meeting

Chatham University

2015 Panel Judge, MBA Program Capstone Project

Curtiss Wright Corporation

2011 - 2019	Mentor, Career Development (2 employees)
2013 - 2019	Advisor, Lean Six Sigma Certification (2 employees)
2011 - 2019	Mentor, Co-Op Students (8 students)

Last Updated: 09 SEP 2025 Page 28 of 28