

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

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

Mississippi State University

Ph.D., Industrial and Systems Engineering

August 2018

Dissertation: *An Optimized Resource Allocation Approach to Identify and Mitigate Supply Chain Risks Using Fault Tree Analysis*

Committee: Dr. Hugh Medal (Chair), Dr. Cameron MacKenzie, Dr. Steven Lapp, Dr. Linkan Bian

Tepper School of Business, Carnegie Mellon University

MBA

May 2008

Penn State University

M.S., Industrial Engineering

December 2001

Thesis: *An Empirical Approach to Dimensional Tolerance Capability for Sintered Ferrous Powder Metal Components Formed by Die Compaction*

Committee: Dr. Robert Voigt (Chair), Dr. El-Amine Lehtihet, Dr. Irene Petrick

Penn State University

B.S., Materials Science and Engineering

December 1999

PROFESSIONAL EXPERIENCE

Duquesne University

- Assistant Professor of Supply Chain Management
- Palumbo Donahue School of Business Undergraduate Curriculum Committee

Pittsburgh, PA

2022 – Present

2022 – Present

University of Pittsburgh

- Assistant Professor of Industrial Engineering
- Assistant Graduate Program Director, Part-Time MSIE Program
- Department of Industrial Engineering Undergraduate Academic Program Committee
- Supply Chain Management Plus3 Global Experience Lead: Cyprus

Pittsburgh, PA

2020 – 2022

2021 – 2022

2021 – 2022

2021 – 2022

Next Ridge Technologies, LLC

- Principal Consultant

Valencia, PA

2020 – Present

Duquesne University	Pittsburgh, PA
<ul style="list-style-type: none">• Adjunct Faculty, Palumbo-Donahue School of Business	2017 – 2021
Curtiss-Wright	Cheswick, PA
<ul style="list-style-type: none">• Lead, Forensic Analysis (Special Project for Equipment Event at Nuclear Power Plant)• Senior Manager, Quality Assurance – Supplier Quality Excellence• Senior Manager, Process Improvement• Manager, Quality System Excellence• Manager, Quality Assurance Engineering	2019 2014 – 2019 2013 – 2014 2012 – 2013 2011 – 2012
Chatham University	Pittsburgh, PA
<ul style="list-style-type: none">• Adjunct Faculty – School of Arts, Sciences, and Business	2016 – 2021
Robert Morris University	Moon Township, PA
<ul style="list-style-type: none">• Adjunct Faculty – School of Engineering, Mathematics, and Science	2012 – 2016
Precision Therapeutics	Pittsburgh, PA
<ul style="list-style-type: none">• Director, Quality Systems and Improvement• Operational Excellence Leader	2010 – 2011 2009 – 2010
Kennametal Inc.	Latrobe, PA
<ul style="list-style-type: none">• Plant Manager and Site Leader• Project Manager• Manager, Quality and Manufacturing Engineering	2007 – 2009 2007 2005 – 2007
Crucible Compaction Metals (now ATI)	Oakdale, PA
<ul style="list-style-type: none">• Materials and Process Engineer	2004 – 2005
AMTellec, Inc.	State College, PA
<ul style="list-style-type: none">• Marketing Engineer	2002 – 2004
Westinghouse Electric Company	Cheswick, PA
<ul style="list-style-type: none">• Industrial Engineer	2001 – 2002

PUBLICATIONS

Refereed Journal Papers

1. 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).

Michael D. Sherwin

2. 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.
3. 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.

Book Chapters

1. Sherwin, Michael D. Chapter 5: Quality Control. In: *Maynard's Industrial Engineering Handbook, Sixth Edition*. McGraw-Hill Standard Handbooks. Currently awaiting publication.
2. Sherwin, Michael D. Chapter 7: Quality Management. In: *Maynard's Industrial Engineering Handbook, Sixth Edition*. McGraw-Hill Standard Handbooks. Currently awaiting publication.

Conference Proceedings

1. Hurtado, Carlos, M. Amin Rahimian, Michael Sherwin. "A Random Generative Model of the Product Supply Chain Co-design Space." 2022 IISE Annual Conference Proceedings. Seattle, Washington, USA. 2022.
2. 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.
3. 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.

Other Publications

1. 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.

Working Papers

1. Sherwin, Michael, Hugh Medal, and Cameron MacKenzie. "Quantitative Assessment of the Factors that Influence and Predict Supplier Reliability using Logistic Regression." Under review.

Conference, Seminar, and Invited Presentations

1. Sherwin, Michael, "Success Factors in a Project-Based Industrial Engineering Senior Design Capstone Course", ASEE 2022 (Minneapolis, MN), July 2022.
2. Sherwin, Michael, "Continuous Quality Improvement", Chatham University, HCI504 Project Management Guest Lecture, May 2022.
3. Sherwin, Michael, "Working in Industry", University of Pittsburgh Swanson School of Engineering Preparation for a STEM Academic Career Graduate Student Seminar, February 2022.
4. Sherwin, Michael, Bangalore Chamber of Industry and Commerce (BCIC), "Digital Supply Chains", September 2021.

5. Sherwin, Michael, "Effects of Pedagogical Changes to an Engineering Capstone Design Course During the COVID-19 Pandemic", ASEE 2021 (Long Beach, CA), July 2021.
6. 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.
7. Sherwin, Michael, Supply Chain Expert Discussion Leader, Global Experience Program: Virtually Exploring Global Supply Chains, University of Pittsburgh Global Experience Office, June 2021.
8. Sherwin, Michael, "Identifying and mitigating supply chain risks using fault tree optimization", IISE Transactions Best Papers Special Session, IISE 2021 (Virtual), May 2021.
9. Sherwin, Michael, "A Probabilistic Assessment of Supply Chain Reliability Using Monte Carlo Simulation and Fault Tree Analysis", IISE 2021 (Virtual), May 2021.
10. Sherwin, Michael, "The Future of Supply Chain Management and How IEs Play a Vital Role", IISE Northeast Student Chapter Regional Conference (Virtual), March 2021.
11. Sherwin, Michael, "Supply Chain Risk, Reliability, Resiliency, and Lessons Learned in 2020", Penn State University Virtual Speaker Series, March 2021.
12. 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.
13. 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.
14. Sherwin, Michael, "It's Halftime: Lessons Learned from the First Half of My Career", University of Pittsburgh IISE Student Chapter Meeting, February 2020.
15. Sherwin, Michael, "Supply Chain Management in the Time of COVID-19", University of Pittsburgh Industrial Engineering Undergraduate Student Seminar, October 2020.
16. 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.
17. Sherwin, Michael, "Navigating the Complexities of Supply Chain Management", Catalyst Connection Webinar, September 2020.
18. Sherwin, Michael and Jon Carmona, "Risk Management and Resilience Engineering in Supply Chains", IISE Columbus, OH Chapter (Chapter #1) Webinar Series, July 2020.
19. 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.
20. 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.
21. Sherwin, Michael, "Identification and Mitigation of Supply Chain Risks", APICS Pittsburgh Chapter Meeting, November 2018.
22. 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.

Michael D. Sherwin

23. 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.
24. 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.
25. Sherwin, Michael, Hugh Medal, and Steven Lapp, "Application of Fault Tree Analysis to Supply Chain Risk Management and Mitigation", INFORMS (Philadelphia, PA), November 2015.
26. 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.
27. Sherwin, Michael, Hugh Medal, and Steven Lapp, "Risk Mitigation in a Supply Chain Infrastructure Using Fault Tree Optimization", INFORMS (San Francisco, CA), November 2014.
28. Sherwin, Michael, "Supply Chain Risk Identification and Mitigation", Chatham University (Pittsburgh, PA), December 2015.
29. 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.
30. Sherwin, Michael, "Failure Modes and Effects Analysis", American Society for Quality (Pittsburgh, PA), March 2011.
31. Sherwin, Michael, "Identifying Process Inefficiencies", American Society for Quality (Pittsburgh, PA), February 2010.

FUNDED RESEARCH PROPOSALS

1. **Title:** Artificial Intelligence Models for Predicting Supply Chain Failures and Their Impacts
Source: Naval Sea Systems Command (NAVSEA) Naval Engineering Education Consortium (NEEC)
Team: Dr. Hugh Medal (PI), Dr. Mike Sherwin (Co-PI)
Dates: April 2022 – March 2023; option period of April 2023 – March 2025 (anticipated)
Status: Currently under consideration
Award: \$333,000 (anticipated)

COURSES TAUGHT

Course Number	Course Title	Term	Level	Type	Enrollment	Responses	Evaluation Score (Max = 5.0)
University of Pittsburgh, Swanson School of Engineering							
ENGRX	Plus3 Global Experience – Cyprus	SU 2022	UGRAD	Elective	23	TBD	TBD
IE 1080	Supply Chain Analysis	SP 2022	UGRAD	Core	15	10	4.67
IE 1090	Senior Design Capstone Course	SP 2022	UGRAD	Core	46	21	4.50

Course Number	Course Title	Term	Level	Type	Enrollment	Responses	Evaluation Score (Max = 5.0)
IE 1203	Warehouse Operations	SP 2022	UGRAD	Elective	11	11	4.66
IE 1055	Facility Layout and Material Handling	FA 2021	UGRAD	Core	28	23	4.48
IE 1072	Design of Experiments and Quality Assurance	FA 2021	UGRAD	Core	72	57	4.30
IE 1090	Senior Design Capstone Course	FA 2021	UGRAD	Core	26	8	3.75
IE 2025	Facility Layout and Material Handling	FA 2021	GRAD	Core	2	0	--
IE 1080	Supply Chain Analysis	SP 2021	UGRAD	Core	28	14	4.62
IE 1090	Senior Design Capstone Course	SP 2021	UGRAD	Core	45	17	4.74
IE 1203	Warehouse Operations	SP 2021	UGRAD	Elective	8	8	4.68
IE 2203	Warehouse Operations	SP 2021	GRAD	Elective	3	0	--
IE 1055	Facility Layout and Material Handling	FA 2020	UGRAD	Core	28	12	4.82
IE 1072	Design of Experiments and Quality Assurance	FA 2020	UGRAD	Core	59	35	4.64
IE 1090	Senior Design Capstone Course	FA 2020	UGRAD	Core	35	14	4.00
IE 2025	Facility Layout and Material Handling	FA 2020	GRAD	Core	7	5	4.60
IE 1090	Senior Design Capstone Course	SU 2020	UGRAD	Core	9	7	4.96
IE 1072	Design of Experiments and Quality Assurance	SP 2020	UGRAD	Elective	24	19	4.38
IE 1080	Supply Chain Analysis	SP 2020	UGRAD	Core	18	11	4.70
IE 1072	Design of Experiments and Quality Assurance	FA 2019	UGRAD	Elective	40	21	4.77

Duquesne University, Palumbo-Donahue School of Business

SCMG 620	Forecasting and Demand Management	SU 2021	GRAD	Core	6	3	4.84
SCMG 527	Supply Chain / Operations Management	SU 2019	GRAD	Core	10	6	4.80
SCMG 527	Supply Chain / Operations Management	SU 2018	GRAD	Core	6	6	4.54
SCMG 527	Supply Chain / Operations Management	SU 2017	GRAD	Core	9	5	4.76

Chatham University, Department of Business and Entrepreneurship

BUS 301	Continuous Improvement Methods	SP 2021	UGRAD	Elective	13	--	--
BUS 413	Logistics and Operations	FA 2020	UGRAD	Core	26	4	4.60
BUS 301	Continuous Improvement Methods	FA 2020	UGRAD	Elective	9	--	--
BUS 423	Continuous Improvement Project Course	SP 2020	UGRAD	Elective	1	--	--
BUS 301	Continuous Improvement Methods	SP 2020	UGRAD	Elective	1	--	--
BUS 413	Logistics and Operations	FA 2019	UGRAD	Core	19	4	4.60
BUS 413	Logistics and Operations	FA 2018	UGRAD	Core	17	15	4.60
BUS 301	Introduction to Six Sigma	SP 2018	UGRAD	Elective	15	7	4.46
BUS 413	Logistics and Operations	FA 2017	UGRAD	Core	10	3	4.78
BUS 301	Introduction to Six Sigma	SP 2017	UGRAD	Elective	16	8	4.70
BUS 698	Strategy and Entrepreneurship	SP 2017	GRAD	Core	11	1	4.62
BUS 513	Logistics and Operations	FA 2016	GRAD	Core	7	2	5.00
BUS 413	Logistics and Operations	FA 2016	UGRAD	Core	7	1	5.00

Jack Welch Management Institute

JWI 550	Operations Management	FA 2019	GRAD	Core	20	--	--
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Mississippi State University, Bagley College of Engineering

IE 7000	Supply Chain Risk Modeling	SP 2016	UGRAD	Elective	1	--	--
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Course Number	Course Title	Term	Level	Type	Enrollment	Responses	Evaluation Score (Max = 5.0)
Robert Morris University, Department of Engineering							
ENGR 3680	Introduction to Quality Engineering	SP 2016	UGRAD	Core	48	--	4.5
ENGR 3680	Introduction to Quality Engineering	FA 2015	UGRAD	Core	23	--	--
ENGR 3680	Introduction to Quality Engineering	SP 2015	UGRAD	Core	27	--	4.57
ENGR 3680	Introduction to Quality Engineering	SP 2014	UGRAD	Core	17	--	4.83
ENGR 3680	Introduction to Quality Engineering	SP 2013	UGRAD	Core	15	--	4.82
ENGR 3900	Optimization Techniques	FA 2013	UGRAD	Core	15	--	--
ENGR 3680	Introduction to Quality Engineering	SP 2012	UGRAD	Core	15	--	4.33

CURRICULUM DEVELOPMENT

University of Pittsburgh

1. **IE1072 Design of Experiments and Quality Assurance.** This core undergraduate course aims to provide Industrial Engineering majors with a background in designed experiments and quality assurance methods. The course includes lectures, in-class laboratory sessions, homework, exams, and a semester-long project. Students complete the project as part of small teams by selecting an everyday problem, designing an experiment, conducting the experiment, and analyzing the results. Each student team writes a technical report and presents to the class as part of the assignment.
2. **IE1090 Senior Design Capstone Course.** This undergraduate course aims to provide Industrial Engineering majors a culminating, unstructured, capstone course with specific objectives. Student project teams are assigned to solve a real-world problem defined by industry organizations. During the semester, student teams work to solve the problem using the Industrial Engineering Body of Knowledge with an industry sponsor (client) and the assistance of the faculty mentor and the course instructor. A long-standing course, enhancements were made to the course as follows: (1) developed and implemented four lectures on the topics of leadership, project management, communication, and teamwork to assist in student success; (2) integrated the use of surveys and polls to gather student feedback throughout the semester to make course modifications and provide assistance when needed; (3) modified the grading rubrics to be more specific and distributed among individual and team assessments; (4) aligned the course objectives more specifically to ABET criteria; (5) implemented behavioral assessments (DiSC® and Six Thinking Hats) to improve teamwork, self-awareness, and understanding; and (6) analyzed the results of surveys and published the work in conference papers with plans to continue the research and publish in respected education journals.
3. **IE1203/IE2203 Warehouse Operations.** The purpose of this cross-listed undergraduate/graduate Industrial Engineering course is to study and analyze the key factors affecting the productivity of operations and material flows within a warehouse environment with a specific focus on material handling equipment, order picking, facility design, sortation systems, and cross-docking. This course was based on a previous course offering (IE1101 Facility Logistics), improved, and offered after having not been offered for eight years as part of an ongoing effort to enhance supply chain engineering courses within the Industrial Engineering department and as part of the Supply Chain Management Certificate. The course

includes a lecture component, team homework assignments, quizzes, and exams. In addition, the student teams are responsible for completing a semester-long project. Projects have included working with a local non-profit furniture exchange to improve the organization's warehouse operations and a case study.

4. **IE1204/IE2204 Applied Supply Chain Analytics (in development)**. The purpose of this cross-listed undergraduate/graduate Industrial Engineering course is to equip students with the means to identify, mitigate, respond, and recover from disruptions and delays in supply chains and operations without a significant impact to the firm's safety, security, quality, and profitability. The course is expected to be offered for the first time in Fall 2022, was co-developed with an Industrial Engineering Department colleague, and includes both managerial and technical elements. As part of the course, students are provided a case study that was developed by the instructors and includes data sets related to situations presented. Students are expected to analyze the data within the case study context, make decisions, and proceed accordingly by integrating strategic elements of supply chain management with data analytics, optimization, and machine learning tools applied to supply chain decision-making. This course was developed new to enhance the data analytics course offerings within the Supply Chain Management certificate program and improve offerings available for part-time MSIE students.
5. **Plus3 Global Experience – Cyprus**. Collaborating with the Program Assistant and an experienced Industrial Engineering faculty colleague, this Plus3 course was developed for the first time the Cyprus destination. Plus3 is a student's first chance to study abroad at Pitt and includes group travel to Cyprus for two weeks to provide students with a firsthand glimpse of globalization through industry-specific company tours, sessions with executives, academic lectures, and cultural visits. Specifically, the Cyprus location is focused on global supply chain management. In addition to working with the in-country colleagues before and during the visit, the content for four pre-departure meetings was developed around the themes of teamwork, leadership, professionalism, supply chain management, and the history, culture, and economy of Cyprus. The course is comprised of 50% first-year business students and 50% first-year engineering students. For the in-country portion of the experience, students are responsible for blogging daily about their experiences with the course culminating in a group project where students pitch an idea for a product to be produced in Cyprus and with consideration for the design of the supply chain to make it.

Chatham University

1. **BUS301 Continuous Improvement Methods (formerly known as Introduction to Six Sigma)**. Initially developed new to introduce students to the Six Sigma Body of Knowledge at the Yellow Belt level, the course was further enhanced to include Lean, Agile, Toyota Production Systems, and change management methodologies. The purpose of the course is to provide students with a foundational understanding of the concepts, tools, and skills essential for problem solving, decision making, and implementation using continuous improvement methodologies. The course also prepares students to sit for the ASQ Six Sigma Yellow Belt certification exam if they choose to do so. The course includes lectures, in-class activities, and a semester-long project requiring students to apply a combination of Lean and Six Sigma tools within the DMAIC framework. It culminates in student teams writing a technical report and presenting their results to the class.
2. **BUS423 Continuous Improvement Project Course**. This course aims to advance student knowledge, skills, and experiences by applying the tools and methods learned in BUS301 Continuous Improvement Methods. During the course, students are matched with a Chatham University Department and expected

to apply Lean and Six Sigma tools and methods to improve a process within the organization. This independent study course was developed new and implemented to provide a hands-on, independent experience for students under the direction and coaching of the course instructor and the Department champion. More broadly, the course aligned with Chatham University's strategy to improve processes as well as engage students and employees while doing so.

HONORS AND AWARDS

- Swanson School of Engineering Design EXPO, Mentor to First Place Team in Industrial Engineering, 2022
- Swanson School of Engineering Design EXPO, Mentor to First Place Team in Industrial Engineering, 2021
- Gold Award Recipient, presented by the Institute of Industrial and Systems Engineers to the University of Pittsburgh Student Chapter (867), 2020-2021
- New IE Educator Outstanding Paper, American Society of Engineering Education for the paper, "Effects of Pedagogical Changes to an Engineering Capstone Course During the COVID-19 Pandemic" 2021
- Outstanding Regional Faculty Advisor Award – Northeast Region, Institute of Industrial and Systems Engineers, 2020
- Honorable Mention Best Paper, IISE Transactions Focus Issue on Scheduling and Logistics for the paper, "Identifying and mitigating supply chain risks using fault tree optimization", 2020
- Initiated into the Order of the Engineer, 2018
- Mississippi State University, J. Ron Walsh Outstanding Industrial Engineering Graduate Student, 2017
- Mississippi State University Bagley College of Engineering Travel Award, 2015
- Mississippi State University Bagley College of Engineering Travel Award, 2014
- Kennametal Value Business System Award: Product Development Technical Excellence, 2009
- Kennametal Advanced Materials Solutions Group Excellence in Leadership Award, 2008

PROFESSIONAL SERVICE & LEADERSHIP ACTIVITIES

University of Pittsburgh

- Member, Appointment Stream Search Committee 2021 – Present
- Member, Undergraduate Academic Program Committee 2021 – Present
- Planning Committee, *Race to the Case* Case Study Competition 2021 – Present
- Coordinator, Industrial Engineering Supply Chain Management Certificate 2020 – Present
- COVID-19 Senior Check-in Program Team Member 2020

Institute for Industrial and Systems Engineers (IISE)

- Expert Panel Moderator, “Humanitarian Supply Chains”, IISE and LASER PULSE 2022
- Academic Affairs Chair, Northeast Region (#1), Pittsburgh Chapter (#3) 2022 – Present
- Track Co-Chair, 2022 IISE Annual Conference 2021 – Present
- University Connect Community Ambassador 2021 – Present
- Faculty Advisor, Northeast Region (#1), University of Pittsburgh Student Chapter (#867) 2020 – Present

Michael D. Sherwin

- Chair, Mini-Certificate Development Committee 2020 – Present
- Director, Logistics and Supply Chain Division Board of Directors 2019 – Present
- Paper Reviewer, 2022 IISE Annual Conference 2022
- Judge, 2021 Logistics and Supply Chain Division Student Case Competition 2021
- Judge, 2021 Logistics and Supply Chain Division Best Paper Award 2021
- Paper Reviewer, 2021 IISE Annual Conference 2021
- Panelist, IISE Pittsburgh Chapter Career Industry Panel 2020
- Member, 2020 IISE Annual Conference Organizing Committee 2019 – 2020
- Member, 2020 IISE Annual Conference Abstract Review Committee 2019 – 2020
- Track Chair, 2020 IISE Annual Conference 2020
- Session Chair, 2020 IISE Annual Conference 2020
- Session Chair, 2017 Industrial and Systems Research Conference 2017
- Paper Reviewer, 2017 IISE Annual Conference 2017

American Society for Engineering Education (ASEE)

- Paper Reviewer, Faculty Development Division, 2022 ASEE Annual Conference 2022
- Paper Reviewer, Faculty Development Division, 2021 ASEE Annual Conference 2021
- Session Moderator, 2020 ASEE Annual (Virtual) Conference 2020

American Society for Quality

- Assessor, ASQConnEx Program Candidates 2022 – Present
- ASQConnEx Subject Matter Expert 2021 – Present
- Subject Matter Expert, Six Sigma Body of Knowledge 2020 – Present
- Member 2011 – Present
- Pittsburgh Section, Youth Outreach Chair 2011 – 2012
- Pittsburgh Section, Healthcare Conference Finance Chair 2010

Mars Area School District

- Member, Gifted Education Advisory Board 2021 – Present

Non-Profit Consulting and Collaboration

- Off the Floor Pittsburgh 2020 – 2021

Urban League of Greater Pittsburgh

- COVID-19 Housing Assistance Program Volunteer 2020

Institute for Operations Research and Management Science (INFORMS)

- Session Chair, Supply Chain Management 2018
- Session Chair, Supply Chain Risk and Disruptions 2017

Michael D. Sherwin

Institute for Supply Management

- Member, Academic Advisory Council 2016 – 2018

IISE Transactions

- Manuscript Reviewer 2022 – Present

INFORMS Journal on Applied Analytics

- Manuscript Reviewer 2022 – Present

European Journal of Production Economics

- Manuscript Reviewer 2015 – Present

European Journal of Operational Research

- Manuscript Reviewer 2018 – Present

Chatham University, MBA Program Capstone Project

- Panel Judge, BUS 577 (Information Systems and Analytics) 2015

Penn State University, Industrial and Manufacturing Engineering Society

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

Nuclear Industry Assessment Committee (NIAC)

- Alternate Representative 2014 – 2017

Mars Baseball and Fastpitch Association

- Assistant Baseball Coach, Travel Team 2019 – Present
- Head Baseball Coach, In-House Team 2019 – Present
- Assistant Baseball Coach, In-House Team 2016 – 2018

Mars Youth Basketball Association

- Assistant Basketball Coach, Boys Travel Team 2021 – Present
- Volunteer, Girls Basketball Development Program 2021 – Present

i9 Flag Football

- Head Football Coach 2021 – Present

CONSULTING ACTIVITIES

- Joining Industries 2022 – Present

- PulFlex Technologies 2022 – Present
- Metal Powder Works 2022
- WG Tomko 2021 – 2022
- Xper 2021
- CP Industries 2021
- Hi-Power 2021
- JSP 2021
- American Textiles (pro bono) 2021
- Clark Associates (pro bono) 2021
- Chatham University 2019 – 2020

ADVISING, MENTORING, AND COMMITTEE MEMBERSHIP

University of Pittsburgh

- Masters Committee, Robert Lois (University of Pittsburgh, Mechanical Engineering), Thesis: “Supply Chain Risk Assessment through Data-Driven Bayesian Networks”
- Mentor, Undergraduate Industrial Engineering Researcher (2021 – 2022)
- Academic Advisor, Undergraduate Industrial Engineering Students (2021 – 2022)
- Mentor, Senior Design Capstone Course
 - Spring 2022: Maintenance Operations and Inventory Management (Mars Area School District)
 - Fall 2021: Lot Traceability and Shelf-Life Control (IDL)
 - Spring 2021: Design Release Process (MECCO)
 - Spring 2021: Warehouse Layout (University of Pittsburgh, Business and Auxiliary Services)
 - Fall 2020: Supply Chain Risk Management (MECCO)
 - Fall 2020: Optimize Warehouse Operations (Phantom Fireworks)
 - Summer 2020: Improve Manufacturing Yield Performance (Perfection Pet Foods)
 - Summer 2020: Supply Chain Risk Management (GA Industries)
 - Spring 2021: Manufacturing Cell Layout and Simulation (PPG Industries)

Mississippi State University

- Supervisor, Undergraduate Industrial Engineering Researchers (2)

Curtiss Wright

- Mentor, Career Development Employees (2)
- Senior Advisor, Six Sigma Green Belt Candidates (2)
- Mentor, Co-operative Education Students (8)

PROFESSIONAL TRAINING AND CERTIFICATIONS

- Licensed Training Partner, American Society for Quality

- Registered Professional Engineer, Commonwealth of Pennsylvania (PE084940)
- Certified Six Sigma Black Belt, American Society for Quality (9963)
- Curtiss-Wright Way Level I Practitioner
- ASME NQA-1 Qualified Lead Auditor, American Society of Mechanical Engineers
- Certified Quality Function Deployment Greenbelt, QFD Institute
- Certified Failure Modes and Effects Analysis Greenbelt, Kennametal Lean Enterprise
- Certified Six Sigma Greenbelt, Kennametal Lean Enterprise
- Certified Quality Function Deployment Greenbelt, Kennametal Lean Enterprise
- Graduate, Center for Creative Leadership, Kennametal High Potential Class
- Dale Carnegie Leadership Training