

HEATHER NACHTMANN, PH.D.

CONTACT INFORMATION

4207 Bell Engineering Center
University of Arkansas
Fayetteville, AR 72701

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EDUCATION

Ph.D., Industrial Engineering, University of Pittsburgh, August 2000

Dissertation: *Estimating Input Parameters in Activity Based Costing Systems Utilizing Fuzzy Set Theory*

Advisor: Dr. Kim LaScola Needy

M.S., Industrial Engineering, University of Pittsburgh, December 1997

B.S., Industrial Engineering, University of Pittsburgh, April 1994

ACADEMIC EXPERIENCE

Associate Dean for Research, College of Engineering, University of Arkansas, July 2014 - present

Professor, Department of Industrial Engineering, University of Arkansas, August 2013-present

**Associate Professor, Department of Industrial Engineering, University of Arkansas, August 2005-
August 2013**

**Assistant Professor, Department of Industrial Engineering, University of Arkansas, August 2000-
August 2005**

RESEARCH CENTER LEADERSHIP

**Director, Maritime Transportation Research and Education Center, U.S. Department of
Transportation University Transportation Center, University of Arkansas, September 2013-present**

Director, Mack-Blackwell Rural Transportation Center, University of Arkansas, July 2007-present

**Director, U.S. Department of Homeland Security National Transportation Security Center of
Excellence - University of Arkansas, July 2007-June 2014**

**Director, Center for Innovation in Healthcare Logistics, University of Arkansas, May 2013-October
2013**

**Deputy Co-Director, Center for Innovation in Healthcare Logistics, University of Arkansas, July
2010-May 2013**

**Associate Director, Mack-Blackwell Rural Transportation Center, College of Engineering, University
of Arkansas, May 2006-July 2007**

AWARDS AND HONORS RECEIVED

**2015, 2013, 2009, 2006, and 2004 Outstanding Service to Students Award, Department of Industrial
Engineering, University of Arkansas**

2015 Top 15 in 2015 research funding awardee, University of Arkansas

2013-2014 Faculty Member of the Year, Department of Industrial Engineering, University of Arkansas

2012 Outstanding Researcher Award, Department of Industrial Engineering, University of Arkansas

2011 Fellow of the American Society for Engineering Management

**2011 Homeland Security Track Best Paper Award, *Institute of Industrial Engineers Annual Conference* for
(Tong and Nachtmann, 2011)**

2010-2011 John L. Imhoff Chair in Industrial Engineering, Department of Industrial Engineering, University of Arkansas

2009 Mother Goose Award, Department of Industrial Engineering, University of Arkansas

2008 Trendsetter, *Public Works* magazine in recognition of research in rural transportation

2008 Outstanding Advisor Award, College of Engineering, University of Arkansas

2004 Eugene L. Grant Best Paper Award, *The Engineering Economist* for (Nachtmann and Needy, 2003)

2004 Ted Eschenbach Best Paper Award, *Engineering Management Journal* for (Needy, Nachtmann, et al., 2003)

2004 Best Teacher Award, Department of Industrial Engineering, University of Arkansas

2000 Apprentice Faculty Grant, American Society for Engineering Education, Educational Research Methods Division

CURRENT RESEARCH AREAS

Transportation Systems - Inland waterways, Intermodal network optimization, Security

Logistics Modeling - Healthcare, Inventory control and management

Economic Decision Analysis - Activity based costing, Cost estimation, Risk analysis

Engineering Education - Engineering economy

SCHOLARSHIP

Journal Articles

1. Tong, Jingjing, Heather Nachtmann, and Edward A. Pohl, Value-Focused Assessment of Cargo Value Decreasing Rate, *Engineering Management Journal*, Vol. 27, No. 2 (2015), pp. 73-84.
2. Smith, Brian K, Justin R. Chimka, and Heather Nachtmann, "A 0-1 Quadratic Program for the Case of Missing Data in Regression," *International Journal of Data Analysis Techniques and Strategies*, Vol. 6, No. 1 (2014), pp. 94-104.
3. Nachtmann, Heather, Kenneth N. Mitchell, Chase E. Rainwater, Ridvan Gedik, and Edward A. Pohl, "Optimal Dredge Fleet Scheduling with Environmental Work Windows," *Transportation Research Record: Journal of the Transportation Research Board*, No. 2426 (2014), pp. 11-19.
4. Nachtmann, Heather, and Edward A. Pohl, "Emergency Medical Services via Waterways," *Risk Management*, Vol. 15, No. 4 (2013), pp.225-249.
5. Nachtmann, Heather, and Edward A. Pohl, "Transportation Readiness Assessment and Valuation for Emergency Logistics," *International Journal of Emergency Management*, Vol. 9, No. 1 (2013).
6. Nachtmann, Heather, Edward A. Pohl, and Leily Farrokhvar, "Decision Support for Inland Waterways Emergency Response," *Engineering Management Journal – Special Issue on Transportation Management*, Vol. 24, No. 4 (2012).
7. Smith, Brian K., Heather Nachtmann, and Edward A. Pohl, "Improving Healthcare Supply Chain Processes via Data Standardization," *Engineering Management Journal*, Vol. 24, No. 1 (2012).
8. Blank, Leland, Phillip Borrowman, Hector Carrasco, Heather Nachtmann, and John White, "Inclusion of Engineering Economy Concepts and Techniques in B.S. Engineering Curricula," *The Engineering Economist*, Vol. 56 (2011), pp. 193-204.
9. Smith, Brian K., Heather Nachtmann, and Edward A. Pohl, "Quality Measurement in the Healthcare Supply Chain," *Quality Management Journal*, Vol. 18, No. 4 (2011).
10. Nachtmann, Heather, and Edward A. Pohl, "The Inland Waterway Transportation Systems' Role in Response and Recovery," *Journal of Homeland Security* (2011).
11. Nachtmann, Heather, Matthew A. Waller, and David Rieske, "The Impact of Point-of sale Data

- Inaccuracy and Inventory Record Data Errors,” *Journal of Business Logistics*, Vol. 31, No. 1 (2010), pp. 149-158.
12. Buyurgan, Nebil, Heather Nachtmann, and Selin Celikkol, “A Model for Integrated Implementation of Activity Based Costing and Radio Frequency Identification Technology,” *International Journal of RF Technologies: Research and Applications*, Vol. 1, No. 3 (2009), pp. 114-130.
 13. Chimka, Justin R., and Heather Nachtmann, “Operational Readiness as a Function of Maintenance Personnel Skill Level,” *Air Force Journal of Logistics*, Vol. 31, No. 3. (2007).
 14. Waller, Matthew A., Heather Nachtmann, and Justin Hunter, “Measuring the Impact of Inaccurate Inventory Information on a Retail Outlet,” *International Journal of Logistics Management*, Vol. 17, No. 3. (2006).
 15. Collins, Terry R., Manuel D. Rossetti, Heather Nachtmann, and James Oldham, “The Use of Multi-Attribute Utility Theory to Determine the Overall Best-In-Class Performer in a Benchmarking Study,” *Benchmarking International Journal*, Vol. 13, No. 4 (2006).
 16. Sortrakul, Navadon, Heather Nachtmann, and Charles R. Cassady, “Genetic Algorithms for Integrated Preventive Maintenance Planning and Production Scheduling for a Single Machine,” *Computers in Industry*, Vol. 56, No. 2 (2005), pp. 161-168.
 17. Nachtmann, Heather, and Mohammad Hani Al-Rifai, “An Application of Activity Based Costing in the Air Conditioner Manufacturing Industry,” *The Engineering Economist*, Vol. 49, No. 3 (2004), pp. 221-236.
 18. Angulo, Andres, Heather Nachtmann, and Matthew Waller, “Supply Chain Information Sharing in a Vendor Managed Inventory Partnership,” *Journal of Business Logistics*, Vol. 25, No. 1 (2004), pp. 101-117.
 19. Nachtmann, Heather, and Kim LaScola Needy, “Methods for Handling Uncertainty in Activity Based Costing,” *The Engineering Economist*, Vol. 48, No. 3 (2003), pp. 259-282. Winner of the 2004 Eugene L. Grant Best Paper Award presented to the best paper published in Volume 48 of *The Engineering Economist*.
 20. Needy, Kim LaScola, Heather Nachtmann, Narcyz Roztock, Rona Colosimo, and Bopaya Bidanda, “Implementing Activity Based Costing Systems in Small Manufacturing Firms: A Field Study,” *Engineering Management Journal*, Vol. 15, No. 1 (2003), pp. 3-10. Winner of the 2004 Ted Eschenbach Best Paper Award presented to the best paper published in Volume 15 of the *Engineering Management Journal*.
 21. Gattis, Carol, Heather Nachtmann, and Alisha Youngblood, “The Students-Recruiting-Students Undergraduate Engineering Recruiting Program,” *European Journal of Engineering Education*, Vol. 28, No. 1 (2003), pp. 71-82.
 22. Nachtmann, Heather, and Kim LaScola Needy, “Fuzzy Activity Based Costing: A Methodology for Handling Uncertainty in Activity Based Costing Systems,” *The Engineering Economist*, Vol. 46, No. 4 (2001), pp. 245-273.
 23. Needy, Kim LaScola, Jerome P. Lavelle, Heather Nachtmann, and Ted G. Eschenbach, “An Empirical Analysis of Engineering Economy Pedagogy,” *The Engineering Economist*, Vol. 45, No. 1 (2000), pp. 74-92.
 24. Atman, Cynthia J., Justin R. Chimka, Karen M. Bursic, and Heather Nachtmann, “A Comparison of Freshmen and Senior Engineering Design Processes,” *Design Studies*, Vol. 20, No. 2 (1999), pp. 131-152.

Book Chapters

1. Nachtmann, Heather, “Estimating Cash Flows,” *The Economic Analysis of Industrial Projects* (3rd Edition; New York, New York: Oxford University Press, 2015).
2. Nachtmann, Heather, Edward A. Pohl, and Leily Farrokhvar, “Decision Support for Inland

Waterways Emergency Response,” reprint of Engineering Management Journal article, Chapter Thirty in *Handbook of Emergency Response* (Taylor & Francis/CRC Press, 2013).

3. Pohl, Edward A., and Heather Nachtmann, “Life Cycle Costing,” *Fundamentals of System Decision Making in Systems Engineering and Management* (2nd Edition; New York, New York: John Wiley & Sons, 2011; 1st Edition; New York, New York: John Wiley & Sons, 2008).
4. Collins, Terry R., Scott J. Mason, and Heather Nachtmann, “Cost Evaluation and Analysis,” *Advanced Electronic Packaging* (2nd Edition; New York, New York: John Wiley & Sons, 2006).

Refereed Conference Papers

1. Oztanriseven, Furkan, Lizzette Perez-Lespier, Suzanna Long, and Heather Nachtmann, “A Review of System Dynamics in Maritime Transportation,” *Proceedings of the 2014 Industrial Engineering Research Conference*, May 30-June 2, 2014.
2. Tong, Jingjing, Heather Nachtmann, and Edward A. Pohl, “Value-Focused Thinking for Inland Waterborne Cargo Prioritization,” *American Society for Engineering Management Conference Proceedings*, October 2013.
3. Oztanriseven, Furkan and Heather Nachtmann, “A Review of Economic Impact Analysis in Maritime Transportation,” *American Society for Engineering Management Conference Proceedings*, October 2013.
4. Specking, Eric, Rufidah Almaian, and Heather Nachtmann, “An Analytic Hierarchy Process Approach to Engineering Outreach Decisions,” *Proceedings of the 2013 Industrial Engineering Research Conference*, May 31-June 3, 2013.
5. Tong, Jingjing, and Heather Nachtmann, “Multi-attribute Decision Model for Cargo Prioritization within Inland Waterway Transportation,” *Proceedings of the 2013 Industrial Engineering Research Conference*, May 31-June 3, 2013.
6. Smith, Brian K., Heather Nachtmann, and Edward A. Pohl, “Progress towards Data Standards Adoption in Healthcare,” *American Society for Engineering Management Conference Proceedings*, October 17-20, 2012.
7. Nachtmann, Heather, and Kenneth Ned Mitchell, “Systems Optimization within the U.S. Army Corps of Engineers’ Navigation Program,” *Proceedings of the 2012 Industrial Engineering Research Conference*, May 19-23, 2012.
8. Tong, Jingjing, and Heather Nachtmann, “A Review of Cargo Prioritization Techniques within Inland Waterway Transportation,” *Proceedings of the 2012 Industrial Engineering Research Conference*, May 19-23, 2012 (Invited Paper).
9. Evans, Emily, Heather Nachtmann, and Kim LaScola Needy, “A Look into the Engineering Economy Classroom,” *American Society for Engineering Education Annual Conference Proceedings*, June 26-29, 2011.
10. Tong, Jingjing, and Heather Nachtmann, “A Review of Risk Assessment Models for Inland Waterway Transportation,” *Proceedings of the 2011 Industrial Engineering Research Conference*, May 21-25, 2011. Winner of the Homeland Security Track Best Paper Award for the 2011 Institute of Industrial Engineers Annual Conference.
11. Farrokhvar, Leily, Heather Nachtmann, and Edward A. Pohl, “Measuring the Feasibility of Inland Waterway Emergency Response,” *Proceedings of the 2011 Industrial Engineering Research Conference*, May 21-25, 2011.
12. Smith, Brian K., Heather Nachtmann, and Edward A. Pohl, “An Investigation of the Healthcare Supply Chain: Literature Review,” *Proceedings of the 2011 Industrial Engineering Research Conference*, May 21-25, 2011 (Invited Paper).

13. Smith, Brian K., Heather Nachtmann, and Edward A. Pohl, "A Balanced Scorecard Approach to Measuring Healthcare Supply Chain Performance," *American Society for Engineering Management Conference Proceedings*, October 14-17, 2010.
14. Evans, Emily, Heather Nachtmann, and Kim LaScola Needy, "A Look into the Engineering Economy Education Literature," *American Society for Engineering Education Annual Conference Proceedings*, June 20-23, 2010.
15. Smith, Brian K., Heather Nachtmann, and Edward A. Pohl, "Kaizen Event Effectiveness via Healthcare Logistics Data Standardization," *Proceedings of the 2010 Industrial Engineering Research Conference*, June 5-9, 2010 (Invited Paper).
16. Smith, Brian K., Heather Nachtmann, and Edward A. Pohl, "Improving Healthcare Supply Chain Processes via Data Standardization," *American Society for Engineering Management Conference Proceedings*, October 14-17, 2009 (Best Paper Nominee).
17. Smith, Brian K., Heather Nachtmann, Edward A. Pohl, and Jared R. Townsley^S, "Management Initiatives in Healthcare Logistics," *Proceedings of the 2009 Industrial Engineering Research Conference*, May 30-June 4, 2009 (Invited Paper).
18. Smith, Brian K., Heather Nachtmann, and Edward A. Pohl, "Quality Measures for the Healthcare Supply Chain?," *American Society for Engineering Management Conference Proceedings*, November 12-15, 2008.
19. Nachtmann, Heather, Kim LaScola Needy, Jerome Lavelle, and Ted Eschenbach, "How do Engineering Managers Teach Engineering Economy?," *American Society for Engineering Management Conference Proceedings*, November 12-15, 2008.
20. Li, Zhe, Manuel D. Rossetti, and Heather Nachtmann, "WebShipCost - Risk Analysis with a Geographical Information System," *Proceedings of the 2006 Industrial Engineering Research Conference*, May 20-23, 2006.
21. Youngblood, Alisha D., Terry R. Collins, and Heather Nachtmann, "The Application of a Utility-based Balanced Scorecard to an Industry Setting," *American Society for Engineering Management Conference Proceedings*, October 20-23, 2004.
22. Li, Zhe, Heather Nachtmann, and Manuel D. Rossetti, "WebShipCost – Quantifying Risk in Intermodal Transportation," *Proceedings of the 2004 Industrial Engineering Research Conference*, May 16-19, 2004.
23. Youngblood, Alisha D., Terry R. Collins, and Heather Nachtmann, "Investigation of a Utility-based Balanced Scorecard," *Proceedings of the 2004 Industrial Engineering Research Conference*, May 16-19, 2004.
24. Youngblood, Alisha D., Terry R. Collins, and Heather Nachtmann, "The Incorporation of Risk Sensitivity for Addressing Trade-offs in the Balanced Scorecard," *American Society for Engineering Management Conference Proceedings*, October 15-18, 2003.
25. Nachtmann, Heather, Justin R. Chimka, and Alisha D. Youngblood, "Investigating Engineering Student Estimation Processes," *American Society for Engineering Education Annual Conference Proceedings*, June 22-25, 2003.
26. Eason, Jeffrey L., and Heather Nachtmann, "Methods for Setting Target Inventory Levels for New Products," *Proceedings of the 2003 Industrial Engineering Research Conference*, May 18-20, 2003.
27. Li, Zhe, Manuel D. Rossetti, and Heather Nachtmann, "WebShipCost - An Intermodal Transportation Web-based Application," *Proceedings of the 2003 Industrial Engineering Research Conference*, May 18-20, 2003.
28. Waters, Brian, Jeffrey L. Eason^S, and Heather Nachtmann, "Estimating Project Option Values Using Fuzzy Set Theory," *Proceedings of the 2003 Industrial Engineering Research Conference*, May 18-20, 2003.
29. Nachtmann, Heather, and Justin R. Chimka, "Fuzzy Reliability in Conceptual Design," *Annual Reliability and Maintainability Symposium*, January 27-30, 2003.

30. Waters, Brian and Heather Nachtmann, "Integration of Financial Engineering and Engineering Management," *American Society for Engineering Management Conference Proceedings*, October 2-5, 2002.
31. Angulo, Andres, Heather Nachtmann, and Matthew Waller, "Use of Shared Information in a Vendor-Managed Inventory (VMI) Supply Chain," *Proceedings of the 2002 Industrial Engineering Research Conference*, May 19-21, 2002.
32. Malstrom, Derek M., Terry R. Collins, Heather Nachtmann, and Manuel Rossetti, "An Inventory Cost Model of a Government Owned Facility using Fuzzy Set Theory," *Proceedings of the 2002 Industrial Engineering Research Conference*, May 19-21, 2002.
33. Nachtmann, Heather, and Kim LaScola Needy, "Handling Uncertainty in Activity Based Costing," *Proceedings of the 2002 Industrial Engineering Research Conference*, May 19-21, 2002.
34. Oldham, James R., Terry R. Collins, Manuel D. Rossetti, and Heather Nachtmann, "Identifying Techniques to Determine the Overall Benchmarking Best Practices," *Proceedings of the 2002 Industrial Engineering Research Conference*, May 19-21, 2002.
35. Youngblood, Alisha D., and Heather Nachtmann, "Setting Inventory Levels for New Products," *Proceedings of the 2002 Industrial Engineering Research Conference*, May 19-21, 2002.
36. Nachtmann, Heather, and Amber Lehrman, "Teaching Engineers to Handle Uncertainty," *American Society for Engineering Education Annual Conference Proceedings*, June 23-26, 2002.
37. Nachtmann, Heather, "Integrating Research into the Cost Engineering Classroom," *American Society for Engineering Education Annual Conference Proceedings*, June 24-27, 2001.
38. Hartman, Joseph, Jerome Lavelle, Robert Martinazzi, Heather Nachtmann, Kim LaScola Needy, and Peter Shull, "A Decision Tool for Developing a Course in Engineering Economy," *American Society for Engineering Education Annual Conference Proceedings*, June 24-27, 2001.
39. Nachtmann, Heather, and Kim LaScola Needy, "Development of a Fuzzy Activity Based Costing System," *Proceedings of the 2001 Industrial Engineering Research Conference*, May 19-21, 2001.
40. Nachtmann, Heather, Scott J. Mason, Andres F. Angulo, and Earnest W. Fant, "Validation of Target Inventory Methodologies in the Real World," *Proceedings of the 2001 Industrial Engineering Research Conference*, May 19-21, 2001.
41. Nachtmann, Heather, and Kim LaScola Needy, "The Design and Usage of an Outsourcing Decision Support System: An Application of Fuzzy Activity Based Costing," *American Society for Engineering Management Conference Proceedings*, October 5-7, 2000.
42. Needy, Kim LaScola, David I. Cleland, Dennis P. Slevin, Heather Nachtmann, and Ray Jones, "A Data Collection Strategy for the Study of Successful Enterprise Governance," *American Society for Engineering Management Conference Proceedings*, October 5-7, 2000.
43. Valeri, Guillermo, Kim LaScola Needy, and Heather Nachtmann, "Development of an Activity Based Costing System in a Mid-sized South American Pharmaceutical Company," *American Society for Engineering Management Conference Proceedings*, October 5-7, 2000.
44. Needy, Kim LaScola, David I. Cleland, Dennis P. Slevin, Heather Nachtmann, and Steven L. Cohen, "A Proposed Model for the Incorporation of the Enterprise Governance Topic in an Engineering Management Curriculum," *American Society for Engineering Education Annual Conference Proceedings*, June 18-21, 2000.
45. Nachtmann, Heather, and Kim LaScola Needy, "Fuzzy Activity Based Costing," *Proceedings of the 2000 Industrial Engineering Research Conference*, May 21-23, 2000.
46. Nachtmann, Heather, Kim LaScola Needy, Jerome P. Lavelle, and Ted G. Eschenbach, "Engineering Economy: Current Teaching Practices," *American Society for Engineering Education Annual Conference Proceedings*, June 20-23, 1999.
47. Needy, Kim LaScola, David I. Cleland, Dennis P. Slevin, Heather Nachtmann, and Steven L. Cohen, "Critical Factors in Successful Corporate Governance," *American Society for Engineering Education*

Annual Conference Proceedings, June 20-23, 1999.

48. Lavelle, Jerome P., Kim LaScola Needy, and Heather Nachtmann, "Engineering Economy - A Follow-up Analysis of Current Teaching Practices," *American Society for Engineering Education Annual Conference Proceedings*, June 15-18, 1997.
49. Atman, Cynthia J., Indira Nair, and Heather Nachtmann, "Do Engineers and Humanities Majors Perceive STS Issues Differently?," *American Society for Engineering Education Annual Conference Proceedings*, June 26-29, 1994.

Invited Talks Given

1. Nachtmann, Heather, "The Inland Waterway System and Waterborne Freight," 8th UTC Spotlight Conference on The Role of Freight Transportation in Economic Competitiveness, Washington, D.C., December 2014.
2. Doolen, Toni, Eillen Van Aken, Greet Letens, and Heather Nachtmann, "Tips for Publishing in EMJ," 2014 American Society for Engineering Management Annual Conference, Norfolk, VA, October 2014.
3. Nachtmann, Heather, "Supporting Secure and Resilient Inland Waterways," National Strategic Maritime Risk Stakeholder Alliance, West Lafayette, IN, November 2013.
4. Pohl, Edward A., and Heather Nachtmann, "Healthcare vs. Retail Supply Chain Gap Analysis," 2013 AHRMM Conference, San Diego, CA, July 2013.
5. Nachtmann, Heather, Jingjing Tong^S, and Justin Chimka, "A Cargo Prioritization Model for Inland Waterway Disruptions," Second INFORMS Transportation Science and Logistics Society Workshop, Monterey, CA, June 2013.
6. Nachtmann, Heather, and Matthew Campo, "Supporting Secure and Resilient Inland Waterways," Committee on Marine Transportation Systems Speaker Series, Washington, DC, June 2013.
7. Nachtmann, Heather and Matthew Campo, "Supporting Secure and Resilient Inland Waterways," USCG LANTAREA Academic Speaker Series, Norfolk, VA, January 2013.
8. Doolen, Toni, Eillen Van Aken, and Heather Nachtmann, "Tips for Publishing in EMJ," 2012 American Society for Engineering Management Annual Conference, Norfolk, VA, October 2012.
9. Nachtmann, Heather, "National Transportation Security Center of Excellence," U.S. Coast Guard Innovation Showcase, Washington, D.C., June 2012.
10. Nachtmann, Heather, and Edward A. Pohl, "Assessing the Feasibility of Inland Waterway Emergency Services," Biennial Committee on Marine Transportation Systems/Transportation Research Board Research & Development Conference, Washington, D.C., June 2012.
11. Nachtmann, Heather, Chase E. Rainwater, Edward A. Pohl, and Kenneth Ned Mitchell, "Improved Resource Allocation for Dredge Scheduling and Procurement," Biennial Committee on Marine Transportation Systems/Transportation Research Board Research & Development Conference, Washington, D.C., June 2012.
12. Nachtmann, Heather, and Henry J. Mayer, "Supporting Secure and Resilient Inland Waterways," U.S. Coast Guard Headquarters Meeting, Washington, D.C., November 2011.
13. Nachtmann, Heather, "Emergency Response via Inland Waterways," U.S. Department of Transportation Maritime Data Working Group, Washington, D.C., November 2011.
14. Nachtmann, Heather, and Edward A. Pohl, "Systems Optimization and Operations Research," U.S. Army Engineer Research and Development Center, Coastal and Hydraulics Laboratory Webinar, October 2011.
15. Nachtmann, Heather, "Secure and Resilient Waterways," Arkansas Regional Waterways Conference, Little Rock, Arkansas, October 2011.
16. Nachtmann, Heather, "The Role of Inland Waterways in Response and Resiliency," TRB

- Transportation Hazards and Security Summit, Irvine, California, August 2011.
17. Nachtmann, Heather, "The Inland Waterway Transportation Systems' Role in Response and Recovery," Fifth Annual Department of Homeland Security University Network Summit, Washington, D.C., April 2011.
 18. Smith, Brian K.^S, Justin R. Chimka, and Heather Nachtmann, "A 0-1 Quadratic Program for the Case of Missing Data in Regression," INFORMS Annual Meeting, Austin, Texas, November 2010.
 19. Nachtmann, Heather, "Emergency Medical Response via Inland Waterways," Arkansas Governor's Conference on Waterborne Transportation, Little Rock, Arkansas, October 2010.
 20. Pohl, Edward A., and Heather Nachtmann, "The Current State of IT in the Healthcare Supply Chain," HIMSS/AHRMM Supply Chain Symposium, Atlanta, Georgia, March 2010.
 21. Nachtmann, Heather, and Edward A. Pohl, "Life after the EHCR: Data for the New Millennium," AHRMM Webinar, December 2009.
 22. Nachtmann, Heather, "Cost and Quality Project Update," Center for Innovation in Healthcare Logistics Fall Stakeholders Meeting, Fayetteville, Arkansas, November 2009.
 23. Nachtmann, Heather, "Emergency Medical Response via Inland Waterways," Fayetteville Chamber of Commerce Transportation Committee, Fayetteville, Arkansas, October 2009.
 24. Smith, Brian K.^S, Heather Nachtmann, and Edward A. Pohl, "Opportunities for Improvements in Healthcare Logistics Revealed," INFORMS Annual Meeting, San Diego, California, October 2009.
 25. Nachtmann, Heather, and Edward A. Pohl, "2010 GLN Sunrise – What Else is Needed to Reach the Industry Goal?," GS1 Healthcare US™ Workgroup Forum, Chicago, Illinois, October 2009.
 26. Nachtmann, Heather, and Edward A. Pohl, "The State of Healthcare Logistics," AHRMM 47th Annual Conference, Tampa, Florida, July 2009.
 27. Nachtmann, Heather, "Mack Blackwell Rural Transportation Center – Research Overview," U.S. Department of Homeland Security NTSCOE Director's Meeting, Washington, D.C., May 2009.
 28. Nachtmann, Heather, and Edward A. Pohl, "Cost and Quality in Healthcare Logistics," HIMSS Supply Chain Special Interest Group Webinar, March 2009.
 29. Nachtmann, Heather, "University Transportation Centers-Best Practices on Pre-College Outreach," USDOT RITA UTC Program Grant Recipients Meeting, Washington, D.C., January 2009.
 30. Nachtmann, Heather, "Rural Transportation Security," Petrochemical Transportation Security Workshop, Houston, Texas, November 2008.
 31. Nachtmann, Heather, and Edward A. Pohl, "Identifying Opportunities for Cost & Quality Improvements in Healthcare Logistics," Center for Innovation in Healthcare Logistics Fall Stakeholders Meeting, Springdale, Arkansas, October 2008.
 32. Nachtmann, Heather, and Edward A. Pohl, "Identifying Opportunities for Cost & Quality Improvements in Healthcare Logistics," INFORMS Annual Meeting, Washington, DC, October 2008.
 33. Nachtmann, Heather, "Mack-Blackwell Rural Transportation Center," College of Engineering Dean's Advisory Council, Fayetteville, Arkansas, October 2008.
 34. Nachtmann, Heather, "It's Great to be an Engineer," College of Engineering Girls Camp, Fayetteville, Arkansas, August 2008.
 35. Hall, Kevin D., and Heather Nachtmann, "Mack-Blackwell Rural Transportation Center," Department of Homeland Security Science and Technology Directorate, Washington D.C., October 2007.
 36. Nachtmann, Heather, "Statewide Contributions of Waterborne Transportation to Arkansas," Arkansas House and Senate Interim Committees on Public Transportation of the Arkansas General

Assembly, Little Rock, Arkansas, October 2007.

37. Nachtmann, Heather, "Ancillary Benefits of the Ouachita River Navigation System," Arkansas House and Senate Interim Committees on Public Transportation and House and Senate Interim Committees on Agriculture, Forestry and Economic Development of the Arkansas General Assembly, Little Rock, Arkansas, October 2006.
38. Nachtmann, Heather, "Economic Evaluation of the Impact of Waterways on the Port of Cincinnati-Tristate," River Advisory Council Forum, Cincinnati, Ohio, November 2005.
39. Nachtmann, Heather, "How to Teach (and Still Make Tenure)," American Society for Engineering Management Conference, Alexandria, Virginia, October 2004.
40. Tooley, Melissa S., and Heather Nachtmann, "Mack-Blackwell Rural Transportation Center," Arkansas Governor's Conference on Waterborne Transportation, Little Rock, Arkansas, August 2003.
41. Nachtmann, Heather, "The Logistics Institute/Mack Blackwell Transportation Center," Supply Chain Management Research Center Annual Board Meeting, Fayetteville, Arkansas, September 2002.
42. Nachtmann, Heather, "Economic Evaluation of the Impact of Waterways on the State of Arkansas," Arkansas House and Senate Public Transportation and City, County & Local Affairs Committee, Fayetteville, Arkansas, June 2001.
43. Nachtmann, Heather, "Economic Evaluation of the Impact of Waterways on the State of Arkansas," Arkansas River Regional Intermodal Facilities Authority Board of Directors, Pine Bluff, Arkansas, April 2001.
44. Nachtmann, Heather, "The Impact of Waterways on the State of Arkansas," Arkansas House Committee on Public Transportation of the Arkansas General Assembly, Little Rock, Arkansas, February 2001.

Other Presentations

1. Nachtmann, Heather, Kenneth N. Mitchell, Chase E. Rainwater, Ridvan Gedik, and Edward A. Pohl, "Optimal Dredge Fleet Scheduling within Environmental Work Windows," TRB 93rd Annual Meeting, Washington, DC, January 2014.
2. Nachtmann, Heather, Matthew Campo, and Jingjing Tong, "Development of Multimodal Transportation Resilience Planning Tool for Inland Waterway Transportation," TRB 93rd Annual Meeting, Washington, DC, January 2014.
3. Oztanriseven, Furkan^s, and Heather Nachtmann, "An Economic Impact Study of the Arkansas Navigable Inland Waterways," 2013 INFORMS Annual Meeting, Minneapolis, MN, October 2013.
4. Tong, Jingjing, and Heather Nachtmann, "A Cargo Prioritization Model for Inland Waterways," 2013 INFORMS Annual Meeting, Minneapolis, MN, October 2013.
5. Rainwater, Chase, Ridvan Gedik, Heather Nachtmann, and Edward Pohl, "Optimizing Inland Waterway Infrastructure Maintenance for Supply Chain Operations," EURO INFORMS, Rome, Italy, July 2013.
6. Oztanriseven, Furkan, and Heather Nachtmann, "An Economic Impact Study of the Inland Waterways," 63rd Institute of Industrial Engineers Annual Conference, San Juan, Puerto Rico, May 2013.
7. Tong, Jingjing, and Heather Nachtmann, "A Cargo Prioritization Model for Inland Waterway Disruptions," INFORMS 2012 Annual Meeting, Phoenix, Arizona, October 2012.
8. Mitchell, Kenneth N., and Heather Nachtmann, "Dredge Fleet Scheduling Optimization and Sensitivity Analysis," Dredging 2012, San Diego, California, October 2012.
9. Nachtmann, Heather, and Matthew Campo, "Supporting Secure and Resilient Inland Waterways: Emergency Decision Support Tools," TRB - 2012 Joint Conference of Harbor Safety Committees

and Area Maritime Security Committees, Pittsburgh, Pennsylvania, August 2012.

10. Campo, Matthew, Henry Mayer, Heather Nachtmann, Edward Pohl, and Justin Chimka, Supporting Secure and Resilient Inland Waterways,” Biennial Committee on Marine Transportation Systems/Transportation Research Board Research & Development Conference, Washington, D.C., June 2012.
11. Farrokhvar, Leily, and Heather Nachtmann, “A Heuristic Approach for Designing Inland Waterways Emergency Response System,” 62nd Institute of Industrial Engineers Annual Conference, Orlando, Florida, May 2012.
12. Smith, Brian K., Heather Nachtmann, and Edward A. Pohl, “An Empirical Analysis of Supply Chain Maturity in Healthcare Providers,” 62nd Institute of Industrial Engineers Annual Conference, Orlando, Florida, May 2012.
13. Oztanriseven, Furkan, and Heather Nachtmann, “A Review of Economic Impact Analysis in Inland Waterway Transportation,” 62nd Institute of Industrial Engineers Annual Conference, Orlando, Florida, May 2012.
14. Nachtmann, Heather, and Edward A. Pohl, “Emergency Medical Services via Inland Waterways,” 2012 TRB Annual Meeting, Current Research on Port Operations, Inland Waterways, and the Marine Environment, Washington, D.C., January 2012.
15. Tong, Jingjing, and Heather Nachtmann, “Cargo Prioritization for Inland Waterway Disruptions,” INFORMS 2011 Annual Meeting, Charlotte, North Carolina, November 2011.
16. Nachtmann, Heather, and Edward A. Pohl, “Life after the EHCR: How Far Have We Come?,” Association for Healthcare Resource and Materials Management 49th Annual Conference, Boston, Massachusetts, August 2011.
17. Farrokhvar, Leily, Heather Nachtmann, and Edward A. Pohl, “Designing an Inland Waterways Emergency Response System Using Goal Programming,” 61st Institute of Industrial Engineers Annual Conference, Reno, Nevada, May 2011.
18. Kilgore, Mark, Heather Nachtmann, and Edward A. Pohl, “How Much is the Healthcare Supply Chain Costing Us?,” 61st Institute of Industrial Engineers Annual Conference, Reno, Nevada, May 2011.
19. Farrokhvar, Leily, Heather Nachtmann, and Edward A. Pohl, “Decision Support for Inland Waterways Emergency Response,” 2010 INFORMS Annual Meeting, Austin, Texas, November 2010.
20. Smith, Brian K., Heather Nachtmann, and Edward A. Pohl, “Opportunities for Improvements in Healthcare Logistics Revealed,” 2009 INFORMS Annual Meeting, San Diego, California, October 2009.
21. Smith, Brian K., Heather Nachtmann, Edward A. Pohl, and Jared Townsley, “Identifying Opportunities for Cost and Quality Improvements in Healthcare Logistics,” 2008 INFORMS Annual Meeting, Washington, D.C., October 2008.
22. Nachtmann, Heather, “Relating Design Process to Product Quality,” American Society for Engineering Education Annual Conference, Seattle, Washington, June 1998.

STUDENT ADVISING

Doctoral

- Liliana Delgado Hidalgo (expected May 2017)
- Furkan Oztanriseven (expected May 2016)
- Jingjing Tong (August 2014; Assistant Professor, Southeast Missouri State University)
 - 2013 University of Arkansas Graduate Student Research Competition – First Place in Supply Chain Group
 - 2012, 2013 IIE Gilbreth Memorial Fellowship Recipient
 - 2012 University of Arkansas Graduate Student Research Competition – Second Place in Supply Chain Group
 - 2012 Department of Industrial Engineering Outstanding Graduate Research Award Recipient
- Brian Smith (August 2011; Assistant Professor, Mississippi State University)
 - American Society for Engineering Management 2012 Engineering Management Best Dissertation Award
 - 2009-2010 Outstanding Teaching Assistant
 - 2009 Outstanding Graduate Research Award Recipient
- Alisha Youngblood (December 2003; Associate Professor, Southeast Missouri State University)

Master's Thesis

- Othman Boudham (expected August 2015)
- Martha Gonzalez (May 2014)
- Leily Farrokhvar (December 2010)
- Adam Keeley (May 2009)
- Oksan Kaya (May 2007)
- Selin Celikkol (May 2007)
- David Reiske (May 2006)
- Justin Hunter (May 2006)
- Brian Waters (August 2003)
- Jeffery Eason (May 2003)
- Andrés Angulo (May 2002; 2001 Outstanding Graduate Research Award Recipient)

Undergraduate Honors Thesis

- Kaitlin Denny (May 2015)
- Valeria Remon (May 2015)
- Josh Liu (May 2007; 2007 Student Undergraduate Research Fellowship grant recipient)
- Seth Borin (May 2007; 2007 Honors College research grant recipient)
- Adam Keeley (May 2007; 2007 Honors College research grant recipient)
- Thomas Duncan (August 2005; 2005 Honors College research grant recipient)

Graduate Committee Membership

- Rufaidah Almaian (Ph.D., 2014)
- Ryan Black (M.S., 2012)
- Behlul Saka (Ph.D., 2011)
- Jared Townsley (M.S., 2010)
- Behrooz Kamali (M.S., 2010)
- Qingbiao Ni (M.S., 2010)
- Rizki Balya (M.S., 2009)
- Rebekah Johnson (M.S., 2008)
- Vikram Desai (M.S., 2006)
- Mohammad Al-Rifai (Ph.D., 2005)
- Suzan Alaswad (M.S., 2005)
- Vijith Varghese (M.S., 2005)
- Ghazi Magableh (Ph.D., 2004)
- Ashish Achlerkar (M.S., 2004)
- Thomas Yeung (M.S., 2004)
- Navadon Sortrakul (Ph.D., 2003)
- P. Mauricio Ribera (M.S., 2002)
- Derek Malstrom (M.S., 2002)
- James Oldham (M.S., 2001)

TEACHING (AVERAGE COURSE CORE SCORE = 4.2/5.0)

Course Title	Term	Enrollment	Mean Core Score out of 5
INEG 1403/2403 Industrial Cost Analysis	Spring 2015	91	4.6
	Spring 2014	90	4.5
	Spring 2013	80	4.5
	Spring 2012	59	4.7
	Spring 2010	50	3.8
	Spring 2009	58	4.2
	Spring 2007	47	4.0
	Spring 2006	47	4.1
	Spring 2004	62	3.9
	Spring 2003	54	4.1
	Spring 2002	65	3.6
	Spring 2001	66	4.3
INEG 3613 Introduction to Operations Research	Spring 2007	46	4.2
	Spring 2006	42	4.2
	Spring 2005	52	3.9
	Spring 2004	44	4.1
	Spring 2003	55	4.1
INEG 4423 Advanced Engineering Economy	Fall 2012	14	4.6
	Fall 2009	20	4.0
	Spring 2008	21	4.0
	Fall 2006	22	4.3
	Fall 2004	21	4.5
	Fall 2003	20	4.3
	Fall 2002	15	4.4
	Fall 2001	21	3.7
INEG 5433 Cost Estimation Models	Fall 2004	30	4.0
	Fall 2002	16	4.5
	Fall 2000	29	4.6
INEG 5443 Decision Models	Fall 2011	18	4.3
	Fall 2008	10	4.3
	Fall 2005	16	4.3
	Fall 2003	17	4.6
	Fall 2001	17	4.6

RESEARCH FUNDING (AWARD TOTAL: \$8,367,402)

Investigators	Project Title	Funding Source	Funding	Dates
H. Nachtmann (PI) K. D. Hall	Tier 1 Maritime Transportation Research and Education Center	U.S. Dept of Transportation (USDOT)	\$3,740,000	09/13-09/18
H. Nachtmann (PI)	MKARNS Regional Economic Impact Study	Arkansas State Highway and Transportation Department	\$40,000	04/14-08/15
H. Nachtmann (PI) J. R. Chimka E. A. Pohl	Supporting Secure and Resilient Inland Waterways	U.S. Department of Homeland Security (USDHS), National Transportation Security Center of Excellence (NTSCOE)	\$444,714	07/10-06/14
H. Nachtmann (PI)	Transportation Logistics Subaward with MS&T	Missouri University of Science and Technology (USDOT)	\$46,633 (\$23,556 cost-share)	07/13-12/13
H. Nachtmann (PI) E. A. Pohl C. E. Rainwater	Budget Allocation for Dredge Scheduling and Procurement: A Mathematical Approach	U.S. Army Corps of Engineers	\$99,547	04/12-10/13
E. A. Pohl (PI) H. Nachtmann M. D. Rossetti	Healthcare vs. Retail Supply Chain Gap Analysis	Center for Innovation in Healthcare Logistics (CIHL)	\$238,119	05/10-06/13
K. D. Hall (PI) H. Nachtmann L. M. Pohl	NTSCOE - University of Arkansas Administrative Center Funding	USDHS	\$554,846	07/08-06/13
H. Nachtmann (PI) E. A. Pohl	Identifying Opportunities for Cost & Quality Improvements in Healthcare Logistics	CIHL and Association for Healthcare Resource and Materials Management	\$336,006	01/08-06/13
H. Nachtmann	Economic Evaluation of Arkansas Inland Waterways and Potential Disruption	USDOT, Mack-Blackwell Rural Transportation Center (MBTC)	\$70,855 (\$35,429 cost-share)	07/11-06/13
H. Nachtmann (PI) K. D. Hall	Mack-Blackwell Rural Transportation Center Administrative Center Funding	USDOT	\$652,004	07/07-06/12
H. Nachtmann	Independent Graduate Assistantship	USDOT, MBTC	\$20,314	07/09-09/11
H. Nachtmann (PI) L. Pohl	Sustaining Resilient Inland Waterways via Renewable Energy	USDHS, Borders and Maritime Security Division	\$100,000	07/09-06/11
H. Nachtmann (PI) E. A. Pohl	Emergency Response via Inland Waterways	USDHS, NTSCOE	\$40,000	01/10-06/11
H. Nachtmann (PI) E. A. Pohl	Emergency Medical Response via Inland Waterways	USDOT, MBTC	\$60,568 (\$30,473 cost-share)	07/08-12/09

Investigators	Project Title	Funding Source	Funding	Dates
H. Nachtmann (PI) E. A. Pohl C. R. Cassady	Rural Transportation Emergency Preparedness Plans	USDOT, MBTC	\$106,870 (\$53,586 cost-share)	01/07- 06/08
S. J. Mason (PI) H. Nachtmann	Integrated Distribution Planning and Forecasting for Medical Logistics	Air Force Office of Scientific Research (AFOSR)	\$140,151	08/06- 06/08
H. Nachtmann (PI) J. Liu	The Contributions of the Nobel Laureates in Economics	Arkansas Department of Higher Education	\$2,025	01/07- 05/07
H. Nachtmann (PI) E. A. Pohl C. R. Cassady	Homeland Security for Rural Transportation Networks	USDOT, MBTC	\$98,131 (\$49,070 cost-share)	01/06- 05/07
H. Nachtmann	Ancillary Benefits of the Ouachita River Navigation System	State of Arkansas, MBTC	\$40,000	09/05- 05/07
H. Nachtmann	Economic Evaluation of the Impact of Waterways on the Port of Cincinnati-Tristate	Ohio Department of Development and City of Cincinnati Port Authority	\$10,000	07/06- 03/07
M. D. Rossetti (PI) H. Nachtmann	WebShipCost-A Geographical Information System for Waterway Utilization	USDOT, MBTC	\$139,136 (\$69,568 cost-share)	07/03- 03/07
H. Nachtmann (PI) N. Buyurgan J. R. Chimka C. S. Nam	Human Centered Approach to Sense and Respond Logistics – Cognitive Decision Support	AFOSR	\$390,395	04/05- 12/06
J. R. Chimka (PI) H. Nachtmann M. D. Rossetti	Syndromic Surveillance Systems	Air Force Research Laboratory (AFRL)	\$141,652	08/04- 03/06
H. Nachtmann (PI) J. R. Chimka	Quantification of Logistics Capabilities	AFRL	\$119,696	09/03- 01/05
C.R. Cassady (PI) H. Nachtmann E.A. Pohl	Maintenance Decision-Making under Prognostic and Diagnostic Uncertainty	AFRL	\$120,906	09/03- 01/05
H. Nachtmann (PI) M. D. Rossetti G. D. Taylor	WebShipCost-Quantifying Risk in Intermodal Transportation	USDOT, MBTC	\$157,890 (\$78,946 cost-share)	08/02- 09/05
C. R. Cassady (PI) H. Nachtmann L. M. Maillart	Multi-Mission Selective Maintenance Decisions	AFRL	\$97,024	07/03- 06/04
H. Nachtmann (PI) T. R. Collins	The Use of Decision Models in the Development of a Collaborative Integrated Solutions System	AFRL	\$110,288	11/02- 12/03

Investigators	Project Title	Funding Source	Funding	Dates
M. D. Rossetti (PI) H. Nachtmann	WebShipCost-Intermodal Transportation Linkage Cost Assessment Via the WWW	USDOT, MBTC	\$92,020 (\$46,024 cost-share)	08/01- 06/03
S. J. Mason (PI) H. Nachtmann	Economic Assessment of Production Downtime	Tyson Foods, Inc., The Logistics Institute (TLI)	\$50,000	08/01- 08/02
H. Nachtmann	Examination of 'Next Generation' Material Handling Solutions in P&DCs	United States Postal Service, TLI	\$50,000	03/01- 06/02
H. Nachtmann	Economic Evaluation of the Impact of Waterways on the State of Arkansas – Phase Two	USDOT, MBTC	\$7,802	01/01- 03/02
H. Nachtmann (PI) S. J. Mason E. W. Fant	Production Planning Model Validation	Tyson Foods, Inc., TLI	\$50,000	08/00- 12/01

PROFESSIONAL MEMBERSHIPS

- Alpha Pi Mu Honor Society
- American Society for Engineering Education (ASEE)
- American Society for Engineering Management (ASEM) Fellow
- Association for Healthcare Resource and Materials Management (AHRMM)
- Epsilon Mu Eta Honor Society
- Institute for Operations Research and the Management Sciences (INFORMS)
- Institute of Industrial Engineers (IIE) Senior Member
- Society of Women Engineers (SWE)

INTERNAL SERVICE ACTIVITIES

Department of Industrial Engineering

- Personnel Committee (2011-present)
- Undergraduate Studies Committee (2000-2003, 2005-2007, 2008-2012, Chair 2013-2014)
- ABET Coordinator (2013-2014)
- Scholarship Committee (2013-2014)
- Research Committee (Chair 2012-2014)
- Freshman Engineering recruiting head (2007-2014)
- Operations Management Curriculum Committee (2007-2014)
- Faculty Search Committee (2003-2007, Chair 2008-2009, Chair 2011-2012, 2013-2014)
- Strategic Planning Committee (2012-2013)
- Alpha Pi Mu faculty advisor (2002-2010; Outstanding Chapter Awards in 2005 1st place, 2006 1st place, 2007 1st place, 2008 2nd place, 2009 3rd place, and 2010 2nd place)
- Graduate Studies Committee (2007-2008)
- Head Search Committee (2007-2008)
- Honors Program director (2006-2007)
- Equipment Committee (Chair 2001-2006)
- 50th Anniversary Committee (2000-2001)

College of Engineering

- Biomedical Engineering Department Head Search Committee Chair (2015-present)
- Society of Women Engineers faculty counselor (2008-present)

- Research Task Force (2013)
- Department of Civil Engineering Faculty Search Committee (2011-2012)
- Society of Women Engineers faculty advisor (2006-2009)
- Women in Engineering faculty advisor (2006-2009)
- Telefee Committee (2005-2006)

University of Arkansas

- College of Engineering Dean Search Committee (2002-2003, 2012-2013)
- Faculty Scholars for Institutional Excellence (2007-2009)
- Student Relations Committee (2006-2009)
- College of Engineering Dean Review Committee (2002)

EXTERNAL SERVICE ACTIVITIES

Arkansas State Highway and Transportation Department

- Advisory Council for Transportation Research Member, appointed by Director (2009-present)

Association for Healthcare Resource and Materials Management

- Academic Council for Healthcare Supply Chain Research Member (2010-present)

Editorial Service for the *Engineering Management Journal*

- Associate Editor (2012-present)

Editorial Service for *The Engineering Economist*

- Area Editor (2004-present)
- Editorial Board Chair (2002-2003)
- Editorial Board Member (2000-2004)

American Society for Engineering Education

- National Engineering Economy Teaching Excellence Award Committee Member (2009-2010, 2011-2012, 2013-2014)
- Engineering Economy Division Awards Chair (2003-2004, 2012-2013)
- Engineering Economy Division Chair (2002-2003, 2010-2012)
- Engineering Economy Division Program Chair (2001-2002, 2009-2010)
- Engineering Economy Division Secretary/Treasurer (2000-2001, 2008-2009)
- Engineering Economy Division Board of Directors (1998-2004, 2006-2007)
- Engineering Economy Division Newsletter Editor (1999-2000)
- Annual Conference Session Moderator (multiple years)

American Society for Engineering Management

- Society Secretary (2014-present)
- 2012 Merritt A. Williamson Best Conference Paper Selection Committee Member (2012)
- Best Dissertation Award Committee Member (2011, 2013, 2014)
- Technical Program Co-Chair for the 2010 Annual Conference (2009-2010)
- Annual Conference Session Moderator (multiple years)

Institute of Industrial Engineers

- Scholarship Fund Trustee (2013-present, Chair 2014-present)
- SHS Student Paper Competition Judge (2013)
- Engineering Economy Division Immediate Past Director (2005-2007)
- Wellington Award Committee Member (2004-2007)
- Engineering Economy Division Director (2004-2005)

- Engineering Economy Division Program Chair (2003-2004)
- Industrial Engineering Research Conference Organizing Committee (2003-2004)
- Engineering Economy Division Newsletter Editor (2002-2003)
- IIE New Faculty Colloquium Organizing Committee (2002-2003)
- Annual Conference Session Moderator (multiple years)

Other Conference Organization

- *Transportation Research Board - Research Issues in Freight Transportation Planning Committee* (2007)
- *Symposium on Identity Solutions Steering Committee* (2007)
- *Annual Reliability and Maintainability Symposium Session Moderator*

Peer Review

Paper Reviews

- *American Society for Engineering Education Annual Conference*
- *American Society for Engineering Management Annual Conference*
- *Artificial Neural Networks in Engineering Conference*
- *Computers & Industrial Engineering*
- *Engineering Management Journal*
- *The Engineering Economist*
- *IEEE Transactions on Reliability*
- *IIE Transactions on Operations Engineering*
- *Industrial Engineering Research Conference*
- *Journal of Manufacturing Science and Engineering*
- *Journal of Business Logistics*
- *Military Operations Research*
- *Production and Operations Management*
- *Transportation Research Part E*

Book/Report Reviews

- Office of Intelligence, Security, and Emergency Response, U.S. Department of Transportation, *National Transportation Recovery Strategy* (2009).
- White, John A, Kenneth E. Case, David B. Pratt, and Marvin H. Agee, *Principles of Engineering Economic Analysis* (5th Edition; New York, New York: John Wiley & Sons, 2009).
- Canada, John R., William G. Sullivan, and John A. White, *Capital Investment Analysis for Engineering Management* (3rd Edition; Upper Saddle River, New Jersey: Pearson Prentice Hall, 2005).
- Sullivan, William G., Elin M. Wicks, and James Luxhoj, *Engineering Economy* (13th Edition; Upper Saddle River, New Jersey: Pearson Prentice Hall, 2005).
- Sullivan, William G., Elin M. Wicks, and James Luxhoj, *Engineering Economy* (12th Edition; Upper Saddle River, New Jersey: Pearson Prentice Hall, 2003).
- Canada, John R., William G. Sullivan, and John A. White, *Capital Investment Analysis for Engineering Management* (2nd Edition; Upper Saddle River, New Jersey: Pearson Prentice Hall, 2002).

Proposal Reviews

- Arkansas State Highway and Transportation Department, Transportation Research Council (2009, 2011)
- National Science Foundation, ERC solicitation NSF 09-545 (2010)

Agency Review

- Coastal and Hydraulics Laboratory, Engineering Research and Development Center, U.S. Army Corps of Engineers (2012)