

# **SUZANNA LONG, PhD, P.E.M., ASEM Fellow**

## **WORK ADDRESS:**

Missouri University of Science and Technology  
Department of Engineering Management & Systems Engineering  
227 EMGT  
Rolla, MO 65409  
573/341-7621 (Work) or 573/201-9452 (Cell)  
Email: [longsuz@mst.edu](mailto:longsuz@mst.edu)

## **ACADEMIC PREPARATION:**

Ph.D., Engineering Management, University of Missouri-Rolla, January 2005-May 2007,  
Dissertation Title: “Technology-Driven Change Management: Motivation and  
Stakeholder Acceptance in Virtual Supply Chains”  
M.S. (Engineering Management), University of Missouri-Rolla, August 2002-December  
2004  
M.A. (History), University of Missouri-St. Louis, August 1985-July 1988  
B.S. (Physics), University of Missouri-Rolla, August 1979- December 1984. Magna  
Cum Laude  
B.A. (History), University of Missouri-Rolla, August 1979-December 1984. Magna Cum  
Laude

## **PROFESSIONAL EXPERIENCE:**

1. Chair, Department of Engineering Management and Systems Engineering, Missouri University of Science and Technology, Interim Appointment: July 2015-April 2017; Permanent Appointment: May 2017-present.
2. Professor, Department of Engineering Management and Systems Engineering, Missouri University of Science and Technology, 1 September 2016.
3. Associate Chair of Graduate Studies, Department of Engineering Management and Systems Engineering, Missouri University of Science and Technology, May 2013-June 2015.
4. Associate Professor, Department of Engineering Management and Systems Engineering, Missouri University of Science and Technology, 2014-2016.
5. Assistant Professor, Department of Engineering Management and Systems Engineering, Missouri University of Science and Technology, Fall 2008-2013.
6. Director, Transportation-Logistics Program, Departments of Marketing and Management, Missouri Southern State University, August 2005-July 2008.
7. Assistant Professor, Departments of Marketing and Management, Missouri Southern State University, August 2005-July 2008.
8. Graduate Research Assistant, Department of Engineering Management and Systems Engineering, University of Missouri-Rolla, August 2003-July 2008.

9. Lecturer, Department of History, University of Missouri-Rolla, August 2003-May 2004.
10. Director of Academic Programs, Division of Continuing Studies, Pittsburg State University, January 2000-June 2003.
11. Lecturer, Department of Social Science, Pittsburg State University, Fall 1993-Spring 2000.
12. Archivist, InfoTek Consulting Services, February 1995-December 1999. Senior consultant specializing in electronic and scientific records and general information management.
13. Archives Staff, National Archives-Central Plains Region, November 1993-February 1995.
14. Archivist, Archival Services Branch, Center for Electronic Records, National Archives and Records Administration (NARA), June 1992-November 1993.
15. Archivist, Administrative Staff, NARA, October 1991-June 1992.

## **SUMMARY OF ACTIVITIES, 2008-2017**

### **RESEARCH FUNDING**

36 awarded grants (20 as PI), 2 under review as PI or co-PI

Total Funding (approximate): \$17,590,000; Candidate Shared Credit: \$4,552,000

### **PUBLICATIONS**

*Refereed Journal Articles:* 31 accepted/published, 3 in revision/under review, 7 in progress

*Refereed Conference Publications:* 90 total

*Book Chapters:* 10 published

### **SCHOLARLY CONTRIBUTIONS:**

#### **PUBLICATIONS AND PRESENTATIONS:**

<sup>1</sup>denotes student author; <sup>2</sup>denotes corresponding author; <sup>3</sup>denotes post-doctoral fellow

#### **INVITED TRANSPORTATION POLICY RESEARCH REPORT**

1. **Long, Suzanna** and Puentes, Robert, (2011), Transportation Workforce Challenges in the 21<sup>st</sup> Century, (Brookings Institute: Washington, DC), Accepted.

#### **JOURNAL ARTICLES (Peer Reviewed):**

1. Perez-Lespier, Lizzette<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, Shoberg, Tom, and Corns, Steven M. (2018) "A Model for the Evaluation of Environmental Impact Indicators for A Sustainable Maritime Transportation System," *Frontiers of Engineering Management, Accepted June 2018.*
2. Perez-Lespier, Lizzette<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, Shoberg, Tom, and Corns, Steven M. (2018) "Monte Carlo Simulation to Analyze Key Environmental Impacts Of Maritime Transportation Systems," *Frontiers of Engineering Management, Submitted.*

3. Moradpour, Samareh<sup>1</sup> and **Long, Suzanna**<sup>2</sup> (2018) "Evaluating Work Zone Sign Configurations Using a Driving Simulator," *Engineering Management Journal*, June 2018, *in preparation*.
4. Egbue, Ona<sup>1,3</sup>, **Long, Suzanna**, and Samaranayake, V.A. (2017) "Mass Deployment of Sustainable Transportation: Assessment of Factors that Influence Electric Vehicle Adoption," *Clean Technologies and Environmental Policy*, 19(7), 1927-1939, DOI 10.1007/s10098-017-1375-4.
5. Xing, Meiyu<sup>1</sup>, Awuah-Offei, Kwame, **Long, Suzanna**, and Usman, Shoab (2017) "The effect of local supply chain on regional economic impacts of mining," *The Extractive Industries and Society*. <https://doi.org/10.1016/j.exis.2017.05.005>.
6. Farhangi, Hadi<sup>1</sup>, Konur, Dincer; **Long, Suzanna**; Qin, Ruwen, and Harper, Jennifer (2017) "Track Inspection Scheduling Policy with Time and Safety Considerations," *International Journal of Rail Transportation*, Submitted August 2017.
7. Poreddy, Bhanuchander<sup>1</sup>, Corns, Steven, **Long, Suzanna**, and Soylemezoglu, Ahmet. (2016) "Dynamic Mathematical Model Framework of Complex Utility and Logistics System Interactions using Object Oriented Approach for Forward Operating Bases," *Engineering Management Journal*, 28:2, 99-108, DOI: 10.1080/10429247.2016.1116133; *Invited article for special issue on Military Applications in EM; special issue editors: Suzanna Long, PhD and LTC. Elizabeth Schott, PhD*.
8. Egbue, Ona<sup>1,3</sup> and **Long, Suzanna** (2016) "Resource Availability and Implications for the Development of Plug-In Electric Vehicle Batteries," *Energy Sources Part B, In Revision* August 2015.
9. Ramachandran, Varun<sup>3</sup>, **Long, Suzanna**<sup>2</sup>, Shoberg, Tom, Corns, Steven M. and Carlo, Hector J. (2016) "Post-disaster Supply Chain Interdependent Critical Infrastructure System Restoration Modeling: A Review of Necessary Data," *Data Sciences Journal*, 15: 1, pp. 1-13, DOI: <http://dx.doi.org/10.5334/dsj-2016-001>
10. Ramachandran, Varun<sup>1</sup>, Shoberg, Tom, **Long, Suzanna**<sup>2</sup>, Corns, Steven M. and Carlo, Hector J. (2015) "Identifying Geographical Interdependency in Critical Infrastructure Systems Using Open Source Geospatial Data in Order to Model Restoration Strategies in the Aftermath of a Large-Scale Disaster," *International Journal of Geospatial and Environmental Research* 2 (1/4): 1-19.
11. Egbue, Ona<sup>1, 3</sup>, **Long, Suzanna**<sup>2</sup>, Ng, Ean-Harn<sup>3</sup> (2015) "Charge It! Translating Electric Vehicle Research Results to Engage 7th and 8th Grade Girls," *Journal of Science Education and Technology*, Accepted March 2015, Volume 24, Issue 5, Page 663-670. DOI: 10.1007/s10956-015-9555-7.
12. Bartel-Radic, Anne, Moos, Chris, and **Long, Suzanna**<sup>2</sup> (2015) "Cross-Cultural Management Learning Through Innovative Pedagogy: An Exploratory Study Of Globally Distributed Student Teams," *Decision Sciences Journal of Innovative Education*, Volume 13, Issue 4, pages 539–562, October 2015.
13. Ramachandran, Varun, **Long, Suzanna**<sup>2</sup>, Shoberg, Tom, Corns, Steven M. and Carlo, Hector J. (2015) "Framework for Modeling Urban Socioeconomic Resilience Time in the Aftermath of an Extreme Event," *Natural Hazards Review*, [http://dx.doi.org/10.1061/\(ASCE\)NH.1527-6996.0000184](http://dx.doi.org/10.1061/(ASCE)NH.1527-6996.0000184).

14. Cudney, Elizabeth, Corns, Steven M and **Long, Suzanna** (2014) "Improving Knowledge Sharing in Healthcare through Social Network Analysis," International Journal of Collaborative Enterprise 4 (1-2): 17-33.
15. Riley, Tyria<sup>1</sup>; Cudney, Elizabeth; and **Long, Suzanna** (2013) "A Comparative Analysis of Defensive Routines in Engineering Managers versus Non-Engineering Managers", Engineering Management Journal 25 (4): 44-51.
16. Ziemer, Norbert<sup>1</sup>, **Long, Suzanna**, Mackie, Brian, Aase, Gerald<sup>1</sup>, and Gory, Deborah<sup>1</sup>, (2013) "Strategic Matching and Linkage Development by an Innovative Business System," Issues in Information Systems 14: (2): 202-209.
17. **Long, Suzanna**<sup>2</sup> and Carlo, Hector (2013) "Collaborative Teaching and Learning through multi-Institutional Integrated Group Projects," Decision Sciences Journal of Innovative Education 11 (3): 233-241.
18. Rangarajan, Kiran<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, Tobias, Alan, and Keister, Marie (2013), "The Role of Stakeholder Engagement in the Development of Sustainable Rail Infrastructure Systems," Research in Transportation Business and Management 7: 106–113, *Invited Article for Special Issue on Sustainability in Transportation*, DOI information: 10.1016/j.rtbm.2013.03.007.
19. **Long, Suzanna**<sup>2</sup> and Grasman, Scott (2012), "A Strategic Decision Model for Evaluating Inland Freight Hub Locations," Research in Transportation Business and Management (5): 92-98. *Invited Article for Special Issue on Intermodal Logistics*, DOI information: 10.1016/j.rtbm.2012.11.004.
20. Egbue, Ona<sup>1</sup> and **Long, Suzanna**<sup>2</sup> (2012), "Critical Issues in Supply Chain Design of Electric Vehicle Battery Technology," Engineering Management Journal 24 (3): 52-62. *Invited Article (Merl Baker Award Winner) for Special Issue on Transportation Management (Special Issue Editor: Suzanna Long)*.
21. **Long, Suzanna**<sup>2</sup>, Gosavi, Abhijit, Qin, Ruwen, and Noll, Casey<sup>1</sup> (2012), "Evaluating Useful Life and Developing Replacement Schedules for LED Traffic Signals: Statistical Methodology and a Field Study," Engineering Management Journal 24 (3): 15-23. *Invited Article for Special Issue on Transportation Management (Special Issue Editor: Suzanna Long)*.
22. Qin, Ruwen, Grasman, Scott, **Long, Suzanna**, Lin, Yaqin<sup>1</sup>, and Thomas, Mathew<sup>1</sup>, (2012) "A Framework of Cost-Effectiveness Analysis for Alternative Energy Strategies," Engineering Management Journal 24 (4): 18-35.
23. **Long, Suzanna**<sup>2</sup> and Cudney, Elizabeth, (2012) "Strategic Process Integration of Energy and Environmental Management Systems in Waste Water Treatment Plants," International Journal of Energy and Environment, 3 (4): 521-530.
24. Egbue, Ona<sup>1</sup> and **Long, Suzanna**<sup>2</sup>, (2012) "Barriers to widespread adoption of electric vehicles: An analysis of consumer attitudes and perceptions," Energy Policy 48 (September 2012): 717-729.
25. Rangarajan, Kiran<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, Ziemer, Norbert<sup>1</sup> and Lewis, Neal, (2012), "An Evaluative Economic Development Typology for Sustainable Rural Economic Development," Community Development 43 (3): 320-332.
26. **Long, Suzanna**<sup>2</sup>, Gentry, Lance, and Bham, Ghulam, (2012), "Driver Perceptions and the Impact of Change Resistance on the Implementation of Variable Speed Limit Systems," Transport Policy 23: 1-7.

27. **Long, Suzanna**<sup>2</sup>, Moos, Chris, and Bartel-Radic, Anne, (2012) “The Role of Multi-institutional Partnerships in Supply Chain Management Course Design and Improvement,” Journal of Education for Business 87: 129-135.
28. Murray, Susan, **Long, Suzanna**, Elrod, Cassandra, and Akula, Susmitha<sup>1</sup> (2011), “The Value of Graduate Certificate Programs in Engineering Education: A Strategic Assessment,” American Journal of Engineering Education 2 (1): 51-62.
29. **Long, Suzanna**<sup>2</sup>, (2010) “The Strategic Implications of Non-technical Stakeholder Acceptance in High Technology System Design and Implementation,” Human Systems Management 29 (4): 205-216.
30. Lipscomb, Tyler<sup>1</sup> and **Long, Suzanna**<sup>2</sup>, (2008) “The China Connection: Intermodal Transport Opportunities in Southwest Missouri,” Southern Business and Economic Review 27 (2): 9-15.
31. **Long, Suzanna**<sup>2</sup> and Spurlock, David, (2008) “Motivation and Stakeholder Acceptance in Technology-driven Change Management: Implications for the Engineering Manager,” Engineering Management Journal, 20 (2): 30-36.
32. **Long, Suzanna**<sup>2</sup> (2007) “Creating Virtual Business Relationships,” Southern Business and Economic Review 26 (2): 14-16.
33. **Long, Suzanna**<sup>2</sup>, (1993) “Documenting Federal Scientific and Technical Information (STI): A Discussion of Appraisal Criteria and Applications for the National Archives and Records Administration”, Journal of Government Information 22 (4): 311-319.

#### **OTHER PUBLICATIONS**

34. **Long, Suzanna**<sup>2</sup> (2011), “Partnership Strategies for Transportation,” Industrial Management Magazine, September/October 2011, pg. 9. *Invited Article*.

#### **TECHNOLOGY TRANSFER ACTIVITIES:**

**Inventors: Long, Suzanna, Wu, Cheng Hsiao., Noll, Casey<sup>1</sup>, and Gibson, Colin<sup>1</sup>.  
25% Share/inventor.**

UM Disclosure No. 10MST030

Attorney Reference No. 10MST030prov

Filing Date: January 28, 2011, refiled January 2012

Entitled “PORTABLE DEVICE FOR MEASURING AND TRACKING LUMINOUS OUTPUT”

#### **CONFERENCE PUBLICATIONS with PRESENTATIONS (PEER REVIEWED):**

1. Hale, Jacob<sup>1</sup>, Godse, Pranav<sup>1</sup>, and **Long, Suzanna** “Shifting the Energy Market: A Case for Microgrids,” Proceedings of the 2018 IISE Annual Conference, K. Barker, D. Berry, C. Rainwater, eds., Orlando, FL, May 2018.
2. Moradpour, Samareh<sup>1</sup>, Smith, Brian, **Long, Suzanna**, and Robin, Paul<sup>1</sup> “Multinomial Logistic Regression Analysis for Work Zone Safety,” Proceedings of the 2018 IISE Annual Conference, K. Barker, D. Berry, C. Rainwater, eds., Orlando, FL, May 2018. *Abstract only*

3. Ojha, Akhilesh<sup>1</sup>, **Long, Suzanna**, Shoberg, Tom, and Corns, Steven M. “A Mathematical Programming Approach to Minimizing Post-Disaster Transportation Indirect Costs,” Proceedings of the 2018 IISE Annual Conference, K. Barker, D. Berry, C. Rainwater, eds., Orlando, FL, May 2018. *Abstract only*
4. Wu, Shuang<sup>1</sup>, Tao, Wenjin<sup>1</sup>, Leu, Ming C., and **Long, Suzanna** “Engine Sound Simulation and Generation in Driving Simulator,” Proceedings of the 2018 IISE Annual Conference, K. Barker, D. Berry, C. Rainwater, eds., Orlando, FL, May 2018.
5. Godse, Pranav<sup>1</sup>, Al-Amin, MD<sup>1</sup>, Qin, Ruwen, and **Long, Suzanna** “An Analysis of Human Involved Incident Data for Enhancing the Safety of Hazardous Material Transportation,” Proceedings of the 2018 IISE Annual Conference, K. Barker, D. Berry, C. Rainwater, eds., Orlando, FL, May 2018. *Abstract only*
6. Perez-Lespier, Lizzette, **Long, Suzanna**, and Shoberg, Tom “Post-Disaster Diagnostics of Sustainable, Resilient Decision-Making for Maritime Transportation Systems,” Proceedings of the 2018 IISE Annual Conference, K. Barker, D. Berry, C. Rainwater, eds., Orlando, FL, May 2018. *Abstract only*
7. Ojha, Akhilesh<sup>1</sup>, **Long, Suzanna**, Shoberg, Tom, and Corns, Steven M. “Improving the Efficiency of Vital Supply Distribution after an Extreme Event,” Proceedings of the AAG, New Orleans, LA, April 2018. *Abstract Only*
8. Kanwar, Bhanu<sup>1</sup>, Corns, Steven M., **Long, Suzanna**, and Shoberg, Tom “Mapping Influential Nodes for Transportation Network Post-Disaster Restoration Planning Using Real-World Data,” Proceedings of the AAG, New Orleans, LA, April 2018. *Abstract Only*
9. Ziemer, Norbert, **Long, Suzanna**, Grayburn, Scott, Holbrook, Gabriel, and Tatara, Robert “Algal Biomass for Water Clean-Up – A Slightly Different Twist on Algae,” Proceedings of the American Society for Engineering Management 2017 International Annual Conference E-H. Ng, B. Nepal, and E. Schott eds., Huntsville, AL, October 2017.
10. Moradpour, Samareh<sup>1</sup> and **Long, Suzanna**<sup>2</sup> “K-Mean Clustering in Transportation: A Work Zone Simulator Case Study,” Proceedings of the American Society for Engineering Management 2017 International Annual Conference E-H. Ng, B. Nepal, and E. Schott eds., Huntsville, AL, October 2017.
11. Perez-Lespier, Lizzette<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, and Shoberg, Tom “Prioritizing Key Environmental Impacts Indicators from Maritime Transportation Systems: A Monte Carlo Simulation Approach,” Proceedings of the American Society for Engineering Management 2017 International Annual Conference E-H. Ng, B. Nepal, and E. Schott eds., Huntsville, AL, October 2017. *Abstract only*.
12. Moradpour, Samareh<sup>1</sup> and **Long, Suzanna**<sup>2</sup> “Data Mining Applications in Transportation,” Proceedings of the American Society for Engineering Management 2017 International Annual Conference E-H. Ng, B. Nepal, and E. Schott eds., Huntsville, AL, October 2017. *Abstract only*.
13. Ojha, Akhilesh<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, Shoberg, Tom, and Corns, Steven “A System Dynamics Approach for Estimating Post-disaster Transportation Network Failure Costs,” Proceedings of the American Society for Engineering Management 2017 International Annual Conference, Proceedings of the American Society for

- Engineering Management 2017 International Annual Conference E-H. Ng, B. Nepal, and E. Schott eds., Huntsville, AL, October 2017. *Abstract only.*
14. Perez-Lespier, Lizzette<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, and Shoberg, Tom “Sustainability Modeling of Physical Interdependencies between Maritime Shipping and the Environment,” Proceedings of the Institute of Industrial Engineering Annual Conference., Katie Coperich, Beth Cudney, and Harriet Nembhard, eds., Pittsburgh, PA, May 2017. *Abstract only.*
  15. Moradpour, Samareh<sup>1</sup> and **Long, Suzanna**<sup>2</sup> “Data Mining Applications in Transportation,” Proceedings of the Institute of Industrial Engineering Annual Conference., Katie Coperich, Beth Cudney, and Harriet Nembhard, eds., Pittsburgh, PA, May 2017. *Abstract only.*
  16. Ojha, Akhilesh<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, Shoberg, Tom, and Corns, Steven “Using Inoperability to Estimate Extreme Event Failure Costs,” Proceedings of the Institute of Industrial Engineering Annual Conference., Katie Coperich, Beth Cudney, and Harriet Nembhard, eds., Pittsburgh, PA, May 2017. *Abstract only.*
  17. Moradpour, Samareh<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, Leu, Ming C., Konur, Dincer, and Qin, Ruwen “Data Analytics and Pattern Recognition Methods for Work Zone Simulator Studies,” Proceedings of the Transportation Research Board, Washington, D.C., January 2017.
  18. Perez-Lespier, Lizzette<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, and Shoberg, Tom “Using Monte Carlo Simulation to Prioritize Key Maritime Environmental Impacts of Port Infrastructure,” Proceedings of the AGU, San Francisco, CA, December 2016. *Abstract Only*
  19. Wilt, Bonnie<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, and Shoberg, Tom, “Defining Resilience: A Preliminary Integrative Literature Review,” Proceedings of the American Society for Engineering Management 2016 International Annual Conference S. Long, E-H. Ng, C. Downing, & B. Nepal eds., Charlotte, NC, October 2016.
  20. Perez-Lespier, Lizzette<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, and Shoberg, Tom, “Multi-Objective Optimization Model for a Sustainable Maritime Transportation System Problem,” Proceedings of the American Society for Engineering Management 2016 International Annual Conference S. Long, E-H. Ng, C. Downing, & B. Nepal eds., Charlotte, NC, October 2016. *Abstract Only*
  21. Ojha, Akhilesh<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, Shoberg, Tom, and Corns, Steven, “Modeling the Economic Impact of Transportation Disruption on Supply Chain Infrastructure,” Proceedings of the American Society for Engineering Management 2016 International Annual Conference S. Long, E-H. Ng, C. Downing, & B. Nepal eds., Charlotte, NC, October 2016. *Abstract Only*
  22. Corns, Steven M<sup>2</sup>, Shoberg, Tom, and **Long, Suzanna**, “Infrastructure System Restoration Planning Using Evolutionary Algorithms,” 2016 INCOSE Annual Meeting, Edinburgh, Scotland, July 2016, <http://dx.doi.org/10.1002/j.2334-5837.2016.00272.x>
  23. Perez-Lespier, Lizzette<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, and Shoberg, Tom “A Simulation Model for Evaluating the Port of Prince Rupert as a Sustainable Maritime Transportation System,” Proceedings of the AAG, San Francisco, CA, April 2016. *Abstract Only*

24. Corns, Steven M<sup>2</sup>, Antony, Ebin<sup>1</sup>, Shoberg, Tom, and **Long, Suzanna** “Visualization of Complex Restoration Schemes,” Proceedings of the AAG, San Francisco, CA, April 2016. *Abstract Only*
25. Ojha, Akhilesh<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, Shoberg, Tom, and Corns, Steven, “Framework for Studying the Logical Interdependence between Infrastructures in the Aftermath of an Extreme Event,” Proceedings of the AAG, San Francisco, CA, April 2016. *Abstract Only*
26. **Long, Suzanna**<sup>2</sup>, Shoberg, and Corns, Steven, “Engineering Resilient Communities in the Wake of Large-Scale Disasters,” Proceedings of the 2016 Industrial and Systems Engineering Research Conference, MD Sarder, H. Yang, and Z. Kong, eds., Anaheim, CA, USA, May 2016. *Abstract Only*
27. Perez-Lespier, Lizzette<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, and Shoberg, Tom, “Creating a Data-Driven Model for Evaluating Environmental Impacts of Maritime Activity,” Proceedings of the 2016 Industrial and Systems Engineering Research Conference, MD Sarder, H. Yang, and Z. Kong, eds., Anaheim, CA, USA, May 2016. *Abstract Only*
28. Ojha, Akhilesh<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, Shoberg, Tom, and Corns, Steven, “A Leontief Based Approach to Studying the Impact of Investment in Rail Infrastructure Projects,” Proceedings of the 2016 Industrial and Systems Engineering Research Conference, MD Sarder, H. Yang, and Z. Kong, eds., Anaheim, CA, USA, May 2016. *Abstract Only*
29. Ojha, Akhilesh<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, Shoberg, Tom, and Corns, Steven, “A Model for the Logical Interdependence (Financial) within Transportation Infrastructure in the Aftermath of a Large-Scale Disaster” Proceedings of the 2016 Industrial and Systems Engineering Research Conference, MD Sarder, H. Yang, and Z. Kong, eds., Anaheim, CA, USA, May 2016. *Abstract Only*
30. Moradpour, Samareh<sup>1</sup>, Wu, Shuang<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, Leu, Ming C., Konur, Dincer, and Qin, Ruwen, “Use of Traffic Simulators to Determine Driver Response to Work Zone Configurations,” Proceedings of the American Society for Engineering Management 2015 International Annual Conference S. Long, E-H. Ng, and A. Squires eds., Indianapolis, IN, October 2015.
31. Perez-Lespier, Lizzette<sup>1</sup> and **Long, Suzanna**<sup>2</sup> “A Model for the Evaluation of Environmental Impact Indicators for a Sustainable Maritime Transportation System,” Proceedings of the American Society for Engineering Management 2015 International Annual Conference S. Long, E-H. Ng, and A. Squires eds., Indianapolis, IN, October 2015. *Abstract Only*.
32. Brennan, Cory<sup>1</sup> and **Long, Suzanna**<sup>2</sup>, “Economic Analysis of Residential Energy Storage for Time of Use Rate Cases,” Proceedings of the 2015 Industrial and Systems Engineering Research Conference, S. Cetinkaya and J. K. Ryan, eds., Nashville, TN, USA, May 2015.
33. Perez-Lespier, Lizzette<sup>1</sup> and **Long, Suzanna**<sup>2</sup>, “A Systems Thinking Approach to Post-Disaster Restoration of Maritime Transportation Systems,” Proceedings of the 2015 Industrial and Systems Engineering Research Conference, S. Cetinkaya and J. K. Ryan, eds., Nashville, TN, USA, May 2015.
34. Farhangi, Hadi<sup>1,2</sup>, Konur, Dincer, **Long, Suzanna**, Qin, Ruwen, and Harper, Jennifer, “A Bi-objective Railroad Tracks Inspection Planning Problem,”



- Proceedings of the 2015 Industrial and Systems Engineering Research Conference, Nashville, TN, USA, May 2015.
35. Schmidt, Sean<sup>1</sup> and **Long, Suzanna**<sup>2</sup>, “Economic Analysis of a Utility Owned Small Scale Solar Photovoltaic System,” Proceedings of the American Society for Engineering Management 2014 International Annual Conference S. Long, E-H. Ng, and C. Downing eds., Virginia Beach, VA, October 2104.
  36. Sipaun, Susan<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, Usman, Shoab and Awuah-Offei, Kwame, “Supply Chain Feasibility Analysis of Small Modular Reactor Technology,” Proceedings of the American Society for Engineering Management 2014 International Annual Conference S. Long, E-H. Ng, and C. Downing eds., Virginia Beach, VA, October 2014.
  37. Ramachandran, Varun<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, Corns, Steven, Shoberg, Tom, Carlo, Hector J., “Restoration of Supply Chain Interdependent Critical Infrastructures in the Aftermath of an Extreme Event: An Agent Based Modeling Approach,” Proceedings of the American Society for Engineering Management 2014 International Annual Conference S. Long, E-H. Ng, and C. Downing eds., Virginia Beach, VA, October 2104. *Abstract only.*
  38. Schmidt, Sean<sup>1</sup>, Kothapalli, Venkat Sraavan<sup>1</sup>, **Long, Suzanna**<sup>2</sup> and Qin, Ruwen, “Comparison of Statistical Analysis Methodologies for LED Indication Replacement Schedules,” Proceedings of the 2014 Industrial and Systems Engineering Research Conference, Y. Guan and H. Liao, eds., Montreal, Canada, May 2014.
  39. Brennan, Cory<sup>1</sup> and **Long, Suzanna**<sup>2</sup>, “Evaluation of a Plug-in Electric Shuttle to a Rural Community as an Initial Transit Service,” Proceedings of the 2014 Industrial and Systems Engineering Research Conference, Y. Guan and H. Liao, eds., Montreal, Canada, May 2014.
  40. Oztanriseven, Furkan<sup>1</sup>, Perez-Lespier, Lizzette<sup>1</sup>, **Long, Suzanna** and Nachtmann, Heather, “A Review of System Dynamics in Maritime Transportation,” Proceedings of the 2014 Industrial and Systems Engineering Research Conference, Y. Guan and H. Liao, eds., Montreal, Canada, May 2014.
  41. Álvarez, Wilson F.<sup>1</sup>, Vigo, Alejandro<sup>1</sup>, Carlo, Héctor J., **Long, Suzanna**, Shoberg, Tom and Corns, Steven M., “A Mathematical Model for Supply Chain Network Infrastructure Restoration,” Proceedings of the 2014 Industrial and Systems Engineering Research Conference, Y. Guan and H. Liao, eds., Montreal, Canada, May 2014.
  42. Schmidt, Sean<sup>1</sup>, **Long, Suzanna**, and Harper, Jennifer, “Economic and Technical Feasibility of LED Lighting on State Routes in Missouri,” Proceedings of the Transportation Research Board, Washington, D.C., January 2014.
  43. **Long, Suzanna**<sup>2</sup>, Shoberg, Tom, Ramachandran, Varun<sup>1</sup>, Corns, Steven, and Carlo, Hector, “Integrating Complexity Into Data-Driven Multi-Hazard Supply Chain Network Strategies,” CaGIS/ASPRS 2013 Specialty Conference, San Antonio, TX, October 2013. *Invited.*
  44. Schmidt, Sean<sup>1</sup> and **Long, Suzanna**<sup>2</sup>, “An Integrative Literature Review of the Impact of Incentivized Energy Reduction Programs,” Conference Proceedings of the American Society of Engineering Management International Annual Conference, Bloomington, MN, October 2013.

45. Egbue, Ona<sup>3</sup> and **Long, Suzanna**, “Analysis of Challenges Affecting the Successful Deployment of Electric Vehicles,” Conference Proceedings of the American Society of Engineering Management International Annual Conference, Bloomington, MN, October 2013.
46. Egbue, Ona<sup>3</sup>, **Long, Suzanna**<sup>2</sup>, and Ng, Ean<sup>3</sup>, “Energy Sustainability in Transportation Systems: Translating Electric Vehicle Research Results to 7th and 8th Graders,” Conference Proceedings of the American Society of Engineering Education Annual Meeting, Atlanta, GA, June 2013.
47. Grasman, Kellie S., Cernusca, Daniel, and **Long, Suzanna**, “Student Perceptions of Online Resources as Predictors of Performance in a Hybrid Classroom: Exploratory Findings from a Large Engineering Economics Course”, Conference Proceedings of the American Society of Engineering Education Annual Meeting, Atlanta, GA, June 2013.
48. Ng, Ean<sup>3</sup>, **Long, Suzanna**, Smith, Brian and Sun, Carlos, “A Framework for Improving Roadway Work Zone Safety Using Action Research,” Conference Proceedings of the IIE IERC Annual Meeting, San Juan, Puerto Rico, May 2013. *Invited Session.*
49. Shoberg, Thomas, **Long, Suzanna**, Corns, Steven, Ramachandran, Varun<sup>1</sup>, and Carlo, Hector, “Modeling Resiliency in Urban Supply Chain Networks in the Wake of Extreme Event Disasters,” American Association of Geographers Annual Meeting, Los Angeles, CA, April 2013.
50. **Long, Suzanna**<sup>2</sup>, Harper, Jennifer, and Stone, William, “LED Useful Life Replacement Strategies,” as part of the AASHTO National High-Value Research Award Showcase, Proceedings of the Transportation Research Board Annual Meeting, January 13-17, 2013, Washington, DC. *Invited Session.*
51. Ziemer, Norbert<sup>1</sup>, **Long, Suzanna**, Mackie, Brian, and Gory, Deborah (2012) “Strategic Matching and Linkage Development for Business,” Proceedings of the Annual Conference of the IIMA, Chicago, IL, October 2012.
52. Egbue, Ona<sup>1</sup> and **Long, Suzanna**, “A Bibliometric Analysis of Electric Vehicle Research,” Conference Proceedings of the American Society of Engineering Management International Annual Conference, Norfolk, VA, October 2012.
53. Gealy, Amanda<sup>1</sup> and **Long, Suzanna**<sup>2</sup>, “Project Management for Base Camp Design,” Conference Proceedings of the American Society of Engineering Management International Annual Conference, Norfolk, VA, October 2012.
54. Gosavi, Abhijit, **Long, Suzanna**, Grasman, Scott, and Schmidt, Sean<sup>1</sup>, (2012) “Impact of Using PEM Forklifts on Manufacturing Layouts,” Proceedings of the ASME/ISCE International Symposium on Flexible Automation, ISFA12, June 18-20, 2012, St. Louis, MO, USA.
55. Gealy, Amanda<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, and Soylemezoglu, Ahmet, “Developing Resiliency and Scalability Metrics as Part of Contingency Basing Supply Chain Design,” Conference Proceedings of the Industrial and Systems Engineering Research Conference, Orlando, FL, May 2012, *Invited Session.*
56. Chen, Hongyan<sup>1</sup>, Qin, Ruwen, and **Long, Suzanna**, “An Evaluation of Real Options Approach in Public-Private Partnerships,” Conference Proceedings of the Industrial and Systems Engineering Research Conference, Orlando, FL, May 2012, *Invited Session.*

57. Schmidt, Sean<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, and Grasman, Kellie, "Updating the Case Study for Complex Engineering Infrastructure Problems," Conference Proceedings of the Industrial and Systems Engineering Research Conference, Orlando, FL, May 2012.
58. Grasman, Kellie, Schmidt, Sean<sup>1</sup>, and **Long, Suzanna**, "Hybrid Delivery of Engineering Economy to Large Classes," Conference Proceedings of the American Society of Engineering Education, San Antonio, TX, June 2012.
59. **Long, Suzanna**<sup>2</sup> and Beauman, Fran, "Identifying Transportation Workforce Challenges In The Development Of A National Transportation Workforce Strategy," National Transportation Workforce Development Summit, April 24-26, 2012, Washington, DC.
60. Shoberg, Thomas, **Long, Suzanna**<sup>2</sup>, Corns, Steven, Carlo, Hector, and Ramachandran, Varun\*, "Integrating Geospatial Data from the National Map with Extreme Events Supply Chain Networks to Improve Resiliency Following Large-Scale Urban Disasters," American Association of Geographers Annual Meeting, New York, NY, February 2012.
61. Bales, Patrick<sup>1</sup> and **Long, Suzanna**<sup>2</sup>, "Identifying the Key Attributes of Mentoring In the Transportation Industry," Conference Proceedings of the American Society of Engineering Management Annual Meeting, Lubbock, TX, 2011.
62. Schmidt, Sean<sup>1</sup> and **Long, Suzanna**<sup>2</sup>, "A Decision Methodology for Retrofitting Existing Lighting Infrastructure with LED Technology," Conference Proceedings of the American Society of Engineering Management Annual Meeting, Lubbock, TX, 2011.
63. **Long, Suzanna**<sup>2</sup>, Carlo, Hector, Collins, Laura, Grasman, Scott, Gosavi, Abhijit, and Bedoya-Valencia, Leo, "Using Retrospective Assessment to Measure Levels of Student and Faculty Engagement..." Conference Proceedings of the American Society of Engineering Education, Vancouver, BC, 2011.
64. **Long, Suzanna**<sup>2</sup>, Grasman, Scott, Gosavi, Abhijit, Carlo, Hector, Bedoya-Valencia, Leo, and Collins, Laura, "Managing Change Resistance in Integrating Supply Chain Curriculum," Conference Proceedings of the Industrial Engineering Research Conference, Reno, NV, 2011. *Invited Session.*
65. Gopalakrishnan, Sandhya<sup>1</sup> and **Long, Suzanna**<sup>2</sup>, "Creating a Sustainable Transportation Workforce: Identifying Skills and Abilities for Emerging Technology," Conference Proceedings of the American Society of Engineering Management Annual Meeting, Rogers, AR, 2010. *Invited Session.*
66. Noll, Casey<sup>1</sup> and **Long, Suzanna**<sup>2</sup>, "Life Expectancy Evaluation and Replacement Schedule Development for LED Traffic Signals," Conference Proceedings of the American Society of Engineering Management Annual Meeting, Rogers, AR, 2010. *Invited Session.*
67. Lipscomb, Tyler<sup>1</sup>, **Long, Suzanna**<sup>2</sup>, and Schmidt, Sean<sup>1</sup>, "Strategic Decision Model: Characteristics for Sustainable Intermodal Logistic Hubs," Conference Proceedings of the American Society of Engineering Management Annual Meeting, Rogers, AR, 2010. *Invited Session.*
68. Lin, Yaqin<sup>1</sup>, Qin, Ruwen, Grasman, Scott, **Long, Suzanna**, and Thomas, Mathew<sup>1</sup>, "A Framework of Cost-Effectiveness for Sustainability Strategies,"

- Conference Proceedings of the American Society of Engineering Management Annual Meeting, Rogers, AR, 2010. *Invited Session*.
69. **Long, Suzanna<sup>2</sup>**, Grasman, Scott, Gosavi, Abhijit, Carlo, Hector, Bedoya-Valencia, Leo, Fraser, Jane, and Collins, Laura, "Using Integrated Teaming to Enhance Sustainability Supply Chain Curriculum," Conference Proceedings of the American Society of Engineering Management Annual Meeting, Rogers, AR, 2010. *Invited Session*.
  70. **Long, Suzanna<sup>2</sup>**, Grasman, Scott, Gosavi, Abhijit, Carlo, Hector, Bedoya-Valencia, Leo, Fraser, Jane, "Integrating Remanufacturing in Sustainable Supply Chain Management and Facility Logistics Curriculum," Conference Proceedings of the IIE IERC Annual Meeting, Cancun, Mexico, 2010. *Invited Session*.
  71. Ziemer, Norbert<sup>1</sup>, and **Long, Suzanna**, "A Virtual Incubator Framework for Bio-based Entrepreneurship," Conference Proceedings of the American Society of Engineering Management Annual Meeting, Rogers, AR, 2010.
  72. **Long, Suzanna<sup>2</sup>**, Grasman, Scott, Gosavi, Abhijit, Carlo, Hector, Bedoya-Valencia, Leo, Fraser, Jane, and Collins, Laura, "Building Communication Skills in Supply Chain Management and Facility Logistics Curriculum," Conference Proceedings of the American Society of Engineering Education Annual Meeting, Louisville, KY, 2010.
  73. **Long, Suzanna<sup>2</sup>**, Moos, Chris, and Bartel-Radic, Anne, "Simulating a Global Learning Experience: The Role of Multi-institutional Partnerships in Supply Chain-Logistics Course Design and Improvement," Conference Proceedings of the American Society of Engineering Management Annual Meeting, Springfield, MO 2009.
  74. **Long, Suzanna<sup>2</sup>**, Gentry, Lance, Lall, Khushboo, and Bham, Ghulam, "Strategic Innovation: Driver Perceptions and the Impact of Change Resistance on the Implementation of Variable Speed Limit Systems," Conference Proceedings of the American Society of Engineering Management Annual Meeting, Springfield, MO 2009. *Invited Session*.
  75. Rangarajan, Kiran<sup>1</sup> and **Long, Suzanna<sup>2</sup>**, "Strategic Planning and Rural Economic Development: An Evaluative Case Study Approach to the Use of Public Private Partnerships in High Risk Transportation Projects," Conference Proceedings of the American Society of Engineering Management Annual Meeting, Springfield, MO 2009. *Invited Session*.
  76. Gangichetty, Bharath<sup>1</sup> and **Long, Suzanna<sup>2</sup>**, "Strategic Process Integration: Creating a Unified Energy and Environmental Management Systems Model for Waste-Water Treatment Plants," Conference Proceedings of the American Society of Engineering Management Annual Meeting, Springfield, MO 2009. *Invited Session*.
  77. Akula, Susmitha<sup>1</sup> and **Long, Suzanna<sup>2</sup>**, "Strategic Assessment of Value-Added Engineering Graduate Certificate Programs in the Student-to-Industry Life Cycle," Conference Proceedings of the American Society of Engineering Management Annual Meeting, Springfield, MO 2009. *Invited Session*.
  78. Ziemer, Norbert<sup>1</sup> and **Long, Suzanna**, "Building Strategic Partnerships for Technology Entrepreneurship," Conference Proceedings of the American Society of Engineering Management Annual Meeting, Springfield, MO 2009.

79. Tirumalasetty, Venkata Manojraman<sup>1</sup>, Gosavi, Abhijit, and **Long, Suzanna**, “A Survey of Bridge Maintenance Strategies,” Conference Proceedings of the American Society of Engineering Management Annual Meeting, Springfield, MO 2009.
80. Murray, Susan, Cudney, Elizabeth, **Long, Suzanna** and Grantham-Lough, Katie, “What New Faculty Need to Know,” Conference Proceedings of the American Society of Engineering Education Annual Meeting, Austin, TX 2009
81. Rangarajan, Kiran<sup>1</sup>, Ziemer, Norbert<sup>1</sup>, and **Long, Suzanna**<sup>2</sup>, “Public Private Partnerships and Rural Economic Development,” **Invited Session**, Conference Proceedings of the IIE IERC Annual Meeting, Miami, FL 2009
82. Ziemer, Norbert<sup>1</sup> and **Long, Suzanna**, “Collaborative Networks as Innovation Accelerators,” Conference Proceedings of the IIE IERC Annual Meeting, Miami, FL 2009
83. Emery, Samuel<sup>1</sup>, Cudney, Elizabeth and **Long, Suzanna**, “An Evaluation of Lean Technique Effectiveness,” Conference Proceedings of the IIE IERC Annual Meeting, Miami, FL 2009
84. **Long, Suzanna**<sup>2</sup> and Philibert, Nanette, “Building effective virtual teams: A systems approach to analyzing and codifying virtual team competencies.” Paper submitted to the 9th International Conference on Human Resource Development across Europe, Lille, France, June 2008. (international)
85. Philibert, Nanette, Allen, Jeff, and **Long, Suzanna**, “Leadership competencies in team-based and traditional organizations: A comparative study.” Paper submitted to the 9th International Conference on Human Resource Development across Europe, Lille, France, June 2008. (international)
86. **Long, Suzanna**<sup>2</sup> and Cox, Leroy, “The Globalization of Curriculum and Program Design in Applied Science and Supply Chain Management Program,” Conference Proceedings of the American Society of Engineering Management Annual Meeting, Chattanooga, TN 2007.
87. **Long, Suzanna**<sup>2</sup>, Cox, Leroy, and Spurlock, David, “Socio-technical System Design: Managing Risk at the Man-Machine Interface,” Conference Proceedings of the American Society of Engineering Management Annual Meeting, Huntsville, AL 2006.
88. **Long, Suzanna**<sup>2</sup> and Spurlock, David, “Decision-Making, Employee Motivation and Technology-driven Change Management,” Conference Proceedings of the American Society of Engineering Management Annual Meeting, Virginia Beach, VA 2005.
89. **Long, Suzanna**<sup>2</sup> and Spurlock, David, “Re-engineering the Engineer: Career Change and the Pursuit of Post-Graduate Credentials,” Conference Proceedings of the American Society of Engineering Management Annual Meeting, Alexandria, VA 2004.
90. **Long, Suzanna**<sup>2</sup> and Spurlock, David, “Meeting the Needs of Employers and Students: Implications of Global Business Trends and Changing Student Characteristics for Engineering and Engineering Technology Programs,” Midwest Section Meeting of the American Society for Engineering Education, Pittsburg, KS, October 1, 2004

## INVITED PRESENTATIONS:

1. **Long, Suzanna**, “Transportation, Connectivity and Smart Communities,” Missouri State Professional Engineers Annual Meeting. Jefferson City, MO, March 25, 2015.
2. **Long, Suzanna** and Shoberg, Tom, “Supply Chain Interdependent Critical Infrastructure Systems: Assessment of Modeling Elements and Data Requirements For Pre- And Post- Disaster Restoration,” University of Texas Arlington, Industrial Engineering Invited Seminar Series, November 17, 2014.
3. Carlo, Hector, Alvares, Wilson<sup>1</sup>, **Long, Suzanna**, Shoberg, Tom, and Corns, Steve, “Road Network Restoration Optimization after Major Disruptions,” INFORMS Annual Meeting, San Francisco, CA, November 2014. *Invited Session*.
4. **Long, Suzanna**, “Using Systems Dynamics to Evaluate the Efficiency of Multimodal Transportation Systems,” Iowa State University, Department of Industrial Engineering Seminar Series, November 2013.
5. Shoberg, Tom, **Long, Suzanna**, Ramachandran, Varun, Corns, Steven, and Carlo, Hector, “Supply chain network resiliency model for an urban center in the aftermath of an extreme event,” CaGIS/ASPR Specialty Conference, San Antonio, TX, October 2013.
6. **Long, Suzanna**, “Systems Dynamics Modeling of Multimodal Transportation Systems,” University of Arkansas, Department of Industrial Engineering Graduate Seminar Series, September 2013.
7. Perez-Lespier, Lizzette<sup>1</sup> and **Long, Suzanna**, “Examining the Efficiency of Multimodal Transportation Systems: A Systems Dynamics Approach,” Conference Proceedings of the IIE IERC Annual Meeting, San Juan, Puerto Rico, May 2013. *Invited Session*.
8. **Long, Suzanna**, Ramachandran, Varun<sup>1</sup>, Shoberg, Thomas, Corns, Steven, and Carlo, Hector, “Resiliency of Urban Supply Chain Network Elements in the Wake of Extreme Event Disasters,” Conference Proceedings of the IIE IERC Annual Meeting, San Juan, Puerto Rico, May 2013. *Invited Session*.
9. Rangarajan, Kiran<sup>1</sup>, **Long, Suzanna**, and Grasman, Scott E., “Use of Socio-Technical Roadmapping in Transportation Infrastructure Planning,” INFORMS Annual Conference, Phoenix, AZ, October 17, 2012.
10. Ramachandran, Varun<sup>1</sup>, **Long, Suzanna** and Shoberg, Tom, “Integrating Geospatial Data from the *National Map* with Extreme Events Supply Chain Networks,” USGS CEGIS Annual Research Conference, Rolla, MO, June 26, 2012.
11. Egbue, Ona<sup>1</sup> and **Long, Suzanna**, “Sociotechnical Issues in the Adoption of Electric Vehicles,” University of Michigan EFRI Working Group, WebEx presentation, Rolla, MO-Ann Arbor, MI, April 12, 2012.
12. **Long, Suzanna**, “LED Life Cycle Replacement Analysis,” MoDOT Transportation Research Forum, Columbia, MO, March 20, 2012.
13. Schmidt, Sean<sup>1</sup> and **Long, Suzanna**, “LED Applications for Traffic Indicators and Roadway Lighting,” St. Louis Area Traffic Working Group, St. Louis, MO, February 22, 2012.

14. Schmidt, Sean<sup>1</sup> and **Long, Suzanna**, “Developing a Life Cycle Replacement Schedule for LED Traffic Indicators,” Brown Traffic User’s Group, Davenport, IA, December 13, 2011.
15. Egbue, Ona<sup>1</sup> and **Long, Suzanna**, “Sustainable Electric Vehicle Supply Chains,” Institute of Transportation Engineers, Student Chapter, Rolla, MO, December 5, 2011.
16. Schmidt, Sean<sup>1</sup> and **Long, Suzanna**, “LED Traffic Indicators Life Cycle Analysis,” Institute of Transportation Engineers, Student Chapter, Rolla, MO, November 7, 2011.
17. Egbue, Ona<sup>1</sup> and **Long, Suzanna**, “Electric Vehicles and Sustainability,” presented to the Global Sustainability Working Group, University of South Carolina, Teleconference, November 2, 2011.
18. **Long, Suzanna**, “LED Traffic Indicator Replacement Schedules,” University of Missouri Columbia Traffic and Safety Conference, Columbia, MO, May 11, 2011.

#### **PRESENTATIONS ONLY:**

1. Smith, Brian, **Long, Suzanna**<sup>2</sup>, Ng, Ean, and Sun, Carlos, “Using Historical Crash Data as Part of Traffic Work Zone Safety Planning and Project Management Strategies,” Conference Proceedings of the American Society of Engineering Management International Annual Conference, Bloomington, MN, October 2013.
2. Egbue, Ona<sup>1</sup> and **Long, Suzanna**, “Sociotechnical System Analysis of Factors Influencing Decisions to Adopt Electric Vehicles,” Conference Proceedings of the IIE IERC Annual Meeting, San Juan, Puerto Rico, May 2013. *Poster Session*.
3. Schmidt, Sean<sup>1</sup> and **Long, Suzanna**, “The Impact of Regulation on Utility Investment in Smart Grid Technology,” Conference Proceedings of the IIE IERC Annual Meeting, San Juan, Puerto Rico, May 2013.
4. **Long, Suzanna**, Moos, Chris, Bartel-Radic, Anne, “Creating a Global Learning Experience: The Role of Multi-institutional Partnerships in Course Design and Improvement,” Teaching and Learning Conference, Rolla, MO, April 2009.
5. **Long, Suzanna**, “Creating Real-World Systems Analysis Opportunities for Students through Industrial Partnerships,” Abstract Only, Proceedings of the American Society of Engineering Management, West Point, NY, November 2008.
6. Lipscomb, Tyler<sup>1</sup> and **Long, Suzanna**, “Capitalizing on the U.S.-Chinese Trade: Can Intermodal Partnerships Create Opportunities for Freight Carriers in Southwest Missouri?” part of the 2007 China Semester Themed Conference “The Dragon Awake: China and its Emergence as a Global Business Leader” hosted by MSSU, November 1-2, 2007.
7. **Long, Suzanna**, “Motivation and Assessment”, National Science Teacher Association Annual Meeting, Dallas, TX, March 31, 2005.
8. **Long, Suzanna**, “Applications of Systems Engineering to Archives Management”, Society of American Archivists Annual Meeting, Boston, MA, August 5-6, 2004.

9. **Long, Suzanna**, “No Teacher Left Behind: Attaching College Credit to Science Education Workshop, Training, and Virtual Classroom Opportunities”, National Science Teacher Association Annual Meeting, Atlanta, GA, April 2, 2004.
10. **Long, Suzanna**, “Whenever Called Upon: The Archives of the National Academy of Sciences and the Targeted Assistance Program of the National Archives and Records Administration”, Roundtable Program Chairperson, Society of American Archivists Annual Meeting, Washington, D.C., September 1, 2001.
11. **Long, Suzanna**, “When the Written Word is not Enough: Oral Histories of Science Professionals”, Session Chairperson, Society of American Archivists (SAA) Annual Meeting, Denver, Colorado, September 2, 2000.
12. **Long, Suzanna**, “Documenting Science and Healthcare Professionals through Oral History”, Roundtable Program Chairperson, SAA Annual Meeting, Pittsburgh, PA, August 28, 1999.
13. **Long, Suzanna**, “Pathfinding: Documenting Space Exploration”, Session Chairperson, SAA Annual Meeting, Orlando, FL, September 5, 1998.
14. **Long, Suzanna**, “Toxins, Poisons, Carcinogens: Problems with Contaminated Records”, SAA Annual Meeting, Chicago, IL, August 29, 1997.
15. **Long, Suzanna**, “Documenting Scientific and Technical Information: The Value of Laboratory Notebooks”, SAA Annual Meeting, San Diego, CA, August 29, 1996.
16. **Long, Suzanna**, “Exploring the Atomic Age”, Midwest Area Archives Fall Meeting, Lawrence, KS, October 20, 1995.
17. **Long, Suzanna**, “Irradiated Records: Identification and Handling Strategies,” Special Focus Session, SAA Annual Meeting, Washington, DC, September 1, 1995.

#### **BOOK CHAPTERS** (10 total):

1. Akhilesh Ojha<sup>1</sup>, Dr. Steven Corns, Dr. Tom Shoberg, Dr. Ruwen Qin, and Dr. Suzanna Long (2018) “Modeling and Simulation of Emergent Behavior in Transportation Infrastructure Restoration” in Emergent Behavior in Complex Systems Engineering: A Modeling and Simulation Approach. Wiley Press.
2. Schmidt, Sean M. and **Long, Suzanna** (2017) “A Practical Approach to Evaluating the Economic and Technical Feasibility of LED Luminaires” in Advances in Statistical Methodologies and Their Applications to Real Problems. Croatia, European Union. ISBN 978-953-51-4962-0.
3. **Long, Suzanna**, Westbrook, Jerry, and Fortune, Julie (2015). “Domain 2: Leadership and Organizational Management” in Hiral Shah (Editor), A Guide to the Engineering Management Body of Knowledge, 4th Edition. Huntsville, AL: ASEM.
4. **Long, Suzanna** (2015). “Domain 7: Marketing and Sales Management in Engineering Organizations”, in Hiral Shah (Editor), A Guide to the Engineering Management Body of Knowledge, 4th Edition. Huntsville, AL: ASEM.
5. **Long, Suzanna**, Westbrook, Jerry, and Fortune, Julie (2012). “Domain 2: Leadership and Organizational Management” in Hiral Shah (Editor), A Guide to



- the Engineering Management Body of Knowledge, 3<sup>rd</sup> Edition (pg. 11-71). Rolla, MO: ASEM.
6. **Long, Suzanna** (2012). “Domain 7: Marketing and Sales Management in Engineering Organizations”, in Hiral Shah (Editor), A Guide to the Engineering Management Body of Knowledge, 3rd Edition (pg. 169-194). Rolla, MO: ASEM.
  7. **Long, Suzanna** (1999). “Annie Malone”, in Lawrence Christensen, William E. Foley, Gary R. Kremer, and Kenneth Winn, ed., Dictionary of Missouri Biography (Columbia: University of Missouri Press, 1999).
  8. **Long, Suzanna** (1999). “James S. McDonnell, Jr.”, in Lawrence Christensen, William E. Foley, Gary R. Kremer, and Kenneth Winn, ed., Dictionary of Missouri Biography (Columbia: University of Missouri Press, 1999).
  9. **Long, Suzanna** (1999). “Madame CJ Walker”, in Lawrence Christensen, William E. Foley, Gary R. Kremer, and Kenneth Winn, ed., Dictionary of Missouri Biography (Columbia: University of Missouri Press, 1999).
  10. **Long, Suzanna** (1999). “Arsania M. Williams” in Lawrence Christensen, William E. Foley, Gary R. Kremer, and Kenneth Winn, ed., Dictionary of Missouri Biography (Columbia: University of Missouri Press, 1999).

**GRANTS FUNDED** (36 total):

1. “INSPIRE: Tier 1 University Transportation Center,” co-PI (15%) and Associate Director with PI and Director Genda Chen and others, USDOT, November 2016-November 2018, \$2,800,000. Awarded.
2. “Training Framework of Robotic Operation and Image Analysis for Decision-making in Bridge Inspection and Preservation,” co-PI (20%) with Ruwen Qin, PI, and co-PI Zhaozheng Yin, USDOT, January 1, 2018-December 31, 2018, \$80,000. Awarded.
3. “A Smart Assistance System for Increasing the Safety of Transportation Workers,” co-PI (30%) with Ruwen Qin, PI, Mid-America Transportation Center, University of Nebraska Lincoln, January 1-December 31, 2018, \$59,980. Awarded.
4. “Multi-criteria Hazmat Routing on Rail with Railroad-Highway Crossing Considerations,” co-PI (20%) with Dincer Konur, PI, and Ruwen Qin, co-PI, Mid-America Transportation Center, University of Nebraska Lincoln, January 1-December 31, 2018, \$27,278. Awarded.
5. “Work Zone Simulator Analysis: Driver Acceptance and Performance of Missouri Alternate Lane Shift Configurations,” PI (28%) with Co-PIs Ming Leu, Dincer Konur and Ruwen Qin, MoDOT, May 1, 2016-March 1, 2017, \$99,731, Awarded.
6. “Transportation Research Methods Training,” PI (50%) with Genda Chen, MoDOT, March 1, 2016-April 1, 2017, \$100,000, Awarded.

7. "GEARED: The MidAmerica Regional Microgrid Education and Training (MARMET) Consortium," PI (30%) with Co-PIs Mariesa Crow, Jonathon Kimball, Jhi-Young Joo, and Pourya Shamsi, USDOE, March 2016-September 2018; Co-PI (27%) with Mariesa Crow (PI) and Jonathon Kimball, USDOE, October 1, 2013-February 2016, \$4,300,000. Awarded.
8. "Work Zone Simulator Analysis: Driver Performance and Acceptance of Missouri Alternate Merge Sign Configurations," PI (30%) with Co-PIs Ming Leu, Dincer Konur and Ruwen Qin, MoDOT, October 1, 2014-June 15, 2016, \$156,839. Awarded.
9. "Integrating Geospatial Data into Multi-Hazards Supply Chain Network Restoration Strategies," PI (70% Year 1; 60% Year 2-Year 5) with Steven Corns, co-PI, USGS, February 2013-February 2018, \$420,000, Awarded.
10. "Characteristics of a Scalable Microgrid Power System," PI (100%), Ameren Power Systems Consortium, September 1, 2014-August 31, 2015. \$25,000. Awarded.
11. "Sustainable Supply Chains for Small Modular Reactors," Co-PI (30%) with Kwame Awuah-Offei (PI) and Shoaib Usman, SMR Consortium, December 16, 2013-December 15, 2014, \$80,596. Awarded.
12. "An Investor-Owned Utility Ownership Model of Distributed Generation," PI (75%) with Mariesa Crow, Ameren, September 1, 2013-December 2014, \$25,000. Awarded.
13. "Quantifying Economic Benefits for Rail Infrastructure Projects," PI (50%) with Ruwen Qin, John Myers, MoDOT/MATC, August 2013-December 2014, \$89,261, Awarded.
14. "Feasibility Analysis of Systems Dynamics for Inland Maritime Logistics," PI (100%), USDOT, August 2013-December 2013, \$56,203. Awarded.
15. "Track Inspection Planning and Risk Management Analysis," Co-PI (25%) with Dincer Konur (PI), Ruwen Qin, and A. Curt Elmore, MoDOT/MATC, August 2013-December 2014, Extension: February 28, 2015, \$88,982. Awarded.
16. "Alternative Sources of Energy to Power Transit Vehicles," USDOT Federal Transit Authority, Sept 2012-September 2015, Year Three: \$250,000 (Total Award: \$923,875), Co-P.I. (33% Share) with Angela Rolufs (PI) and Mehdi Ferdowsi, Awarded.
17. "Project 20: Veteran Satisfaction with Prosthetics Processes," Department of Veterans Affairs, September 2012-October 2013, \$65,790, Co-P.I. (25% Share), with Beth Cudney (PI) and Brian Smith, Awarded.

18. "Longitudinal Life Cycle Analysis and Replacement Schedule Development for LED Traffic Indicators," July 2012-December 2013. PI (30%) with Abhijit Gosavi, Ruwen Qin, CH Wu and Mariesa Crow (co-PIs), \$150,000. MoDOT/MATC, Awarded.
19. "Work Zone Safety: Physical and Behavioral Barriers in Accident Prevention," July 2012-December 2013. PI (70%). Collaborative Research with Dr. Carlos Sun, UM-Columbia Dr. Brian Smith, S&T (Co-PI). Total Budget: \$137,500; Missouri S&T Award Amount: \$112,500. MoDOT/MATC, Awarded.
20. "Region VII University Transportation Center, Missouri", consortium with University of Nebraska-Lincoln (Lead Institution), USDOT, January 2012-December 2012, Co-P.I (10% Share) with Genda Chen, Ronaldo Luna and Hai Xiao, Missouri Share: \$858,101. Awarded.
21. "Project 3: Knowledge Management: Knowledge Management System Support" Department of Veterans Affairs, September 2011-May 2012, \$59,813, Co-P.I. (30% Share), with Beth Cudney (PI) and Steve Corns, Awarded.
22. "Project 3: Knowledge Management: Improving Knowledge Sharing through Social Network Analysis" Department of Veterans Affairs, September 2011-May 2012, \$68,676, Co-P.I. (40% Share), with Beth Cudney, PI, and Steve Corns, Awarded.
23. "Missouri State Rail Plan," P.I. (100%), June 2011-May 2012, subaward from HNTB, \$35,000 as part of \$500,000 Total Award, MoDOT, Awarded.
24. "Virtual Forward Operating Base Camp Development," Co-P.I. (10% Year 1; 15% Year 2), with Steve Corns (PI), Mariesa Crow, Curt Elmore, Beth Cudney, February 2011-January 2014, \$800,000, DOD USACE, Awarded.
25. "LED Roadway Luminaires," P.I. (50%), with Ruwen Qin and Curt Elmore (co-PIs), November 2010-October 2011, \$112,500, MoDOT/NUTC, Awarded.
26. "Transportation Education Pilot Program," P.I. (100%), FHWA, July 2010-April 2013, \$900,000. Awarded
27. "Alternative Energy Strategies," Co-P.I (30%). with Scott Grasman (P.I.) and Ruwen Qin (co-P.I.), MoDOT, November 2009-October 2010, \$150,000.
28. "Evaluation and Creation of a Replacement Schedule for LED Traffic Signals," P.I. (30%) with Abhijit Gosavi, Ruwen Qin, and C.H. Wu (Co-P.I.'s), MoDOT/MATC, November 2009-September 2011, \$112,500, Awarded.

29. "Advanced Electric Vehicles: A Comprehensive Education, Training, and Outreach Program," Co-P.I. (9%) with Mehdi Ferdowsi (P.I.), et. al., DOE, September 2009-December 2012, \$5,000,000, Awarded.
30. "Strategic Partner Decision Model: Organizational Requirements to Develop a Successful Super Logistics Terminal in Missouri," P.I. (100%) UM Research Board, September 2009-August 2010, \$28,000, Awarded.
31. "Collaborative Research: Sustainability in Supply Chain Management and Facility Logistics Curriculum," P.I. (40%), with Scott Grasman and Abhijit Gosavi, NSF, August 2009-July 2011, \$149,838, Awarded.
32. "Transportation Education Pilot Program," Co-P.I. (40%), with Angela Rolufs (P.I.) FHWA, August 2009-July 2010, \$300,000. Awarded
33. "I-270 Variable Speed Limit Study," Co-P.I. (30%) with Ghulum Bahm (P.I.), Hojong Baik (CO-P.I.), and HDR, MoDOT/MATC, September 2008-October 2010, \$225,000. Awarded
34. "Energy and Environmental Waste Water Management Systems," P.I. (100%). Missouri S&T Energy Research and Development Center, November 2008-December 2009. \$11,775. Awarded.
35. "The Development of a Transportation-Logistics Program at Missouri Southern State University," P.I. (100%) Joplin Area Trucking Consortium, Spring 2007, \$200,000, Awarded
36. "Land Bridging to China: The Value of Intermodal Partnerships in Creating Opportunities for Freight Carriers in Southwest Missouri," Student-led research funded through the MSSU Federal BIE Grant, Summer 2007-Summer 2008, \$7,000, Awarded.

**CLASSES TAUGHT:**

Course Number	Course Title	Semesters Taught	Evaluation (by Semester)
EM 134 (2110)	Managing Engineers & Tech	F14; F16; F17	3.18; 3.27; 3
EM 351	Industrial Marketing Systems	F08, F09	3.6; 3.6
EM 366 (5614)	Business Logistics Systems	S09, S10*, S11*, S13, S14; S15; S16, S17	3.5; 3.6; 3.8; 3.54, 3.6, 3.31, 3.43, 3
EM 451	Advanced Marketing Management	S09, S10, F10 (FLW), F12	3.6; 3.6; 3.75; 4.0
EM 345	Sustainability and Energy Mgt Systems	F10**	3.3
EM 314	Management for Engineers	F11 (campus, distance); S12, F12, S13, S14	3.4/ 4.0 (F11); 3.78/3.64 (S12); 3.64/3.65 (F12); 3.82/3.5 (S13);

			4.0/3.4 (S14)
EM 251 (3510)	Introduction to Marketing Systems	F11, S12, F12, S13, F14, S15, F15, S17	2.93, 3.25, 3.1; 3.23; 3.77; 3.16; 3.61
EM 490	Graduate Research	S09-present	N/A

\*curriculum redesign elements developed/implemented per NSF EEC-0934998 (Long, et. al)

\*\*new course developed by Long in support of NSF EEC-0934998 (Long, et. al)

### **HONORS AND AWARDS:**

2016, Woman of the Year, Campus Award  
2015, ASEM Fellow, International Honor  
2015, ASEM Franklin Woodbury Award, International Honor  
2015, ASEM World Headquarters Service Commendation Award, International Honor  
2014, ASEM Meritorious Service Award, International Honor  
2014, Bernard Sarchet Award, EMSE Departmental Award  
2013, University of Missouri President's Award for Early Career Excellence, UM System Honor  
2013, MoDOT Innovation Award, Finalist, State Honor  
2012, Edward Smith Faculty Award, Missouri S&T, EMSE Departmental Award  
2012, AASHTO Midwest Region High Value Research Project Award Winner, National Honor  
2012, INCOSE Best Student Poster Competition, Advisor of Student Awardee, International Honor  
2012, IIE Innovations in Curriculum Award, Finalist, International Honor  
2011-2012 Faculty Excellence Award, Missouri S&T, Campus Award  
2011-2012 Outstanding Distance Education Award, Missouri S&T, Campus Award  
2010, Outstanding Paper Award, Engineering Management Division, ASEE Annual Conference  
2009, Outstanding Professor Award, Missouri S&T, EMSE Departmental Award  
2006, Outstanding Faculty Research Award, MSSU School of Business Administration

### **PROFESSIONAL MEMBERSHIPS:**

Institute of Industrial Engineers (IIE), member  
Institute of Electrical and Electronics Engineers (IEEE), member  
American Society of Engineering Education (ASEE), member  
American Society of Engineering Managers (ASEM), member  
Epsilon Mu Eta, Engineering Management Honor Society, member  
Institute of Transportation Engineers (ITE), member  
Council of Supply Chain Management Professionals (CSCMP), member

### **MISSOURI S&T RESEARCH CENTER AFFILIATIONS**

Intelligent Systems Center, Associate Investigator, 2013-2015; Investigator, 2015-  
CIES, Associate Investigator, 2009-present  
ERDC/CREE, Investigator, 2009-present

## **PROFESSIONAL SERVICE:**

### **INTERNATIONAL SERVICE:**

American Society of Engineering Management (ASEM), Board of Directors, South Central Regional Director, 2011-2014, Secretary, 2016, President-elect, 2017, President, 2018, Past-President, 2019.  
ASEM International Academic Conference, Program Chair, 2013-2016.  
ASEM Annual Conference, Invited Session Chair, 2008-2013.  
Epsilon Mu Eta, Ad Hoc Board Member, 2008-2012; Secretary, 2012-2015, President, 2015-2017.  
Institute of Industrial and Systems Engineers, Technical Vice President, 2018-2020.  
Institute of Industrial and Systems Engineers, Society of Engineering Management, Past-President, 2016; President, 2014; President-Elect, 2014; Board Member, 2010-2014  
Institute of Industrial and Systems Engineers, ISERC Annual Conference, Invited Session Chair, 2009-2013.  
Institute of Industrial and Systems Engineers, Society of Engineering Management, International Committee, Chair, 2012-2013; Member, 2013-2015.  
Institute of Transportation Engineers 2010 International Conference, Technical Program Committee, member, 2010.

### **NATIONAL SERVICE:**

Engineering Management Journal, Special Issue Editor, 2011-2012; 2014-2016  
Decision Sciences Journal for Innovative Teaching, Reviewer, 2010-present  
Energy Policy Journal, Reviewer, 2013-present  
Engineering Management Journal, Associate Editor, August 2013-present  
Engineering Management Journal, Reviewer, 2009-present

### **UNIVERSITY SERVICE:**

University of Missouri System:  
UM Presidents Award Committee, 2014-2016  
Innovative Teaching, Intercampus Collaboration, Student Entrepreneur of the Year, Committee Member, 2014; Committee Chair, 2015  
Faculty Engagement, Thomas Jefferson and Economic Development, Committee Member, 2015; Committee Chair, 2016  
Missouri S&T Campus:  
Associate Provost Search Committee, 2018  
Task Force on Selection of Vice Provost & Dean Policy, 2015  
Budgetary Affairs Committee, 2014-2016  
Graduate Faculty Council, Secretary, 2014-2015

Student Scholastic Appeals Committee, 2014-2016  
Vice Provost and Dean College of Engineering Search Committee, 2014  
Hurst/McCarthy Endowed Professorship Search Committee, 2012-2014  
Chancellor's Research Capacity Taskforce, 2011-2012  
Honorary Degrees Committee, 2011-present  
Global Studies Minor Committee, 2009-2011; 2012-2014; 2015-present  
Green Campus Committee, 2008-2014

Missouri S&T Department:

Executive Committee, Chair, 2015-  
Emergency Management Committee, Chair, 2015-  
Graduate Committee, Chair, 2013-2015  
Financial Administrative Assistant Search Committee, 2012  
Department Chair Search Committee, 2011-2012  
Faculty Search Committee, 2011-2012  
Bernie Sarchet Endowed Professorship Search Committee, 2011-2012  
Strategic Planning Committee, member, 2010-2015, Chair, 2015-  
Public Relations Committee, 2010-2012, member  
Undergraduate Curriculum Committee, 2009-2013, MOT Subcommittee  
Chair, 2009-2013  
ASEM Conference Host Planning Committee, 2008-2009  
Engineering Management Honor Society, 2008-present, Co-director

**STUDENTS SUPERVISED (AS MAJOR ADVISOR)**

Post-doctoral fellow: Dr. Ean H. Ng (2012-2013); Dr. Ona Egbue (2013); Dr. Varun Ramachandran (2015)

PhD: Kiran Rangarajan (May 2012); Ona Egbue (December 2012); Norbert Ziemer II (December 2012); Varun Ramachandran (May 2015); Lizzette Perez-Lespier (Spring 2017); Samareh Moradapour (expected Summer 2018); Akhilesh Ojha (expected Summer 2018); Rakan Alyamani (expected Summer 2019); Jon Haven (expected Fall 2018)

MS: Kiran Rangarajan (2009); Bharath Gangichetty (2009); Susmitha Akula (2009); Sandhya Gopalakrishnan (2010); Tyler Lipscomb (2010); Sean Schmidt (May 2012); Patrick Bales (May 2012); Dan Farley (May 2012); Amanda Gealy (December 2012); Varun Ramachandran (December 2012); Lizzette Perez-Lespier (July 2013); Venkat Sravan Kothapalli (July 2014); Akhilesh Ojha (December 2014); Pranav Godse (Spring 2017); Jacob Hale (Spring 2019)