Edward A. Pohl, Ph.D.
Lt Col (Retired), USAF

OFFICE:
Department of Industrial Engineering
University of Arkansas
Fayetteville, AR 72701
EMAIL epohl@uark.edu

HOME:
2147 Meandering Way
Fayetteville, AR 72701
Cell: (479) 871- 1304

PRIOR SECURITY CLEARANCE: Top Secret/SBI, 9/2/97, U.S. Citizen

EDUCATION

Academic: Ph.D., Systems and Industrial Engineering, University of Arizona, 1995.
MS, Reliability Engineering, University of Arizona, 1993.
MS, Systems Engineering, Air Force Institute of Technology, 1988.
MS, Engineering Management, University of Dayton, 1988.
BS, Electrical Engineering, Boston University, 1984.

Military: Air Command and Staff College, 1998.
Academic Instructors School, 1995.
Squadron Officers School, 1990.

PROFESSIONAL EXPERIENCE

April 2014 – Present: *Head, Department of Industrial Engineering, 21st Century Professorship in Engineering*, University of Arkansas, Fayetteville, Arkansas. Lead and manage a department of 16 tenure/tenure track faculty, 4 clinical/research faculty, 60+ adjunct faculty, and 20 staff. Department serves approximately 200 undergraduate IE students, 15 MSIE students, 25 Ph.D. students, 80+ Engineering Management students and 500+ Operations Management MS students. Department research expenditures exceed $1.5 million and the department is home to three active research centers (CELDi, J.B. Hunt Innovation Center, MarTrec). Led department through successful ABET review in fall of 2014 and hired two faculty in the spring of 2015: one senior endowed professor and one junior faculty member. Hired two endowed chairs in spring of 2016 and one junior faculty position in the spring of 2017. Hired two senior faculty, one in an endowed position in 2019. Successfully led department through strategic planning process in 2017, successfully completed 5 –year review and reappointed for 5 years. Successfully led the department through ABET visit again in Fall 2020. Led department graduate programs through Program Review in Fall 2021. All programs received strong praise as part of the review. Next review scheduled in 8 years. Hired an instructor and tenure track faculty member in spring 2022. Currently searching for tenure track Assistant Professor and two teaching non-tenure track teaching faculty members to support OMGT/EM programs.

October 2013 – December 2017: *Director*, *Center for Innovation in Healthcare Logistics, (CIHL);* August 2010 – September 2013: *Deputy Director*, *Center for Innovation in Healthcare Logistics, (CIHL)*, Department of Industrial Engineering, University of Arkansas, Fayetteville, Arkansas. Assisted in the development of strategy and research direction for this nationally recognized center on healthcare logistics. Assisted in the development and analysis of three national surveys on the state of healthcare logistics and data standards for the healthcare supply chain. Led a study on comparing the retail and healthcare supply chains. Work has been cited in several national press releases by the Association for Healthcare Resource & Materials Management (AHRMM) of the American Hospital Association.

August 2010- present*: Director, MSE Distance Education*, College of Engineering, University of Arkansas, Fayetteville, Arkansas. Manage the Master of Science in Engineering Distance education program for the college. The Master of Science in Engineering is a general, interdisciplinary, engineering master's program delivered through distance education. Work with the faculty to add depth and breadth in our technical course offerings. As the breadth and depth of course offerings increase, the program has grown from 36 course enrollments in FY 2010 to 340 course enrollments in FY2013 to over 600 in 2017 and close to 700+ in 2020.

August 2007 – August 2014: *Director, Operations Management Program*, Department of Industrial Engineering, University of Arkansas, Fayetteville, Arkansas. Directed the MS in Operations Management program, it was the largest UA graduate program, 600+ students, $2.9M in annual revenue, located at 6 sites. Managed a staff of 12, responsible for managing 60+ adjunct faculty members. Taught graduate courses in the areas of quality management, supply chain management, cost estimation, global competition, maintenance management and project management. Despite increases in admission and graduation requirements, course enrollments increased from 2071 in FY2006 to 3369 in FY 2013. The OMGT program continued to grow with 15 staff more than 30 courses over 3375 enrollments and more than 800 unique students taking courses in 2015.

PROFESSIONAL EXPERIENCE (cont.)

August 2013 – Present: *Professor of Industrial Engineering,* January 2004 – July 2013: *Associate Professor of Industrial Engineering,* Department of Industrial Engineering, University of Arkansas, Fayetteville, Arkansas. Taught undergraduate courses in the areas of statistics, systems engineering, project management, quality, risk analysis and global engineering and innovation. Taught graduate courses in optimization, quality, reliability, and risk analysis. Currently serve as a PI or Co-PI on 4 research efforts totaling more than $500,000. Currently advising 1 Ph.D. student, and 1 Undergraduate student. I advised or co-advised to completion 10 Ph.D. dissertations, 20 M.S. theses and 16 Undergraduate Honors Theses. Currently serve on 2 Ph.D. committees in the department, 1 Ph.D. committees outside the department, as well as several M.S. committees. I served on 52 Ph.D. dissertation committees, 71 M.S. thesis committees and 5 Undergraduate Honors Thesis committees.

June 2003 - January 2004: *Associate Professor of Systems Engineering & Deputy Director of the Operations Research Center (ORCEN),* Department of Systems Engineering, United States Military Academy, West Point, NY. Served as the Deputy Director for the Operations Research Center, secured, coordinated, directed and performed research on a variety of Army & DoD sponsored research projects. Center funding exceeded $1 Million per academic year. Mentored 3 junior faculty members working full time in the center on sponsored research projects. Deployed to Afghanistan in support of Operation Enduring Freedom. Assisted in the development of an operational assessment tool for the 1-star commander of the Combined Joint Task Force (CJTF-180).

July 2001 - May 2003: *Assistant Professor of Systems Engineering*, Department of Systems Engineering, United States Military Academy, West Point, New York. Served as Course Director for SE382 Decision Support Systems and SE 384 Stochastic Processes. Taught SE 350 the introductory systems engineering course. Supervised student research for teams of systems engineering majors in a yearlong capstone design course. Mentored junior faculty research efforts. Consulted for the Army, Air Force, and other DoD agencies in the areas of systems engineering, reliability, and optimization.

August 1998 - June 2001: *Operations Research Analyst*, Office of The Secretary of Defense, Program Analysis and Evaluation, Operations Analysis and Procurement Planning Directorate, The Pentagon, Washington DC. Led teams of senior scientists, engineers, and economists in evaluating multi-billion-dollar defense acquisition programs and developed congressionally mandated independent cost estimates. Assessed the risk and validity of technical, schedule, and programmatic assumptions underlying program cost estimates. Led analysis on the National Missile Defense system, Advanced EHF Satellite system, and the Advanced Narrow Band Satellite system. Performed logistics studies on aviation readiness that led to a $500 Million dollar increase in spare parts funding across services.

June 1995 - July 1998: *Assistant Professor of Aerospace and Systems Engineering*, Department of Aeronautics & Astronautics, Air Force Institute of Technology, Wright-Patterson AFB, OH. Taught four courses a year in the areas of systems engineering, reliability, decision analysis and operations research. Developed graduate courses in probabilistic design, reliability, and optimization. Supervised masters and doctoral level research and consulted for Air Force and DoD agencies.

September 1994 - May 1995: *Instructor of Aerospace and Systems Engineering*, Department of Aeronautics & Astronautics, Air Force Institute of Technology, Wright-Patterson AFB, OH. Taught several courses in the areas of systems engineering, reliability and operations research.

August 1991 - August 1994: *Ph.D. Student,* Department of Systems and Industrial Engineering, University of Arizona. Major: Stochastic Processes, Minor: Mechanical Engineering- Probabilistic Design. Dissertation Title: A Stochastic Modeling Framework for Environmental Stress Screening of Multi-Component Systems. Advisor: Dr. Duane Dietrich, GPA: 3.94/4.0

March 1989 - July 1991: *Munitions Logistics Analysis Manager*, Directorate of Logistics, Headquarters Air Force Operational Test and Evaluation, Kirtland AFB, NM. Planned, evaluated and reported on logistics aspects of major munitions systems such as the AGM-130, Short Range Attack Missile, and Advanced Cruise Missile during Operational Test and Evaluation. Assessed the impacts of logistics factors such as reliability, availability, and maintainability on the evolving weapon system's ability to meet requirements.

January 1989 - Mar 1989: *Professional Specialized Education Student; Reliability and Maintainability,* Air Force Institute of Technology, Wright-Patterson AFB, OH. Selected to participate in program as part of the Air Force R&M 2000 Program. Conducted an independent research effort on software reliability. GPA: 4.0/4.0

PROFESSIONAL EXPERIENCE (cont.)

June 1987 - December 1988: *MS Student, Systems Engineering*, Air Force Institute of Technology, Wright-Patterson AFB, OH. Academic specialties included Stochastic Estimation and Control, Operations Research, Decision Analysis, and Reliability. Thesis Title: Design and Analysis of an Individual Lift Vehicle. Advisor: Dr. David Robinson. GPA: 3.66/4.0

September 1984 - May 1987: *Training Systems Engineer*, B-2 Systems Program Office, Aeronautical Systems Division, Air Force Systems Command, Wright-Patterson AFB, OH. Functional Lead Engineer for the B-2 Training System. Directed the development and integration of hardware and software into an integrated training system that provides training for aircrew and maintenance personnel. Directed the application of software development standards across the entire B-2 program.

PUBLICATIONS & PRESENTATIONS (* indicates co-author is a graduate student)
Refereed Journals (Submitted or In revision)

1. Wong*, A., Sullivan, K., Pohl, E., "50 Years of reliability Growth Modeling: A Survey of the Literature," Submitted to the *IEEE Transactions on Reliability Engineering*. Undergoing revision.

2. Enayaty-Ahangar*, F., Rainwater,C., Pohl, E., "Risk Assessment of Salmonella Contamination in Asian Poultry Production and Delivery," Under revision.

4. Ruiz*, C., Pohl, E., Liao, H., "A New Methodology for Analyzing Multivariate Degradation Data Involving Random Effects and Process Dependency," Submitted to *Annals of Operations Research.*

5. Sartini*, J., Jensen*, J., Parnell, G., Pohl, E., Buchanan, R., "Systems Engineering Study on Integrated Sensor Suites," Submitted to *Journal of Military Operations Research*.

Refereed Journals (83 Accepted or in-print)

1. Shallcross*, N., Parnell, G., Pohl, E., Specking, E., "Informing Program Management Decisions Using Quantitative Set-Based Design," Accepted in the IEEE Transactions on Engineering Management, DOI: 10.1109/TEM.2021.3078387.

2. Gallarno*, G., Muniz*, J., Parnell, G., Pohl, E., Wu, J., "Development and Assessment of a Resilient Telecoms System," Accepted by the Journal of Defense Modeling and Simulation, https://doi.org/10.1177/1548512922114379, 2023.

3. Beam, C., Specking, E., Parnell, G., Pohl, E., Goerger, N., Buchanan, J., and Gallarno, G., "Best Practices for Stakeholder Engagement for Government R&D Organizations," Journal of Engineering Management, Vol. 35 Issue 1, pp. 50-69, DOI: 10.1080/10429247.2022.2030180, 2023.

4. Barker*, T, Parnell, G. S., Pohl, E., Specking, E., Goerger, S. R., and Buchanan, R. K. "Impact of Reliability in Conceptual Design—An Illustrative Trade-Off Analysis", *Systems*, Vol 10 pp. 227-247, 2022.

5. Jensen*, J., Mathews, G., Parnell, G., Pohl, E., Richards, J., Buchanan, R., "Preference Mapping and Routing of Illicit Cross-Border Activity," *Journal of Military Operations Research*, Vol. 27, No. 3, pp. 23-33, 2022.

6. Specking*, E., Parnell, G., Pohl, E., Buchanan, R., "Engineering Resilient Systems: Achieving Stakeholder Value Through Design Principles and Systems Operations," *IEEE Transactions on Engineering Management,* Vol. 69, No. 6, pp. 3982 – 3993, December 2022.

7. Shallcross*, N., Parnell, G., Pohl, E., Goerger, S. "Using Value of Information in Quantitative Set-based Design," Journal of Systems Engineering, Vol 24, Issue 6, pp. 439-455, 2021.

8. Shallcross*, N., Parnell, G., Pohl, E., Goerger, S. "A Value of Information Methodology for Multi-Objective Decisions in Quantitative Set-Based Design," Journal of Systems Engineering, Vol 24, Issue 6, pp. 409-424, 2021.

Refereed Journals (cont)

9. Ruiz*, C., Liao, H., Pohl, E., "Analysis of Correlated Multivariate Degradation Data in Accelerated Reliability Growth," Special Issue: Advancing Statistical Methods for testing and Evaluating Defense Systems, *Quality and Reliability Engineering International*, Vol. 37 Issue 7, pp 3125-3144, https://doi.org/10.1002/qre.2794, 2021.

10. Ruiz, C.*, Pohl, E., Liao, H., "Bayesian Degradation Modeling for Spare Parts Inventory Management," IMA Journal of Management Mathematics, Vol. 32, No.1, pp. 31-49, 2021.

11. Specking*, E., Parnell, G., Pohl, E., Shallcross, N., "Quantitative Set-Based Design to Inform Teams," *Applied Science: Special Issue on Model Based Systems Engineering,* Vol, 11, No. 3, 2021.

12. Ghaharikermani*, A., Parsa*, P., Pohl, E., "Designing a Network of Battery Swap Stations for Supporting UAVs in Long Range Delivery Operations," *International Journal of Supply Chain Management*, Vol. 9, No. 5, pp. 1210- 1227, 2020.

13. Zhang, X., Ni, W., Liao, H., Pohl, E., Xu, P., and Zhang, W., "Improved Condition Monitoring for an FPSO System with Multiple Correlated Components", Measurement, Vol. 166, 2020. doi:10.1016/j.measurement.2020.108223.

14. Shallcross*, N., Parnell, G., Pohl, E., Specking, E., "Set-Based Design: The State-of-Practice and Research Opportunities," *Journal of Systems Engineering*, Vol. 23, Issue 5, pp 557 -578, 2020.

15. Ruiz, C.*, Pohl, E., Liao, H., "Selective Maintenance Modeling and Analysis of a Complex System with Dependent Failure Modes," *Quality Engineering*, Vol. 32, No. 2, pp 509-520, 2020.

16. Parsa*, P., Shbool, M., Sattar, T., Rossetti, M., Pohl, E., "A Collaborative Planning Forecasting and Replenishment (CPFR) Maturity Model," Accepted for publication in *International Journal of Supply Chain Management*, Vol. 9, No. 6, 2020.

17. Ma, Z., Ruiz, C., Wang, S., Zhang, C., Liao H., and Pohl, E. A., "Reliability Estimation from Two Types of Accelerated Testing Data Considering Measurement Error", *Reliability Engineering and System Safety*, Vol. 193 106610 2020.

18. Small*, C., Parnell, G., Pohl, E., Goerger, S., Cilli, M., Specking*, E., "Demonstrating Set based Design Techniques: A UAV Case Study," *Journal of Defense Modeling and Simulation*, Vol. 17, Issue 4. pp. 339-355, 2020.

19. Ruiz*, C., Heydari*, M., Sullivan, K., Liao, H., Pohl, E., "Data Analysis and Resource Allocation in Bayesian Selective Accelerated Reliability Growth," IISE Transactions on Quality and Reliability, Vol. 52, No.3, pp 301-320, 2020.

20. Wade*,Z., Parnell, G., Goerger, S., Pohl, E., Specking*, E., "Convergent Set-Based Design for Complex Resilient Systems," *Environment, Systems, and Decisions*, Vol. 39, pp. 118-127, 2019.

21. De Icaza*, R., Parnell, G., Pohl, E., "Gulf Coast Port Selection Using Multiple Objective Decision Analysis," *Journal of Decision Analysis*, Vol. 16, pp. 87-104, 2019.

22. Specking*, E., Cilli, M., Parnell, G., Pohl, E., Small*, C., Cottom*, B., and Wade*, Z., "Assessing Resilience via Multiple Measures," *Journal of Risk Analysis*, Vol. 39, No. 9, pp. 1899-1911, 2019.

23. Cottam*, B., Specking*, E., Small*, C., Pohl, E., Parnell, G., Buchanan, R., "Defining Resilience for Engineered Systems," *Engineering Management Research*, Vol. 8, No. 2, pp. 11-29, 2019.

24. Wade*, Z., Goerger, S., Parnell, G., Pohl, E., Specking*, E., "Incorporating Resilience in an Integrated Analysis of Alternatives," *Journal of Military Operations Research*, Vol. 24, No. 2, pp 5-16, 2019.

25. Ruiz*, C., Pohl, E., Liao, H., Sullivan, K., "A Bayesian Framework for Accelerated Reliability Growth Testing with Multiple Uncertainties," *Journal of Quality and Reliability Engineering International* Volume 35, Issue 3, pp 837-853, 2019.

Refereed Journals (cont)

26. Liu, X., Yang, T., Pei, J., Liao, H., Pohl, E., "Replacement and Inventory Control for a Multi-Customer Product Service System with Decreasing Replacement Costs," European *Journal of Operational Research*, Vol. 273, Issue 2, pp 561-574, March 2019.

27. Hill, R. and Pohl, E. "A Structural Taxonomy for Metaheuristic Optimization Search Methods" *International Journal of Metaheuristics*, Vol. 7, No.2, pp. 127-151, 2019.

28. Specking*, E., Parnell, G., Pohl, E., Buchanan, R. "Early Design Space Exploration with Model-Based Systems Engineering and Set Based Design," *Systems*, Vol. 6, No. 4, pp 45-64, December 2018.

29. Talafuse*, T., Pohl, E., "Small Sample Discrete Reliability Growth Modeling Using a Grey System Model," *Grey Systems: Theory and Application*, Vol. 8, Issue 3, pp. 246-271, 2018.

30. Specking*, E., Whitcomb, C., Parnell, G., Goerger, S., Pohl, E., Kundeti*, N., "Literature Review:" Exploring the Role of Set-Based Design in Trade-off Analytics," *Naval Engineers Journal*, Volume 130, Issue 2, pp. 85-96, 2018.

31. Madadi*,M., Heydari*,M., Zhang,S., Pohl, E., Rainwater,C., Williams, D.., "Analyzing Overdiagnosis Risk in Cancer Screening: A Case of Screening Mammography for Breast Cancer," *IISE Transactions on Healthcare Systems Engineering,* Vol. 8, Issue 1, pp. 2-20, 2018.

32. Parsa*, P., Rossetti, M., Zhang, S., Pohl, E., "Quantifying the Benefits of a Continuous Replenishment Program for Partner Selection," *International Journal of Production Economics*, Vol 187, 2017.

33. Talafuse*, T., Pohl, E., "Small Sample Reliability Growth Modeling Using a Grey Systems Model," *Quality Engineering*, Vol. 29, Issue 3, 455-467, 2017.

34. Nachtmann, H., Gonzalez*, M., Pohl, E., "Time Driven Activity-Based Costing for Healthcare Provider Supply Chains," *The Engineering Economist*, Vol. 62, No. 2, 161-179, 2017.

35. Alaswad*, S., Cassady, C., Pohl, E., Li*, X., "A Model of System Limiting Availability Under Imperfect Maintenance," *Journal of Quality in Maintenance Engineering*, Vol.23, Issue 4, pp. 415-436, 2017.

36. Gedik*, R., Rainwater, C., Nachtmann, H., Pohl, E., "Analysis of a Parallel Machine Scheduling Problem with Sequence Dependent Setup Times and Time Windows," *European Journal of Operational Research*, Vol. 251, Issue 2, 640-650, 2016.

37. Talafuse*, T. and Pohl, E., "A Bat Algorithm (BA) for the Redundancy Allocation Problem (RAP), *Engineering Optimization,* Volume 48, Issue 5, 900-910, 2016.

38. Medal*, H., Pohl, E., Rossetti, M., "Allocating Protection Resources to facilities when the Effect of Protection is Uncertain," *IIE Transactions,* Volume 48, Issue 3, 220-234 2016.

39. Hilliard*, H., Parnell, G., and Pohl, E., "Evaluating the Effectiveness of the Global Nuclear Detection Architecture Using Multiobjective Decision Analysis," *Journal of Systems Engineering*, Vol. 18, No.5, 441- 452, 2015.

40. Tong*, J., Nachtmann, H., and Pohl, E., "Value-Focused Assessment of Cargo Value Decreasing Rates," *Engineering Management Journal*, Vol 27, Issue 2, 73-85, 2015.

41. Gedik*, R., Medal*, H., Rainwater, C., Pohl, E., Mason, S., "Vulnerability Assessment and Re-Routing of Freight Trains Under Disruptions: A Coal Case Study," Transportation *Research Part E: Logistics and Transportation Review*, Vol. 71, 45-57, November 2014.

Refereed Journals (cont)

42. Medal*, H., Pohl, E., and Rossetti, M., "A Multi-objective Integrated Facility Location and Hardening Model: Analyzing the Pre- and Post-Disruption Tradeoff," *European Journal of Operational Research,* Vol. 237 Issue 1, 257-270, August 2014.

43. Medal*, H., Rainwater, C., Pohl, E, and Rossetti, M., "A Bi-Objective Analysis of the R-All-Neighbor P-Center Problem," *Computers & Industrial Engineering*, Vol. 72, 114-128, June 2014.

44. Nguyen, H., Rainwater, C., Mason, S., Pohl, E., "Quantity Discount with Freight Consolidation," *Transportation Research Part E*, Vol. 66, June 2014.

45. Nachtmann, H., Mitchell, K., Rainwater, C., Gedik*, R., Pohl, E., "Optimal Dredge Fleet Scheduling within Environmental Work Windows," *Transportation Research Record, Journal of the Transportation Research Board*, No. 2426, Marine Environment, Marine Safety, and Human Factors, 11-19, 2014.

46. Ramirez-Marquez, J., Hernandez, I., Rainwater, C., Pohl, E., and Medal*, H., "Robust Facility Location: Hedging Against Failure," *Reliability Engineering and System Safety*, Vol. 123, 73-80, March 2014.

47. Nachtmann, H. and Pohl, E., "Emergency Medical Response Services via Inland Waterways," *Journal of Risk Management,* Vol. 15, No. 4, 225-249, r 2013.

48. Nachtmann, H., Pohl, E., "Transportation Readiness Assessment and Valuation for Emergency Logistics," *International Journal of Emergency Management,* Vol. 9, No.1, 2013.

49. Schneider*, K., Rainwater, C., Pohl, E., Hernandez, I., and Ramirez-Marquez, J.,, "Social Network Analysis via Multi-State Reliability and Conditional Influence Models," *Reliability Engineering and System Safety*, Vol. 109, 99-109, 2013.

50. Miman*, M. and Pohl, E. "Multi-Objective Optimization of a Contingency Logistic Network through Physical Programming," *International Journal of Collaborative Enterprises: Special Issue on Transportation Modeling and Evacuation Planning,* Vol. 3, No. 1, 2013.

51. Kamali*, B., Mason, S., and Pohl, E., "An Analysis of Special Needs Student Busing," *Journal of Public Transportation*, Vol. 16, No. 1, 2013.

52. Varghese, V., Rossetti, M., Pohl, E., Apras, S., and Marek, D., "Applying Actual Usage Inventory Management Best Practices in a Healthcare Supply Chain," *International Journal of Supply Chain Management*, Vol. 1, No. 2, 1-10, 2012.

53. Guzman*, M., Pohl, E., Schneider, K.*, and Rainwater, C., "Application of Reliability Methods to Social Networks," *Journal of Military Operations Research*, Vol. 17, No. 4, 51-58, 2012.

54. Ertem*, M., Buyurgan, N., and Pohl, E., "Using Announcement Options in the Bid Construction Phase for Disaster Relief Procurement," *Journal of Socio-Economic Planning Sciences:* Special Issue on Disaster Planning and Logistics, Vol. 46, 306-314, 2012.

55. Nachtmann, H., Pohl, E., and Farrokhvar*, L., "Decision Support for Inland Waterways Emergency Response," *Engineering Management Journal:* Special Issue on Transportation Management, Vol. 24, 3-14, 2012.

56. Hall, K., Xiao*, D., Pohl, E., and Wang, K., "Reliability-based Mechanistic Empirical Pavement Design using Statistical Methods," *Transportation Research Record (TRR) Journal of Transportation Research Board,* No. 2305 Pavement Management Vol. 2, 121-130., 2012.

57. Zhang*, F., Chimka, J., and Pohl, E., "Global vs. Sequential Learning Styles Related to Attitudes About On-Line Learning," *Computers in Education Journal*, Vol. 3, No.2, 83-94, June 2012.

58. Xiang*, Y., Cassady, C., and Pohl, E., "Optimal Maintenance Policies for Systems Subject to a Markovian Operating Environment," *Computers & Industrial Engineering*, Vol. 62, No. 1, 190-197, February 2012.

Refereed Journals (cont)

59. Smith*, B.K., Nachtmann, H., and Pohl, E., "Improving Healthcare Supply Chain Processes via Data Standards," *The Engineering Management Journal*, Vol. 24, No. 1, March 2012.

60. Smith*, B.K., Nachtmann, H., and Pohl, E., "Quality Measurement in the Healthcare Supply Chain," *The Quality Management Journal*, Vol. 18, No. 4, 50-60, 2011.

61. Nachtmann, H. and Pohl, E., Catastrophes and Complex Systems: Transportation, "The Inland Waterway Transportation Systems' Role in Response and Recovery," *Journal of Homeland Security*, Available On-line, June 2011.

62. Medal*, H., Sharp*, S.J., Pohl, E., Rainwater, C. and Mason, S.J., "Models for Reducing the Risk of Critical Networked Infrastructures," *International Journal of Risk Assessment and Management,* Vol. 15, Nos. 2/3, 99-127, 2011.

63. Jampani*, J., Pohl, E., Mason, S., and Monch, L., "Integrated Heuristics for Scheduling Multiple Jobs in a Complex Job Shop," *International Journal of Metaheuristics,* Vol. 1, No. 2, 156-180, 2010.

64. Gade*, D. and Pohl, E. "Sample Average Approximation Applied to the Capacitated Facilities Location Problem with Unreliable Facilities," *Journal of Risk and Reliability*, Vol. 223, No. 4, 259-268, 2009.

65. Miman*, M. and Pohl, E. "Uncertainty Assessment Techniques for System Availability," *International Journal of Reliability, Quality, and Safety Engineering*, Vol. 16, No. 1 39-57, 2009.

66. Miman*, M. and Pohl, E., "Modeling and Analysis of Risk and Reliability for Contingency Logistics Supply Chain," *Journal of Risk and Reliability*, Vol. 222 No. 4, 463-476, 2008.

67. Yeung*, T., Cassady, R., and Pohl, E., "Multi-State Selective Maintenance Decisions," *Journal of Military Operations Research,* Vol. 12, No. 1, 19-34, 2007.

68. Salman*, S., Cassady, C.R., and Pohl, E.A., "Evaluating the Impact of Cannibalization on Fleet Performance," *Journal of Quality and Reliability Engineering International*, Vol. 23, 445-457, 2007.

69. Iyoob*, I., Cassady, C.R., and Pohl, E., "Establishing Maintenance Resource Levels Using Selective Maintenance," *Engineering Economist*, Vol. 51, No. 2, 99-114, 2006.

70. Cassady, C.R., Iyoob, I.M., Schneider*, K., and Pohl, E.A., "A Generic Model of Equipment Availability under Imperfect Maintenance," *IEEE Transactions on Reliability*, Vol. 54, No. 4, 564-571, 2005.

71. Cassady, C.R., Pohl, E.A., and Jin, S., "Managing Availability Improvement Efforts with Importance Measures and Optimization," *IMA Journal of Management Mathematics: Special Issue on Maintenance, Replacement and Reliability,* Vol. 15, 161-174, 2004.

72. Cassady, C.R., Takashi, I.G., and Pohl, E.A., "Reliability Analysis for Intermittently Used Products," *International Journal of Modeling and Simulation,* Vol. 23, No. 4, 234-239, 2003.

73. Cassady, C.R., Murdock, W.P., and Pohl, E.A., "Selective Maintenance for Support Equipment Involving Multiple Maintenance Actions," *European Journal of Operational Research,* Vol. 129, No. 2, 252-258, 2001.

74. Cassady, C.R., Pohl, E.A., and Murdock, W.P., "Selective Maintenance Modeling for Industrial Systems," *Journal of Quality in Maintenance Engineering,* Vol. 7, No. 2, 104-117, 2001.

75. Vanden Bosh*, P.M., Dietz, D.C., and Pohl, E.A., "Moment Matching Using a Family of Phase-Type Distributions," *Communications in Statistics: Stochastic Models*, Vol. 16, No. 3-4, 391-398, 2000.

76. Cassady, C.R., Bowden, R.O., Liew, L., and Pohl, E.A., "Combining Preventive Maintenance and Statistical Process Control: A Preliminary Investigation," *IIE Transactions*, Vol. 32, No. 6, 471-478, 2000.

Refereed Journals (cont)

77. Kramer, S.C., Neher, RE.*, Pohl, E.A., and Smith, E.P., "Surveillance Plan for Monitoring the Shelf Life of Systems with Degradation," *Quality Engineering*, Vol. 11, No. 2, 309-316, 1998-1999.

78. Vanden Bosch*, P.M., Dietz, D.C., and Pohl, E.A., "Choosing the Best Approach to Matrix Exponentiation," *Computers & Operations Research*, Vol. 26, No. 9, 871-882, 1999.

79. Pohl, E.A. and Dietrich, D.L. "Optimal Stress Screening Strategies for Multi-Component Systems Under Warranty: The Case of Phase-Type Lifetimes," *Annals of Operations Research Special Volume on Reliability and Maintainability in Production Control*, Vol. 91, No. 0, 137-161, 1999.

80. Reineke*, D.M., Pohl, E.A., and Murdock, W.P., "Maintenance Policy Cost Analysis for a Series System with Highly Censored Data," *IEEE Transactions on Reliability,* Vol. 48, No. 4, 413-419, 1999.

81. Durkee*, D.P, Pohl, E.A., and Mykytka, E.F., "Sensitivity Analysis of Availability Estimates to Input Data Characterization Using Design of Experiments," *Quality and Reliability Engineering International,* Vol. 14, No. 5, 311-317, 1998.

82. Ferrence*, A.A., Shelley, M.L., and Pohl, E.A., "A Methodology for Habitat Suitability Mapping through Integration of Multicriteria Evaluation Techniques with a Geographical Information System: A Pilot Study," *Journal of Military Operations Research*, Vol. 3, No. 5, 63-76, 1997.

83. Pohl, E.A. and Dietrich, D.L. "Environmental Stress Screening for Complex Systems: A 3-Level Mixed Distribution Model," *Microelectronics and Reliability***,** Vol. 35, No. 4, 637-656, March 1995.

Book Chapters (17)

1. Parnell, G., Kenley, R., Specking, E, and Pohl, E. "Systems Engineering and Industrial Engineering" in SEBoK Editorial Board. *The Guide to the Systems Engineering Body of Knowledge,* 2022.

2. Parnell, G., Shallcross, N., Specking, E., Pohl, E., Phillips, M., "Role of Decision Analysis in MBSE," In *Handbook on Model-based Systems Engineering*, Madni, A, and Augustine, N., pp. 1-32, 2022, https://doi.org/10.1007/978-3-030-27486-3.

3. Specking, E., Parnell, G., and Pohl, E. "Portfolio Management" in SEBoK Editorial Board. 2020. The Guide to the Systems Engineering Body of Knowledge (SEBoK), v. 2.1 R.J. Cloutier (Editor in Chief). Hoboken, NJ: The Trustees of the Stevens Institute of Technology. Accessed [October 30, 2020]. www.sebokwiki.org.

4. Specking, E., Parnell, G., and Pohl, E. "Set-Based Design." in SEBoK Editorial Board. 2019. *The Guide to the Systems Engineering Body of Knowledge (SEBoK)*, v. 2.1 R.J. Cloutier (Editor in Chief). Hoboken, NJ: The Trustees of the Stevens Institute of Technology. Accessed [November 11, 2019]. www.sebokwiki.org.

5. Talafuse, T., Pohl, E. "Grey Systems in Reliability," Wiley *StatsRef-Statistics Reference Online*, 15 May 2018. https://doi.org/10.1002/9781118445112.stat08061.

6. Small, C., Parnell, G., Pohl, E., Goerger, S., Cottam, C., Specking, E., Wade, Z., "Engineering Resilience for Complex Systems." In: Madni A., Boehm B., Ghanem R., Erwin D., Wheaton M. (eds) *Disciplinary Convergence in Systems Engineering Research*. Springer, pp. 3-15, 2018.

7. Pohl, E., Goerger, S., and K. Michealson, "Chapter 4, Analyzing Resources," *Trade-off Analytics: Creating and Exploring the System Tradespace*, Editor, Greg Parnell, Wiley Series in Systems Engineering and Management, John Wiley and Sons, Hoboken N.J., pp. 91-154, 2017.

8. Rossetti, M., Buyurgan, N., and Pohl, E., "Chapter 10, Medical Supply Chain Logistics," in *The Handbook of Healthcare System Scheduling: Delivering Care When and Where it is Needed*, R. Hall, Editor, International Series in Operations research and Management Science Vol. 168, Springer Publishers, New York, NY, 2012.

Book Chapters (cont.)

9. Pohl, E.A., "Chapter 8, Reliability Engineering," *Decision Making in Systems Engineering and Management*, Gregory Parnell, Patrick Driscoll, and Dale Henderson, (Eds), John Wiley & Sons, Series in Systems Engineering and Management, Hoboken, NJ, 2nd Edition, pp. 227-272, 2011.

10. Pohl, E.A. and Nachtmann, H., "Chapter 5, Life Cycle Costing," *Decision Making in Systems Engineering and Management*, Gregory Parnell, Patrick Driscoll, and Dale Henderson, (Eds), John Wiley & Sons, Series in Systems Engineering and Management, Hoboken, NJ, 2nd Edition, pp. 137-182, 2011.

11. Hill, R.R. and Pohl, E.A., "Heuristics and Their Use in Military Modeling," *Encyclopedia of Operations Research and Management Science*, James J. Cochran, (Ed), John Wiley and Sons, Hoboken, NJ, 2011.

12. Hill, R.R. and Pohl, E.A., "Chapter 9, An Overview of Meta-Heuristics and Their Use in Military Modeling," *Handbook of Military Industrial Engineering*, Marlin U. Thomas and Adeji B. Badiru, (Eds), Taylor and Francis/CRC Press, Boca Raton, FL, 2009.

13. Cassady, C.R., Pohl, E.A., and Yeung, T., "Maintainability and Supportability in Logistics," *Logistics Engineering Handbook*, Don Taylor, (Ed), CRC Press, Taylor and Francis Group, Boca Raton, FL, 2008.

14. Pohl, E.A., "Chapter 7, System Effectiveness," *Decision Making in Systems Engineering and Management*, Gregory Parnell, Patrick Driscoll, and Dale Henderson, (Eds), John Wiley & Sons, Series in Systems Engineering and Management, Hoboken, NJ, 2008.

15. Pohl, E. and Nachtmann, H., "Chapter 5, Life Cycle Costing," *Decision Making in Systems Engineering and Management*, Gregory Parnell, Patrick Driscoll, and Dale Henderson, (Eds), John Wiley & Sons, Series in Systems Engineering and Management, Hoboken, NJ, 2008.

16. English, J., Usher, J., Pohl, E., and Taylor, D., "Availability Modeling of Powered Roller Conveyers," *Progress in Material Handling Research: 2006*, Material Handling Institute, Charlotte, NC, 2006.

17. Cassady, C.R., Murdock, W.P., and Pohl, E.A., "A Deterministic Selective Maintenance Model for Complex Systems," *Recent Advances in Reliability and Quality Engineering*, Hong Pham, Editor, World Scientific, Singapore, 311-324, 2001.

Conference Proceedings (87 Accepted or in Print)

1. Azucena*, J., Hashemian*, F., Liao, H., Pohl, E., "Applying Machine Learning Methods to Improve All-Terminal Network Reliability," the *Proceedings of the 68th Annual Reliability and Maintainability Symposium***,** Orlando FL, January 2023. Selected at the **SRE, Best Paper** authored or co-authored by a student at RAMS.

2. Rivera*, R. S. O., Parnell, G.S., Pohl, E.A., & Specking E., Buchanan, R. K. & Richards, J. "Smart Base Installations: Bayesian Network for Decision Analysis to Support the Decision-Making Process During Severe Weather Events," *11th Southeast Symposium on Contemporary Engineering Topics (SSCET)* Little Rock, AR, 16 Sep 22.

3. Parnell, G., Kenley, R., Specking, E., Pohl, E., "Systems Engineering and Industrial Engineering," International Council on Systems Engineering (INCOSE) Annual Conference, July 2022.

4. Hernandez*, J., Liao, H., Wells*, H., Sullivan, K., Pohl, E., "Applying Deep Reinforcement Learning to Improve the Reliability of an Infrastructure Network," the *Proceedings of the 60th ESReDA Seminar*, Grenoble France, May 2022.

5. Barker*, T., Parnell, G., Pohl, E., "The Impact of Reliability in Conceptual Design – An Integrated Tradeoff Analysis", *2022 Conference on Systems Engineering Research*, March 2022.

6. Ruiz*,C., Pohl, E., Liao, H., "Bayesian Design of D-Optimal Accelerated Degradation Test Considering Random Effects," the *Proceedings of the 68th Annual Reliability and Maintainability Symposium*, Tucson AZ, January 2022. **Selected as the QCRE Golomski Best Paper Award.**

Conference Proceedings (cont.)

7. Rossetti, M., Pohl, E., McKeon, K., Kizito, R., "Measuring the Impact of Data Standards in an Internal Hospital Supply System,' *Proceedings of the 2021 Winter Simulation Conference*.

8. Shallcross, N., Parnell, G., Pohl, E., Specking, E., "A Review of Set-Based Design Research Opportunities," *Proceedings of 18th Annual Conference on Systems Engineering Research* (CSER), October 2020.

9. Shallcross*, N., Parnell, G., Pohl, E., "Enabling Design Decsions in Set-based Design with Multi-Resolution Modeling," 2020 *ASEM International Annual Conference*, Virtual, October 2020.

10. Specking, E., Parnell, G., Pohl, E., "Comparing INCOSE and PMI Portfolio Management Practices," *Proceedings of the 29th Annual INCOSE International Symposium*, July 2020.

11. Ruiz*, C., Liao H., and Pohl, E., "Selective Maintenance of Multi-Component Systems with Multiple Failure Modes", *Proceedings of the 66th Annual Reliability and Maintainability Symposium*, Long Beach, CA, January, 2020. **Selected as the QCRE Golomski Best Paper Award Winner.**

12. Shallcross*, N., Parnell, G., Pohl, E., Buede, D., "Integrating Set-Based Design in the Department of Defense Acquisitions System to Inform Programmatic Decisions," *2019 ASEM International Annual Conference*, Philadelphia, PA, October 2019.

13. Specking*, E., Parnell, G., Georger, S., Cilli, M., Pohl, E., "Using Set-Based Design to INFORM System Requirements and Evaluate Design Decisions," *Proceedings of the 29th Annual INCOSE International Symposium*, July 2019.

14. Ruiz*, C., Liao H., and Pohl, E. A., "Reliability Estimation from Multiple Degradation Processes with Dependent Random Effects", *Proceedings of the 11th International Conference on Mathematical Methods in Reliability*, Hong Kong, June, 2019. **Selected as Conference Best Paper**

15. Specking*, E., Parnell, G., Pohl, E., Buchanan, R., "Evaluating a Set-Based Design Tradespace Exploration Process," *Procedia Computer* Science, Vol 153, pp.185-192. *17th Annual Conference on Systems Engineering Research*, Washington, DC, April 2019.

16. Ruiz*, C.**,** Liao H., and Pohl, E., "A Nonparametric Degradation-Based Method for Modeling Reliability Growth", *Proceedings of the 65th Annual Reliability and Maintainability Symposium*, Orlando, FL, January, 2019.

17. Karimi*, **S**., Liao H., and Pohl, E., "A Generic Tool for Estimating Field Reliability Using Aggregate Failure Time Data", *Proceedings of the 65th Annual Reliability and Maintainability Symposium*, Orlando, FL, January, 2019. **Selected as Best Student Paper by an SRE Member.**

18. Specking, E., Parnell, G., Pohl, E., "A Foundation for System Set-Based Design Trade-off Analytics," *2018 ASEM International Conference,* Coeur d'Alen, ID, October 2018.

19. Ferris, T., Jackson, S., Specking, E., Parnell, G., Pohl, E., "The Fundamental Nature of Resilience of Engineered Systems," *28th Annual INCOSE International Symposium*, Washington, DC, July, 2018.

20. Small, C., Parnell, G., Buchanan, R., Cilli, M., Pohl, E., Goerger, S., Wade, Z., "A UAV Case Study with Set-based Design," *28th Annual INCOSE International Symposium*, Washington, DC, July, 2018.

21. Ruiz, C., Liao, H., Pohl, E., "Reliability Demonstration Tests Considering Performance Degradation with Measurement Error," *Proceedings of the 10th IMA Conference on Modelling in Industrial Maintenance and Reliability (MIMAR)*, Manchester, UK, June 2018.

22. Wade, Z., Parnell, G., Goerger, S., Pohl, E., Specking, E., "Designing Engineered Resilient Systems Using Set based Design," *16th Annual Conference on Systems Engineering Research*, Charlottesville, VA, May 2018.

23. Ruiz, C., Lioa, H., Pohl, E., Sullivan, K., "Bayesian Accelerated Reliability Growth of Complex Systems," *64th Annual Reliability & Maintainability Symposium*, Reno, NV, January 2018.

Conference Proceedings (cont.)

24. Parnell, G., Goerger, S., Pohl, E., "Reimagining Tradespace Definition and Exploration," 2017 *ASEM International Conference*, Huntsville, AL, Editors Ng, B. Nepal, and E. Schott, October 2017.

25. Specking, E., Whitcomb, C., Parnell, G., Goerger, S., Pohl, E., Kundeti, N., "Trade-off Analytics for Set Based Design," *ASNE Conference, 2017 Design Sciences Series: Set Based Design*, Washington, D.C, September 2017.

26. Small, C., Parnell, G., Pohl, E., Cottam, B., Specking, E., Wade, Z., "Engineered Resilient Systems with Value Focused Thinking," *Proceedings of the 27th Annual INCOSE International Symposium,* Adelaide, Australia, July 2017.

27. Zhang,Z., Sun, L., Liao, H., Pohl, E., "Improving Resilience Capability of a Multichannel Condition Monitoring Systems Subject to Partial Failures," 10th International Conference on Mathematical Methods in Reliability, Grenoble, France, July 2017.

28. Small, C., Parnell, G., Pohl, E., Goerger, S., Cottam, C., Specking, E., Wade, Z., "Engineering Resilience for Complex Systems," 15th Annual Conference on Systems Engineering Research, Redondo Beach, CA, March 23-25, 2017.

29. Small, C., Parnell, G., Pohl, E., "Resilient Systems Evaluation Model," *Proceedings of the 2016 Industrial and Systems Engineering Research Conference*, Anaheim, CA, May 2016.

30. Pohl. L., Pohl, E., "From Classroom to Online to Hybrid: The Evolution of an Operations Management Course," *Proceedings of the 121st American Society for Engineering Education Annual Conference,* Indianapolis, IN, June 2014.

31. Heydarai*, M., Sullivan, K., Pohl, E., "Optimal Allocation of Testing Resources in Reliability Growth," *Proceedings of the 2014 Industrial and Systems Engineering Research Conference*, Montreal, CA, May 2014.

32. Rossetti, M., Schbool*, M., Varghese, V., Pohl, E., "Investigating the Effect of Demand Aggregation on the Performance of an (R,Q) Inventory Control Policy," *Proceedings of the 2013 Winter Simulation Conference*, Washington, D.C., December 2013.

33. Tong*, J., Nachtmann, H., Pohl, E., "Value-Focused Thinking for Inland Waterborne Cargo Prioritization," *The Proceedings of the 34th American Society of Engineering Management Conference*, Minneapolis, MN, October 2013.

34. Shbool*, M., Pohl, E., Rossetti, M., Varghese, V., "Comparing Education and Training Requirements for Retail and Healthcare Supply Chain Professionals," *The Proceedings of the 34th American Society of Engineering Management Conference*, Minneapolis, MN, October 2013.

35. Hernandez, I., Ramirez-Marquez, J., Pohl, E., "Protecting Your Critical Network Infrastructure through Robust System Design," *Proceedings of the 34th American Society of Engineering Management Conference*, Minneapolis, MN, October 2013.

36. Smith, B., Nachtmann, H., Pohl, E., "Progress Towards Data Standards Adoption in Healthcare," *The Proceedings of the 33rd American Society of Engineering Management Conference*, Virginia Beach, VA, October 2012.

37. Ramirez-Marquez, J., Hernandez, I., Schneider*, K., Rainwater, C., and Pohl, E., "Reliability Model for Influencing Individuals in the Social Network Setting," To appear in the *Proceedings of The Annual European Safety and Reliability Conference: ESREL 2012*, Helsinki, Finland, June 2012.

38. Needy, K., Pohl, E., and Specking*, E., "Raising the Level of Participation in Study Abroad by Industrial Engineering Undergraduate Students," *Proceedings of the 2012 American Society of Engineering Education Conference*, San Antonio, TX, June 2012.

39. Specking*, E., Needy, K., Pohl, E., "Global Studies: A Study of Why More Engineering Students Do Not Participate," *Proceedings of the 2012 American Society of Engineering Education Conference*, San Antonio, TX, June 2012.

40. Hall, K., Xiao*, D., Pohl, E., and Wang, K., "Reliability-based Mechanistic Empirical Pavement Design using Statistical Methods," To appear in *Compendium of Papers for the Transportation Research Board*, January 2012.

Conference Proceedings (cont.)

41. Hall, K., Xiao*, D., Pohl, E., and Wang, K., "Risk Analysis of Mechanistic-Empirical Pavement Design Methods," *Proceedings of the International Conference on Transportation Engineering*, Chengdu China, July 2011.

42. Burbano*, A., Rardin, R., and Pohl, E., "Exploring the Factors Affecting the Identification Standards Adoption Process in the US Healthcare Supply Chain," *Proceedings of the 2011 PICMET Conference,* Portland, OR, July 2011

43. Farrokhvar*, L., Nachtmann, H., and Pohl, E., "Measuring the Feasibility of Inland Waterway Emergency Response," *Proceedings of the 2011 Industrial Engineering Research Conference*, Reno, NV, May 2011.

44. Burbano*, A., Rardin, R., and Pohl, E., "Modeling Adoption of Identification Standards in U.S. Hospitals: A Systems Dynamics Approach," *Proceedings of the 2011 Industrial Engineering Research Conference*, Reno, NV, May 2011.

45. Schneider*, K., Rainwater, C., and Pohl, E., "Investigating actor Importance in a Multi-State Social Network," *Proceedings of the 2011 Industrial Engineering Research Conference*, Reno, NV, May 2011.

46. Sharp*, S. and Pohl, E., "Effect of Shelf Life on Perishable Goods Supply Chain Cost," *Proceedings of the 2011 Industrial Engineering Research Conference*, Reno, NV, May 2011.

47. Schneider, K.*, Rainwater, C., and Pohl, E., "Assessing Multi-Layared Social Networks Using Reliability Models," *Proceedings of the International Reliability and Maintainability Symposium (RAMS)*, Orlando, FL, January 2011. **Selected as the QCRE Golomski Best Paper Award Winner**

48. Smith*, B.K., Nachtmann, H., and Pohl, E.A., "A Balanced Scorecard Approach to Ensuring Healthcare Supply Chain Performance," *The Proceedings of the 31st American Society of Engineering Management Conference*, Rogers, AR, October 2010.

49. Blinzler*, M. and Pohl, E., "The Role of Information Technology Professionals in Total Quality Management," *The Proceedings of the 31st American Society of Engineering Management Conference*, Rogers, AR, October 2010.

50. Salgado*, M., Menezes, B., and Pohl, E.A., "Developing Expert Opinion Based Models for Critical Infrastructure Risk Assessment and Vulnerability Analysis," *Proceedings of the 2010 Industrial Engineering Research Conference*, Cancun, Mexico, June 2010.

51. Smith, B.K., Nachtmann, H., and Pohl, E.A., "Kaizen Event Effectiveness via Healthcare Logistics Data Standardization," (Invited Paper) *Proceedings of the 2010 Industrial Engineering Research Conference*, Cancun, Mexico, June 2010.

52. Townsley*, J.R., Smith, B.K., and Pohl, E.A., "Managing Financial Risk in a Clinical Setting Using System Dynamics," *The Proceedings of the* 30th *American Society of Engineering Management Conference*, Springfield, MO, October 2009.

53. Smith, B.K., Nachtmann, H., and Pohl, E.A., "The Need for Standardization in the Healthcare Supply Chain," (Best Paper Nominee), *The Proceedings of the* 30th *American Society of Engineering Management Conference*, Springfield, MO, October 2009.

54. Balya*, R. and Pohl, E.A., "Resource Allocation in a Project Management Setting Based on Schedule Reliability," *The Proceedings of the* 30th *American Society of Engineering Management Conference*, Springfield, MO, October 2009.

55. McCallion, E.A., Taylor, N.D., Mason, S., and Pohl, E.A., "Analysis of Transportation Network Design Strategies for Forced Transfer Bussing," *Industrial Engineering Research Conference Proceedings*, Miami, FL, May 31 – June 3, 2009.

56. Medal*, H., Rossetti, M., Varghese, V., and Pohl, E., "A Software Tool for Intermittent Demand Analysis," *Industrial Engineering Research Conference Proceedings*, Miami, FL, May 31 – June 3, 2009.

Conference Proceedings (cont.)

57. Smith, B.K., Nachtmann, H., Pohl, E., and Townsley*, J.R., "Management Initiatives in Healthcare Logistics," *Proceedings of the 2009 Industrial Engineering Research Conference (invited paper)*, Miami, FL, May 31- June 3, 2009.

58. Rossetti, M., Varghese, V., Miman*, M., and Pohl, E., "Simulating Inventory Systems with Forecast Based Policy Updating," *Proceedings of the 2008 Winter Simulation Conference*, Mason, S.J., Hill, R., Moench, L., and Rose, O., (Eds), Miami, FL, December 2008.

59. Smith, B.K., Nachtmann, H., and Pohl, E., "Quality Measures in the Healthcare Supply Chain," *American Society of Engineering Management Conference Proceedings*, West Point, NY, October 2008.

60. Miman*, M., Rossetti, M., Varghese, V., and Pohl, E., "An Object-Oriented Framework for Analyzing VARIMETRIC Systems," *Industrial Engineering Research Conference,* Vancouver, B.C., May 2008.

61. Medal*, H., Gade*, D., Mason, S. Meller, R., and Pohl, E., "Pick-up and Delivery of Poultry in Rural Networks", *Industrial Engineering Research Conference 2008,* Fowler, J., & Mason, S., (Eds) Vancouver, B.C., May 2008.

62. Liu*, Y., English, J., and Pohl, E., "Application of Gene Expression Programming in the Reliability of Consecutive K-out-of-N Systems with Identical Components," *Proceedings of International Conference on Intelligent Computing*, Huage, D., Houtte, L., and Loogs, M., (Eds), Qing Dao, China, 217-224, August 2007.

63. Miman*, M. and Pohl, E.A., "Uncertainty Assessment for Availability: Importance Measures," *Proceedings of the International Reliability and Maintainability Symposium (RAMS)*, Newport Beach, CA, 151-157, January 2006.

64. English, J., Usher, J., Pohl, E., and Taylor, D., "Availability Modeling of Powered Roller Conveyers," Progress in Material Handling Research: 2006, Material Handling Institute, Charlotte, NC, 2006.

65. Cassady, C.R., Iyoob, I., Pohl, E. A., and Schneider, K., "A Generic Model of Equipment Availability Under Imperfect Maintenance," *Proceedings of the Fourth International Mathematical Methods in Reliability Conference,* Santa Fe, New Mexico, June 2004.

66. Pohl, E., Cassady, C.R., and Jin, S., "Managing Availability Improvement Efforts with Importance Measures and Optimization," *Proceedings of the Fourth International Mathematical Methods in Reliability Conference,* Santa Fe, NM, June 2004.

67. McGinnis, M., Pohl, E., Parnel, G, Kwinn, M., McFadden, W., and McCarthy, D., "Meeting the Needs of the Customer: Systems Engineering at the United States Military Academy," *Proceedings of the International Conference on Systems Engineering*, Las Vegas, NV, September 2004.

68. Gorak, M., Kwinn, M., and Pohl, E., "Lead the Fleet: Transitioning the Army Maintenance Program from a Flight Time Based System to an Operational Usage Based System," *Proceedings of the 2004 Industrial Engineering Research Conference*, Houston, TX, May 2004.

69. Kaczynski, W., Foote, B., and Pohl, E., "A Utility Based Optimal Metric Coordinating Mission Capability and Supply Level," *Proceedings of the 2004 Industrial Engineering Research Conference*, Houston, TX, May 2004.

70. Kwinn, M., Ragsdale, D., Brence, J., Morel, T., Pohl, E., Goldman, S., Tollefson, E., Gorak, M., and Deckro, D., "Operation Enduring Freedom Assessment System Development," *Proceedings of the US South Korean Defense Department's Operations Research Symposium*, South Korea, April 2004.

71. Kwinn, M., Pohl, E.A., and Parnell, G., "Rapid Framework Development and Analysis Using Technology," *Proceedings of the 2003 International Engineering Management Conference,* Albany, NY, November 2003.

72. Pohl, E.A., Cassady, C.R., and Kwinn, M., "A Selective Maintenance Model for Serial Manufacturing Systems Involving Multiple Maintenance Actions," *Proceedings of the 17th International Conference on Production Research*, Blacksburg, VA, August 2003.

Conference Proceedings (cont.)

73. Orman, S., Cassady, C.R., and Pohl, E.A., "Exploring the Effects of Cannibalization on Fleet Performance," *Proceedings of the 2003 Industrial Engineering Research Conference*, Portland, OR, May 2003.

74. Driscoll, P.J. and Pohl, E.A., "Modeling the Decision Quality of Sensor to Shooter (STS) Networks," *Proceedings of the 7th International Conference on Information Quality*, Boston, MA, November 2002.

75. Kwinn, M., Pohl, E., Carlton, B., and McGinnis, M., "Capstone Design in Education: Systems Engineering and the West Point Way," *Proceedings of the International Council of Systems Engineering*, Las Vegas, NV, July 2002.

76. Cassady, C.R. and Pohl, E.A., "Setting Maintenance Resource Limits for Component Level Selective Maintenance," *Proceedings of the 2002 Industrial Engineering Research Conference*, Orlando, FL, May 2002.

77. Durkee, D.P, Pohl, E.A., and Mykytka, E.F., "Input Data Characterization Factors Affecting Availability Estimation Accuracy," *The Proceedings of the 2002 Reliability and Maintainability Symposium*, 80-89, January 2002.

78. Cassady, C.R., Pohl, E.A., and Warren, J., "Equipment Aging and Availability under Imperfect Maintenance," *Proceedings of the 2001 Industrial Engineering Research Conference*, Dallas, TX, May, 2001.

79. Payne, M., Chrissis, J., Pohl, E., Bowesox, R., Gruber, M., and Fuller, R., "Optimizing Scramjet Fuel Injection Array Design" AIAA-99-2251, 35th AIAA/ASME /SAE/ASEE Joint Propulsion Conference, Los Angeles, CA, 1- 17, June 1999.

80. Murdock, W.P., Reineke, D.M., Pohl, E.A., and Rehmert, I., "Improving Availability and Cost Performance for Complex Systems with Preventive Maintenance," *Proceedings of the 45th International Reliability and Maintainability Symposium (RAMS)*, Washington, DC, January 1999, 383-388.

81. Tran, T., Murdock, W.P., and Pohl, E.A., "Bayesian Analysis for System Reliability Inferences," P*roceedings of the 45th International Reliability and Maintainability Symposium (RAMS)*, Washington, DC, 151-157, January 1999.

82. Cassady, C.R., Nachlas, J.A., Murdock, W.P., and Pohl, E.A., "Comprehensive Fleet Maintenance Management," *Proceedings of the 1999 IEEE Systems, Man and Cybernetics Conference*, San Diego, CA, October 1999.

83. Cassady, C.R., Murdock, W.P., and Pohl, E.A., "A Deterministic Selective Maintenance Model for Complex Systems," *Proceedings of the 4th International Society of Science and Applied Technology (ISSAT) Conference on Reliability and Quality in Design*, Seattle, WA, August 1998.

84. Ruflin, S.C., Pohl, E.A., and Murdock, W.P., "Non-Parametric Analysis of the Mean Residual Life Function for Randomly Censored Data," *Proceedings of the 7th Industrial Engineering Research Conference*, Banff, Canada, May 1998.

81. Reineke, D.M., Pohl, E.A., and Murdock, W. P., "Survival Analysis and Maintenance Policies for a Series System Using Censored Data," *Proceedings of the 44th International Reliability and Maintainability Symposium (RAMS)*, Anaheim CA, 182-187, January 1998.

82. Kramer, S.C. and Pohl, E. A., "Graduate Systems Engineering Education at the Air Force Institute of Technology," *Proceedings of the 7th International Council on Systems Engineering Conference (INCOSE)*, Los Angeles, CA, 437-443, August 1997.

83. From, J., Kramer, S., and Pohl, E., "A Small Satellite System Design Process," *IEEE Proceedings of the 49th National Aerospace and Electronics Conference (NAECON'97)*, Dayton, OH, July 1997, Volume 1, 423-429.

84. Durkee, D., Pohl, E.A., and Mykytka, E., "Sensitivity of Availability Estimates to Input Data Characterization," Proceedings of the 3rd ISSAT Conference on Reliability and Design, Anaheim, CA, Hoang Pham, (Ed), 165-169, March 1997.

Conference Proceedings (cont.)

85. Williams, J.G. and Pohl, E.A., "Missile Reliability Analysis with Censored Data," *IEEE Proceedings of the 43rd International Reliability and Maintainability Symposium*, Philadelphia, PA, 122-130, January 1997.

86. Pohl, E.A. and Dietrich, D.L., "Environmental Stress Screening for Multi-Component Systems with Weibull Failure Times and Imperfect Failure Detection," *IEEE Proceedings of the 41st International Reliability and Maintainability Symposium*, Washington, DC, 223-232, January 1995.

87. Pohl, E.A., Robinson, D.G., and Jacobs, J., "Quality for System Design," *Proceedings of the IEEE National Aerospace and Electronics Conference (NAECON)*, May 1989.

Other Publications

1. Pohl, E., and Cassady, R., "An Introduction to Probability Models in Reliability and Maintainability," IEEE Tutorial Notes, 69th Reliability and Maintainability Symposium, Orlando, FL, January 2023.

2. Lange, C., and Pohl, E., "Probabilistic Design and Analysis," IEEE Tutorial Notes, 67th Reliability and Maintainability Symposium, Tucson, AZ, January 2022.

3. Lange, C., and Pohl, E., "Probabilistic Design and Analysis," IEEE Tutorial Notes, 67th Reliability and Maintainability Symposium, Orlando, FL, May 2021.

4. Lange, C., and Pohl, E., "Probabilistic Design and Analysis," IEEE Tutorial Notes, 65th Reliability and Maintainability Symposium, Orlando, FL, January 2019.

5. Lange, C., and Pohl, E., "Probabilistic Design and Analysis," IEEE Tutorial Notes, 64th Reliability and Maintainability Symposium, Reno, NV, January 2018.

6. Lange, C., and Pohl, E., "Probabilistic Design and Analysis," IEEE Tutorial Notes, 63rd Reliability and Maintainability Symposium, Orlando, FL, January 2017.

7. Lange, C., and Pohl, E., "Probabilistic Design and Analysis," IEEE Tutorial Notes, 62nd Reliability and Maintainability Symposium, Tucson, AZ, January 2016.

8. Pohl, E., and T. Yeung, "An Introduction to Optimization Methods in Reliability and Maintainability", IEEE Tutorial Notes, 62nd Reliability and Maintainability Symposium, Tucson, AZ, January 2016.

9. Pohl, E., and T. Yeung, "An Introduction to Optimization Methods in Reliability and Maintainability", IEEE Tutorial Notes, 61st Reliability and Maintainability Symposium, Tampa, FL, January 2015.

10. Gerokostopoulus, A., Guo, H., and Pohl, E., "Determining the Right Sample Size for Your Test: Theory and Application," IEEE Tutorial Notes, 60th Reliability and Maintainability Symposium, Colorado Springs, CO, January 2014.

11. Pohl, E., Rainwater, C., Mason, S., Milburn, Baycik, O., Bright, J., Spicer, J., St. John, D., Ulesich, M., Kitchens, T., "Models for Mitigating Dynamic Risk in Multi-Modal Perishable Commodity Supply Chain Networks," MBTC DHS 1109, May 2014.

12. Guo, H., Pohl, E., and Gerokostopoulus, A., "Determining the Right Sample Size for Your Test: Theory and Application," IEEE Tutorial Notes, 60th Reliability and Maintainability Symposium, Colorado Springs, CO, January 2014.

13. Guo, H., Pohl, E., and Gerokostopoulus, A., "Determining the Right Sample Size for Your Test: Theory and Application," IEEE Tutorial Notes, 59th *Reliability and Maintainability Symposium,* Orlando, FL, January 2013.

14. Pohl, E, Mason, S., Rainwater, C., Gedik, R., Medal, H., Carter, J, Martin, N., Wang, C., and King, B.," Designing Resilient and Sustainable Supply Networks," MBTC DHS 1101, Final Report, March 2012.

Other Publications (cont.)

15. Nachtmann, H., Pohl, E.A., Farrokhvar, L., "Emergency Response via Inland Waterways," MBTC DHS 1106, Final Report, August 2011.

16. E. Pohl and C.R. Cassady, "Optimization in Reliability and Maintainability," Tutorial Notes, *Proceedings of the Applied Reliability Symposium,* San Diego, CA, June 2011.

17. T. Yeung and E. Pohl, "An Introduction to Optimization Methods in Reliability and Maintainability", IEEE Tutorial Notes, *57th Reliability and Maintainability Symposium,* Orlando, FL, January 2011.

18. E. Pohl and C.R. Cassady, "Optimization in Reliability and Maintainability," Tutorial Notes, *Proceedings of the Applied Reliability Symposium,* Reno, NV, June 2010.
19. Mason, S., and E.A. Pohl, "Network Design Analysis for Special needs Student Services," MBTC Project 3019, Final Report, June 2010.

20. T. Yeung and E. Pohl, "An Introduction to Optimization Methods in Reliability and Maintainability", IEEE Tutorial Notes, *56th Reliability and Maintainability Symposium,* San Jose, CA, January 2010.

21. Mason, S., and E.A. Pohl, "Analysis of Transportation Network Design Strategies for Forced Transfer Busing," MBTC Project 3011, Final Report, December 2009.

22. Nachtmann, H., and E.A. Pohl, "Rural Transportation Emergency Preparedness Plans," MBTC 2091, Final Research Report, July 2009.

23. Nachtmann, H., and E.A. Pohl, "The Industry's Take on Data Standards," *Materials Management in Healthcare*, 2009. Recognized as *Materials Management in Healthcare's* Top Ten most Requested Articles of 2009.

24. Scheduling and Coordination of Disaster Relief Operations, Final Report to AFOSR. Mason, S.J., Nachtmann, H.L., Pohl, E.A., Celikkol, S.*, Jia, J.*, Unlu, Y.*, Long, T.*, Brotherton, S.*, "Integrated Distribution Planning and Forecasting for Medical Logistics", Final Report to AFOSR, 2009.

25. Nangia, S.*, Pohl, E.A., "Risk Modeling, Assessment and Management," MBTC 2061 Final Research Report, June 2008.

26. Rossetti, M. D., Pohl, E, Limp, F., and Stout, J.*, "Applications of GIS and Operations Research Logistics Planning Methods for Arkansas Rural Transportation Emergency Planning", MBTC 2088 Final Research Report, July 2008.

27. Mason, S.J., Meller, R.D., Pohl, E.A., Medal, H.*, Gade, D.*, Routing Models for Rural Transportation Networks with Time-Varying Constraints, MBTC 2086, Final Research Report, July 2008.

28. T. Yeung and E. Pohl, "An Introduction to Optimization Methods in Reliability and Maintainability", IEEE Tutorial Notes, *55th Reliability and Maintainability Symposium,* Fort Worth, TX, January 2009.

29. E. Pohl, "Spring Forward" PHALANX, *Bulletin of Military Operations Research*, Vol. 41, No.1, ISSN 0195-1920, March 2008.

30. E. Pohl, "New Opportunities for Military OR" PHALANX, *Bulletin of Military Operations Research*. Vol. 40, No. 4, ISSN 0195-1920, December 2007.

31. Pohl, E., Hill, R.R., and Millitello, L., "Decision Support for Logistics Response to Chemical, Biological, or Radiological Attacks," CELDI Final Research Report for UA06-AFRL and UA07-AFRL, 2007.

32. Nachtmann, H., Pohl, E.A., Cassady, C.R., Kaya, O., and Borin, S., "Homeland Security for Rural Transportation Networks," MBTC Project 2085 Final Report, 2007.

33. Pohl, E.A. and Dietrich, D.L., "Environmental Stress Screening," *Proceedings of the Applied Reliability Symposium*, San Diego, CA, June 2007.

Other Publications (cont.)

34. Pohl, E.A. and Cassady, C.R., "Repairable Systems Model," *Proceedings of the Applied Reliability Symposium*, Frankfurt Germany, April 2007.

35. E. Pohl, "Arm Chair Quarterbacks," PHALANX, *Bulletin of Military Operations Research*, Vol. 40, No. 1, ISSN 0195-1920, March 2007.

36. Maillart, L. and Pohl, E.A., "Markov Chain Modeling and Analysis," IEEE Tutorial Notes, *53nd Reliability and Maintainability Symposium,* Newport Beach, CA, January 2007.

37. E. Pohl, "Change," PHALANX, *Bulletin of Military Operations Research*, Vol. 39, No. 3, ISSN 0195-1920, December 2006.

38. Parnell, G. and Pohl, E.A., "Multi-Objective Decision Analysis Techniques for Systems Engineering," *16th Annual International Council on Systems Engineering Symposium*, Orlando, FL, July 2006.

39. Pohl, E.A., Cassady, C.R., "Repairable Systems Model," *Proceedings of the Applied Reliability Symposium*, Orlando, FL, June 2006.

40. Pohl, E.A., Rossetti, M.D., Chimka, J., Honeycutt, J., Miman, M.,Varghese, V., Snelgrave, R., and Stewart, C., "C/KC-135 Weapon System Stockage Policy Analysis: An Application of Intermittent Demand Algorithms," Final Report, May 2006.

41. Maillart, L. and Pohl, E.A., "Markov Chain Modeling and Analysis," IEEE Tutorial Notes, *52nd Reliability and Maintainability Symposium,* Newport Beach, CA, January 2006.

42. Driscoll, P., Tortorella, M., and Pohl, E., "Information Product Quality in Network Centric Operations," Technical report DSE-TR-0516, Operations Research Center of Excellence, USMA, May 2005.

43. Maillart, L. and Pohl, E.A., "Markov Chain Modeling and Analysis," IEEE Tutorial Notes, *51st Reliability and Maintainability Symposium,* Alexandria, VA, January 2005.

44. Cassady, C.R., Nachtmann, H.L, Pohl, E.A., Mendoza, A., Pohl, L., and Rew, N., "Maintenance Decision-Making under Prognostic and Diagnostic Uncertainty," Final Report to TLI/AFRL, January 2005.

45. Cassady, C.R., Pohl, E.A., Honeycutt, J., Pohl, L., and Carrasco, M., "Quantifying the Impacts of Improvements to Prognostic and Diagnostic Capabilities," Final Report to TLI/AFRL, January 2005.

46. Kwinn, M., Pohl, E.A., Gorak, M., Tollifson, E., and Brence, J., "ANDAS: Afghanistan National Development Assessment System," Technical Report No. DSE TR0425, United States Military Academy, West Point, NY August 2004.

47. Gorak, M., Kwinn, M., and Pohl, E.A., "Lead-the-Fleet: Transitioning Army Aviation Maintenance From a Time Based System to a Usage Based System," Technical Report No. DSE TR040, United States Military Academy, West Point, NY, August 2004.

48. Report of the Review Committee, Department of Engineering Management and Systems, University of Dayton, Dayton, OH, June 30, 2004.

49. Cassady, C.R. and Pohl, E.A., "Introduction to Repairable System Modeling," IEEE Tutorial Notes, IEEE Tutorial Notes, *50th Reliability and Maintainability Symposium,* Los Angeles, CA, January 2004.

50. Kwinn, M., Pohl, E.A., and Deckro, R., "Combat Consultants: OR Is Where You Find It!" *PHALANX: The Bulletin of Military Operations Research Society*, December 2003.

Other Publications (cont.)

51. Foote, B., Billie, S., Smith, D., Delong, S., and Pohl, E.A., "Establishing a Decision Support Framework for Analysis of Embedded Training," Technical Report No. DSE-TR-0304, United States Military Academy, West Point, NY, October 2003.

52. Cassady, C.R. and Pohl, E.A., "Introduction to Repairable System Modeling," IEEE Tutorial Notes, *49th Reliability and Maintainability Symposium,* Tampa, FL, January 2003.

53. Driscoll, P.J. and Pohl, E.A., "Modeling the Decision Quality in Sensor-to-Shooter (STS) Networks for Unattended Ground Sensor Clusters," Technical Report, Operations Research Center of Excellence, United States Military Academy, West Point, NY, June 2002.

54. Kwinn, M.J., Pohl, E.A., Parnell, G., Magras. P.G., and Richkowski, R.F., "Building Achilles Vulnerabilities of the Future Combat System," White Paper, Operations Research Center of Excellence, United States Military Academy, West Point, NY, January 31, 2002.

55. Cassady, C.R. and Pohl, E.A., "Introduction to Repairable System Modeling," IEEE Tutorial Notes, *48th Reliability and Maintainability Symposium*, Seattle, WA. January 2002.

56. Pohl, E.A. and Mykytka, E, "Simulation Modeling for Reliability Analysis," IEEE Tutorial Notes*, 45th Reliability and Maintainability Symposium*, Washington, DC, January 18-21, 1999.

57. Pohl, E.A. and Mykytka, E, "Simulation Modeling for Reliability Analysis," IEEE Tutorial Notes*, 44th Reliability and Maintainability Symposium*, Anaheim, CA, January 19-22, 1998.

58. Pohl, E.A. and Mykytka, E, "Simulation Modeling for Reliability Analysis," IEEE Tutorial Notes*, 43rd Reliability and Maintainability Symposium*, Philadelphia, PA, January13-16, 1997.

59. Pohl, E.A. and Hurst, D.J., "Simulation Modeling for Reliability Analysis," IEEE Tutorial Notes, *42nd Reliability and Maintainability Symposium*, Las Vegas, Nevada, January 22-25, 1996.

60. Pohl, E.A. "An Introduction to Reliability for System Design," IEEE Tutorial Notes, National Aerospace and Electronics Conference (NAECON), Dayton, Ohio, May 1995.

61. Pohl, E.A. "A Stochastic Modeling Framework for Environmental Stress Screening of Multi-Component Systems," Unpublished Dissertation, University of Arizona, Tucson, AZ, 1995 (Advisor: D. Dietrich).

62. Pohl, E.A., "AGM-130A Operational Suitability Data Document," Technical Report, Air Force Operational Test and Evaluation Command, March 1991.

63. Elsass, M.F., Jacobs, J.L., Jurek, W.P., Meinhart, R.A., Nihiser, D.E., Pohl, E.A., and Wilhelm, D.J.,. "Individual Lift Vehicle System Design Study," Volumes I, II, and III, MS Systems Engineering Design Study, Air Force Institute of Technology, 1988 (Advisor: D. Robinson).

Presentations (over 245) (*presenter in bold, * indicates student)*

1. Rivera*, R. S. O., **Parnell, G.,** Pohl, E., Specking, E., Buchanan, R., Richards, J., Gallarno, E., "Smart Base Installations: Decision Analysis to Support the Decision-Making Process During Severe Weather Events," American Society of Engineering Management Conference, October 2022.

2. Barker*, T, Parnell, G. S., **Pohl, E.,** Specking, E., Goerger, S. R., and Buchanan, R. K. "The Impact of Reliability in Conceptual Design – An Integrated Trade-off Analysis," American Society of Engineering Management Conference, October 2022.

3. Barker*, T, **Parnell, G. S**., Pohl, E., Specking, E., Goerger, S. R., and Buchanan, R. K. "The Impact of Reliability in Conceptual Design – An Integrated Trade-off Analysis", MORSS 2022, Quantico, VA, June 2022.

Presentations (cont.)

4. Rivera*, R. S. O., **Parnell, G.**S., Pohl, E.A., & Specking E., Buchanan, R. K. & Richards, J. "Smart Base Installations: Bayesian Network for Decision Analysis to Support the Decision-Making Process During Severe Weather Events," 11th Southeast Symposium on Contemporary Engineering Topics (SSCET) Little Rock, AR, 16 Sep 22

5. Fangio*, B., Parnell, G., **Pohl, E**., Rinaudo, C., Salter, C., Leonard, W., Gallarno, G., Staebell, K, Assessment of Structures and Systems for Enterprise Trade-offs, IISE Annual Conference, Seattle, WA, May 22-24, 2022

6. **Hernandez*, J**., Liao, H., Wells*, H., Sullivan, K., Pohl, E., "Applying Deep Reinforcement Learning to Improve the Reliability of an Infrastructure Network," *60th ESReDA Seminar*, Grenoble France, Virtual, May 5th 2022.

7. **Lange, C**., and **Pohl, E**., "Probabilistic Design and Analysis," Tutorial Presentation, 68th Reliability and Maintainability Symposium, Tucson, AZ, January 2022.

8. **Ruiz*,C**., Pohl, E., Liao, H., "Bayesian Design of D-Optimal Accelerated Degradation Test Considering Random Effects," the Proceedings of the 68th Annual Reliability and Maintainability Symposium, Tucson AZ, January 2022.

9. *Barker, T, **Parnell, G. S**., Pohl, E., Specking, E., Goerger, S. R., and Buchanan, R. K. "Early Life Cycle Prediction of Reliability", INFORMS, Annual Meeting Live and Virtual, Anaheim, CA, 24-27 Oct 21

10. Fangio*, B., **Parnell, G.,** Pohl, E., Staebell, K, Rinaudo, C., Salter, C., Leonard, W., Gallarno, G., Assessment of Structures and Systems for Enterprise Trade-offs (ASSET), INFORMS, Annual Meeting Live and Virtual, Anaheim, CA, 24-27 Oct 21

11. Muniz*, J., Parnell, G, **Pohl, E.,** Wu, J., Gallarno, G., & Buchanan, B., "Development and Assessment of Resilient Telecoms System," INFORMS, Annual Meeting Live and Virtual, Anaheim, CA, 24-27 Oct 21

12. **Barker*, T**., Parnell, G., Pohl, E., Buchanan, R., Richards, J., "Early Lifecycle Prediction for Reliability," *89th Military Operations Research Symposium*, Virtual, June 2021.

13. **Sartini*, J**., Jensen, J., Parnell, G., Pohl, E., Buchanan, R., Leonard, W., "System of Systems Study of Sensors for Border Security," *89th Military Operations Research Symposium,* Virtual, June 2021.

14. Muniz*, J., **Parnell, G**., Pohl, E., Wu, J., "Development and Assessment of Resilient Telecoms Systems," *89th Military Operations Research Symposium*, Virtual, June 2021.

15. **Muniz*, J**., Parnell, G., Pohl, E., Wu, J., "Development and Assessment of Resilient Telecoms Systems,", *2021 Industrial and Systems Engineering Conference* Virtual, May 2021.

16. **Fangio*, B.,** Parnell, G., Pohl, E., Cotterman, K., Rinaudao, C., Salter, C., Leanoard, W., Gallarno, G., Staebell, K., "Assessment of Structures and Systems for Enterprise Tradeoffs (ASSET)," *2021 Industrial and Systems Engineering Conference* Virtual, May 2021.

17. **Tush*, M.,** Pohl, E., Zhang, S., "Industrial Engineering Applications to the Telehealth Industry: A Literature Review," *2020 Industrial and Systems Engineering Conference*, Virtual, November 2020.

18. **Ruiz*, C.,** Liao, H., Pohl, E., "Analyzing Multivariate Degradation Data Involving Random Effects and Statistical Dependency," *2020 Industrial and Systems Engineering Conference*, Virtual, November 2020.

19. **Shallcross*, N**., Parnell, G., Pohl, E., Specking, E., "A Review of Set-Based Design Research Opportunities," *18th Annual Conference on Systems Engineering Research* (CSER), October 2020.

20. Beam, C., **Specking*, E**., Parnell, G., Pohl, E., Gallarno*, G., "Identifying Strategic Stakeholder Engagements with Multiple Objective Decision Analysis," *INFORMS 2020*, Virtual, October 2020.

21. **Specking, E**., Parnell, G., Pohl, E., "Comparing INCOSE and PMI Portfolio Management Practices," *29th Annual INCOSE International Symposium*, July 2020.

Presentations (cont.)

22. Gallarno*, G., Parnell, G., **Pohl, E**., "Trade-off Analytics for Emergency Communications System Design," *88th Military Operations Research Symposium*, Virtual, June 2020.

23. **Shallcross*, N**., Parnell, G., Pohl, E., "Set-Based Design: The State of Practice and Research Opportunities," *88th Military Operations Research Symposium*, Virtual, June 2020.

24. **Shallcross*,** N., Parnell, G., Pohl, E., "Assessing Program Uncertainty to Inform Program Management Decisions with Set-Based Design," *88th Military Operations Research Symposium*, Virtual, June 2020.

25. **Parnell, G., Pohl, E**., "Systems Engineering" Tutorial Principal Financial Group, 4-6 Feb 2020, Des Moines, IA

26. **Ruiz*,** C., Liao, H. and Pohl, E., "Selective Maintenance of Multi-Component Systems with Multiple Failure Modes", 66th Annual Reliability and Maintainability Symposium, Long Beach, CA, January, 2020. **Selected as the QCRE Golomski Best Paper Award Winner**

27. **Ruiz*, C**., Pohl, E. A., and Liao, H., "Selective Maintenance of Multicomponent Systems with Multiple Dependent Failure Modes", INFORMS annual meeting, Seattle, WA, Oct 20-23, 2019.

28. **Shallcross*, N**., Parnell, G., Pohl, E., Buede, D., "Integrating Set-Based Design in the Department of Defense Acquisitions System to Inform Programmatic Decisions," 2019 ASEM International Annual Conference, Philadelphia, PA, October 2019.

29. **Parnell, G., Pohl, E**., "Systems Engineering" Tutorial, Principal Financial Group, 7-9 Aug 2019, Des Moines, IA

30. **Specking*, E**., Parnell, G., Georger, S., Cilli, M., Pohl, E., "Using Set-Based Design to INFORM System Requirements and Evaluate Design Decisions," Proceedings of the 29th Annual INCOSE International Symposium, July 2019.

31. **Parnell, G., Pohl, E**., "Systems Engineering" Tutorial, Principal Financial Group, 6-8 Jun 2019, Des Moines, IA

32. **Ruiz*, C**., Liao H., Pohl, E. A. and Sun, F., "Reliability Estimation from Multiple Degradation Processes with Dependent Random Effects", The 11th International Conference on Mathematical Methods in Reliability, Hong Kong, June 3-7, 2019. **Selected as Conference Best Paper.**

33. **Ruiz*, C.,** Pohl, E. A., and Liao, H., "Bayesian Degradation Modeling for Spare Parts Inventory Management", SMRLO, Beijing, China, May 28-31, 2019.

34. **Ruiz*, C.,** Liao H., and Pohl, E., "Accelerated Reliability Growth Under Random Effects and Explanatory Variables", ISERC, Orlando, FL, May 19-21, 2019.

35. **Pohl, E.,** Parnell, G., and Specking, E. "Trade-off Analytics in System Design," ISERC, Orlando, FL, May 19-21, 2019

36. **Specking*, E.,** Parnell, G., Pohl, E., Buchanan, R., "Evaluating a Set-Based Design Tradespace Exploration Process," 17th Annual Conference on Systems Engineering Research, Washington, DC, April 2019.

37. **Karimi*, S.,** Liao H., and Pohl, E., "A Generic Tool for Estimating Field Reliability Using Aggregate Failure Time Data", 65th Annual Reliability and Maintainability Symposium, Orlando, FL, January 2019. **Selected as Best Student Paper by an SRE Member.**

38. **Ruiz*, C.,** Liao H., and Pohl, E., "A Nonparametric Degradation-Based Method for Modeling Reliability Growth", RAMS, Orlando, FL, January 28-31, 2019.

39. **Lange, C**., and Pohl, E., "Probabilistic Design and Analysis," Tutorial No, 65th Reliability and Maintainability Symposium, Orlando, FL, January 2019.

Presentations (cont.)

40. **Parnell, G., Pohl, E**., "Systems Engineering" Tutorial, Principal Financial Group, 16-18 Dec 2018, Des Moines, IA

41. **Ruiz*,** C., Pohl, E., and Liao H., "Selective Maintenance Of Systems With Multiple Failure Modes", INFORMS annual meeting, Phoenix, AZ, November 4-7, 2018.

42. **Ruiz*, C.,** Liao H., and Pohl, E., "Reliability Demonstration Tests Considering Performance Degradation with Measurement Error", IMA, MIMAR, Manchester, UK, June 13-15, 2018.

43. **Liao H.,** Ruiz*, C., and Pohl, E., "Development of Highly Reliable Products vis Reliability Testing and Bayesian Method", The 3rd Sino-US Research Conference on Quality, Analytics, and Innovations, Xi'An, China, May 27-29, 2018.

44. **Ruiz*, C**., Liao H., and Pohl, E., "Degradation-Based Reliability Growth with Uncertain Effectiveness of Corrections", 2018 Industrial and Systems Engineering Conference, Orlando, FL, May 20-22, 2018.

45. **Wade*, C**., Parnell, G., and Pohl, E., "Designing Engineering Resiliency in Complex Systems Through Set-Based Design." 2018 Industrial and Systems Engineering Conference, Orlando, FL, May 19-22, 2018.

46. **Small*, C**., Parnell, G., and Pohl, E., "Incorporating Resilience and Set Based Design into AoAs - A UAV Case Study" 2018 Industrial and Systems Engineering Research Conference, Orlando, FL, May 19-22, 2018.

47. **Specking*, E**., Parnell, G., and Pohl, E., "Using Simulation for Time-driven Engineering Resilience Quantification." 2018 Industrial and Systems Engineering Research Conference, Orlando, FL, May 19-22, 2018.

48. **Cottam***, B., Parnell, G., and Pohl, E., "Incorporating Resilience into Transportation Planning for Connected and Autonomous Vehicles." 2018 Industrial and Systems Engineering Research Conference, Orlando, FL, May 19-22, 2018.

49. **Ruiz*, C**., Liao H., and Pohl, E., "Bayesian Accelerated Reliability Growth of Complex Systems", RAMS, Reno, NV, January 22-25, 2018.

50. **Wade*, Z**., Goerger, S., Parnell, G., Pohl, E., Specking, E., Kundeti, N., Small, C., Whitcomb, C., "Set-Based Design for Trade-off Analytics of Complex Systems." Military Operations Research: Emerging Techniques Forum, Washington, DC, December 5-6, 2017

51. **Parnell, G**., Goerger, S., Pohl, E. Quantifying Resilience for Engineered Systems, INFORMS 2017, Houston, TX, October 22-25, 2017.

52. **Ruiz, C**., Liao H., and Pohl, E. Bayesian Degradation Based Reliability Growth with Uncertain Effectiveness of Corrections", INFORMS, Houston, TX, October 22-25, 2017.

53. **Pohl, E**., Parnell, G., Goerger, S., "Reimagining Tradespace Definition and Exploration," Proceedings of the American Society for Engineering Management 2017 International Annual Conference, Huntsville, AL, October 18-21, 2017

54. Specking, E. A, **Whitcomb, C**., Parnell, G. S., Goerger, S. R., Pohl, E., Kundeti, N. S. A. Berry, P., "Trade-off Analytics for Set-Based Design, " Design Sciences Series: Set Based Design, , Washington, DC, September 26-27, 2017.

55. Small, C., **Parnell, G**., Pohl, E., Goerger, S., Cottam, C., Specking¬¬, E., Wade, Z., Engineered Resilient Systems with Value Focused Thinking, 27th Annual INCOSE International Symposium (IS 2017), Adelaide, Australia, July 15-20, 2017

56. **Cilli, M.,** Specking, E., Parnell, G., Pohl, E., and Wade Z., "Assessing System Resilience across Multiple Objectives." 85th Military Operations Research Society Symposium, West Point, NY, June 19—22, 2017.

Presentations (cont.)

57. **Parnell, G**., Pohl, E., Goerger, S., Incorporating Resilience in an Integrated AOA Trade-off Analysis, Working Group 27, Analysis of Alternatives, MORS 85th Symposium, West Point, NY, June 19—22, 2017.

58. **Ruiz*, C**., Liao H., and Pohl, E. Data Analysis for Selective Bayesian Accelerated Reliability Growth, ISERC, , Pittsburgh, PA, May 21-24, 2017.

59. **Ruiz*, C**., Liao H., and Pohl, E Data Analysis and Information Aggregation in Bayesian Accelerated Reliability Growth, QCRE Best Student Paper Competition, ISERC, Pittsburgh, PA, May 21-24, 2017.

60. Specking, E., Cilli, M., Parnell, G., Pohl, E., and Wade Z., "Assessing System Resilience Across Multiple Objectives." 2017 Industrial and Systems Engineering Research Conference, Pittsburg, PA, May 20-23, 2017.

61. **Wade*, Z**., Parnell, G., and Pohl, E., "Engineering Resilience in System of Systems using Set-Based Design." 2017 Industrial and Systems Engineering Research Conference, Pittsburg, PA, May 20-23, 2017.

62. **Cottam*, B**., Parnell, G., and Pohl, E., "Long Range Transportation Planning for Autonomous Vehicles using Simulation and Multiple Objective Decision Analysis." 2017 Industrial and Systems Engineering Research Conference, Pittsburg, PA, May 20-23, 2017.

63. **Pohl, E**., Parnell, G., Cottam, C., Small, C., Specking, E., Wade, Z., "Engineering Resilient Systems," Center for Excellence in Logistics and Distribution (CELDi), University of Arkansas, Fayetteville, AR, April 19-20, 2017.

64. Small, C., Parnell, G., **Pohl, E.,** Goerger, S., Cottam, C., Specking, E., Wade, Z., "Engineering Resilience for Complex Systems," 15th Annual Conference on Systems Engineering Research, Redondo Beach, CA, March 23-25, 2017.

65. **Pohl, E.,** Talafuse*, T. "Reliability Growth Modeling Using Grey Systems," Beihang University, Bejing, China, June 2016.

66. **Parnell, G., Pohl, E**., "Trade-Off Analytics: Creating and Evaluating the Tradespace," INCOSE International Symposium, Eden borough, Scotland, July 2016.

67. **Tong, J.,** Nachtmann, H., Pohl, E., "Value Focused Assessment of Cargo Value Decreasing Rates," *2016 Industrial Engineering Research Conference,* Anaheim, CA, May 2016.

68. **Mahadi, M**., Zhang, S., Pohl, E., "Minimizing Over diagnosis in Cancer Screening, *2016 Industrial Engineering Research Conference,* Anaheim, CA, May 2016."

69. **AliGharai*, A**., Pohl, E., "Resource Balancing in Intermodal Freight Network," *2016 Industrial Engineering Research Conference,* Anaheim, CA, May 2016.

70. **AliGharai, A**., Pohl, E., "Designing a Transportation Network for an UAV Delivery Service," *2016 Industrial Engineering Research Conference,* Anaheim, CA, May 2016.

71. **Small*, C.,** Parnell, G., Pohl, E., "Engineering Resilient Systems: Quantifying Resilience in Small UAV Systems," *2016 Industrial Engineering Research Conference,* Anaheim, CA, May 2016.

72. **Hydari*, M**., Sullivan, K., Pohl, E., "Exact Algorithms for resource Allocation in reliability Growth Testing," *2016 Industrial Engineering Research Conference,* Anaheim, CA, May 2016.

73. Hazel*, J., **Parnell, G**., Pohl, E., "A Quantifiable Resiliency Framework Applied to Supply Chain Logistics," *2016 Industrial Engineering Research Conference,* Anaheim, CA, May 2016.

74. **Wade*, Z.,** Parnell, G., Pohl, E., "System resiliency Applied to Network Design," *2016 Industrial Engineering Research Conference,* Anaheim CA, May 2016.

Presentations (cont.)

75. **Talafuse*, T**., Pohl, E., "Continuous Reliability Growth Modeling Using a Grey System Model," *2016 Industrial Engineering Research Conference,* Anaheim CA, May 2016.

76. **Parsa* ,P.,** Rossetti, M., Zhang, S., Pohl, E., "The Value and Cost of CRP Relationships," *2016 Industrial Engineering Research Conference,* Anaheim CA, May 2016.

77. **Lange, C.,** and Pohl, E., "Probabilistic Design and Analysis," IEEE Tutorial Notes, 62nd Reliability and Maintainability Symposium, Tucson, AZ, January 2016.

78. **Pohl, E.,** and T. Yeung, "An Introduction to Optimization Methods in Reliability and Maintainability", IEEE Tutorial Notes, 62nd Reliability and Maintainability Symposium, Tucson, AZ, January 2016.

79. **Talafuse*, T**., Pohl, E., "Application of Markov Decision Processes for Optimization of Reliability Growth," *Institute for Operations Research and Management Science: INFORMS 2015*, Philadelphia, PA, November 2015.

80. **Ali Gharai*, A**., and Pohl, E., "Developing a Transportation Network for UAV delivery," *Institute for Operations Research and Management Science: INFORMS 2015*, Philadelphia, PA, November 2015.

81. Mahadi*,, M., Pohl, E., Rainwater, C., **Zhang, S**., "Minimizing Over Diagnosis in Cancer Screening," *Institute for Operations Research and Management Science: INFORMS 2015,* Philadelphia, PA, November 2015.

82. **Guerra-Garcia*, D.,** Pohl, E., "Modeling Information Reliability and Maintenance: A Systematic Literature Review," *2015 Industrial and Systems Engineering Research Conference*, Nashville, TN, May 2015.

83. **Madadi*, M**., Pohl, E., Zhang, S., "Minimizing Over Diagnosis Risk in Cancer Screening," *2015 Industrial and Systems Engineering Research Conference*, Nashville, TN, May 2015.

84. **Gharari*, A**., Pohl, E., "Developing a Transportation Network for a UAV Delivery Service," *2015 Industrial and Systems Engineering Research Conference*, Nashville, TN, May 2015.

85. **Thomas*, K**., Wang*, F., Zhang, S., Pohl, E., "A Decision Support Tool for Outpatient Scheduling Considering No-Show Behavior," *2015 Industrial and Systems Engineering Research Conference*, Nashville, TN, May 2015.

86. **Parsa*, P**., Rossetti, M., Pohl, E., Zhang, S., "Partner Selection in Continuous Replenishment Programs," *2015 Industrial and Systems Engineering Research Conference*, Nashville, TN, May 2015.

87. **Pohl, E**., "Cost Analysis in Trade-Off Studies," *2015 Industrial and Systems Engineering Research Conference*, Nashville, TN, May 2015.

88. Jiang*, L., **Pohl, E.,** Sullivan, K., "A Framework for Multistage Reliability growth," *2015 Industrial and Systems Engineering Research Conference*, Nashville, TN, May 2015.

89. **Talafuse*, T**., Pohl, E., "Modeling Reliability Growth using Grey Systems," *2015 Industrial and Systems Engineering Research Conference*, Nashville, TN, May 2015.

90. Shbool*, M., **Rossetti, M.,** Pohl, E., "Survey Insights into Physician Preference Item Management", *2015 Industrial and Systems Engineering Research Conference*, Nashville, TN, May 2015.

91. **E. Pohl** and T. Yeung*, "An Introduction to Optimization Methods in Reliability and Maintainability", 2015 IEEE Reliability and Maintainability Symposium, Tampa, FL, January 2015.

92. Pohl, E., Guo, H., **Gerokostopoulos, A**., "Determining the Right Sample Size for Your Test: Theory and Application," Tutorial, 2015 IEEE Reliability and Maintainability Symposium (RAMS), Tampa Bay, FL, January 2015.

Presentations (cont.)

93. **Madadi, M.*,** Pohl, E., Zhang, S., "A Nonlinear Programming Model to Optimize Screening Policies Considering Patients' Adherence," *Institute for Operations Research and Management Science: INFORMS 2014*, San Francisco, CA, November 2014.

94. **Oztanriseven, F.*,** Gedik, R., Nachtmann, H., Pohl, E., "Heuristic Approach to Navigation Dredge Scheduling," *Institute for Operations Research and Management Science: INFORMS 2014*, San Francisco, CA, November 2014.

95. **Heydari, M.*,** Sullivan, K., Pohl, E., "Optimal Allocation of Resources in Reliability Growth Testing," *Institute for Operations Research and Management Science: INFORMS 2014*, San Francisco, CA, November 2014.

96. **Dadashi, M.*,** Pohl, E., Rainwater, C., "Optimizing Information Flow in an Adaptive Network," *Institute for Operations Research and Management Science: INFORMS 2014*, San Francisco, CA, November 2014.

97. **Parsa, P.*,** Rossetti, M., Pohl, E., Zhnag, S., "Partner Evaluation in Continuous Replenishment," *Institute for Operations Research and Management Science: INFORMS 2014*, San Francisco, CA, November 2014.

98. **Pohl,E**., Rossetti, M., "A Case Study Analysis of Inventory Costs and Practices for Operating Room Medical/Surgical Items," Stevens Institute of Technology, Hoboken, NJ, October 2014.

99. **Madadi, M.,** Zhang, S., Pohl, E., "Optimizing Breast Cancer Mammography Screening Policies Considering Women's Adherence Behaviors," *36th Annual Meeting of the Society for Medical Decision Making,* Doral, FL, October 2014.

100. **Pohl, E**., Rossetti, M., "A Case Study Analysis of Inventory Costs and Practices for Operating Room Medical/Surgical Items," *52nd Annual Conference and Exhibition of the Association of Healthcare Resource & Materials Management (AHRMM)*, Orlando, FL, August 2014.

101. Talafuse, T.*, **Pohl, E**., "A Comparison of Heuristic Approaches to the Reliability Redundancy Allocation Problem," *20th Conference of the International Federation of Operational Research Societies,* Barcelona, Spain, July 2014.

102. Parnell, G., **Pohl, E.,** "Physician Preference Items Selection using Multiobjective Decision Analysis," *2014 Industrial and Systems Engineering Research Conference*, Montreal, Canada, May 2014.

103. Madadi*, M., **Zhang, S.,** Pohl. E., "A Nonlinear Programming Model to Optimize Mammogrophy Screening Schedules," *2014 Industrial and Systems Engineering Research Conference*, Montreal, Canada, May 2014.

104. Heydari*, M., **Sullivan, K.,** Pohl, E., "Optimal Allocation of Testing Resources in Reliability Growth*," 2014 Industrial and Systems Engineering Research Conference*, Montreal, Canada, May 2014.

105. **Parnell, G.,** Pohl, E., "When to Use and Not Use 1 to N Lists," *2014 Industrial and Systems Engineering Research Conference,* Montreal, Canada, May 2014.

106. **Pohl, E.,** Guo, H., Gerokostopoulos, A., "Determining the Right Sample Size for Your Test: Theory and Application," Tutorial, 2014 European Applied Reliability Conference, Paris, France, April 2014.

107. Pohl, E., Guo, H., **Gerokostopoulos, A.,** "Determining the Right Sample Size for Your Test: Theory and Application," Tutorial, *2014 IEEE Reliability and Maintainability Symposium (RAMS)*, Colorado Springs, CO, January 2014.

108. **Rossetti, M**., Schbool, M., Varheese, V., Pohl, E., "Investigating the Effect of Demand Planning Aggregation on the Perfromance of an (R,Q) Inventory Control Policy," *2013 Winter Simulation Conference,* Washington, DC, December 2013.

109. **Madadi, M*.,** Pohl, E., Zhang, S., "A Stochastic Nonlinear programming Model of Mammography Screening Policies Considering Adherence," *Institute for Operations Research and Management Science: INFORMS 2013*, Minneapolis, MN, October 2013.

Presentations (cont.)

110. **Gedik*, R**., Rainwater, C., Nachtmann, H., Pohl, E., Mitchel, K., "Constraint Programming Approaches for Optimizing Inland Waterway Infrastructure Maintenance," *Institute for Operations Research and Management Science: INFORMS 2013*, Minneapolis, MN, October 2013.

111. Schbool*, M., **Pohl, E**., Rossetti, M., Varghese, V., "Comparing Education and Training Requirements for Retail and Healthcare Supply Chain Professionals," *American Society of Engineering Management Conference*, Bloomington, MN, October 2013.

112. Hernandez, I., Ramirez-Marquez, J., **Pohl, E**., "Protecting Your Critical Infrastructure through Robust System Design," *American Society of Engineering Management Conference*, Bloomington, MN, October 2013.

113. **Tong*, J**., Nachtmann, H., Pohl, E., "Value Focused Thinking for Inland Waterborne Cargo Prioritization," *American Society of Engineering Management Conference*, Bloomington, MN, October 2013.

114. **Schbool*, M**., Rossetti, M., Pohl, E., "Estimating Inventory Holding and Ordering Costs for Single Item Inventory Models," *2013 Industrial and Systems Engineering Research Conference*, San Juan, Puerto Rico, May 2013.

115. **Schneider*, K.,** Rainwater, C., Pohl, E., "Multi-State Social Network Analysis under Conditional Influence with Limited Resources," *2013 Industrial and Systems Engineering Research Conference*, San Juan, Puerto Rico, May 2013.

116. **Pohl, E., Nachtmann, H.,** Rossetti, M., "Healthcare vs. Retail Supply Chain Gap Analysis," *," 51st Annual Conference and Exhibition of the Association of Healthcare Resource & Materials Management (AHRMM)*, San Diego, CA, July 2013.

117. **Pohl, E.,** Guo, H., Gerokostopoulos, A., "Determining the Right Sample Size for Your Test: Theory and Application," Tutorial, *2013 Applied Reliability Conference*, Minneapolis, MN, June 2013.

118. Ramirez-Marquez, J., Hernandez, I., Schneider*, K., **Rainwater, C**., and Pohl, E., "Reliability Model for Influencing Individuals in the Social Network Setting," *The Annual European Safety and Reliability Conference: ESREL 2012*, Helsinki, Finland, June 2012.

119. **Pohl, E.,** Rossetti, M., Stout*, J., "Heuristic Methods for Hazard Zone Determination," Presented at *Institute for Operations Research and Management Science: INFORMS 2012,* Phoenix, AZ, October 2012.

120. **Schneider*, K.,** Rainwater, C., Pohl, E., "Quantifying Uncertainty Associated with Reliability Analysis in Multi-state Social Networks," Presented at *Institute for Operations Research and Management Science: INFORMS 2012,* Phoenix, AZ, October 2012.

121. **Medal*, H.,** Pohl, E., Rossetti, M., "Imperfect Protection of Multi-State Networks," Presented at *Institute for Operations Research and Management Science: INFORMS 2012,* Phoenix, AZ, October 2012.

122. **E. Pohl**, "The Science of Test: Reliability and Reliability Growth Foundations," Short course presented to Engineers and Managers, at Wright Patterson AFB, Dayton, OH, July 16-20, 2012.

123. **Nachtman, H**., Pohl, E., "Assessing the Feasibility of Inland Waterway Emergency Services," Presented at the *Committee on Maritime Transportation Systems Conference: Diagnosing the Marine Transportation: Measuring Performance and Targeting Improvement*, Washington, DC, June 26-28, 2012.

124. **Nachtman, H**., Mitchell, N., Pohl, E., Rainwater, C., "Improved Resource Allocation for Dredge Scheduling and Procurement," Presented at the *Committee on Maritime Transportation Systems Conference: Diagnosing the Marine Transportation: Measuring Performance and Targeting Improvement*, Washington, DC, June 26-28, 2012.

125. Schneider*, K., Pohl, E., **Rainwater, C.,** Ramirez,-Marquez, J., "Optimization of Influence Allocation within a Social Network," 2012 *Industrial Engineering Research Conference*, Orlando, FL, May 2012.

Presentations (cont.)

126. **Shbool*, M.,** Ulesich*, M., Pohl, E., Rossetti, M., Nachtmann, H., Varghese, V., "Comparing Education and Training Requirements for Retail and Healthcare Supply Chain Professionals," *2012 Industrial Engineering Research Conference*, Orlando, FL, May 2012.

127. **Sattar, T**.*, Rossetti, M., Pohl, E., Varghese, V., "A CPFR Readiness Model for Healthcare Supply Chains," 2012 *Industrial Engineering Research Conference*, Orlando, FL, May 2012.

128. **Magagnotti, M.,** Mason, S., Rainwater, C., Stamm, J., Pohl, E., "On Supply Chain Viability," 2012 *Industrial Engineering Research Conference*, Orlando, FL, May 2012.

129. **St. John*, D.,** Milburn, A., Pohl, E., Rainwater, C., Bright, J.*, "Mitigating Risk in Multi-Modal Perishable Commodity Supply Chain Networks," 2012 *Industrial Engineering Research Conference*, Orlando, FL, May 2012.

130. **Gedik*, R**., Medal, H., Pohl, E., Rainwater, C., Mason, S., "Designing Resilient and Sustainable Supply Chain Networks," 2012 *Industrial Engineering Research Conference*, Orlando, FL, May 2012.

131. **Burbano*, A.,** Rardin,R., Pohl, E., "Understanding Identification Standards Adoption Using a SD Modeling Approach," Poster presented at 2012 *Industrial Engineering Research Conference*, Orlando, FL, May 2012.

132. **Schneider*, K**., Pohl, E., Rainwater, C., "Evaluating the Reliability of Multi-State Social Networks Under Conditional Influence," *Institute for Operations Research and Management Science: INFORMS 2011,* Charlotte, NC, November 2011.

133. **Jayaraman, R**., Pohl, E., Matis, T., "Optimization of Pro-Rata Warranty Models with Burn-In Criteria," *Institute for Operations Research and Management Science: INFORMS 2011,* Charlotte, NC, November 2011.

134. **Varghese, V.,** Pohl, E., Rossetti, M., Nachtmann, H., "Characterizing the Gap Between Healthcare vs. Retail Supply Chain," *Institute for Operations Research and Management Science: INFORMS 2011,* Charlotte, NC, November 2011.

135. **Burbano*, A**., Rardin, R., Pohl, E., "A Systems Dynamics Modeling Approach to Identification Standards Adoption," *Institute for Operations Research and Management Science: INFORMS 2011,* Charlotte, NC, November 2011.

136. **E. Pohl,** "Sunrise Dates for GTIN Standards Fast Approaching", Modern Healthcare Webinar, 4 October, 2011, Fayetteville, AR, 1:00 to 2:00 PM.

137. Miller, M., Reynolds, R., and **Pohl, E.,** "Use of Computer Simulation games for Instructional and Recruiting Purposes in Middle School and Jr. High," *Presented at the ASEE Midwest Section Annual Conference,* "Use of Computer Simulation games for Instructional and Recruiting Purposes in Middle School and Jr. High," Russellville, AR, September 2011.

138. **H. Nachtmann and E. Pohl,** "Life After the EHCR," *49th Annual Conference and Exhibition of the Association of Healthcare Resource & Materials Management (AHRMM)*, Boston, MA, August 2011.

139. **Pohl, E,** Rossetti, M., and Nachtmann, H., "Leveraging Retail Supply Chain Knowledge in Healthcare Logistics," *Association of Healthcare Resource & Materials Management (AHRMM) Academic Forum*, Boston, MA, August 2011.

140. **Burbano*, A.,** Rardin, R., and Pohl, E., "Exploring the Factors Affecting the Identification Standards Adoption Process in the US Healthcare Supply Chain," *2011 PICMET Conference,* Portland, OR, July 2011.

141. **E. Pohl** and C.R. Cassady, "Optimization in Reliability and Maintainability," *The Applied Reliability Symposium,* San Diego, CA, June 2011.

Presentations (cont.)

142. **Burbano*, A**., Rardin, R., and Pohl, E., "Modeling Adoption of Identification Standards in U.S. Hospitals: A systems Dynamics Approach," *2011 Industrial Engineering Research Conference*, Reno, NV, May 2011.

143. **Kilgore*, M.,** Nachtmann, H., and Pohl, E., "How Much is Supply Chain Costing Us?," *2011 Industrial Engineering Research Conference*, Reno, NV, May 2011.

144. **Farrokhvar*, L.,** Nachtmann, H., and Pohl, E., "Measuring the Feasibility of Inland Waterway Emergency Response," *2011 Industrial Engineering Research Conference*, Reno, NV, May 2011.

145. **Farrokhvar*, L.,** Nachtmann, H., and Pohl, E., "Designing and Inland Waterways Emergency Response System Using Goal Programming," *2011 Industrial Engineering Research Conference*, Reno, NV, May 2011.

146. **Kamali*, B**., Mason, S., and Pohl, E., "An Analysis of Special Needs Student Busing," *2011 Industrial Engineering Research Conference*, Reno, NV, May 2011.

147. **Pohl, E.,** Mason, S., and Marhefka*, S., "Team Selection Strategies for Youth Sports," *2011 Industrial Engineering Research Conference*, Reno, NV, May 2011.

148. **Medal*, H.,** Pohl, E., and Rossetti, M., "Locating and Hardening Facilities Subject to Failure," *2011 Industrial Engineering Research Conference*, Reno, NV, May 2011.

149. **Schneider*, K**., Rainwater, C., and Pohl, E., "Investigating actor Importance in a Multi-State Social Network," *2011 Industrial Engineering Research Conference*, Reno, NV, May 2011.

150. S. Sharp* and **E. Pohl,** "Effect of Shelf Life on Perishable Goods Supply Chain Cost," *2011 Industrial Engineering Research Conference*, Reno, NV, May 2011.

151. **Smith*, B**., Nachtmann, H., and Pohl, E., "An Investigation of the Healthcare Supply Chain: Literature Review," *2011 Industrial Engineering Research Conference*, Reno, NV, May 2011.

152. **Varghese, V.,** Pohl, E., Rossetti, M., Nachtmann, H., Apras*, S., and Smith*, B., "Leveraging Retail Supply Chain Knowledge in Healthcare Logistics," *2011 Industrial Engineering Research Conference*, Reno, NV, May 2011.

153. **E. Pohl** and T. Yeung*, "An Introduction to Optimization Methods in Reliability and Maintainability", *57th Reliability and Maintainability Symposium,* Orlando, FL, January 2011.

154. **Schneider*, K.,** Rainwater, C., and Pohl, E., "Assessing Multi-Layered Social Networks Using Reliability Models," 57th *International Reliability and Maintainability Symposium (RAMS)*, Orlando, FL, January 2011.

155. **Burbano*, A.,** Rardin, R., Pohl, E., "Factors Affecting the Identification Standards Adoption Process in the Healthcare Supply Chain," *Institute for Operations Research and Management Science: INFORMS 2010,* Austin, TX, November 2010.

156. **Nguyen*, H**., Rainwater, C., Pohl, E., Mason, S., "Methodologies for Solving the Dynamic Fortification Problems," *Institute for Operations Research and Management Science: INFORMS 2010,* Austin, TX, November 2010.

157. **Medal*, H**., Pohl, E., Rossetti, M., Rainwater, C., "Fortification of Public Sector Facilities: A Risk- Equitable Solution," *Institute for Operations Research and Management Science: INFORMS 2010,* Austin, TX, November 2010.

158. **Smith*, B.K**., Nachtmann, H., and Pohl, E.A., "A Balanced Scorecard Approach to Ensuring Healthcare Supply Chain Performance," *31st American Society of Engineering Management Conference*, Rogers, AR, October 2010.

159. M. Blinzer* and **E. Pohl,** "The Role of Information Technology Professionals in Total Quality Management," *31st American Society of Engineering Management Conference*, Rogers, AR, October 2010.

Presentations (cont.)

160. **E. Pohl** and C.R. Cassady, "Optimization in Reliability and Maintainability," *The Applied Reliability Symposium,* Reno, NV, June 2011.

161. Salgado*, M., Menezes, B., and **Pohl, E.A.,** "Developing Expert Opinion Based Models for Critical Infrastructure Risk Assessment and Vulnerability Analysis," *Industrial Engineering Research Conference 2010*, Cancun, Mexico, June 2010.

162. **Smith*, B.K**., Nachtmann, H., and Pohl, E.A., "Kaizen Event Effectiveness via Healthcare Logistics Data Standardization," *Industrial Engineering Research Conference 2010*, Cancun, Mexico, June 2010.

163. **Medal*, H.,** Sharp, S., Nguyen, H., Pohl, E., and Mason, S., "Multi-Modal Supply Chain Network Analysis Under Disruptions," *Industrial Engineering Research Conference 2010,* Cancun, Mexico, June 2010.

164. **Medal*, H.,** Rossetti, M., and Pohl, E., "Donations Management in the Humanitarian Supply Chain," *Industrial Engineering Research Conference 2010,* Cancun, Mexico, June 2010.

165. **Townsley*, J.,** Pohl, E. and Nachtmann, H., "Using System Dynamics to Analyze Healthcare Reform," *Industrial Engineering Research Conference 2010,* Cancun, Mexico, June 2010.

166. Madadi, A., Kurz, M., Taaffe, K., Mason, S., Pohl, E., Root, S., and **Sir, M.,** "Managing Disruptions in Healthcare Supply Chain Networks," *Industrial Engineering Research Conference 2010,* Cancun, Mexico, June 2010.

167. **Burbano*, A**., Rardin, R., and Pohl, E., "Dynamics of Identification Standards Adoption in U.S. Healthcare Supply Chain," *Industrial Engineering Research Conference 2010,* Cancun, Mexico, June 2010.

168. **Pohl, E.,** Guzman*, M., "A Probabilistic Programming Approach in the Analysis of Social Networks," *Institute for Operations Research and Management Science: INFORMS 2009,* San Diego, CA, October 2009.

169. **Kamali*, B**., Mason, S., Pohl, E., "Network Design Analysis for Special Needs Student Services," *Institute for Operations Research and Management Science: INFORMS 2009,* San Diego, CA, October 2009.

170. **Smith*, B.,** Nachtmann, H., Pohl, E., "Opportunities for Cost and Quality Improvements in Healthcare Logistics Revealed," *Institute for Operations Research and Management Science: INFORMS 2009,* San Diego, CA, October 2009.

171. **Townsley*, J.R.,** Smith, B.K., and Pohl, E.A., "Managing Financial Risk in a Clinical Setting Using System Dynamics," 30th *American Society of Engineering Management Conference*, Springfield, MO, October 2009.

172. **Smith*, B.K.,** Nachtmann, H., and Pohl, E.A., "The Need for Standardization in the Healthcare Supply Chain," (Best Paper Nominee) 30th *American Society of Engineering Management Conference*, Springfield, MO, October 2009.

173. Balya*, R. and **Pohl, E.A.,** "Resource Allocation in a Project Management Setting Based on Schedule Reliability," 30th *American Society of Engineering Management Conference*, Springfield, MO, October 2009.

174. **McCallion**, E.A.,** Taylor**, N.D., Mason, S., and Pohl, E.A., "Analysis of Transportation Network Design Strategies for Forced Transfer Bussing," *Industrial Engineering Research Conference*, Miami, FL, May 31 – June 3, 2009.

175. **Medal*, H.,** Rossetti, M., Varghese, V., and Pohl, E., "A Software Tool for Intermittent Demand Analysis," *Industrial Engineering Research Conference*, Miami, FL, May 31 – June 3, 2009.

176. **Smith*, B.K.,** Nachtmann, H., Pohl, E., and Townsley*, J.R., "Management Initiatives in Healthcare Logistics," *Industrial Engineering Research Conference (invited paper)*, Miami, FL, May 31- June 3, 2009.

177. **Mason, S**., Nachtmann, H., Pohl, E., "Integrated Distribution Planning and Forecasting for Medical Logistics," *Institute for Operations Research and Management Science: INFORMS 2008,* Washington, DC, October 2008.

Presentations (cont.)

178. **Pohl, E.,** Guzman*, M., "Analysis of Clandestine Networks Using Reliability Properties in Multi-State Systems," *Institute for Operations Research and Management Science: INFORMS 2008,* Washington, DC, October 2008.

179. **Pohl, E. and Driscoll, P**., "Tutorial: Decision Making in Systems Engineering", *Industrial Engineering Research Conference 2008,* Vancouver, BC, May 2008.

180. **Miman*, M**. and Pohl, E. "Exponential Weighted Moving Averages for Nonconformities with Short Runs", *Industrial Engineering Research Conference 2008,* Vancouver, BC, May 2008.

181. **Garman*, S**. and Pohl, E. "Team Assignment Strategies in Youth Sports: An Initial Investigation," *Institute for Operations Research and Management Science: INFORMS 2007,* Seattle, WA, November 2007.

182. **Medal*, H**. and Pohl, E., "Multi-Objective Simulation Optimization: A Preliminary Investigation," *Institute for Operations Research and Management Science: INFORMS 2007*, Seattle, WA, November 2007.

183. **Pohl, E.** and Gade*, D. "Reliable Supply Chains Considering Facility failures: A Stochastic Programming Approach," *Institute for Operations Research and Management Science: INFORMS* International, Puerto Rico, June 2007.

184. **Pohl, E. and Dietrich, D**. "Environmental Stress Screening," Tutorial presentation, *Applied Reliability Symposium*, San Diego, CA, June 2007.

185. **Miman*, M.** and Pohl, E., "Contingency Logistics Supply Chain Modeling and Reliability Assessment," *Society of Risk An*alysis, Baltimore, MD, December 2006.

186. **Pohl, E**. and Swaminathan*, R., "Simulation-Optimization of Control Chart and Preventive Maintenance Policies," *Institute for Operations Research and Management Science: INFORMS 2006*, Pittsburgh, PA, November 2006.

187. **Gade*, D**. and Pohl, E., "Reliable Supply Chain Design Considering Failures," *Institute for Operations Research and Management Science: INFORMS 2006*, Pittsburgh, PA, November 2006.

188. **Gade*, D.** and Pohl, E., "Reliable Supply Chain Design Considering Failures," *INFORMS Military Application Society Conference on Homeland Security*, Mystic, CT, July 2006.

189. **Parnell, G.** and Pohl, E.A., "Multi-Objective Decision Analysis Techniques for Systems Engineering," *16th Annual International Council on Systems Engineering Symposium*, Orlando, FL, July 2006.

190. **Pohl, E.A.** and Cassady, C.R., "Repairable Systems Model," *The Applied Reliability Symposium*, Orlando, FL, June 2006.

191. **Pohl, E.A.,** "Overview of U of A Research Efforts in Military Logistics," AFOSR, AFRL/HEAL, USTRANSCOM, Air Mobility Command, St. Louis, MO, March 2006.

192. **Miman*, M.** and Pohl, E.A., "Uncertainty Assessment for Availability: Importance Measures," *The International Reliability and Maintainability Symposium (RAMS)*, Newport Beach, CA, January 2006.

193. **Pohl, E.A**., Driscoll, P.J., and Nachlas, J., "Information Uncertainty in a Sense and Respond Logistics Architecture," Presented at the *IFORS Tri- Annual Conference*, Honolulu, HI, July 2005.

194. **Pohl, E.A**., "Risk Analysis for Rural Transportation," MBTC Professional and Academic Advisory Board, Fayetteville, AR, October 2005.

195. **Miman*, M**. and Pohl, E.A., "Resource Allocation for Improving System Availability Estimates," *Institute for Operations Research and Management Science: INFORMS 2005*, San Francisco, CA, November 2005.

Presentations (cont.)

196. **Yeung*, T.,** Cassady, C.R., Pohl, E., "Allocating and Deploying Maintenance Resources for a Set of Multi-State Systems," *Institute for Operations Research and Management Science: INFORMS 2005*, San Francisco, CA, November 2005.

197. **Maillart, L.M., and E.A. Pohl** "Introduction to Markov Chain Modeling and Analysis", *The International Reliability and Maintainability Symposium (RAMS),* Alexandria, VA, January 2005.

198. **Pohl, E.A.** and Driscoll, P.J., "The Impact of Uncertainty in Reliability System Design," *Institute for Operations Research and Management Science: INFORMS 2004*, Denver, CO, October 2004.

199. **Driscoll, P.J.,** Pohl, E.A., and Tortorella, M., "Information Reliability and Uncertainty in NCO Systems," *Institute for Operations Research and Management Science: INFORMS 2004*, Denver, CO, October 2004.

200. McGinnis, M., **Pohl, E**., Parnel, G, Kwinn, M., McFadden, W., and McCarthy, D., "Meeting the Needs of the Customer: Systems Engineering at the United States Military Academy," *Presented at the International Conference on Systems Engineering*, Las Vegas, NV, September 2004.

201. **Cassady, C.R.,** Iyoob*, I., Pohl, E. A., and Schneider*, K., "A Generic Model of Equipment Availability Under Imperfect Maintenance," *Presented at the Fourth International Mathematical Methods in Reliability Conference,* Santa Fe, NM, June 2004.

202. **Pohl, E.,** Cassady, C.R., and Jin, S., "Managing Availability Improvement Efforts with Importance Measures and Optimization," *Fourth International Mathematical Methods in Reliability Conference,* Santa Fe, NM, June 2004.

203. Gorak, M., Kwinn, M., **Pohl, E**., "Lead-the-Fleet: Transitioning Army Aviation maintenance program from a flight time based system to an operational usage based system," *Military Operations Research Society Symposium 72nd MORSS*, Monterey, CA, June 2004.

204. Kwinn, M. J., Brence, J., Morel, T., **Pohl, E**., and Deckro, R., "Assessment in Afghanistan using Value Focused Thinking," *Military Operations Research Society Symposium, 72nd MORSS*, Monterey, CA, June 2004.

205. **Kwinn, M.J.,** Pohl, E., Deckro, R., and Ragsdale, D., "Using Quantitative Means to Measure Success and Identify Directions in Effects Based Operations," *Military Operations Research Society Symposium, 72nd MORSS*, Monterey, CA, June 2004.

206. **Driscoll, P.J**., E. Pohl, and Tortorella, M., "NCW Conceptual Framework and Uncertainty," *Joint International conference of the Canadian Operations Research Society (CORS) and the Institute for Operations Research and the Management Sciences (INFORMS)*, Banff, Canada, May 2004.

207. Kaczynski, W., Foote, B., and **Pohl, E.,** "A Utility Based Optimal Metric Coordinating mission Capability and Supply Level," *2004 Industrial Engineering Research Conference*, Houston, TX, May 2004.

208. Gorak, M., Kwinn, M., and **Pohl, E**., "Lead the Fleet: Transitioning the Army Maintenance Program from a flight time based system to an operational usage based system," *Proceedings of the 2004 Industrial Engineering Research Conference*, Houston, TX, May 2004.

209. **Kwinn, M.,** Ragsdale, D., Brence, J., Morel, T., Pohl, E., Goldman, S., Tollefson, E., Gorak, M., and Deckro, D., "Operation Enduring Freedom Assessment System Development," *Proceedings of the US South Korean Defense Department's Operations Research Symposium*, Seoul, South Korea, April 2004.

210. **Pohl, E.A., Kwinn, M.,** and Deckro, D., "Eliciting Information from the Decision Maker: Interfacing with Afghanistan Operations Decision Makers," *Military Operations Research Workshop on Decision Aids/Support to Joint Operations Planning*, Omaha, NE, November 2003.

Presentations (cont.)

211. Pohl, E.A., **Kwinn, M.,** and Deckro, D., "Establishing an Operational Assessment Decision Support Tool for Ongoing Operations," *8th United States/German Operations Research Symposium*, Dresden, Germany, November 2003.

212. Kwinn, M., **Pohl, E.A.,** and Parnell, G., "Rapid Framework Development and Analysis Using Technology," *The 2003 International Engineering Management Conference,* Albany, NY, November 2003.

213. **Cassady, C.R**., Orman, S., and Pohl, E.A., "Exploring the Effects of Cannibalization on Fleet Performance," *2003 Institute for Operations Research and Management Science (INFORMS) Conference*, Atlanta, GA, October 2003.

214. Pohl, E.A., **Cassady, C.R.,** and Kwinn, M., "A Selective Maintenance Model for Serial Manufacturing Systems Involving Multiple Maintenance Actions," *The17th International Conference on Production Research*, Blacksburg, VA, August 2003.

215. **Pohl, E.A**., Ruflin, S., Murdock, W.P., and Cassady, C.R., "Mean Residual Life Analysis of Aging Systems," *2003 Industrial Engineering Research Conference*, Portland, OR, May 2003.

216. Foote, B.L., **Pohl, E.A**., and Glen, A.G., "Estimation of Parameters for Complex Circuits having Masked Data," *2003 Industrial Engineering Research Conference*, Portland, OR, May 2003.

217. **Pohl, E.A.,** "Threats, Security, and Opportunities for IE/OR," Presented to the Industrial Engineering Faculty, Wright State University, Dayton, OH, January 2003.

218. **Pohl, E.A**., "Threats, Security, and Opportunities for IE/OR," Presented to the Industrial Engineering Faculty, Auburn University, Auburn, AL, February 2003.

219. **Pohl, E.A.,** "Threats, Security, and Opportunities for IE/OR," Presented to the Industrial Engineering Faculty, University of Arkansas, Fayetteville, AR, February 2003.

220. **Pohl, E.A**., "Threats, Security, and Stochastic OR," panelist and presenter. INFORMS 2002, San Jose, CA, November 2002.

221. **Driscoll, P.J.** and Pohl, E.A., "Modeling the Decision Quality of Sensor to Shooter (STS) Networks," *7th International Conference on Information Quality*, Boston, MA, November 2002.

222. **Driscoll, P.J.** and Pohl, E.A., "A Mathematical Programming Approach to Reliability Systems Design," Presented at *the International Federation on Operations Research Symposium* (IFORS), Edinburgh, Scotland, July 2002.

223. Driscoll, P.J. and **Pohl, E.A.,** "Modeling the Decision Quality of Sensor to Shooter (STS) Networks," Presented at the *70th Military Operations Research Symposium*, Ft. Leavenworth, KS, June 2002.

224. **Durkee*, D.P**, Pohl, E.A., and Mykytka, E.F., "Input Data Characterization Factors Affecting Availability Estimation Accuracy," Presented at *the 2002 Reliability and Maintainability Symposium*, Seattle, WA, January 2002.

225. **Cassady, C.R.,** Murdock, W., and Pohl, E., "Selective Maintenance Modeling," Presented at the *2000 Industrial Engineering Research Conference,* Cleveland, OH, May 2000.

226. **Pohl, E. and Jarvis, W**., "Resource Planning and Coordination for RDT&E Programs Subject to Periodic Budget Constraints," Presented at the *Annual DoD Cost Analysis Symposium*, Williamsburg, VA, January 2000.

227. Reineke*, D.M., **Pohl, E.A.,** and Murdock, W.P., "Cost Analysis & Maintenance Policies for a Series System with Highly Censored Data" *Spring INFORMS*, Cincinnati, OH, May 1999.

228. **Murdock, W.P**., Boerigter*, D., Pohl, E.A., and Moore, A.H., "Robust Parameter Estimation of the Mixed Generalized Gamma Distribution," *Spring INFORMS*, Cincinnati, OH, May 1999.

Presentations (cont.)

229. **Cassady, C.,** Nachlas, J., Pohl, E., and Murdock, W., "Modeling Issues in Fleet Maintenance Optimization," presented at the *1999 Industrial Engineering Research Conference*, Phoenix, AZ, May 1999.

230. **Murdock, W.P.,** Reineke, D.M., Pohl, E.A., and Rehmert, I., "Improving Availability and Cost Performance for Complex Systems with Preventive Maintenance," *45th International Reliability and Maintainability Symposium (RAMS)*, Washington, DC, January 1999.

231. Tran*, T., Murdock, W.P., and **Pohl, E.A.,** "Bayesian Analysis for System Reliability Inferences," *45th International Reliability and Maintainability Symposium (RAMS)*, Washington, DC, January 1999.

232. **Durkee*, D.,** Pohl, E.A., and Mykytka, E., "Input Data Characterization Factors for Complex Systems Affecting Availability Estimation Accuracy," Presented at the *66th Military Operations Research Society Symposium*, Monterey, CA, June 1998.

233. **Pohl, E.A**., Ruflin*, S., and Murdock, W.P., "Non-Parametric Mean Residual Life Analysis for Highly Censored Data," Presented at the *1998 Industrial Engineering Research Conference*, Banff, Canada, May 1998.

234. **Pohl, E.A**., Ruflin*, S., and Murdock, W.P., "Optimum Preventive Maintenance Policies for Systems with Highly Censored Data," Presentation at Mississippi State University, Department of Industrial Engineering, Starkville, MS, April 1998.

235. Reineke*, D.M., **Pohl, E.A.,** and Murdock, W. P., "Survival Analysis and Maintenance Policies for a Series System Using Censored Data," Presented at the *1998 Reliability and Maintainability Symposium (RAMS)*, Anaheim, CA, January 1998.

236. Mumford*, D.M, **Pohl, E.A**., and Moore, A.H., "Minimum Distance Estimation for a Mixed Weibull Distribution," Presented at the *1997 Fall INFORMS conference*, Dallas, TX, October 1997.

237. **Pohl, E.A**., Durkee*, D., and Mykytka, E., "Sensitivity of Availability Estimates to Input Data Characterization," Presented to the Local ASA Chapter, Dayton, OH, April 1997.

238. **Durkee*, D**., Pohl, E.A., and Mykytka, E., "Sensitivity of Availability Estimates to Input Data Characterization," Presented at the *3rd ISSAT Conference on Reliability and Design*, Anaheim, CA, March 1997.

239. **Pohl, E.A. and Mykytka, E**, "Simulation Modeling for Reliability Analysis," Tutorial, *43rd Reliability and Maintainability Symposium*, Philadelphia, PA, January 1997.

240. **Williams* J.G.** and Pohl, E.A., "Missile Reliability Analysis with Censored Data," *43rd International Reliability and Maintainability Symposium*, Philadelphia, PA, January 1997.

241. Cain, J.P., **Pohl, E.A.,** and Moore, A.H. "Minimum Distance Estimation of Mixture Proportions," Presented at the *1996 Spring INFORMS Conf*erence, Washington, DC, May 1996.

242. **Pohl, E.A.** and Moore, A.H., "Reparameterization of the Weibull Distribution with Shape Parameter Known," Presented at the *1996 Spring INFORMS Conference*, Washington, DC, May 1996.

243. **Pohl, E.A**. and Dietrich, D.L., "Cost Effective ESS Strategies for Repairable Systems," Presented at the *Fall 1996 INFORMS Conference*, New Orleans, LA, October 1996.

244. **Pohl, E.A. and Hurst, D.J.,** "Simulation Modeling for Reliability Analysis," Tutorial, *42nd Reliability and Maintainability Symposium*, Las Vegas, NV, January 1996.

245. **Pohl, E.A.** and Dietrich, D.L., "Environmental Stress Screening for Multi-Component Systems with Weibull Failure Times and Imperfect Failure Detection," *41st International Reliability and Maintainability Symposium*, Washington, DC, January 1995.

Presentations (cont.)

246. **Pohl, E.A.,** "An Introduction to Reliability for System Design," Tutorial, *National Aerospace and Electronics Conference (NAECON)*, Dayton, Ohio, May 1995.

247. **Pohl, E.A**. and Nicholson, J., "A Comparative Study of Discrete Reliability Growth Models," Presented at the *Joint National Operations Research Society of America and the Institute of Management Science Conference*, Orlando, FL, October 1991.

248. **Pohl, E.A**., Robinson, D.G., and Jacobs, J., "Quality for System Design," Presented at the IEEE *National Aerospace and Electronics Conference (NAECON)*, Dayton, OH, May 1989.

PROFESSIONAL ACTIVITIES

Fellow, Institute of Industrial and Systems Engineers (IISE)
Fellow, Society of Reliability Engineers (SRE)
Fellow, American Society of Engineering Management (ASEM)
Diplomate, Society of Health Systems (SHS)
Senior Member, Institute for Electrical and Electronic Engineers (IEEE)
Senior Member, American Society for Quality (ASQ)
Member, International Council on Systems Engineering (INCOSE)
Member, Institute for Operations Research and Management Science (INFORMS)
Member, American Society for Engineering Education (ASEE)
Member, Military Operations Research Society (MORS)
Member, Society of Risk Analysis (SRA)

Editor, *Journal of Military Operations Research*, 2022 - Present
Co-Editor, *Engineering Management Journal*, 2018 – 2022
Editorial Board, *Systems*, 2018 – Present
Editorial Board, *Journal of Military Operations Research*, 2018 - 2021
Editorial Board, *IEEE Transactions on Engineering Management*, 2018 – Present
Editorial Board, *Journal of Critical Infrastructure Policy*, 2019 to Present
Associate Editor, *IEEE Transactions on Reliability*, 2003 – 2008, 2014- present
Associate Editor, *Journal of Quality Technology and Quantitative Management,* 2013- Present
Associate Editor, *Journal of Risk and Reliability*, 2005 - Present
Associate Editor, *Journal of Military Operations Research*, 2002 - 2018
Department Editor, Process Optimization, *IIE Transactions*, 2004 – 2005
Special Issue Editor, *Systems*, *Special Issue on Model Based Systems Engineering,* 2022 - 2023
Special Issue Editor, *IIE Transactions, Special Issue on Homeland Security*, 2004 - 2006

Served as a referee for *IEEE Transactions on Reliability, IIE Transactions on Quality and Reliability Engineering, Journal of Systems Engineering*, *Journal on Finite Elements in Analysis and Design*, *Journal of Construction Engineering, Journal of Quality and Reliability International*, the *Journal of Military Operations Research*, the *Journal of Defense Modeling and Simulation*, *Computers and Industrial Engineering, Quality Engineering,* the *Engineering Economist,* the *European Journal of Operational Research,* the *Annals of Operations Research, Naval Research Logistics, OMEGA, Systems Man and Cybernetics,* the *International Reliability and Maintainability Symposium*, the *International Council on Systems Engineering Symposium.*

TEACHING EXPERIENCE

University of Arkansas (year taught) (text)(course evaluation)

Heuristic Optimization (2006/2011/2013/2018) (4.8, 4.7, 4.63/5.0)
Risk Analysis (2006/2008/2009/2011/2013) (*Modeling, Assessing and Managing Risk),* Haimes) (4.6, 4.2, 4.3, 4.1, 5.0/5.0)
Nonlinear Programming (2005/2006/2007/2009/2012/2014/2017/2019) (*Engineering Optimization, Rao)* (4.6, 4.8, 4.6, 4.7, 4.5, 5.0/5.0)
Reliability Engineering (2005/2007/2012) (*Intro to Reliability and Maintainability Eng.,* Ebeling) (4.3,4.7/5.0)
Systems Engineering and Management (*Creative Problem Solving and Design*, Lumsdaine, Lumsdaine, Shelnutt*)* (2005/2006/2007/2008/2012/2013/2015) (4.0, 4.2, 4.4, 4.2, 4.3, 4.5, 4.3 /5.0)
Industrial Statistics (2004/2005/2006/2007/2011/2012/2013/2014/2015) (*Applied Statistics and Probability for Eng.*, Montgomery et al.) (4.1, 4.1, 3.9, 3.8, 4.0, 4.3, 4.2, 4.3/5.0)
Advanced Quality Control (2004) (*Intro to Statistical Quality Control*, Montgomery) (4.9/5.0)
Cost Estimation (2006/2009) (*Cost Analysis & Estimating for Engineering and Management*, Ostwald)
Project Management (2007/2008/2011) (*Project Management*, Merideth and Mantel) (3.9, 3.9/5.0)
Quality Engineering and Management (2008/2011) (*Statistical Quality Control,* Montgomery) (3.8/5.0)
Maintenance Management (2008) (*Productivity and Reliability-Based Maintenance Management,* Stephens)
Quality Management (2007/2008/2009/2010) (*Managing for Quality & Performance Excellence*, Evans & Lindsey)
Supply Chain Management (2008/2009/2010/2011) (*Supply Chain Management*, Chopra & Meindl)
Global Competition (2010/2011/2012/2013/2014) (*Competing in the Global Marketplace*, Hill)(4.9, 5.0, 5.0/5.0)
Global Engineering and Innovation (2014, 2016, 2022, 2023,) (5.0/5.0, 5.0/5.0, 4.86/5.0)
Senior Design (2014/2015/2016)
Lean Six Sigma (2019/2020) (4.69/5.0, 4.51/5.0))
Leadership (2019/2020/2021/2022) (4.87/5.0)

United States Military Academy

Decision Support Systems (2001) (*Decision Support Systems & Intelligent Systems,* Turbon et al.)
Stochastic Processes (2002/2003) (*Probability Models*, Ross, *Applied Probability Modeling*, Mingh)
Intro to Engineering Design and Systems Management (2002) (*Systematic Systems Approach*, Athey)
Senior Capstone Design (2002/2003)

Air Force Institute of Technology

Dynamics (1995)
System Optimization (1995/1996/1997/1998) (*Engineering Optimization*, Rao)
Optimizing Engineering Designs (1997) (*Optimizing Engineering Designs*, Krottmaier)
Decision Analysis (1997) (*Making Hard Decisions*, Clemen)
Decision Analysis Practice (1996) *(Making Hard Decisions*, Clemen)
Laboratory Instrumentation (1996) (Personal Notes)
Systems Design and Analysis (1995) (*Systematic Systems Approach*, Athey)
Space Systems Integration and Design (1995) (*Space Mission Analysis and Design* Larson & Wertz)
Reliability for System Design (1996/1997) (*Reliability*, Leemis*)*
Reliability Engineering (1997) (*System Reliability Theory*, Hoyland et al.)
Advanced Topics for Reliability (1994/1997) (*Reliability Methods in Mechanical Design,* Wirsching)
Life Cycle Cost and Economic Analysis (1998) (*Life Cycle Cost and Economic Analysis,* Fabrycky)

University of Dayton (Adjunct Faculty Member, Engineering Management and Systems)

Probabilistic Models II (1995) (*Intro to Probability and Statistics for Engineers*, Milton & Arnold)
Production Engineering (1996) (*Modeling Manufacturing Systems*, Askin)
Operations Research I (1997) (*Introduction to Operations Research*, Hillier & Lieberman)
Operations Research II (1996/1997) (*Introduction to Operations Research*, Hillier & Lieberman)
Optimization I (1997) (*Introduction to Optimum Design*, Arora)

The George Washington University (Adjunct Faculty Member, Engineering Management)

Introduction to Systems Engineering (1999) (*Systems Engineering and Project Management*, Eisner)

George Mason University (Adjunct Faculty Member, Systems Engineering)

Systems Engineering Design & Integration (2000/2001) (*The Engineering Design of Systems,* Buede)
Stochastic Methods in Operations Research (2000) (*Operations Research*, Winston)

FUNDED RESEARCH (53 Research Grants exceeding $10.5 M)

Title: Integrated Multi-Objective/Multi-Discipline Jet Engine Design Optimization
Agency: Propulsion Laboratory, WL/POTA
Period of Support: October 1996 - September 1999
Amount: $65, 552
Role: Co- PI -25% responsibility

Title: Vibration Analysis for Bladed Disk Assemblies
Agency: AFOSR
Period of Support: October 1998 -September 1999
Amount: $24,500
Role: Co- PI -20% responsibility

Title: AMRAAM Survivability Analysis
Agency: Aeronautical Systems Center/YA
Period of Support: October 1997 to December 1998
Amount: $56,480
Role: PI -100% responsibility

Title: Future Combat System Vulnerability Analysis
Agency: DARPA
Period of Support: October 2002 to September 2003
Amount: $75,000
Role: Co- PI -40% responsibility

Title: Embedded Training Decision Support
Agency: United States Army Tank Command
Period of Support: October 2003 to September 2004
Amount: $50,000
Role: PI -50% responsibility

Title: Risk Analysis for Cost and Schedule Estimation
Agency: Office of the Secretary of Defense/Program Analysis and Evaluation
Period of Support: October 2003 to December 2003
Amount: $20,000
Role: PI -100% responsibility

Title: Lead the Fleet Test Design and Analysis
Agency: United States Army/ATEC
Period of Support: October 2003 to September 2004
Amount: $125,000
Role: Co- PI -25% responsibility

Title: Maintenance Decision-Making under Prognostic and Diagnostic Uncertainty
Agency: AFRL via TLI
Period of Support: September 2003 - January 2005
Amount: $120,907
Role: Co- PI - 25% responsibility

Title: Multi-State Selective Maintenance Decisions
Agency: AFRL via TLI
Period of Support: September 2003 - January 2005
Amount: $120,756
Role: Co-PI - 25% responsibility

FUNDED RESEARCH (cont.)

Title: Quantifying the Impacts of Improvements to Prognostic and Diagnostic Capabilities
Agency: AFRL via TLI
Period of Support: September 2003 - January 2005
Amount: $110,647
Role: Co-PI - 25% responsibility

Title: Information Product Quality in Network Centric Operations
Agency: Office of the Secretary of Defense, Office of Force Transformation
Period of Support: July 2004 to May 2005
Amount: $150,000
Role: Co- PI - 30% responsibility

Title: Modeling, Assessing, and Managing Risk in Transportation Systems
Agency: MBTC
Period of Support: August 2004 to July 2007
Amount: $71,691
Role: PI- 100% responsibility

Title: C/KC-135 Weapon System Stockage Policy Analysis
Agency: National Science Foundation Grant No. EEC-0214478, Sub Project
Period of Support: August 2004 to March 2006
Amount: $135,629
Role: PI – 50% responsibility

Title: Decision Support for Logistics Response to Chemical, Biological, or Radiological Attacks
Agency: Defense Threat Reduction Agency/Air Force Research Lab
Period of Support: January 2006 - July 2007
Amount: $220,000
Role: PI - 35 % responsibility

Title: Adaptive Logistics Network Design and Optimization
Agency: Air Force Office of Scientific Research (AFOSR) via CELDi
Period of Support: January 2005 - December 2006
Amount: $267,775
Role: Co-PI - 25% responsibility

Title: Modeling and Simulation Based Framework for Sense and Respond Logistics Concepts
Agency: AFOSR via CELDi
Period of Support: January 2005 - December 2006
Amount: $303,830
Role: Co-PI - 20% responsibility

Title: A Human Centered Approach to Sense and Respond Logistics
Agency: AFOSR
Period of Support: April 2005 - January 2006
Amount: $160,701
Role: PI - 50% responsibility

Title: Homeland Security for Rural Transportation Networks
Agency: MBTC
Period of Support: August 2006 - June 2007
Amount: $98,189
Role: Co-PI - 45% responsibility

FUNDED RESEARCH (cont.)

Title: Routing Models for Rural Transportation Networks with Time-Varying Constraints
Agency: MBTC
Period of Support: August 2006 - December 2007
Amount: $100,147
Role: Co-PI - 25% responsibility

Title: Integration of Geographical Information Systems (GIS) and Logistics Planning Methods for Arkansas Rural Transportation Emergency Planning
Agency: MBTC
Period of Support: January 2006 - December 2007
Amount: $72,914
Role: Co-PI - 40% responsibility

Title: Adaptive Maintenance in a Sense-and-Respond Logistics Environment
Agency: AFOSR via CELDi
Period of Support: July 2006 - June 2008
Amount: $148,727
Role: CO-PI - 30% responsibility

Title: Design and Analysis of Operationally Robust Forecasting Techniques
Agency: AFOSR via CELDi
Period of Support: July 2006 - January 2008
Amount: $148,727
Role: Co-PI - 40% responsibility

Title: Rural Transportation Emergency Preparedness Plans
Agency: MBTC
Period of Support: August 2007 - June 2008
Amount: $106,870
Role: Co-PI - 45% responsibility

Title: An Intermittent Demand Forecasting Tool
Agency: CELDi
Period of Support: August 2007 - January 2008
Amount: $42,476
Role: Co-PI - 40% responsibility

Title: Emergency Response via Inland Waterways
Agency: MBTC
Period of Support: August 2008 - June 2009
Amount: $60,567
Role: Co-PI - 45% responsibility

Title: Improving Forced Transfer and Special Needs Bussing in Rural Schools
Agency: MBTC
Period of Support: August 2007 - June 2008
Amount: $79,760
Role: Co-PI - 40% responsibility

Title: Identifying Opportunities for Cost and Quality Improvement in Healthcare Logistics
Agency: CIHL
Period of Support: August 2007 - June 2010
Amount: $200,000
Role: Co-PI - 40% responsibility

FUNDED RESEARCH (cont.)

Title: Ensuring Continuity of Care: A Quantification of Risk in the Healthcare Supply Chain
Agency: National Science Foundation
Period of Support: August 2009 – December 2010
Amount: $150,000
Role: Co-PI 20%

Title: Designing Resilient and Sustainable Supply Chain Networks
Agency: Department of Homeland Security
Period of Support: January 2009 to December 2011
Amount: $225,000
Role: PI 50%

Title: Comprehensive Life Cycle Assessments for Fluid Dairy Systems
Agency: Dairy Industry
Period of Support: September 2009 – December 2010
Amount: $349,964
Role: Co-PI 10%

Title: Efficient Healthcare Consumer Response Update
Agency: Center for Innovation in Healthcare Logistics
Period of Support: January 2010- June 2011
Amount: $80,000
Role: Co-PI 40%

Title: A Value Based Approach for Quantifying Problem Solving
Agency: NSF SBIR via CELDI: Learning Chameleon
Period of Support: August 2009 – December 2011
Amount: $50,000
Role: PI 50%

Title: GAP Analysis between Healthcare and Retail Supply Chains
Agency: Center for Innovation in Healthcare Logistics
Period of Support: June 2010 – June 2013
Amount: $238,000
Role: PI 45%

Title: Mitigating Dynamic Risk in Multi-Modal Perishable Supply Chains
Agency: Department of Homeland Security, NTSCOE
Period of Support: August 2010 –December 2011
Amount: $170,000
Role: PI 35%

Title: Supporting Secure and Resilient Inland Waterways
Agency: Department of Homeland Security, NTSCOE
Period of Support: August 2010 – June 2013
Amount: $420,000
Role: Co-PI 10%

Title: Resource Allocation for Dredge Scheduling and Procurement: A Mathematical Programming Approach
Agency: Coastal and Hydraulics Lab, U.S. Army Engineer Research and Development Center
Period of Support: June 2012 – October 2013
Amount: $99,547
Role: Co-PI 25%

FUNDED RESEARCH (cont.)

Title: A Case Study Analysis of Inventory Cost and Practices for Operating Room Medical/Surgical Items
Agency: Covidien Inc.
Period of Support: July 2012- May 2013
Amount: $39,859
Role Co-PI 35%

Title: A Decision Support Tool for CRP/VMI Analysis at Covidien Inc.
Agency: Covidien Inc.
Period of Support: August 2013 – July 2014
Amount: $67,172
Role Co-PI 30%

Title: Reliability Growth Modeling.
Agency: AFIT/OSD/SOT
Period of Support: July 2013 – July 2014
Amount: $129,940
Role PI 50%

Title: Reliability Growth Modeling.
Agency: AFIT/OSD/SOT
Period of Support: March 2014 – Feb 2015
Amount: $99,992.00
Role PI 50%

Title: Quantifying Resilience to Enable Engineered Resilient Systems
Agency: Engineering Research and Development Center
Period of Support: March 2016 to Sept 2017
Amount: $149,000
Role: Co-Pi -50% responsibility, PI: G. Parnell (50%)

Title: Resource Constrained Accelerated Reliability Growth Testing Technology for Systems of Systems
Agency: Science of Test Consortium/ ORSA
Period of Support: Aug 2016 to July 2017
Amount: $136,000
Role: PI -33% responsibility, CoPi – Kelly Sullivan, Haitao Liao

Title: Resource Constrained Accelerated Reliability Growth Testing Technology for Systems of Systems
Agency: Science of Test Consortium/ ORSA
Period of Support: July 2017 to Dec 2017
Amount: $107,657
Role: PI -33% responsibility, CoPi – Kelly Sullivan, Haitao Liao

Title: Poultry Excellence in China: Improving Food Safety in Poultry Supply Chains
Agency: Walmart Foundation
Period of Support: July 1 2016 to July 2019
Amount: $1,500,000
Role: PI- Y Li -30% Co-Pi's C. Rainwater (20%), J. Kent (20%), E. Pohl (10%), B. Fugate (10%), M.Kidd (10%)

Title: Modeling the Benefits of Global Standards within Healthcare Organizations
Agency: Medtronic
Period of Support: Aug 2016 to Sept 2017
Amount: $60,000
Role: Co-Pi -50% responsibility Pi: M. Rossetti (50%)

FUNDED RESEARCH (cont.)

Title: Engineered Resilient Systems Frameworks and Quantification
Agency: ERDC/GTRI
Period of Support: October 2017 to September 2018
Amount: $189,433
Role: PI:Parnell, G (40%) Co-PI Pohl, E., (40%) Specking, E., (20%)

Title: Type I: University of Arkansas I-Corps Commercialization STEP (STEM Training in Entrepreneurship Practices)
Agency: National Science Foundation
Period of Support: 1 September 2017 to 31 August 2023
Amount: $249,792
Role: PI: Pohl, Sides, Beitle

Title: Resource Constrained Accelerated Reliability Growth Testing Technology for Systems of Systems
Agency: OSD Science of Test Consortium/ Mac-B
Period of Support: April 2018 to June 21 2022
Amount: $478,430.00
Role: PI -33% responsibility, CoPi – Kelly Sullivan, Haitao Liao

Title: Trade-Off Analytics for Infrastructure Preservation
Agency: DOT/MarTREC
Period of Support: 13 August 2018 to 12 August 2019
Amount: $189,433
Role: PI:Parnell, G (50%) Co-PI Pohl, E., (50%)

Title: Poultry Excellence in China: Improving Food Safety in Poultry Supply Chain
Agency: Walmart Foundation
Period of Support: 7/1/19 to 6/30/2021
Amount: $240,000
Role: Co-PI

Title: Engineering Resilient Systems Frameworks and Quantification
Agency: ERDC/Institute of Systems Engineering Research/GTRI
Period of Support: 7/1/19 to 6/30/2022
Amount: $470,000
Role: PI: Parnell, Co-PI Pohl, E.,

Title: Multidisciplinary Data Science Education to Prepare STEM Students for Data Science Careers
Agency: National Science Foundation
Period of Support: 1 October 2019 to 20 September 2024
Amount: $1,000,000
Role: PI-Rossetti, Co-Pi: Wu,, Hill, Pohl, Turner

Title: EPSCOR Track 2:Artificial Intelligence on Sustainable Energy Infrastructure Network (AI SUSTAIN) and Beyond towards Industries of the Future
Agency: National Science Foundation
Period of Support: 1 October 2021 to 30 September 2025
Amount: $5,977,484, Arkansas total ($1,450,003)
Role: Arkansas PI-Liao, Co-Pi: Liu, Pohl, Wu, McCann, Zhao

CONSULTING

CJTF-180, Bagram Air Force Base, Afghanistan (2003)
Defined and developed a prototype Theatre Assessment tool
Decision support tool provides commander with the ability to assess progress and redirect resources as necessary in the AOR.

DARPA Future Combat System Vulnerabilities (2002)
Served as a team member for organization and execution of vulnerabilities conference
Co-authored White paper on conference

DARPA HAE UAV Program (1996-1997)
Provided reliability analysis and support for the Global Hawk and Darkstar Programs
Member of an Independent Review Team for Flight Readiness Review.

Headquarters Air Force Operational Test and Evaluation (1995-1997)
Provided technical support for R&M issues.
Sponsored three thesis students

AMRAAM JSPO (1995-1997)
Provide reliability and maintainability support for AMRAAM program office.
Sponsored one thesis student

SFC Fluidics (2013 – 2015)
Providing reliability and quality assurance support for development of new medical products

STUDENTS ADVISED

Ph.D. Students Advised (10 completed, 1 in-progress)

Al-Karaeen, Fawaz, "Characterizing Battlefield Human Decision Making with Value Focused Thinking and Reliability Modeling," Wright State University, Co-Advisor with Ray Hill, October, 2006.

Miman, Mehmet, “Modeling and Analysis of the Reliability of Contingency Logistic Networks: A Multi-Dimensional Knapsack Approach,” August 2008. (Assistant Professor, Toros University, Mersin Turkey)

Medal, Hugh, “Locating and Protecting Facilities Subject to Random Disruptions and Attacks,” Co-Advisor with Manual Rossetti, August 2012. (Assistant Professor, Department of Industrial Engineering, University of Tennessee, Knoxville, TN)

Burbano, Angelica, “Modeling the Adoption of Identification Standards within the Healthcare Supply Chain,” Co-Advisor with Ron Rardin, August 2012. (Profesora Tiempo Completo, Departamento Ingenieria Industrial, Universidad Icesi, Cali, Columbia)

Schneider, Kellie, “Reliability Analysis of Social Networks,” Co-Advisor with Chase Rainwater, May 2013 (Associate Professor, Department of Engineering Management, University of Dayton)

Talafuse, Thomas, “Optimization and Modeling Methods for Reliability, Reliability Growth, and Planning,” August 2016 (USAF Officer, Assistant Professor, AFIT)

Ghari, Amir, “Essays on Applications of Transportation Network Design and Optimization,” May 2018.
(Senior Operations Research and Advanced Analytics Analyst, BNSF Railroad)

Torres, Cesar, “Models for Data Analysis in Accelerated Reliability Growth,” August 2020.(Assistant Professor of Industrial Engineering, University of Oklahoma)

Kegley, Lauren, “Bridging the Bandgap: Developing SIC Reliability Models & Understanding Key Quality Metrics, when Comparing SI- and SiC- Semiconductor packages,” December 2021. (Product Manager, Discrete Diode Portfolio, Wolfspeed)

Sorenson, Susan, Scheduling, Complexity, and Solution Methods for Space Robot On-Orbit Servicing, Co-Advised with Dr. Sarah Nurre, July 2022.

Cottom, Robert, “Establishing a Robust Value Hierarchy to Support Transportation Planning Decisions and Accommodate Connected and Automated Transportation Alternatives,” anticipated Dec 2022.

.

MS Thesis Advised (20 completed)

Neher, R.E., "Surveillance Plan for Monitoring the Shelf Life of Chemical Defense Coveralls," MS in Operations Research, Air Force Institute of Technology, March 1996. (Associate Director, Zimmerman Associates)

Mumford D .A., "Parameter Estimation for the Mixed Weibull," MS in Operations Research, Air Force Institute of technology, March 1997.

Durkee, D.P., "Sensitivity of Availability Estimates to Input Data Characterization," MS in Operations Research, Air Force Institute of technology, March 1997. (Senior Scientist, Applied Research Associates)

Rummer, M., "Reliability Analysis of Telerobotics Systems," MS in Operations Research, Air Force Institute of Technology, March 1997. Manufacturing Engineer, Battelle Memorial Institute)

Tran, Thuan, "Using Bayesian Statistics in Operational Testing," MS in Operations Research, Air Force Institute of Technology, March 1998. (Col, USAF, Director of Joint Operational Unit, NSA)

Ruflin, Scott, "Optimum Preventive Maintenance Policies for the AMRAAM Missile," MS in Operations Research, Air Force Institute of technology, March 1998.

MS Thesis Advised (cont.)

Payne, Mike, "A Variable-Complexity Modeling Approach to Scramjet Combustor Design Optimization," MS in Operations Research, Air Force Institute of Technology, March 1998 (co-advisor with Jim Chrisis).

Boerrigter, Dean, "Estimation of Mixtures of Generalized Gamma Distributions," MS in Operations Research, Air Force Institute of Technology, March 1998 (co-advisor with Al Moore). (Operations Analyst, US Space Command)

Schriver, Todd, "Application of Sequential Convex Programming to Large-Scale Structural Optimization," MS in Operations Research, Air Force Institute of Technology, March 1998 (co-advisor with Jim Chrisis).

Li, Xiaoping, "Modeling Equipment Availability for a System that Follows a Kijima Type II Imperfect Repair Process," M.S. in Industrial Engineering, University of Arkansas, December 2006. (Ph.D. Student, University

Gade, Dinakar, "The Impact of Considering Unreliable facilities in Supply Chain Network Design Models," M.S. in Industrial Engineering, University of Arkansas, August 2007. (Completed Ph.D. at the Ohio State University, Sabre Technologies)

Johnson, Rebekah, “Analysis of Distorted Risk Measures in Project Scheduling,” M.S. in Industrial Engineering, University of Arkansas, May 2008. (Conoco Phillips, OK)

Guzman, Mauricio, "A Probabilistic Programming Approach in the Analysis of Social Networks," M.S. in Operations Research, August 2008. (Business Engineering Escuela Superior de Economia y Negocios (ESEN-El Salvador))

Medal, Hugh, "Multi-Objective Simulation: A comparison of Methods," M.S. in Industrial Engineering, University of Arkansas, December 2008. (Assistant Professor, Mississippi State University)

Balya, Rizki, “Modeling and Analysis of Project Reliability,” M.S. in Industrial Engineering, University of Arkansas, May 2009.

Townsley, Jared, “Analyzing Healthcare Policy Reform through System Dynamics,” M.S. in Industrial Engineering, University of Arkansas, August 2010. (Plant manager, Tyson)

Jiang, Leiying, “Accelerated Reliability Growth Models” M.S. in Industrial Engineering University of Arkansas, August 2014 (Supply Chain Analyst, Marshalltown Inc.)

Wong, Alex, “Use of response Surface in the Design of Simple Step Stress Accelerated Test Plans,” M.S. in Industrial Engineering, University of Arkansas, May 2016. (Engineer, J.B. Hunt)

Kizito, Rodney, “Economic Cost Models for Regional Renewable Energy Decisions” August 2017. (Senior Manager, Ascend Analytics)

Wells, Henley, “Using Reinforcement Learning to Improve Network Reliability through Optimal Resource Allocation,” December 2022. (Technical Consultant, CapSpire)

Committee Member for Ph.D. Dissertations (61 completed, 4 in-progress)

1. Vanden Bosch, Peter, "Scheduling and Sequencing Arrivals to a Stochastic Service System," Ph.D. in Operations Research, Air Force Institute of Technology, August 1997.

2. Wilson, Kelce, "Effects of Clutter Height Distribution on the Performance of Interferometric Clutter Erasure," Ph.D. in Electrical Engineering, Air Force Institute of Technology, June 1998.

3. Reineke, Dave, "Estimation and Goodness-of-Fit in the Case of Randomly Censored Lifetime Data," Ph.D. in Statistics, Air Force Institute of technology, June 1999.

4. Forsythe, Steven, "Computer-Based Methods for the Construction of Two-Level Fractional Factorial Experimental Designs," Ph.D. in Operations Research, Air Force Institute of Technology, December 1999.

5. Al-Rafi, Mohammed, "Inventory Optimization in Large Scale Multi-Echelon Spare Parts Inventory Systems," Ph.D. in Industrial Engineering, University of Arkansas, November 2005.

6. Yeung, Thomas, "Optimization Models for Capital Budgeting Under Uncertainty," Ph.D. in Industrial Engineering, University of Arkansas, December 2005.

7. Jampani, Jagadish, "Heuristics for Multiple Orders Per Job Scheduling Problems," Ph.D. in Industrial Engineering, University of Arkansas, August 2007.

8. Salman, Sinan, "The Container Loading Problem: A New Approach to the Modeling and Solution of Three Dimensional Packing Problems," Ph.D. in Industrial Engineering, University of Arkansas, August 2007.

9. Zambrano, Lyda, "Development of Decision Algorithms for Resource Allocation in Exploration and Production Facilities," Ph.D. in Chemical Engineering, University of Arkansas, August 2007.

10. Evans, Jeff, “Environment Assisted Crack Growth in NI-base Superalloys at Elevated Temperature,” Ph.D. in Mechanical Engineering, August 2008.

11. Ertem, Mustafa Alp, “Procurement Auctions-Based Framework with Announcement Options for Resources Allocation in Disaster Relief Operations,” Ph.D. in Industrial Engineering, University of Arkansas, August 2008.

12. AlOtaibi, Mazen, “Scheduling Disaster Relief,” Ph.D. in Industrial Engineering, University of Arkansas, August 2008.

13. Jia, Jun, “Network Design for Forced Transfer Busing,” Ph.D. in Industrial Engineering, University of Arkansas, December 2008.

14. Iyoob, Inamulla, “Evaluation of Multi-Unit Truckload Service Procurement Combinatorial Auctions with Two-Tier Capacity

Committee Member for Ph.D. Dissertations (cont.)

15. Mahadeevan, Sriram, "Visualization Methods for at-a-glance Assessment in Collaborative Decision Making Environments," Ph.D in Industrial Engineering, Wright State University, May 2009.

16. Yang, Yisha, "Maintenance Planning for Systems Subject to Stochastic Behavior," Ph.D. in Industrial Engineering, University of Arkansas, August 2009.

17. Le, Ahn, "Lebesque Sampling in Feedback Control Systems," Ph.D. in Electrical Engineering, University of Arkansas, August 2009.

18. Le Thong, "Torque and Position Estimation in Switched Reluctance Motors Using Embedded Magnetic Field Sensors," Ph.D. in Electrical Engineering, University of Arkansas, August 2009.

19. Hazaro, Supta, "Calibration of Prediction Models for Remaining Life of Flexible Pavements in Arkansas," Ph.D. in Civil Engineering, University of Arkansas, December 2009.

20. Varghese, Vijith, "Forecasting Intermittent Demand in Large Scale Inventory Systems," Ph.D. in Industrial Engineering, University of Arkansas, December 2009.

21. Traore, Wendyam, "Development of Multi-Layered Magnetic Nanowires for Giant Magno-Resisitive Sensors," Ph.D. in Electrical Engineering, University of Arkansas, May 2010.

22. Heath, Brian, "The History, Philosophy, and Practice of Agent-based Modeling and Development of the Conceptual Model for Simulation Diagrams," Ph.D in Systems and Industrial Engineering, Wright State University, May 2010.

23. Smith, Brian, "An Empirical Investigation of Supply Chain Excellence in Healthcare," Ph.D. in Industrial Engineering, University of Arkansas, August 2011

24. Unli, Yasin, "Inventory Models for Intermittent highly Variable Demand and Policy Parameter Adjustments to Meet Desired Service Level Requirements," Ph.D. in Industrial Engineering, University of Arkansas, December 2011.

25. Vergara, Hector, "Optimization Models and Algorithms for Truckload Relay Network Design", Ph.D. in Industrial Engineering, University of Arkansas, August 2012.

26. Xiao, Xingqiang Danny, "Calibration and Reliability Improvement of Mechanistic-Empirical Pavement Design Guide (MEPDG)," Ph.D. in Civil Engineering, University of Arkansas, August 2012.

27. Alaswad, Suzanne, "On the Maintenance Modeling and Optimization of Repairable Systems: Two Different Scenarios," Ph.D. in Industrial Engineering, University of Arkansas, December 2012.

28. Lehlou, Nabil, "Surveillance Planning Against Smart Insurgents in Complex Terrain", Ph.D. in Industrial Engineering, University of Arkansas, May 2013.

29. Okyay, Kaan, "Detailed Inventory record Inaccuracy Analysis," Ph.D. in Industrial Engineering, University of Arkansas, May 2014.

30. Tong, Jing Jing, "Disruption Response Support for Inland Waterway Transportation," Ph.D. in Industrial Engineering, University of Arkansas, August 2014.

31. Almaian, Rufaidah, "A Strategic Leadership Approach for Organizations to Effectively Manage Supplier Quality within the Construction Industry," University of Arkansas, August 2014.

32. JaBo, Joseph, "Reliability-Based Calibration of Resistance Factors and Monitoring Program for Driven Piles," Ph.D. in Civil Engineering, University of Arkansas, August 2015.

33. Almaian, Rufaidah, "A Strategic Leadership Approach for Organizations to Effectively Manage Supplier Quality within the Construction Industry," University of Arkansas, August 2015.

Committee Member for Ph.D. Dissertations (cont.)

34. Huy Nhiem Nguyen, "LTL Transportation Strategies Considering Procurement Discounts," Ph.D. in Industrial Engineering, University of Arkansas, December 2014.

35. Race, Morgan, "Amount of Uncertainty in the Methods Utilized to Design Drilled Shaft Foundations," Ph.D. in Civil Engineering, University of Arkansas, May 2015.

36. Madadi, Mahboubeh, "Preventive Maintenance Decision Modeling in health and Service Systems", Ph.D. in Industrial Engineering, University of Arkansas, August 2015.

37. Kilinic, Mehmet, "Understanding Technology Diffusion and Spatial Accessibility in the Home Healthcare Industry," Ph.D. in Industrial Engineering, University of Arkansas, August 2015.

38. Schbool, Mohammad, "Essays in Physician Preference Items and Inventory Management within the Healthcare Supply Chain," Ph.D. in Industrial Engineering, University of Arkansas, May 2016.

39. Oztanriseven, Furkan, "Modeling Economic Impacts of the Inland Waterway Transportation System", Ph.D. in Industrial Engineering, University of Arkansas, August 2016.

40. Kirac, Emre, "Incorporating A New Class of Uncertainty in Disaster Relief Logistics Planning," Ph.D. in Industrial Engineering, University of Arkansas, August 2016

41. Aibudula, Anniwaer, "Grouping Techniques to Manage Large-Scale Multi-Item Multi-Echelon Inventory Systems," Ph.D. in Industrial Engineering, University of Arkansas, December 2016.

42. Fan Wang, "Personalized Decision Modeling for Intervention and Prevention of Cancers among U.S. Females", Ph.D. in Industrial Engineering, University of Arkansas, 2017.

43. Zadah, Alirezah, "Developing Inventory Classification Approach for Large Scale Multi-Echelon Inventory Systems," Ph.D. in Industrial Engineering, University of Arkansas, August 2017.

44. Parsa, Payam, "Essays in Measuring, Controlling, and Coordinating Supply Chain Inventory and Transportation Operations," Ph.D. in Industrial Engineering, University of Arkansas, August 2017.

45. De Icaza Hugues, Rivelino, "Decision Support System for Container Port Selection using Multiple-Objective Decisions Analysis," Ph.D. in Industrial Engineering, University of Arkansas, August 2017.

46. Abdash, Fereydoun, "Methodologies for Solving Integrated Transportation and Scheduling Problems," Ph.D. in Industrial Engineering, August 2017.

47. Ahangar, Fourough, "Models and Methodologies to Address Emerging Needs In Network and Supply Chain Optimization," Ph.D. in Industrial Engineering, University of Arkansas, August 2017

48. Heydari, Mohammadhossein, "Optimal Allocation of Resources in Reliability Growth," Ph.D. in Industrial Engineering, University of Arkansas, May 2018.

49. Ahanger, Negin, "Modeling and Solution Approaches for Non-Traditional Network Flow Problems with Complicating Constraints," August 2018

50. Zhang, Jiingying, "Budget-Constrained Regression Model Selection Using Mixed Integer Nonlinear Programming, Ph.D. in Industrial Engineering, University of Arkansas, December 2018.

51. Al-Sarray, Muthanna, "H_2 Control for Improved Stability of Multi-area Electric Power System with High levels of Inverter-Based Generation," Ph.D. in Electrical Engineering, May 2019.

52. Specking, Eric, "Quantitative Set-Based Design Techniques to Enable Preliminary Design Decisions," Ph.D. Industrial Engineering, May 2020.

Committee Member for Ph.D. Dissertations (cont.)

53. Shallcross, Nicholas, "Quantitative Set-Based Design for Complex System Development," Ph.D. Industrial Engineering, August 2021.

54. Boardman, Nicholas, "Deployment Policies to Reliably Maintain and Maximize Expected Coverage in a Wireless Sensor Network," Ph.D. in Industrial Engineering, August 2021.

55. Gibson, Andrew, "Enabling the "Easy Button" for Broad, Parallel Optimization of the Design Space for Functions Evaluated by Simulation," Ph.D. in Industrial Engineering, August 2021.

56. Karimi, Samira, "Robust Methods for Analysis of Various Types of Reliability Data," Ph.D. in Industrial Engineering, August 2021.

57. Bean, Jeff, "Understanding the Importance of Ambition in the Workplace," Doctor of Education in Human Resource and Workforce Development, August 2021.

58. Hajiha, Mohammad, "Statistical Modeling, Learning and Computing for Stochastic Dynamics of Complex Systems" Ph.D. in Industrial Engineering, University of Arkansas, December 2021.

59. Iranzad, Reza, "Ensemble Tree-Based Machine Learning for Imaging Data," Ph.D. in Industrial Engineering, University of Arkansas, August, 2022.

60. Harvey, Winthrop, "Deep learning Applications in Industrial and Systems Engineering" Ph.D. in Industrial Engineering, University of Arkansas, August 2022

61. Yu, Pingjian, "Approximations and Heuristic Methods for the Optimization of Large Scale Multi-Echelon (r,Nq) Inventory Systems", Ph.D. in Industrial Engineering, University of Arkansas, anticipated May 2023.

62. Azucena, Jose Carlos Hernandez, "TBD" Ph.D. in Industrial Engineering, anticipated May 2023

63. Bright, Juliana, "TBD" Ph.D. in Industrial Engineering, University of Arkansas, anticipated Dec 2023

64. Alimohammadi, Maryam, "Decision Making Using Longitudinal Health data with Applications on Respiratory Diseases", Ph.D. in Industrial Engineering, University of Arkansas, December 2022.

65. Azucena, Jose Carlos Hernandez, "TBD" PhD in Industrial Engineering, August 2023.

Undergraduate Honors Thesis Students (16 completed)

Chambers, Lauren, "A study of Social Network Analysis Techniques Applied to Criminal and Terrorist Networks," May 2006. (Selected as a DHS Fellow for M.S. degree in Criminal Justice at Florida State University.)

Giesecke, Gregory, "A Research and Development Framework for High Technology Companies," December 2006.

Townsley, Jared, "Simulation of Multicultural Factors in Terrorism Networks," May 2008. (Attended University of Arkansas for MS, Plant Manager, Tyson).

Marhefka, Stephanie, "Team Selection Strategies for Youth Sports," May 2011.

Frazier, Bailey, "Reliability Modeling of Rail Communications Links," May 2011.

Ulesich, Morgan, "A Course Scheduling Tool for the OMGT Program," May 2013
(Graduate Assistantship to Clemson University for MS).

Hilliard, Holly, "Multi-Objective Decision Analysis Framework for Global Nuclear Detection," May 2014

Daysi Guerra Garcia, "Information Reliability and Maintenance," December 2015

Undergraduate Honors Thesis Students (cont.)

Henderson, Keegan, “Baseball Analytics: new performance measures,” December 2015
(Baseball Data Analyst, Tampa Devil Rays)

Peter, Travis, “Modeling and Analysis of Disruptive Technology in Healthcare Supply Chain,” May 2016

Bonfanti, John, “Modeling the Impact of UDI requirements on Healthcare Supply Chain,” May 2016

Hazel, Jeff, “Modeling Supply Chain Resiliency,” Co-Advise with G. Parnell, May 2016

Small, Colin, “Using Value Focused thinking for Engineered Resilient Systems,” Co-Advise with G. Parnell, May 2016

Wade, Zephan, “Engineering Resilient Systems Model Applied to Network Design,” Co-Advise with G. Parnell, May 2016

Woodruff, Tanner, “Service Learning in the College of Engineering,” May 2017

Wells, Henley, “Improving Offensive Player Performance Measurements for Assessing Free Agent Major League Baseball Players,” May 2019

Committee Member MS in Systems Engineering Design Studies (4 completed)

Carter, C.M., Fortmann, K.M., Hill, S.W., Latin, R.M., Masterson, E.J., Roh, J.A., and Setlur, S.W., "A Systems Engineering Approach to Environmental Risk Management: A Case Study of Depleted Uranium Test Area C-64, Eglin Air Force Base, Florida," MS in Systems Engineering, December 1994. Research Committee Member

Dewitt, B., Dusseault, C., Hagan, J., Cherry, M., and Peterson, B., "A Systems Engineering Approach to Aircraft Kinetic Kill Countermeasures Technology," MS in Systems Engineering, December 1995. Research Committee Member

Ashby, G.F., Buck, D.J., Carneal, R.W., Cokuysal, T., Donmez, A.T., From, J.A., Krueger, T.C., and Robinson, B.I., "A Preliminary Design of a Standardized Spacecraft Bus for Small Tactical Satellites," MS in Systems Engineering, December 1996. Research Committee Member

Cotter, P.J., Fischer, S.A., Fullingham, D., James, B.L., Seelinger, W.A., Valenti, J.M., and Walter, J.D., "A Systems Study on a Satellite Flywheel Energy Storage and Attitude Control System," MS in Systems Engineering, December 1997. Research Committee Member

M.S. Student Committees (104 completed)

Iyoob, Ilyas, M.S. in Industrial Engineering, UA, August 2004
Shee, Amit, M.S. in Industrial Engineering, UA, May 2005
Alaswad, Suzan, M.S. in Industrial Engineering, UA, December 2005
Erramilli, Vishnu, M.S. in Industrial Engineering, UA, December 2005
Cakici, Eray, M.S. in Industrial Engineering, UA, December 2005
Kim, Joo Hyoung, M.S. in Industrial Engineering, UA, May 2006
Jia, Jun, M.S. in Industrial Engineering, UA, May 2006
Cabrera Arispe, Patricia, M.S. in Industrial Engineering, UA, May 2006
Desai,Vikram, M.S. in Industrial Engineering, UA, May 2006
Honeycutt, Jason, M.S. in Industrial Engineering, UA, August 2006
Li, Min, M.S. in Civil Engineering, UA, August 2006
Schneider, Kellie, M.S. in Industrial Engineering, UA, December 2006
Nangia, Shikha, M.S. in Industrial Engineering, UA, December 2006
Xiang,Yisha, M.S. in Industrial Engineering, UA, December 2006
Celikkol,Selin, M.S. in Industrial Engineering, UA, May 2007
Yu, Long, M.S. in Industrial Engineering, UA, May 2007
Kulkarni, Rohan, M.S. in Industrial Engineering, UA, December 2007
Velpulah, Rahguhandra, M.S. in Industrial Engineering, UA, December 2007

Walker, Lindsey, M.S. in Industrial Engineering, UA, December 2007
Sharp, Steve, M.S. in Industrial Engineering, UA, May 2008
Ferguson, Jenny, M.S. in Industrial Engineering, UA, May 2008
Ye,Weiyang, M.S. in Industrial Engineering, UA, May 2008
Prabhu, Shyam, M.S. in Industrial Engineering, UA, May 2008
Wang, Qilu, M.S. in Industrial Engineering, UA, May 2008
Liu, Yanchou, M.S. in Industrial Engineering, UA, December, 2008
Stout, Jason, M.S. in Industrial Engineering, UA, January 2009
Keeley, Adam, M.S. in Industrial Engineering, UA, May 2009
Montgomery, Willie, M.S. in Industrial Engineering, UA, May 2009
Luttrell, Lance, M.S. in Industrial Engineering, UA, August 2009
Chu, Anh, M.S. in Electrical Engineering, UA, May 2010
Kamali, Behrooz, M.S. in Industrial Engineering, UA August 2010
Ni, Qingbiao, M.S. in Industrial Engineering, UA May 2010
Wasson, Jeremy, M.S. in Industrial Engineering, May 2010
Hong, Qin, M.S. in Industrial Engineering, UA, June 2010
Farrokhvar, Leily, M.S. in Industrial Engineering, UA, December 2010
Chenoweth, Matt, M.S. in Industrial Engineering, UA, December 2010
Wu, Jing, M.S. in Industrial Engineering, UA, May 2011
Server Apras, M.S. in Industrial Engineering, UA, May 2011
McCorkle, Tracy, M.S. in Engineering, UA, May 2011
Rimes, Sean, M.S. in Industrial Engineering, UA, December 2011
Spicer, Jessica, M.S. in Industrial Engineering, UA, May 2012
Chen, Yaohua, M.S. in Industrial Engineering, UA, May 2012
McGruder, Drake, M.S. in Engineering, UA, May 2012
Satter, Tanvir, M.S. in Industrial Engineering, UA, August 2012
Nelson, William, M.S.in Engineering, December 2012
Lara, Yeimer Bolanos, M.S. in Engineering, May 2013
Specking, Eric, M.S. in Industrial Engineering, May 2013
Allison, Joseph, M.S. in Engineering, May 2013
Yiemer, Bolanos, M.S. in Engineering, May 2013
Donahoo, Carl, M.S. in Engineering, May 2013
Euseppi, Kaleb, M.S. in Engineering, May 2013
Hossain, Muhammad, M.S. in Engineering, December 2013
Mauldin, Nova-Dawn, M.S. in Engineering, May 2013
Rana, Deepak, M.S. in Engineering, December 2013
Wilson, Joshua, M.S. in Engineering, May 2013
Panebianco, Frank, M.S. in Engineering, May 2014
Long, Austin, M.S. in Engineering, May 2014
Pollard, Zackary, M.S. in Engineering, August 2014
Lewis, Allen, M.S. in Engineering, August 2014
Olmstead, Tyler, M.S. in Engineering, August 2014
McConnell, Wesley, M.S. in Engineering, August 2014
Sunkari, Pandarinath, M.S. in Industrial Engineering, May 2015
Dabhadkar, Gaurav, M.S. in Industrial Engineering, May 2015
Boudham, Othman, M.S. in Industrial Engineering, August 2015
Hasnat, Sultanul, M.S. in Operations Management, December 2017
Bolton, Josh, M.S. in Industrial Engineering, December 2017
Weisher, Colby, M.S. in Industrial Engineering, April 2018
Small, Colin, M.S. in Industrial Engineering, April 2018
Wade, Zephan, M.S. in Industrial Engineering, April 2018
Coco, Matt, M.S. in Industrial Engineering, April 2018
James, Braden, M.S. in Industrial Engineering, May 2019
Parthiban, Varun, M.S. in Industrial Engineering, December 2020
Mullin, Erin, M.S. in Industrial Engineering, May 2020
Alberti, J., M.S. in Engineering, August 2020
Davis, J., M.S. in Engineering, August 2020
Hong, J., M.S.in Engineering, May 2020

Ismail, A., M.S. in Engineering, December 2020
Oostenburg, M., M.S.in Engineering, December 2020
Paulos, S., M.S. in engineering, December 2020
Schlotterbeck, R., M.S. in Engineering, August 2020
Witherspoon, S., M.S. in Engineering, August 2020
Eller, J., M.S. in Electrical Engineering, December 2020
Fangion, W., M.S. in Engineering Management, May 2021
Umphred, T., M.S. in Engineering Management, May 2021
Bella, D., M.S. in Engineering, 2021
Carr, C., M.S. in Engineering, 2021
Eaves, E., M.S. in Engineering, 2021
Khallou, Y., M.S. in Engineering, 2021
Liu, B., M.S. in Engineering, 2021
Patel, J., M.S. in Engineering, 2021
Smith, J., M.S. in Engineering, 2021
Tion, C., M.S. in Engineering, 2021
Urbano, J., M.S. in Engineering, 2021
Crisel, B., M.S. in Industrial Engineering, 2021
Tayfur, B., M.S. in Industrial Engineering, 2021
Eagan-Rowe, E., M.S. in Engineering 2022
Harrison, K., M.S. in Engineering, 2022
Makuch, A., M.S. in Engineering, 2022
McVey, M., M.S. in Engineering, 2022
Reuter, D., M.S. in Engineering, 2022
Wright, D., M.S. in Engineering, 2022
Barker, Tevari, M.S. in Industrial Engineering, 2022
Jimenez, M., M.S. in Industrial Engineering, 2022
Rivera, Rolando Orellana, M.S. in Industrial Engineering, 2022

M.S. Students Advised-Non-Thesis Option (43 Completed)
Pasquini, James, M.S.I.E., December 2004
Hurst, Travis, M.S.I.E., December 2004
Brain, Michelle, M.S.I.E., December 2004
Flores, Jorge, M.S.I.E., December 2004
Kempfer, Emily, M.S.I.E., December 2004
Nagarajan, Sriram, M.S.I.E., August 2007
Garman, Stephanie, M.S.I.E., December 2009
Kilgore, Mark, M.S.I.E., December 2011
Zhang, Fan, M.S.I.E., December 2012
Warhime, Richard, M.S.E., May 2013
Frank, George, M.S.E., December 2013
Carbajal, Osman, M.S.E., August 2014
McCarthy, Kevin, M.S.E., December 2014
Williams, Patrick, M.S.E., December 2014
Ibarra, Marcus, M.S.E., December 2014
Ibarra, Tim, M.S.E., December 2014
Ibarra, Daniel, M.S.E., December 2014
Jones, Teresa, M.S.E., December 2015
Lageqvist, Anton, M.S.E., May 2017
Wright, Alex, M.S.E., May 2017
Ruiz, Cesar, M.S.I.E., December 2017
Gant-Gaines, T, M.S.E., May 2020
Hunter, N., M.S.E., August 2020
Johnson, A., M.S.E., .May 2020
Peterson, B., M.S.E. August 2020
Pullen B., M.S.E., August 2020
Schmidt, J., M.S.E., August 2020
Shippee, S., M.S.E., August 2020

Smith, M., M.S.E., August 2020
Ellis, H., M.S.E., 2021
Guenther, A., M.S.E., 2021
Hendrick, J., M.S.E., 2021
Hosting, K., M.S.E., 2021
Lao, C., M.S.E., 2021
Martin, D., M.S.E., 2021
McKenna, K., M.S.E., 2021
Silva, M., M.S.E., 2021
Sutton, J., M.S.E., 2021
Welsh, J., M.S.E., 2021
Cox, A., M.S.E., 2022
Hong, T., M.S.E., 2022
Lofurno, A., M.S.E., 2022

Operations Management Student Comprehensive Exam Committees
In my capacity as Director of the Operations Management Program, I have served on and chaired **647** oral comprehensive exams for students completing the OMGT program. OMGT students are required to successfully pass an oral exam upon completion of 8 courses. A committee of three faculty members examines the students over the coursework they have a completed. A summary of committees chaired by year is provided below.

Year	Committees Chaired
2007	38
2008	145
2009	146
2010	104
2011	98
2012	88
2013	28
2014	24

SERVICE ACTIVITIES

Service to Profession

INFORMS
- Conference Program Committee, Contributed Sessions Co-Chair, 2017
- Meetings Committee, 2017-2019, 2019-2021
- Cluster Co-Chair, Supply Chain Risk, 2011, 2012, 2013
- INFORMS Selects Committee, Informs Analytics Conference, 2014 - Present
- INFORMS Consortium for Mathematics and Its Applications, COMAP Subcommittee, 2012-2016
- Awards Committee, Military Applications Section, 2011, 2012, 2013, 2014
- Awards Chair, Military Applications Section, 2009 - 2010
- **Presiden**t, Military Applications Section, 2007 - 2008
- INFORMS Sub-Division Council Member, 2004 - 2006
- Vice President/President Elect, Military Application Section, 2004, 2005, 2006

Military Operations Research Society (MORS)
- **Editor**, *The Journal of Military Operations Research*, 2022 - Present
- Editorial Board, *The Journal of Military Operations Research*, 2002 - 2021
- Working Group Co-Chair, Manpower & Personnel, MORS Conference, 2002

IEEE

Editorial Board, *IEEE Transactions on Engineering Management*, 2018 –Present
Associate Editor, *IEEE Transactions on Reliability*, 2003 – 2008, 2014 –Present
Reliability and Maintainability Symposium (RAMS), IEEE representative, 1999-2011
Member, Management Committee, 1999 – 2011
Chairman, Board of Directors, 2012
Conference Chair, 2011
Conference Vice-Chair, 2010
Program Chair 2007, 2009
Arrangements Vice-Chair 1999, 2004
Tutorial Program Vice-Chair 2000, 2003, 2008
Publicity Vice-Chair 2001
Program Vice-Chair 2002, 2006
Registration Vice-Chair 2005
Session Moderator, "Simulation Processes," Philadelphia, PA, January 1997
Session Moderator, "Reliability Modeling and Simulation," Las Vegas, NV, January 1996
National Aerospace and Electronics Conference, Dayton OH
Vice President for Technical Program, July 1998
Papers Chair, July 1997, May 1996
Session Chair, "Training Systems," May 1986

Institute of Industrial and Systems Engineers (IISE)

Associate Editor, *IIE Transactions*, 2004 – 2005
Board Member, Society of Engineering and Management Systems, 2014-2017
Member, RAMS Board of Directors, IIE Representative, 2014- Present
Quality Control and Reliability Engineering Division
Director, 2003-2004
Director Elect, 2002 - 2003
Co-Chair, Homeland Security Track, Industrial and Systems Engineering Research Conf., 2012, 2013, 2014

Society of Reliability Engineers (SRE)

President, 2016 –2019
Vice President, 2013-2015

American Society for Engineering Management (ASEM)

Co-Editor, *Engineering Management Journal*, 2018 – 2022
Regional Director**,** 2014 – 2017
Conference Chair, 31st American Society of Engineering Management Conference, 2010

Archival Journals (not affiliated with a professional society)

Editorial Board, *Systems*, 2018 – Present
Editorial Board, *Journal of Critical Infrastructure Policy,* 2020 - Present
Associate Editor, *Journal of Risk and Reliability*, 2005 - Present
Associate Editor, *Quality Technology & Quantitative Management,* 2012 - Present

Other

Advisory Review Board, Department of Operational Sciences, Air Force Institute of Technology, 2017, 2021
Advisory Board, University of Dayton, Department of Engineering Management, 2004
Advisory Board, Oklahoma State University, Department of Industrial Engineering and Management, 2019,2020, 2021
Capstone Design Conference Judge, USMA, 2003, 2004, 2005, 2006, 2007, 2008, 2009
Session Chair, Zone 1 ASEE Conference, 2002
INCOSE Point of Contact, Emerging Chapter, Dayton OH (1996, 1997)
Session Chair, 3rd ISSAT Conference on Reliability and Quality in Design, Anaheim, CA, March 1997

Service to School

Co-Director, Emerging Institute for Advanced Data Analytics, University of Arkansas, 2014- 2016
Director of Distance Education, College of Engineering, University of Arkansas, 2010 - Present
Director, Operations Management Program, University of Arkansas, 2007 - 2014
Industrial Engineering Strategic Planning Committee, University of Arkansas, 2009, 2012, 2013
Industrial Engineering Personnel Committee, University of Arkansas, 2009 – 2010, 2012, 2013, 2014
Chair, Operations Management Graduate Committee, University of Arkansas, 2006- 2007
Graduate Curriculum Committee, University of Arkansas, 2005 – 2008, 2010- 2011, 2013-2014
Department Scholarship Committee, 2005 - 2011
Department International Education Programs Mentor, University of Arkansas, 2004 – Present
Dean of Graduate School Search Committee Member, 2010-2011
ROTC Programs Committee, University of Arkansas, 2004 – 2006, 2012-2014
Building Committee, University of Arkansas, 2013-2016
Undergraduate Curriculum Committee, University of Arkansas, 2004 - 2005
Plebe Sponsor, USMA, AY 2002, 2003
Company Academic Counselor, USMA, 2002, 2003
Department Academic Counselor, USMA, 2001, 2002, 2003
Department Honor Committee Representative, 2002, 2003
Hollis Award for Excellence in Operations Research, Judge, 2002
Capstone Design Conference Judge, United States Military Academy, 2002
GOAL Team, Continued Intellectual Development, United States Military Academy, 2001, 2002
Curriculum Committee, AFIT, Systems Engineering Program, 1995,1996,1997,1998
Curriculum Committee, AFIT, Space Operations Program, 1997, 1998

Service to Society

Northwest Arkansas, High School Hockey Club, Head Coach, 2007/2008/2009
Northwest Arkansas Youth Hockey, Assistant Coach, 2004/2005/2006/2010
Fayetteville Youth Baseball, Coach, 2004/2005/2006
North West Arkansas Science Fair Judge, 2004/2005/2006/2007/2008
Wright-Step Volunteer; Taught Introductory Engineering and Math Classes to Minority Students interested in science and engineering during summer. 1995, 1996, 1997
Lincoln Elementary School Mentor, Dayton, OH, Served as a mentor to a group of 6th Grade Students interested in science and engineering. 1996, 1997, 1998
Oakwood High School Hockey Club, Assistant Hockey Coach, 1996/1997, 1997/1998
High School Sunday School Teacher, 1995, 1996, 1997, 1998, 2011, 2012
Elementary Sunday School Teacher, 2000, 2001, 2004, 2005, 2006, 2009, 2010
West District Science Fair Judge for the Ohio Junior Academy of Sciences, 1997, 1998
West Springfield Little League, Coach, 1999, 2000, 2001
West Point Youth Hockey, Coach, 2001/2002, 2002/2003; Referee, 2001/2002, 2002/2003;
West Point Little League, Coach, 2002, 2003

AWARDS and HONORS

Military

Defense Meritorious Service Medal
Air Force Meritorious Service Medal
Air Force Commendation Medal

Academic

2023 **A.J. Golomski Award, QCRE Division of IIE, Best Paper** Presented at RAMS 2022
2023 **Stan Ofsthun Award**, **SRE, Best Paper** authored or co-authored by a student at RAMS
2022 Frank M. Woodbury Service Award, Society of Engineering Management
2021 **INFORMS J. Steinhardt Prize**, **Lifetime Achievement Award in Military Operations Research**
2021 **A.J. Golomski Award, QCRE Division of IIE, Best Paper** Presented at RAMS 2020
2020 Tom Fagan Award, 2nd Place, Best Paper authored or co-authored by a student at RAMS
2019 **Best Paper Award**, 11th International Conference on Mathematical Methods in Reliability
2019 **Stan Ofsthun Award, SRE, Best Paper** authored or co-authored by a student at RAMS
2018 **Elected Fellow**, American Society of Engineering Management
2016 ASEE John L. Imhoff Global Excellence Award for Industrial Engineering Education
2016 **Awarded Diplomat Status**, Society of Health Systems
2017 **SEC Academic Leadership Fellow**
2015 **Elected Fellow**, Society of Reliability Engineers
2014 University of Arkansas Alumni Award for Outstanding Service
2014 **Elected Fellow**, Institute of Industrial and Systems Engineering
2014/2015 Holder of the John L. Imhoff Chair, Department of Industrial Engineering
2013 Outstanding Research Award, Department of Industrial Engineering
2013 Outstanding Teaching Award, Selected by the Students in Industrial Engineering
2012 Outstanding Faculty member, Department of Industrial Engineering
2012 Outstanding Teaching Award, Selected by the Students in Industrial Engineering
2012 **A.J. Golomski Award, QCRE Division of IIE, Best Paper** Presented at RAMS 2011
2010 Outstanding Service to Students, Department of Industrial Engineering
2009 Outstanding Faculty member, Department of Industrial Engineering
2008/2009 Held the John L. Imhoff Chair, Department of Industrial Engineering
2007, Outstanding Service to Students, Department of Industrial Engineering
2006, Outstanding Service to Students, Department of Industrial Engineering
2005, Outstanding Faculty Member, Department of Industrial Engineering
2004, Outstanding Instructor, Department of Industrial Engineering
2004 **Alan O. Plait Award for Tutorial Excellence**, 2003 RAMS
1998 Gage H. Crocker Outstanding Professor Nominee, AFIT School of Engineering
1998 **Alan O. Plait Award for Tutorial Excellence**, 1997 RAMS.

PROFESSIONAL REFERENCES

John A. White Jr., Ph.D.
Chancellor Emeritus
Distinguished Professor of Industrial Engineering
University of Arkansas
jawhite@uark.edu

Kim Needy, Ph.D.
Dean, College of Engineering
Professor of Industrial Engineering
Irma F. and Raymond F. Giffels Chair
University of Arkansas
kneedy@uark.edu

Sundaresh Heragu, Ph.D.
Associate Dean for Academic Affairs
Donald and Cathey Humphreys Chair
College of Engineering, Architecture and Technology
Oklahoma State University
sundaresh.heragu@okstate.edu