

JIM LEE

Home:

704 Farmington Drive
Lafayette, LA 70503, USA
Tel:(337)984-6254
Cell:(337)326-9825

Office:

UL Lafayette, Box 44170
Lafayette, LA 70504, USA
Tel:(337)482-5354
Fax:(337)482-6661
E-Mail: jlee@louisiana.edu

EDUCATION

- Ph.D. University of Iowa, Department of Industrial and Management Engineering, December 1987.
Major Research Areas: Systems Simulation and Performance Evaluation, Computer Algorithms for Production Planning and Operations Management, Manufacturing Information Systems, and Computer Integrated Manufacturing.
- M.S. University of Iowa, Department of Industrial and Management Engineering, December 1983.
Major Research Areas: Computer Simulation, Decision Support Systems, Operations Research, and Healthcare Resource Utilization Management.
- B.S. Tunghai University, Department of Industrial Engineering, June 1979.

PROFESSIONAL EXPERIENCE

University of Louisiana at Lafayette, Lafayette, Louisiana

03/13 – Present: Assistant Dean of Graduate Studies, College of Engineering.

10/11- Present: PhD Program Coordinator, Systems Engineering

Develop new Ph.D. program; Develop new courses in Systems Engineering, Industrial Operations; Lean Six Sigma; Recruit graduate students at both MS and Ph.D. levels; Increase student funding; Initiate part-time graduate program; Build a team with department graduate coordinators to lead program development and quality improvement.

8/99-Present: M. Eloi Girard Professor, Mechanical Engineering/Engineering Management

1/99-5/06: Graduate Coordinator, Engineering Management Program.

8/94-8/99: Associate Professor, Engineering Management Program.

8/88-7/94: Assistant Professor, Engineering Management Program.

Teach courses in Systems Engineering, Lean Six Sigma, Systems Simulation, Quality Assurance Technology, Computer Integrated Manufacturing, Engineering Data Analysis, and Engineering Economy; Conduct sponsored research and supervise graduate student research; Provide consulting to local industries for economic development; Perform university services.

Montana State University, Bozeman, Montana

1/88-6/88: Adjunct Assistant Professor, Department of Industrial & Management Engineering. Taught courses in Manufacturing Systems Simulation, Engineering Data Analysis, Quality Assurance in Organizations, and Stochastic Operations Research, helped the development of the Computer Integrated Manufacturing Laboratory, and supervised graduate student research.

University of Iowa, Iowa City, Iowa

6/84-6/87: Operation Manager, Computer Integrated Systems Laboratory, Department of Industrial and Management Engineering. Developed laboratory experiments and research projects using various types of computer hardware and software systems, robots, CNC machines, and vision systems.

8/83-6/84: Teaching Assistant, Department of Industrial and Management Engineering. Developed class materials for courses in Microcomputer Applications, Information Systems Design, and Computer Integrated Manufacturing.

Texas Instruments, Taiwan Limited, Taipei, Taiwan

9/81-7/82: Production Planner. Coordinated between marketing divisions in Dallas and the fabrication factory in Taipei. Implemented new and successful approaches in developing production schedule and inventory reduction methods. Supervised team of 3 technicians.

Cheng-Kung Army Training Base, Taichung, Taiwan.

10/79-8/81: Teaching Officer and Second Lieutenant. Taught courses in military science and commanded over 40 trainees.

Lu-Ho Consulting Firm, Taipei, Taiwan.

9/78-5/79: Manager in a consulting group for production and quality control. Guided local manufacturing companies in building production planning and quality control systems. Supervised team of 5 consultants.

PROFESSIONAL ACHIEVEMENT

Involved in developing a Ph.D. program in Systems Engineering. Served as Program Coordinator. Enhanced quality of graduate program in Engineering Management and further developed the management component of Industrial Technology undergraduate program at the University of Louisiana at Lafayette.

Developed new courses in emerging areas such as quality assurance, information technology, knowledge-based systems, and advanced manufacturing systems.

Coordinated efforts in laboratory development in information technology, manufacturing systems, robotics, and computer vision.

Promoted thesis research to advanced graduate students' research capabilities. Supervised more than 50 graduate students' research work in Engineering Management since 1988.

Applied "lead-by-example" approach in supervising graduate students' research work

Created an externally funded research and educational enhancement program.

Served as Principal or Co-Principal Investigator for 23 funded research projects.

Served as Principal or Co-Principal Investigator for 6 funded program enhancement projects.

Served as Consultant for 3 funded economic development projects.

Acquired various software donations to support teaching and research activities.

Provided professional consulting to manufacturing and service industries in the following areas:

Software evaluation, system performance evaluation, work simplification, process analysis and improvement, and facility management.

COURSES TAUGHT AND DEVELOPED (Last 5 Years)

ENGR 501 Data Analysis for Engineering Projects

ENGR 605 Systems Engineering I

ENGR 609 Industrial Operations

ENGR 640 Lean Six Sigma

MCHE 540 Quality Engineering

ENGR 515 Engineering Systems

CURRENT RESEARCH AREAS

Energy management and system performance evaluation

Decision support system for scheduling production with quality operations

Integrated algorithms for quality inspection and planning decisions

Real-time dispatching and routing of materials handling vehicles

Economic analysis of advanced engineering technology and business decisions

Computerized workstation layout system for cell-based manufacturing systems

RESEARCH PUBLICATIONSRefereed Journals:

1. Jiang, S, M. Mokhtari, D. Borrok and J. Lee (2018). "Improving the Total Organic Carbon Estimation of the Eagle Ford Shale with Density Logs by Considering the Effect of Pyrite." *Minerals*. 8(4), 154; doi:10.3390/min8040154.
2. Ben H'mida, J., M. J. Morshed, J. Lee, T. Chambers (2018). "Hybrid Imperialist Competitive-Grey Wolf Algorithm to solve Multiobjective Optimal Power Flow with Wind and Solar Units." *Energies*. 11, 2891; doi:10.3390/en11112891.
3. Cai, X., B. Guo, J. Lee, and B. Li (2018). "A Semi-analytical Model for Predicting Screen-out in Hydraulic Fracturing Horizontal Wells." *Journal of Petrol. Science and Engineering*. 52, 117-127.
4. Guo, B., L. Shan, S. Jiang, G. Li, and J. Lee (2018). "Prediction of the Maximum Permissible Injection Pressure in CO₂ Injection Wells." *Journal of Natural Gas Science and Engineering*. 56, 324-332.
5. Yuvamitra, K., J. Lee, and K. Dong (2017). "Value Stream Mapping of Rope Manufacturing: A Case Study." *Journal of Manufacturing Engineering*. Article ID 8674187, 11 pages.
6. Guo, B., Wei, N., Song, J., and J. Lee (2017). "Prediction of the Maximum Permissible Injection Pressure in CO₂ Injection Wells." *Journal of Petrol. Science and Engineering*. 156, 575-581.
7. Trabelsi, R., F. Boukadi, J. Lee, Boukadi, B., A. Seibi, and H. Trabelsi. (2017). "Type Curves Relating Well Spacing and Heterogeneity to Oil Recovery in a Water Flooded Reservoir—A Case Study." *Natural Resources*, 8, 632-645. <https://doi.org/10.4236/nr.2017.810040>.
8. Kibbe C. G., J. Lee, and K. Dong (2016). "Designing a Test Fixture with DFSS Methodology." *Journal of Manufacturing Engineering*. Article ID 3848103, 8 pages. <http://dx.doi.org/10.1155/2016/3848103>
9. Lamson, G., S. K. Gaikwak and J. Lee (2016). "Integrated Component Reliability Modeling for Helicopter Industry." *Industrial Engineering and Management*. 5: 196. doi:10.4172/2169-0316.1000196.
10. Song, J. B. Guo, J. Lee S. Jiang (2016). "Application of Lean Tools in the Oil Field Safety Management." *Int. Journal of Engineering Research and Application*, 6, 11, 3, 58-67.
11. Lee, J., S. K. Gaikwak, and C. Lau (2015). "Corporate Modeling Systems," *Encyclopedia of Electrical and Electronics Engineering*, Wiley and Sons. Paper 3312, 11 pages.
12. Li, B., B. Guo, H. Li, Y. Feng and J. Lee (2015). Leak Risk Assessment for Plugged Wells in Carbon Sequestration Projects, *Journal of Sustainable Energy Engineering*, Vol. 3, No. 1, 44-65.
13. Guiberteau, K., J. Lee, Y. Liu, Y. Dou and T. Kozman (2015). "Wave Energy Converters and Design Considerations for Gulf of Mexico." *Distributed Generation and Alternative Energy Journal*. 30(4), 55-76.
14. Ben H'mida, J., S. Parekh, and J. Lee (2014). "Integrated Inventory Ranking System for Oilfield Equipment Industry." *Journal of Industrial Engineering and Management*. 7(1):115-136.
15. Lee, J., K. Yuvamitra, T. Kozman, and K. Guiberteau (2014). "Six-Sigma Approach to Energy

- Management Planning.” *Strategic Planning for Energy and the Environment Journal*. 33(3), 23-40.
16. Ben H'mida, J., J. Lee, X. Wang and F. Boukadi (2014). "Production Scheduling for Continuous Manufacturing Systems with Quality Constraints." *Production & Manufacturing Research: An Open Access Journal*. 2(1), 95-111.
 17. Ben H'mida, J., Gaspard, A., and J. Lee (2013). “TQM Based Organizational Structure for Equipment Maintenance Program for Oilfield Service Industries.” *Global Perspective on Engineering Management*. May 2013, 2(2), 60-69.
 18. Ben H'mida, J., Regan, G. and J. Lee (2013). “Inventory Reduction using Matrix Ranking and Preventive Maintenance.” *Journal of Industrial Engineering*. Volume 2013, Article ID 851092, 7 pages.
 19. Olsen, C., T. Kozman, and J. Lee (2012). “A Comparative Study of Natural Gas Liquids Recovery Methods.” *Distributed Generation and Alternative Energy Journal*. 27(2), 42-55.
 20. Guiberteau, K., Y. Liu, J. Lee and T. Kozman (2012). “An Investigation on Developing Wave Energy Technology in the Gulf of Mexico.” *Distributed Generation and Alternative Energy Journal*. 27(4), 36-52.
 21. Garrett, D. and J. Lee (2011). “Lean Construction Submittal Process – A Case Study.” *Quality Engineering*. 23(1), 85-94.
 22. Reynolds, C., T. Kozman, and J. Lee (2011). “Training and Maintenance of Combined Heat and Power Systems.” *Distributed Generation and Alternative Energy Journal*. 26(1), 20-35.
 23. Kozman, T., B. Aulds and J. Lee (2011). “Energy Assessment and Conservation for University Environment.” *Energy Engineering*. 108(5), 54-62.
 24. Green, J., J. Lee and T. Kozman (2010). "Managing Lean Manufacturing in Material Handling Operations." *International Journal of Production Research*. 48(10), 2975-2993.
 25. Price, R., J. Lee and T. Kozman (2010). “Use of Competency-based Needs Analysis in Developing Employee Training Program,” *International Journal of Business and Public Administration*. 7(1), 117-130.
 26. Duhon, B. R, T. Kozman and J. Lee (2010). “Installing Vapor Recovery Unit and Instrument Air System in Oil and Gas Production Facility.” *Energy Engineering*. 107(4), 28-37.
 27. Kozman, T., C. Reynolds, and J. Lee (2010). “Combined Heat and Power Systems in University Environment.” *Distributed Generation and Alternative Energy Journal*. 25(4), 52-63.
 28. Galletti, D., J. Lee, and T. Kozman (2010). “Competitive Benchmarking for Fleet Cost Management.” *Total Quality Management & Business Excellence*. 21(9), 1047-1056.
 29. Boudreaux, J., J. Lee, W. Emblom and T. Kozman (2010). “Quality Inspection Planning of Oilfield Equipment Using Non-destructive Examination.” *Transactions of the North American Manufacturing Research Institution of SME 2010*. 38, 287-394.
 30. Kulkarni, N., W. Emblom, T. Kozman, J. Lee and K. Weinmann (2010). “The Development of a Strain Model for an Oval Aluminum Stamp Formed Pan.” *Transactions of the North American Manufacturing Research Institution of SME 2010*. 38, 585-592.

31. Olsen, C., T. Kozman, and J. Lee (2009). "Equipment Sizing and Economic Analysis for CHP Natural Gas Liquids Recovery System." *Energy Engineering*. 106(1). December-January, pp 7-23.
32. Carriere, J., T. Kozman, and J. Lee (2009). "Permitting Procedures and Challenges of CHP Implementation." *Cogeneration & Distributed Generation Journal*. 24(1). 6-16.
33. Kaur, B., T. Kozman, and J. Lee (2009). "Design Procedure of Heat Recovery Unit for Combined Heat and Power System." *Cogeneration & Distributed Generation Journal*. 24(2). 10-18.
34. Kozman, T., J. Lee, G. Wang and W. Emblom (2009). "Plant Energy Operating Expenses using Non-Traditional Fuels for Combined Heat and Power System." *International Journal of Power and Energy System*. 29(2), 1-6.
35. Lee, J., C. Du, T. Kozman and W. Emblom (2009). "Employee and Machine Productivity Evaluation using Manufacturing Information System." *Transactions of the North American Manufacturing Research Institution of SME 2009*. Vol. 37. 597-604.
36. Lau, C. H., J. Lee, and T. Kozman (2009). "Profitability Analysis for Voice over IP (VoIP) Service Providers Using Simulation." *International Journal of Modeling and Simulation*. 29(4), 387-393.
37. Lee, J., P. Beekharry and T. Kozman (2009). "Shipping Operations Quality Assurance for Fiberglass Reinforced Plastics Manufacturers." *Total Quality Management & Business Excellence*. 20(11), 1241-1248.
38. Membreno, H., J. Lee, and T. Kozman (2009). "Applying Lean Six-Sigma in Water Conditioning Industry." *International Journal of Operations and Quantitative Management*. 15(4), 259-271.
39. Reynolds, C., T. Kozman, and J. Lee (2008). "A Combined Heat and Power System for College of Engineering - University of Louisiana Lafayette." *Energy Engineering*. 105(4), June-July, 6-20.
40. Kozman, T., J. Lee, B. Kaur, H. Clarke, G. Dardy, M. Gennuso (2008). "Preliminary Design and Piping Diagram for a Combined Heat and Power System for the College of Engineering at the University of Louisiana Lafayette Using Donated Equipment." *Cogeneration & Distributed Generation Journal*. 23(1). 22-30.
41. Carriere, J. T. Kozman, and J. Lee (2008). "Management Procedure for Establishing a CHP System in Louisiana." *Strategic Planning for Energy and the Environment Journal*. 27(4), 6-19.
42. Ancelet, J., J. Lee and T. Kozman (2008). "A Revenue-based Heuristic Algorithm for Determining Economic Manufacturing Batch Quantities." *International Journal of Operations and Quantitative Management*. 14(2), pp 99-108.
43. Lee, J. and C. Lau (2007). "Corporate Modeling: ERP Systems and Simulation Models," *Encyclopedia of Electrical and Electronics Engineering*, Wiley and Sons. 7 pages.
44. Kozman, T., J. DaCosta, and J. Lee (2007). "Combined Heat and Power System for a Carbon Black Manufacturer: System Selection and Specification." *Cogeneration & Distributed Generation Journal*. Vol. 22(4), 6-22.
45. Lee, J. and T. Srisawat (2006). "Effect of Manufacturing System Constructs on Pick-up and Drop-off Strategies of Multiple-load AGVs," *International Journal of Production Research*, 44(4), 653-674.

46. Beekharry, P., J. Lee, and T. Davies (2000). "Quality Audit and Control for Pultrusion Process," *International Journal of Industrial Engineering*, 7(4), 331-335.
47. Lee, J. and R. Manasvee (1999), "Dispatching Rail-Guided Vehicles and Scheduling Jobs in A Flexible Manufacturing System," *International Journal of Production Research*, 37(1), 111-123.
48. Lee, J. (1999). "Corporate Modeling: Quality Planning Models," *Encyclopedia of Electrical and Electronics Engineering*, 4, 357-365, Wiley and Sons.
49. Lee, J. and S. Unnikrishnan. (1998). "Planning Quality Inspection Operations in Multistage Production Systems with Inspection Errors," *International Journal of Production Research*. 36(1), 141-155.
50. Stewart, B. and J. Lee. (1997). "A Decision Analysis Model for Comparing Well Completion Techniques," *International Journal of Production Economics*, 49, 189-204.
51. Lee, J., M. Lee and Z. Zhu. (1996). "WASA: A Decision Support System for Workstations Arrangement in Single-Vehicle Closed-Loop AGV Systems," *Computer and Industrial Engineering - An International Journal*, 30(1), 41-49, 1996.
52. Lee, J. (1996). "Composite Dispatching Rules for Multiple-Vehicle AGV Systems," *Simulation*. 66(2), 121-130.
53. Yingpunyachok, C., F. Chen and J. Lee. (1996). "Scheduling of RGVs in Load/Unload Area of FMS," *International Journal of Industrial Engineering*, 3(1), 11-20.
54. Lee, J., M. Tangjarukil and Z. Zhu (1996). "Load Selection of Automated Guided Vehicles in Flexible Manufacturing Systems," *International Journal of Production Research*, 34(12), 3383-3400.
55. Lee, J. and F. Chen. (1996). "Inspection Sequencing and Part Scheduling for Flexible Manufacturing Systems," *European Journal of Operational Research*, 95, 344-355.
56. Conner, S., J. Lee and C. Okoye (1995). "Simulation of Future Natural Gas Production and Exploration", *Simulation*, 64(4), 215-227.
57. Gullep, E., J. Lee and J. T. Huang. (1995). "Intelligent Operations for Cell-Driven Automated Storage and Retrieval Systems," *International Journal of Industrial Engineering*. 2(2), 99-104.
58. Lee, J., K. Movassaghi, and A. Kumat. (1995). "Decision Support Rules for Profile Design at Intersections," *Journal of Transportation Engineering*, 121(5). 391-396.
59. Zhu, Z., R. Heady, J. Lee (1994). "A Simple Procedure for Single Level Lot Sizing Problems," *Computer and Industrial Engineering - An International Journal*, 26(1), 125-131.
60. Zhu, Z., M. McKnew and J. Lee (1994). "Modeling Time-Variied Arrival Rates: An Application Issue in Queuing Systems," *Simulation*, 62(3), 146-154.
61. Lee, J., R. Irion, and T. Raz (1994). "Inspection Allocation in Flexible Manufacturing," *Manufacturing Review*, 7(2), 164-171.
62. Choi, H. G., Kwon, H. J. and J. Lee. (1994). "Traditional and Tandem AGV System Layouts: A Simulation Study," *Simulation*, 63(2), 85-93.

63. Movassaghi, K., J. Lee and A. Kumat (1994). "Geometrically Induced Roughness at Grade Breaks," *Transportation Research Record 1445*, National Research Council. 109-115.
64. Zhu, Z., J. Lee and N. Colletti (1993). "Reduction of Inventory Level and Shipment Delays in a Continuous Process Manufacturing System," *International Journal of Management and Systems*, 9(3), 321-330.
65. Lee, J., J. H. Ristroph, Z. Zhu and R. Manasvee (1993). "Performance Evaluation of Lot-Sizing Methods with Multiple Purchase Discounts in a Rolling Horizon Environment," *Production and Inventory Management Journal*, First Quarter, 50-57.
66. Lee, J. and T. Raz (1990). "A Branch-and-Bound Procedure for Robot Assembly Planning," *Computer and Industrial Engineering - An International Journal*, 18(3), 407-423.

Refereed Journals in Process:

1. Ben H'mida, J., J. Lee, "A Heuristic Algorithm for Batch Size Reduction in Oilfield Equipment Rental Industry." Submitted to *International Journal of Production Research*.
2. Neerukonda, S. K., J. Lee, and T. Chambers "Six Sigma Approach for Reliability Based Life Cycle Costing." Submitted to *TQM and Business Excellence*.
3. Gossen, W., T. Chambers, M. Pylla, and J. Lee. "Cost Saving Effects of Dynamic Pricing Models When Applied by A Commercial Customer Incorporating Energy Shifting Techniques". Submitted to *Journal of Renewable and Sustainable Energy*.
4. Song, J., B. Guo, B. and J. Lee. "Economic Analysis for Hydraulic Fracturing Sizes: a Novel Method to Obtain the Maximum NPV under Low Oil/Gas Price." In Process.
5. Dugas, C. and J. Lee. "Reliability-Based Procedures for Aircraft Maintenance." Submitted to *Journal of Quality in Maintenance Engineering*.
6. Lee, J. and C. Du. "Decision support system for shop floor performance evaluation." Submitted to *Industrial Management and Data Systems*.
7. Boudreaux, J., J. Lee and W. Emblom. "Quality Inspection Management for Ferrous Oilfield Equipments." Submitted to *European International Journal of Science and Technology*.

Conference Proceedings/Presentations:

1. Viera, R. J., J. Lee, S. A. McInerny and Z. Sardoueinassab (2015). "Lean Analysis of Industrial Energy Assessments", Industrial Energy Technology Conference (IETC 2015), New Orleans, LA, USA.
2. Osho, O., J. Lee, S. A. McInerny and Z. Sardoueinassab (2015). "Employee Based Energy Management Plan", Industrial Energy Technology Conference (IETC 2015), New Orleans, LA, USA.
3. Guiberteau, K. L., T. Kozman, J. Lee and Y. Liu (2014). "Guidelines in Wave Energy Conversion System Design", Proceedings of Industrial Energy Technology Conference (IETC 2014), New Orleans, LA, USA, ESL-IE-14-05-46, 8 pages.
4. Guiberteau, K. L., Y. Liu, J. Lee and T. Kozman (2014). "Potential of Development and Application of Wave Energy Conversion Technology in the Gulf of Mexico", Proceedings of Industrial Energy

- Technology Conference (IETC 2014), New Orleans, LA, USA, ESL-IE-14-05-52, 10 pages.
5. Regan, G., J. Lee and T. Kozman (2011). "Inventory Classification and Preventive Maintenance in Offshore Vessel Industry." Proceedings 41th SWDSI Annual Meeting, Houston, Texas. 751-759.
 6. Hincapie, J., J. Lee and W. Emblom (2011). "Sensitivity Analysis of Multiple Criteria Inventory Ranking Method for Oilfield Equipment Industry." Proceedings 6th ASME 2011 International Manufacturing Science and Engineering Conference (MSEC). Paper MSEC2011-50172. 9 pages.
 7. Price, R., J. Lee and T. Kozman (2010). "Use of Needs Analysis in Developing Employee Training Program," Proceedings 2010 IABPAD Conference. Orlando, FL.
 8. Kozman, T. and J. Lee (2010). "The Results of More Than 250 Industrial Assessments for Manufacturers by the Louisiana Industrial Assessment Center for the Past Ten Years," Proceedings 2009 Industrial Energy Technology Conference (IETC). ESL-IE-10/11. New Orleans, LA.
 9. Kozman, T., Carriere, J., and J. Lee (2009). "Implementing CHP in Louisiana: A Case Study," Proceedings 2009 Industrial Energy Technology Conference (IETC). New Orleans, LA. 9 pages.
 10. Kozman, T., B. Kaur, and J. Lee (2009). "Design of Heat Exchanger for Heat Recovery in CHP Systems," Proceedings 2009 Industrial Energy Technology Conference (IETC). New Orleans, LA. 7 pages.
 11. Aulds, B., T. Kozman, S. Tyagi and J. Lee (2009). "Methodology for Energy Assessment and Conservation," Proceedings 2009 ASME International Mechanical Engineering Congress and Exposition. Lake Buena Vista, FL. Paper# IMECE2009-13249.
 12. Green, J., T. Kozman and J. Lee (2008). "Management Objectives of Lean Manufacturing in Material Handling Operations." Proceedings 39th SWDSI Annual Meeting, Houston, Texas. Pages 503-512.
 13. Parekh, S., J. Lee and T. Kozman (2008). "A Decision Support System for Inventory Management." Proceedings 39th SWDSI Annual Meeting, Houston, Texas. Pages 513-522.
 14. Kozman, T., Reynolds, C. and J. Lee (2008). "A Preliminary Study on Designing Combined Heat and Power (CHP) System for University Environment," Proceedings 2008 Industrial Energy Technology Conference (IETC). New Orleans, LA. Paper# ESL-IE-08/05-40. 6 pages.
 15. Olsen, C., Kozman, T. and J. Lee (2008). "A Management Tool for Analyzing CHP Natural Gas Liquids Recovery System," Proceedings 2008 Industrial Energy Technology Conference (IETC). New Orleans, LA. Paper# ESL-IE-08/05-41. 7 pages.
 16. Kozman, T., J. Carrier, G. Wang and J. Lee (2008). "Preliminary Study of Plant Energy Operating Expenses using Non-Traditional Fuels for CHP." Gulf Coast Combined Heat & Power Application Center Workshop, Lafayette, LA.
 17. Lee, J., T. Kozman and X. Wang (2007). "Production Scheduling with Energy Efficient Constraints," Proceedings 2007 Industrial Energy Technology Conference (IETC). Paper# ESL-IE-07/05-10.
 18. Kozman, T., J. Dacosta and J. Lee (2007). "Selection and Specification of Combined Heat and Power System for a Carbon Black Manufacturer," Proceedings 2007 Industrial Energy Technology Conference (IETC). Paper# ESL-IE-07/05-44.
 19. Ancelet, J., J. Lee, and T. Kozman (2007). "Economic Manufacturing Batch Quantities based on Energy

Efficiency and Revenue for Oil Equipment Rental Industry," 2007 ACEEE Summer Study on Energy Efficiency in Industry, Display Presentation.

20. Lau, C., J. Lee, and T. Kozman (2007). "Profitability Analysis for Voice Over IP (VoIP) Based Calling Card Service Providers." Proceedings 2007 DSI Annual Meeting, 4751-4756.
21. Gaspard, A., J. Lee, G. Wang, and T. Kozman (2007) "Equipment Maintenance Program for Oilfield Service Industries." Proceedings 2007 IABPAD Fall Conference, New Orleans.
22. Lamson, G., J. Lee and T. Kozman (2007). "Decision Support Procedure for Component Reliability Analysis." Proceedings 2007 IABPAD Fall Conference, New Orleans.
23. Carriere, J. T. Kozman, and J. Lee (2007). "Management and Permitting Procedures for Establishing a CHP System in the State of Louisiana." Preventing Hurricane Damage Due to Loss of Building Controls: Opportunities for Combined Heat and Power (CHP) Workshop, August 9, 2007, New Orleans.
24. Du, C. and J. Lee (2003). "Development of a Shop Floor Performance Evaluation System," *Proceedings of 2003 Annual Meeting of Decision Science Institute Southwest Region*, Houston. Paper H431, 6 pages.
25. Maliesetty, M. and J. Lee (2003). "Performance Appraisal Method in Manufacturing Industries – Review and Suggestions," *Proceedings of 2003 Annual Meeting of Decision Science Institute Southwest Region*, Houston. Paper H432, 6 pages.
26. Akkaraju, S., J. Lee and T. Davies (2002). "Quality Management Strategies for Customer Requirements Based on ISO Standards," *Proceedings of the 7th International Conference on Industrial Engineering - Application and Practice*. Busan, Korea. Paper Number 304. 4 pages.
27. Galletti, D. and J. Lee (2002) "Benchmarking Procedure for Fleet Management," *Proceedings of 2002 ASEE Gulf-Southwest Annual Conference*, Lafayette, LA. Paper Number: VB2. 9 pages.
28. Galletti, D. and J. Lee (2002) "Fleet Operation Cost Analysis Using Competitive Benchmarking," *Proceedings of 2002 Annual Meeting of Decision Science Institute. San Diego, CA*. Paper Number: Quality-859. 6 pages.
29. Davies, T., J. Lee, and P. Beekharry (2001). "Shipping Operations Quality Control for A Fiberglass Reinforced Plastics Manufacturer," *Proceedings of the 6th International Conference on Industrial Engineering - Application and Practice*. San Francisco, CA. Paper: Davies1.pdf. 7 pages.
30. Dugas, Casey and J. Lee (2001). "Decision Problems in Aircraft Maintenance and Reliability Programs," *Proceedings of the 6th International Conference on Industrial Engineering - Application and Practice*. San Francisco, CA. Paper: Dugas.pdf. 9 pages.
31. Dugas, Casey and J. Lee (1999). "Reliability-based Design Procedure for Aircraft Maintenance Programs," *1999 Proceedings, 30th Annual Meeting of Decision Science Institute*. 1354-1356.
32. Parvin, B., J. Lee, and T. Davies. (1999), "Quality Control Program for Pultrusion Process." *Advances in Industrial Engineering Theory, Applications and Practice IV*. Paper ID: 129PB&JL&TD. 6 pages.
33. Lee, J. and R. Maneesavet. (1997). "Real-Time Scheduling of Load/Unload Operations in a Material Handling System with Rail-Guided Vehicles," *Proceedings of 28th Annual Conference of Southwest Decision Sciences Institute*. 84-86.

34. Lee, J. and X. Wang (1997). "Integrated Production Scheduling And Quality Planning for Continuous Manufacturing Systems," *Proceedings of 1997 International Conference on Agile Manufacturing*.
35. Wiwakanond, K. and J. Lee (1996). "Simulation of an Electronic Manufacturing System with Two-card Kanban," *28th IEEE Southeastern Symposium on System Theory*. 391-395.
36. Lee, J. and S. Unnikrishnan (1996). "Location and Assignment of Inspection Operations in Multistage Production Systems," *Proceedings of Twenty-seventh Annual Conference of Southwest Decision Sciences Institute*. 16-18.
37. Stewart, B. and J. Lee. (1996). "Cost Analysis of Well Completion Techniques," *Proceedings of First International Conference on Industrial Engineering - Application and Practice*. 1034-1039.
38. Srisawat, T. and J. Lee. (1996). "Composite Heuristic Operation Strategies for Multiple-Load AGV Systems," *Proceedings of First International Conference on Industrial Engineering - Application and Practice*. 810-815.
39. Lee, J., M. Tangjarukil and Z. Zhu (1995). "Operation Strategies of Multiple-Load AGV Systems," *Proceedings of Twenty-sixth Annual Conference of Southwest Decision Sciences Institute*. 38-40.
40. Lee, J. and Z. Zhu (1995). "Dispatching Rules of AGVs in Assembly Systems," *Proceedings of 1995 Southern Management Association Annual Meeting*. Orlando, Florida. 311-313.
41. Lee, J. and M. Lee (1995). "A Decision Support System for Workstation Location in Multiple Loop Manufacturing Systems," *Proceedings of 1995 Southern Management Information Systems Association Annual Meeting*. Gulfport, Mississippi. 12-14.
42. Lee, J. and X. Wang (1995). "A Decision Support System for Scheduling in Continuous Manufacturing Industry," *Proceedings of 1995 Science, Engineering and Technology Seminars*. Houston, Texas. MN.2.
43. Gullep, E., J. Lee and J. T. Huang (1994). "Intelligent Operation Strategies for Cell-Driven Automated Storage and Retrieval Systems," *EXPERTSYS-94, Artificial Intelligence and Expert Systems Applications*, 311-316.
44. Lee, J. (1994). "Dispatching AGVs in an Apparel Manufacturing System," *Proceedings of 5th Annual Academic Apparel Research Conference*, Lafayette, Louisiana. 10.1-10.8.
45. Lee, J., A. Sirichoompun and T. W. Liao (1994). "Inspection Allocation and Job Scheduling Rules for Serial Production Systems," *Proceedings of 1994 Science, Engineering and Technology Seminars*. Houston, Texas. ME.II.20-ME.II.22.
46. Conner, S., J. Lee and C. Okoye (1993). "A Simulation Model for Analysis of Long Term Natural Gas Commitments," *1993 Winter Simulation Conference Proceedings*. 1372-1373.
47. Dunham, D. and J. Lee. (1993) "Design of an Intelligent Facility Management System for Health Care Industry," *Proceeding 1993 Pan Pacific Conference on Information Systems*. 336-339.
48. Ristroph, J. H., J. Lee, R. Muralidharan, M. McDaniel, P. Templet, and G. VonBodungen (1992). "Air Quality, Industrial Engineers, and Computers," *Proceedings of 14th Conference on Computers and Industrial Engineering*, Orlando, Florida.
49. Zhu, Z., M. McKnew, J. Lee (1992). "Effects of Time-Variied Arrival Rates: An Investigation in

- Emergency Ambulance Service Systems," *1992 Winter Simulation Conference Proceedings*. Vol. 25, 1180-1186.
50. Lee, J. and R. Irion (1991). "Simulation of Inspection Allocation Heuristics in A Flexible Manufacturing System," *Issues in Design/Manufacture Integration*, DE-Vol. 39, 59-64.
 51. Meredith, P. H., J. H. Ristroph and J. Lee (1991). "Implementing JIT: The Dimensions of Culture, Management, and Human Resources," *Proceedings of Portland International Conference on Management of Engineering and Technology*, 448-451.
 52. McDaniel, M. D., J. Lee, R. Muralidharan and J. H. Ristroph (1991). "Computer Aided Modeling of Urban Ozone," *Proceedings of 13th Conference on Computers and Industrial Engineering*. 641-645.
 53. Saxena, A., C. M. Chang, H. B. Chow, and J. Lee (1990). "Evaluation of Heuristics for Inspection Station Allocation in Serial Production Systems," *1990 Winter Simulation Conference Proceedings*. 919-922.
 54. Huang, J. T., J. Lee, and B. Bahr (1990). "Dynamic Error Prediction of High Speed Seam-Tracking Robots," *Proceedings of Manufacturing International '90*. 231-235.
 55. Lee, J., R. Choi and M. Khaksar (1990). "Simulation of Automatic Guided Vehicle Systems," *Proceedings of 12th Conference on Computer and Industrial Engineering*. 318-321.
 56. Mongalo, M. A. and J. Lee (1990). "A Comparative Study of Methods for Probabilistic Project Scheduling," *Proceedings of 12th Conference on Computer and Industrial Engineering*. 505-509.
 57. Lee, J. and T. Raz (1989). "A Branch-and-Bound Procedure for Robot Assembly Planning," *Proceedings of 11th Conference on Computer and Industrial Engineering*. Vol. 17, Nos 1-4, 215-220.
 58. Lee, J. and T. Raz (1987). "Optimization of Robot Assembly Planning," *Proceedings of 1987 IEEE International Conference on Robotics and Automation*. Vol. 2, 985-990.
 59. Lee, J., V. Kachitvichyanukul and T. Raz (1985). "Development of A Computer Based Robot Control Language," *Computer and Industrial Engineering*, Vol. 9, Supplement 1, 10-14.
 60. Kachitvichyanukul, V., T. Raz, J. Lee and E. Paul (1984). "DRG Resource Utilization Modeling System," *Proceedings of Simulation in Health Care Delivery Systems*. 91-94.
 61. Raz, T., V. Kachitvichyanukul, E. Paul and J. Lee (1984). "DRUMS - A Simulation Tool for Hospitals," *Proceedings of Annual International Industrial Engineering Conference*. 251-255.

FUNDED RESEARCH ACTIVITIES

Research Projects:

1. Co-PI, Louisiana Smart and Secure Energy Laboratory, June 2014 – May 2017. \$270,000. PI/PD: Sally Anne McInerny.
2. Research Director/Co-PI, ARRA Ten Special Assessments, 12/1/2009-03/01/2011, \$100,000. PI/PD: Ted Kozman.
3. Research Director/Co-PI, State-wide Save Energy Now, 7/1/2009-7/1/11, US DOE, \$408,628. PI/PD: Ted Kozman.

4. Research Director/Co-PI, Industrial Assessment Center FY10 funding, 10/01/2009-09/30/2010, \$100,000. PI/PD: Ted Kozman.
5. Research Director/Co-PI, Industrial Facility Initiative for Keesler AFB in Biloxi, MS, ORNL subcontract, 9/01/2009-12/31/2010, \$21,345. PI/PD: Ted Kozman.
6. Co-PI, Smart Grid Investment Program, 7/1/2009-7/1/2012, US DOE subcontract, \$64,170. PI/PD: Ted Kozman.
7. Research Director/Co-PI, Industrial Assessment Center (Amendment #5), 1/14/2008-8/31/2011, US DOE, \$40,000. PI/PD: Ted Kozman.
8. Research Director/Co-PI, Industrial Assessment Center (Amendment #6), 3/28/2008-8/31/2011, US DOE, \$40,000. PI/PD: Ted Kozman.
9. Research Director/Co-PI, Industrial Assessment Center (Amendment #7), 5/15/2008-8/31/2011, US DOE, \$30,000. PI/PD: Ted Kozman.
10. Research Director/Co-PI, Industrial Assessment Center (Amendment #8), 12/9/2008-8/31/2011, US DOE, \$40,000. PI/PD: Ted Kozman.
11. Research Team Member, "BeauSoleil Louisiana Solar Home," U. S. Department of Energy, 2008-2009, \$99,968.4. Team Coordinator: Geoff Gjertson.
12. Research Director/Co-PI, Industrial Assessment Center (Primary), 9/1/2006-8/31/2011, US DOE, \$1,400. PI/PD: Ted Kozman.
13. Principal Investigator, "Analysis of Quality of Service in IP Networks," Generis Technologies. 8/06-6/07. \$10,080.
14. Principal Investigator, "Integrated Process Design and Materials Planning for Medium Sized Manufacturers," Louisiana BOR Industrial Ties Research Program. 6/01-6/05. \$157,693. Co-Principal Investigator: Thomas W. Davies.
15. Co-Principal Investigator, "Implementing Total Quality Technology in Discrete Manufacturing Systems," Louisiana BOR Industrial Ties Research Program. 6/98-6/02. \$105,000. Principal Investigator: Thomas W. Davies.
16. Co-Principal Investigator, "Design of the Shipyard of the Future," US Department of Transportation Maritime Administration. 5/97-1/98. \$97,515. Principal Investigator: Theodore Kozman.
17. Principal Investigator, "Quality Inspection Models for Electronics Manufacturing in Aerospace Industry," LaSPACE Program. 11/96-8/97. \$14,995.
18. Principal Investigator, "A Computerized Scheduling System for Continuous Manufacturing Industry," LEQSF Research Competitiveness Program. 6/95-6/97. \$93,690. Co-Principal Investigator: Zhiwei Zhu.
19. Principal Investigator, "Operation Strategies of Advanced Material Handling Systems," University of Southwestern Louisiana Summer Research Award. 6/94-7/94, \$3,950.
20. Co-Principal Investigator and Coordinator, "Toxic Release Inventory System Data Quality Assurance,"

Environmental Protection Agency through Louisiana Department of Environmental Quality. 7/92-4/93, \$97,819. Other Principal Investigators: C. S. Fang and John H. Ristroph.

21. Co-Principal Investigator, "Roughness Analysis of Grade Breaks at Intersections," Louisiana Transportation Research Center. 7/90-12/91, \$74,985. Principal Investigator: Kam K. Movassaghi.
22. Principal Investigator, "Design and Planning of Advanced Manufacturing Systems," University of Southwestern Louisiana Summer Research Award. 6/90-7/90, \$3,450.
23. Co-Principal Investigator, "Computer Aided Modeling of Ozone on a Regional Basis," Environmental Protection Agency through Louisiana Department of Environmental Quality. 1/90-6/90, \$40,000. Principal Investigator: John H. Ristroph.

Program Enhancement Projects:

1. PI, Graduate Fellows in Systems Engineering Focusing on Smart Engineering Technology, LA BORSF, 2018-2022, \$120,000.
2. PI, Graduate Fellows in Systems Engineering Focusing on Lean Six Sigma Research, LA BORSF, 2017-2021, \$120,000.
3. PI, Recruiting Superior PhD Students in Emerging Research Areas of Systems Engineering, LA BORSF, 2016-2020, \$120,000.
4. PI, Recruiting Superior PhD Students in Systems Engineering, LA BORSF, 2015-2019, \$240,000.
5. Investigator, "Multidisciplinary Faculty Enhancement to Improve Abilities to Teach, Publish, Seek Sponsored Research, and Contribute to Economic Development in Apparel Manufacturing," LEQSF Enhancement Program. 6/93-5/94, \$83,000. Principal Investigators: Lawrence E. Scheuermann and John H. Ristroph.
6. Investigator, "A Joint Decision Support Systems Laboratory: Enhancing Business and Engineering Management Productivity Using a Distributed Processing Computer Laboratory," LEQSF Enhancement Program. 6/93-6/94, \$70,000. Principal Investigators: Paul Meredith and Kam K. Movassaghi.

Economic Development Projects:

1. Consultant, "Inventory Management System for A Pipe Tool Plant," Shamrock Pipe Tools, Inc. through Louisiana Manufacturing Technical Extension Center. 2/98 – 5/98, \$5,850. Other Consultants: Rick Whitlock, Jennifer Bay.
2. Consultant, "Shop Floor Layout and Material Flow Analysis," Louisiana Manufacturing Technical Extension Center. 2/98 – 4/98, \$3,250. Other Consultants: Rick Whitlock, Jennifer Bay.
3. Consultant, "Computer Assembly Requirement Analysis and Layout for IBM Authorized Assembler Program," Timetrend Computers through Louisiana Manufacturing Technical Extension Center. 6/97-11/97. \$9,000. Other Consultant: Rick Whitlock.

Research Reports:

1. Kozman T. and J. Lee (2008). "Industrial Assessment Report LL0291—Begnaux—Lafayette, LA—1/09/08". A technical report prepared for U. S. DOE.

2. Kozman T. and J. Lee (2008). "Industrial Assessment Report LL0292—Stuller—Lafayette, LA—2/27/08". A technical report prepared for U. S. DOE.
3. Kozman T. and J. Lee (2008). "Industrial Assessment Report LL0298—Crowley Rice Mill—Crowley, LA—4/23/08". A technical report prepared for U. S. DOE.
4. Kozman T. and J. Lee (2008). "Industrial Assessment Report LL0299—Bollinger Lockport—Lockport, LA—6/10/08". A technical report prepared for U. S. DOE.
5. Kozman T. and J. Lee (2008). "Industrial Assessment Report LL0300—Bollinger Amelia—Amelia, LA—6/12/08". A technical report prepared for U. S. DOE.
6. Kozman T. and J. Lee (2008). "Industrial Assessment Report LL0302—Chef John Folse—Donaldsonville, LA—6/20/08". A technical report prepared for U. S. DOE.
7. Kozman T. and J. Lee (2008). "Industrial Assessment Report LL0303—Savioe's Foods—Opelousas, LA—7/09/08". A technical report prepared for U. S. DOE.
8. Kozman T. and J. Lee (2008). "Industrial Assessment Report LL0305—Superior Machine & Hydraulics—New Iberia, LA—8/21/08". A technical report prepared for U. S. DOE.
9. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0271—BASF—Shreveport, LA—1/09/07". A technical report prepared for U. S. DOE.
10. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0270—Inferno—Shreveport, LA—1/11/07". A technical report prepared for U. S. DOE.
11. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0272—Libbey—Shreveport, LA—1/23/07". A technical report prepared for U. S. DOE.
12. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0273—Frymaster—Shreveport, LA—2/6/07". A technical report prepared for U. S. DOE.
13. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0274—Frymaster—Shreveport, LA—2/13/07". A technical report prepared for U. S. DOE.
14. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0275—ConocoPhillips GCLP—Sulphur, LA—3/15/07". A technical report prepared for U. S. DOE.
15. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0276—Advanced Products—Scott, LA—5/3/07". A technical report prepared for U. S. DOE.
16. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0277—SEN Workshop—Alexandria, LA—6/7/07". A technical report prepared for U. S. DOE.
17. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0278—Samson Rope—Scott, LA—5/16/07". A technical report prepared for U. S. DOE.
18. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0279—GE Plastics—Bay St. Louis, MS—5/30/07". A technical report prepared for U. S. DOE.
19. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0282—Seal Craft—Shreveport, LA—6/21/07". A technical report prepared for U. S. DOE.

20. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0281—Coleman Cable, Inc.—Texarkana, AR—6/28/07". A technical report prepared for U. S. DOE.
21. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0280—AERO, Inc.—Texarkana, AR—7/18/07". A technical report prepared for U. S. DOE.
22. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0283—SEN Workshop—Little Rock, AR—8/2/07". A technical report prepared for U. S. DOE.
23. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0284—Land O' Frost—Searcy, AR—8/1/07". A technical report prepared for U. S. DOE.
24. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0285—Thompson Equipment Co.—New Orleans, LA—8/7/07". A technical report prepared for U. S. DOE.
25. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0286—Grupo Antolin—Shreveport, LA—8/15/07". A technical report prepared for U. S. DOE.
26. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0287—Honiron—Jeanerette, LA—10/29/07". A technical report prepared for U. S. DOE.
27. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0288—Haynes International—Arcadia, LA—11/7/07". A technical report prepared for U. S. DOE.
28. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0289—Cooper Tires—Texarkana, AR—11/29/07". A technical report prepared for U. S. DOE.
29. Kozman T. and J. Lee (2007). "Industrial Assessment Report LL0290—Precoat Metals of Houston—Houston, TX—11/14/07". A technical report prepared for U. S. DOE.
30. Kozman T. and J. Lee (2006). "Industrial Assessment Report LL0263—CertainTeed Roofing Products—Shreveport, LA—9/1/06". A technical report prepared for U. S. DOE.
31. Kozman T. and J. Lee (2006). "Industrial Assessment Report LL0264—Big River Industries—Ervinville, LA—9/5/06". A technical report prepared for U. S. DOE.
32. Kozman T. and J. Lee (2006). "Industrial Assessment Report LL0268—Guidry's Cat Fish—Breaux Bridge, LA—9/22/06". A technical report prepared for U. S. DOE.
33. Kozman T. and J. Lee (2006). "Industrial Assessment Report LL0266—Anchor Packaging—Paragould, AR—10/13/06". A technical report prepared for U. S. DOE.
34. Kozman T. and J. Lee (2006). "Industrial Assessment Report LL0267—Anchor Packaging—Marmaduke, AR—10/14/06". A technical report prepared for U. S. DOE.
35. Kozman T. and J. Lee (2006). "Industrial Assessment Report LL0269—Lafourche Sugars—Thibedeaux, LA—11/10/06". A technical report prepared for U. S. DOE.
36. Kozman T. and J. Lee (2006). "Industrial Assessment Report LL0265—SEN Workshop—Shreveport, LA—12/12/06". A technical report prepared for U. S. DOE.
37. Lee, J., S. Parekh, and T. Davies. (2005). "Decision Support System for Inventory Management". A technical report prepared for Frank's Casing Crew.

38. Wu, Y, T. Davies, and J. Lee. (2005). "Computerized Database Decision Management System in Production Traveler Sheet". A technical report prepared for Frank's Casing Crew.
39. Singh, A., J. Lee, and T. Davies. (2005). "A Quality Information System for Job Debriefing". A technical report prepared for Frank's Casing Crew.
40. Devadas, H., T. Davies and J. Lee. (2005). "Remote Data Access Procedures in a Secure Distributed Environment". A technical report prepared for Frank's Casing Crew.
41. Shin, H, J. Lee and T. Davies. (2004). "Database Modification Procedure". A technical report prepared for Frank's Casing Crew.
42. Du, C., J. Lee and T. Davies. (2003). "Shop Floor Performance Evaluation System," A technical report prepared for Weatherford International.
43. Lau, C. P., J. Lee and T. Davies. (2003). "A Computerized Production System". A technical report prepared for Weatherford International.
44. Movassaghi, K., J. Lee and A. Kumat, "Roughness Analysis of Grade Breaks at Intersections," Louisiana Transportation Research Center, Report #257, March 1993.
45. Lee, J., C. S. Fang, J. H. Ristroph, S. Unnikrishnan, and R. Muralidharan (1993). "Procedures for Error Detections in TRI Databases," Research Report Submitted to Louisiana Department of Environmental Quality.
46. Lee, J., C. S. Fang, J. H. Ristroph, S. Unnikrishnan, and R. Muralidharan (1993). "Data Quality Reviews for Top TRI Chemicals with Process Analysis," Research Report Submitted to Louisiana Department of Environmental Quality.
47. Lee, J., C. S. Fang, J. H. Ristroph, S. Unnikrishnan, and R. Muralidharan (1993). "Comparisons of TRI and RCRA Databases Based on ABC Analysis, 1987-1990," Research Report Submitted to Louisiana Department of Environmental Quality, May, 1993.
48. Lee, J., C. S. Fang, J. H. Ristroph, S. Unnikrishnan, and R. Muralidharan (1993). "Identification of TRI Chemicals with Temporal Irregular R/T Patterns," Research Report Submitted to Louisiana Department of Environmental Quality.
49. Lee, J., C. S. Fang, J. H. Ristroph, S. Unnikrishnan, and R. Muralidharan (1993). "A Study of Data Relations for High Priority Toxic Chemicals," Research Report Submitted to Louisiana Department of Environmental Quality.
50. Muralidharan, R., J. Lee and J. H. Ristroph (1990) "Computer Aided Modeling of Ozone on a Regional Basis," Research Report Submitted to Louisiana Department of Environmental Quality.

GRADUATE STUDENT RESEARCH SUPERVISED

Master's Theses Chaired/Co-Chaired

1. "Process Improvement in Pipe Connectors Manufacturing," Ory Huval, Fall 2016. University of Louisiana at Lafayette.
2. "Effects of Qualitative Factor and Weight Assignment in Multi-Criteria Inventory Ranking Method," Manish, KC, Fall 2014. University of Louisiana at Lafayette.

3. "Energy Management Planning in the Oilfield Service Industry," Oluseun Julius Osho, Spring 2013. University of Louisiana at Lafayette.
4. "Six Sigma Based Fixture Design and Process Improvement," Anjani Misra, Spring 2013. University of Louisiana at Lafayette.
5. "A Procedure to Minimize Work Stoppages and Labor Cost in Manufacturing Systems," Luis Quilarque, Fall 2007. University of Louisiana at Lafayette.
6. "Reliability Methods for Major Aircraft Components," Garret Lamson, Summer 2006. University of Louisiana at Lafayette.
7. "Applying Lean Six-Sigma in a Water Conditioning Equipment Assembler," Hector Membreno, Fall 2006. University of Louisiana at Lafayette.
8. "The Promotion Process Through the Viewpoint of Managers and Engineers: What Makes an Engineer Qualified to be a Manager?" LaWanda Jason, Spring 2005. University of Louisiana at Lafayette.
9. "Database Upgrading and Design Techniques for Manufacturing Industries," Heechan Shin, Spring 2004. University of Louisiana at Lafayette.
10. "An Integrated Inventory Ranking System for Inventory Management," Sidhar Parekh, Fall 2004. University of Louisiana at Lafayette.
11. "Management of A Resource-Constrained Hybrid Local Area Network in A University Environment," Harvey Ozbirn, Fall 2004. University of Louisiana at Lafayette.
12. "Time-phased Part Planning with Quality Remanufacturing, Repair and Maintenance," Louis Ganucheau, Spring 2003. University of Louisiana at Lafayette.
13. "Reservoir Simulation: An Aid in Managing Uncertainty," Lubbie Jenkins, Fall 2003. University of Louisiana at Lafayette. (Co-chaired with Dr. Herman Rieke)
14. "Quality Management in Louisiana Sugar Industry," William Klentzman, Spring 2002. University of Louisiana at Lafayette.
15. "A Practical Heuristic Approach For Determining Economic Manufacturing Batch Quantities," Jonathan D. Ancelet, Spring 2002. University of Louisiana at Lafayette.
16. "Integrating Quality Management Strategies in Customer and Supplier Relationships Based on ISO Standards," Sangeeta Akkaraju, Spring, 2001. University of Louisiana at Lafayette.
17. "Private Fleet Quality Management and Optimization Strategies," Dena Gallatti, Fall 2001. University of Louisiana at Lafayette.
18. "Quality Inspection Planning of Ferrous Oilfield Related Components Using Magnetic Particle and Ultrasonic Testing Technology," Jude R. Boudreaux, Fall 2001. University of Louisiana at Lafayette.
19. "A Value Engineering Approach for Development Projects," Brian J. Headley, Fall 2001. University of Louisiana at Lafayette.

20. "TQM Based Equipment Maintenance Program for Oilfield Service Companies," Anthony Jade Gaspard, Fall 2001. University of Louisiana at Lafayette.
21. "Implementing Quality Control Program in Fiberglass Fabrication Industry," Parvin Beekharry, Summer, 2000. University of Louisiana at Lafayette.
22. "Utilizing Quality Tools to Achieve Continuous Safety Improvement," Kristian L. Magar, Fall, 2000. University of Louisiana at Lafayette.
23. "Development of a Reliability Based Aircraft Maintenance Program," Casey Dugas, Fall, 1998. University of Southwestern Louisiana.
24. "Scheduling and Dispatching Decisions for Rail Guided Vehicles in a FMS," Roonraj Maneesavet, Spring 1996. University of Southwestern Louisiana.
25. "Interaction Between System Design and Composite Pick-up/Drop-off Rules in Multiple-Load AGVs," Teerachat Srisawat, Spring 1996. University of Southwestern Louisiana.
26. "A Decision Support System for Production Scheduling in Continuous Process Manufacturing Plants," Xinchun Wang, Summer 1994. University of Southwestern Louisiana.
27. "Location and Assignment of Inspection Operations in Multistage Production Systems," S. Unnikrishnan, Fall 1994. University of Southwestern Louisiana.
28. "Load Selection Heuristics for Multi-Load AGV Systems," Montri Tangjarukil, Fall 1994. University of Southwestern Louisiana.
29. "Scheduling of RGVs in Load/Unload Area of FMS," Charoenchai Yingpunyachok, Fall 1994. University of Southwestern Louisiana. (Co-Chaired with Dr. F. Chen)
30. "A Study of Future Demand and Supply of Natural Gas," Steve Conner, Spring 1993. University of Southwestern Louisiana.
31. "The Investigation of Parametric Analysis as A Tool in Selecting the Constraint to be Relaxed in A Lagrangian Relaxation," Joel Guichard III, Spring 1992. University of Southwestern Louisiana. (Co-Chaired with Dr. Kam Movassaghi)
32. "Roughness Analysis of Grade Breaks at Intersections," Amit Kumat, Spring 1992. University of Southwestern Louisiana.
33. "Grouping and Placement of Workstations in Modified Tandem AGV Systems," Moon Lee, Spring 1992. University of Southwestern Louisiana.
34. "An Intelligent Facility Management System for Health Care Industry," David Dunham, Fall 1992. University of Southwestern Louisiana.

Master's Final Research Projects Chaired (Non-thesis Option)

1. "Applying VSM to Construction Permit Applications." Mark Boudreaux, Fall 2017. University of Louisiana at Lafayette.
2. "Design and Development of the Assembly Assistant Using DFSS Methodology." Andreau

- Trepagnier, Fall 2017. University of Louisiana at Lafayette.
3. "Lean Six Sigma Application in Petroleum Industry." Somto, Spring 2017. University of Louisiana at Lafayette.
 4. "Six sigma based maintenance procedure for critical pressure control equipment for oil and gas wells." Brandon S. Leger." Fall 2016. University of Louisiana at Lafayette.
 5. "Reliability Centered Replacement Interval for Fleet Management." Suresh Neerukonda, Spring 2015. University of Louisiana at Lafayette.
 6. "Lean Energy Assessment Procedure." Raul Viera, Fall 2014. University of Louisiana at Lafayette.
 7. "Industrial Energy Assessment Data Analysis." Abiodun Babalola, Spring 2014. University of Louisiana at Lafayette (Co-chaired with Dr. Sally A. McNerny).
 8. "Six-Sigma Approach to Energy Management Planning." Kirkrai Yuvamitra, Summer 2011. University of Louisiana at Lafayette.
 9. "Value Stream Mapping of Rope Manufacturing: A Case Study." Korakot Yuvamitra, Summer 2009. University of Louisiana at Lafayette.
 10. "Lean Construction Submittal Process – A Case Study." Debra Garrett., Summer 2009. University of Louisiana at Lafayette.
 11. "Project and Quality Management in Land Surveys," Robert Price, Spring 2009. University of Louisiana at Lafayette.
 12. "Preventive Maintenance Based Inventory Management." Grant Regan, Fall 2007. University of Louisiana at Lafayette.
 13. "Inventory Management for Remanufacturing Industry." Mohammad T. AlSalhi, Fall 2007. University of Louisiana at Lafayette.
 14. "Integrating Lean and Six Sigma." Mamta R. Kairuppala, Fall 2007. University of Louisiana at Lafayette.
 15. "Profitability Analysis for Voice over IP (VoIP) Service Providers Using Simulation." Chun Hong Lau, Spring 2007. University of Louisiana at Lafayette.
 16. "Effective Lean Enterprise Practices in Industry." Ife Ogbunuju, Spring 2007. University of Louisiana at Lafayette.
 17. "Implementing a Lean Manufacturing Plan," Ryan Henderson, Fall 2006. University of Louisiana at Lafayette.
 18. "Web-based Reservation Management System for Computer Laboratory," Swati Apte, Fall 2006. University of Louisiana at Lafayette.
 19. "Integrating Aspects of ISO 9000 for Operations Management of Small Businesses," Ryan Meaux, Fall 2006. University of Louisiana at Lafayette.

20. "Quality Information System for Equipment Rental Industries," Anupama Singh, Fall 2005. University of Louisiana at Lafayette.
21. "Remote Data Access Procedures in a Secure Distributed Environment," Hari Devadas, Fall 2005. University of Louisiana at Lafayette. (Co-chaired with T. Davies)
22. "Computerized Database Decision Management System in Production Traveler Sheet," Yi-Hsien Wu, Spring, 2005. University of Louisiana at Lafayette. (Co-chaired with T. Davies)
23. "Project Scheduling and Management for Robotic Research Projects," Alok Singh, Fall, 2004. University of Louisiana at Lafayette.
24. "Compensation and Appraisal Methods," Brenda LeBlanc, Spring, 2004. University of Louisiana at Lafayette.
25. "An Integrated MRP/DSS Approach for Production Planning in Discrete Manufacturing Industries," Reetika Datta, Fall, 2003. University of Louisiana at Lafayette.
26. "Performance Appraisal Methods in Manufacturing Management," Mahesh Maliesetty, Spring 2003. University of Louisiana at Lafayette.
27. "Benchmarking Application to Enhance Optimal Throughput and Ensure Customer Satisfaction," Rex H. Steele Jr., Spring, 2000. University of Louisiana at Lafayette.
28. "Procedure to Implement a New Production Line in Glass Industry" Kevin Boudreaux, Spring 2000. University of Louisiana at Lafayette.
29. "A Practical Risk Analysis Model for Determining Optimum Completion Technique," Brian Steward, Fall 1994. University of Southwestern Louisiana.
30. "Simulation of an Electronic Manufacturing System with Two-card Kanban," Kittipong Wiwakanond, Fall 1994. University of Southwestern Louisiana.
31. "Simulation Study for the Selection and Design of Material Handling Devices in Flexible Manufacturing Systems," Mustapha Alameddine, Spring 1993. University of Southwestern Louisiana.
32. "Psychological Considerations for Implementation of Total Quality Management Program," Stephen Hennigan, Fall, 1991. University of Southwestern Louisiana.
33. "Methods for Constrained Resource Scheduling in Project Management," James Strother, Summer, 1991. University of Southwestern Louisiana.
34. "Sequencing and Location Heuristics for Robot PCB Assembly," Pensri Srisurapol, Spring, 1991. University of Southwestern Louisiana.
35. "Inspection Allocation and Scheduling Rules in Flexible Manufacturing Systems," Adisorn Sirichoompun, Spring 1991. University of Southwestern Louisiana.
36. "Evaluation of MRP Lot Sizing Algorithms with Multiple Purchase Discounts," Manasvee Ruangdet, Fall 1990. University of Southwestern Louisiana.

37. "A Study of Assembly Line Balancing Heuristics," Supadit Kobkurkul, Fall 1990. University of Southwestern Louisiana.
38. "Just-In-Time and MRP Scheduling," Guan Chong Goh, Summer 1990. University of Southwestern Louisiana.
39. "INCID: An Expert Inventory Control System for Independent Demand Problems," Timotius Wibowo, Spring 1990. University of Southwestern Louisiana.
40. "A Study of Dispatching Automated Guided Vehicles in Assembly Systems," Emmanuel Apande, Spring 1990. University of Southwestern Louisiana.
41. "A Study of Heuristics for Inspection Location in Flexible Manufacturing Systems," Robert Irion, Fall 1989. University of Southwestern Louisiana.
42. "A Comparative Study of Methods for Probabilistic Project Scheduling," Marco Mongalo, Fall 1989. University of Southwestern Louisiana.
43. "Lagrangian Relaxation Method with Linear Programming System," Thanet Boatham, Spring 1989. University of Southwestern Louisiana.
44. "Evaluation of Automated Guided Vehicle Systems by Simulation," Majid Khaksar, Spring 1988. Montana State University.

Master's Independent Research Projects

1. "Operation Strategy of Cell Based Automated S/R Systems," S. Paranthanate, Spring, 1998. University of Southwestern Louisiana.
2. "Implementation of A Computerized Scheduler for Continuous Manufacturing System," S. Krishnamurthy, Fall, 1995. University of Southwestern Louisiana.
3. "Oil and Gas Production Models," R. Maneesavet, Summer, 1994. University of Southwestern Louisiana.
4. "Facility Layout Methods for Flexible Manufacturing Systems," T. Srisawat, Summer, 1994. University of Southwestern Louisiana.
5. "Evaluation of AGV Workstation Location Algorithms with Simulation," Cheng-En Sung, Spring, 1992. University of Southwestern Louisiana.
6. "Comparison of JIT and Traditional Production Systems," Surya Sagi, Spring, 1992. University of Southwestern Louisiana.
7. "Planning and Operation Problems in Flexible Manufacturing Systems," Adisorn Sirichoompun, Spring, 1991. University of Southwestern Louisiana.
8. "Application of Fuzzy Sets Theory in Engineering Management," James Strother, Fall, 1990. University of Southwestern Louisiana.
9. "A Study of Expert System Tools," Mustapha Alameddine, Fall, 1990. University of Southwestern Louisiana.

10. "AI Applications in Robotics," Timotius Wibowo, Spring, 1990. University of Southwestern Louisiana.

PROFESSIONAL AFFILIATIONS

Institute of Industrial Engineers (IIE)
Decision Sciences Institute (DSI)
Society of Computer Simulation (SCS)

PROFESSIONAL SERVICES

International Advisory Committee, International Conference on IE-AP.
Program Review Committee, International Conference on ICPQR
Editorial Board Member of International Journal of Industrial Engineering, and International Journal of Operations and Quantitative Management
Publication Referee for a number of refereed journals such as Simulation, Computers and Industrial Engineering: An International Journal, International Journal of Management and Systems, and Journal of Advanced Manufacturing Technology
Publication Referee for a number of refereed conference proceedings

HONORS

College's Nominee for Excellence in Teaching Award, University of Louisiana at Lafayette, 2016.
College's Nominee for Distinguished Professor, University of Louisiana at Lafayette, 2012.
Keynote speaker, Alumni Distinguished Lecture Series, Tunghai University.
February 01, 2010 to July 31, 2010.
Distinguished Alumni, Department of Industrial Engineering, Tunghai University, Taiwan.
May 14, 2010.
Who's Who in Science and Engineering Since 2000.
Who's Who Among America's Teachers, 1998.
College's Nominee for Distinguished Professor, University of Louisiana at Lafayette, 1997.
Blue Key Alumni Faculty Excellence Award, Departmental Nominee, 1991.
Outstanding International Student Advisor, Selected by Who's Who Among International Students in American Universities and Colleges, 1990.

UNIVERSITY AND COMMUNITY SERVICES

State Level

BOR Micro-manufacturing Roundtable, University Representative

University Level

1. Committee Assignments:
 - Graduate Council, College Representative
 - Graduate Writing Committee, Chair
 - Graduate Faculty Review Committee, Member
 - Faculty Senate, Representative
 - Affirmative Action Committee, Member
 - Library Committee, Member
 - SEI Committee, Member
 - Performance Appraisal Subcommittee under Conference Committee, Member
2. Other Activities:
 - Faculty advisor of Taiwanese Students Association for several years.

Recruitment: Performed recruiting activities to attract students to our program/university.

College Level

1. Committee Assignments:
Computer Committee, Member.
Peer Review Committee, Chair/Member.
ENGR Course Committee, Member.
Manufacturing PhD Program Development. Participant.
2. Other Activities:
BORSF Proposal Internal Review, reviewer.
Participated in meetings for EMGT program development

Department Level

1. Committee Assignments:
MCHE Safety Coordinator
MCHE Graduate Affairs Committee. Member.
EMGT Program, Graduate Coordinator
EMGT Program Tenure Committee. Chair.
EMGT Recruitment Committee. Chair.
ITEC/EMGT Graduate Curriculum Committee. Member.
ITEC Research Committee. Member.
2. Other Activities:
EMGT Manufacturing Systems Lab, Coordinator
ITEC Introductory Computing Laboratory, Coordinator.
Software for EMGT program, Coordinator.

Community Service Activities

1. Instructor, Health Qi Gong, Providing free weekly lessons in Thomas Recreation Center since 2010.
2. Volunteer for the following organizations:
Acadiana Society of Autistic Citizens
American Heart Association
Acadiana Symphony Orchestra
Acadiana Conservatory of Music
East Bayou Church
First Baptist Church
Baton Rouge Chinese School
Lafayette Chinese School
3. Member:
Board member, Baton Rouge Chinese School
Board member, Parent Advisory Board for Project STEPS, Lafayette Parish School Board
Member, Acadiana Society of Autistic Citizens
Member, CHADD Society in Lafayette
Member, Lafayette Suzuki Music Society

PERSONAL DATA

DOB: 03-31-1957
Married with 2 children