

Julie Ann Stuart Williams, Ph.D., P.E.
Department of Management/MIS
University of West Florida
11000 University Parkway
Pensacola, FL 32514-5752
Phone (850) 474-2283 Fax (850) 474-2314
JAWilliams@uwf.edu

EDUCATION

Furman University, Pre-Engineering, 6/91, B.S. *summa cum laude*
North Carolina State University, 5/92, Industrial Engineering, B.S. *summa cum laude*
Georgia Institute of Technology, 12/93, M.S., Industrial Engineering
Georgia Institute of Technology, 6/96, Ph.D., Industrial and Systems Engineering

PROFESSIONAL EXPERIENCE

Professor. Department of Management/MIS. University of West Florida. Pensacola, FL.
2011-present.
Associate Professor. Department of Management/MIS. University of West Florida.
Pensacola, FL. 2005-2011.
Assistant Professor. School of Industrial Engineering. Purdue University. West Lafayette, IN.
2000-2005.
Assistant Professor. Department of Industrial, Welding, and Systems Engineering. The Ohio
State University. Columbus, OH. 1996-2000.

FELLOWSHIPS, SCHOLARSHIPS, AND AWARDS

Vera O. Smith Scholarship, 1988 - 1989
Babcock and Wilcox Scholarship, 1991 - 1992
National Science Foundation Graduate Research Fellowship, 1992 -1995
Georgia Institute of Technology Presidential Fellowship, 1992 – 1996
Institute of Industrial Engineers Gilbreth Memorial Fellowship, 1994 -1995
Sloan Foundation New Faculty Fellow Award for Frontiers in Education, 1997
National Science Foundation Faculty Early Career Development Award, 1998
The Ohio State University, College of Engineering Research Accomplishment Award, 1999
Purdue University Merit Award for contributions to global sustainable systems research and
curricula, 2004
University of West Florida, College of Business, E. W. Hopkins Faculty Development Award,
2007
University of West Florida, College of Business, Dyson Award for Excellence in Research,
2007
University of West Florida, College of Business, Dyson Award for Excellence in Research,
2010
University of West Florida, University Faculty Excellence in Teaching Award, 2017

PROFESSIONAL ORGANIZATIONS

Professional Societies

Southeast Decision Sciences Institute (SE DSI)

National Honor Societies

Phi Eta Sigma (National Freshman Honor Society), Inducted 1988

Pi Mu Epsilon (National Math Honor Society), Inducted 1989

Sigma Pi Sigma (National Physics Honor Society), Inducted 1989

Alpha Pi Mu (National Industrial Engineering Honor Society), Inducted 1990

Phi Beta Kappa (National Liberal Arts Honor Society), Inducted 1991

Tau Beta Pi (National Engineering Honor Society), Inducted 1992

Phi Kappa Phi (International All-Discipline Honor Society), Inducted 1992

Sigma Xi (The Scientific Research Society), Inducted 2002

Beta Gamma Sigma (International Business Honor Society), Inducted 2008

Certifications

Professional Engineers License Granted for the State of Ohio, 2000

PROFESSIONAL DEVELOPMENT (recent courses related to teaching)

Veterans on Campus, September 1, 2016

What Assurance of Learning Is and Isn't, October 14, 2016

Assurance of Learning Process, October 14, 2016

Local versus Standardized Exams, October 14, 2016

COURSES TAUGHT

University of West Florida

MAN3504 Operations Management (2005 – present)

MAN3550 Management Science (2005 – present)

MAN3904 Directed Study (Research for Undergraduates) (2007)

GEB5905 Directed Study (Research for Graduate students) (2011)

Purdue University

IE484 Integrated Production Systems II (2000 – 2005)

IE499 Research in IE (for Undergraduates) (2001-2004)

IE590S Distribution Center Location, Design, & Operations (2001 – 2002)

IE590G Sustainable Design (2003 – 2004)

IE690S Sustainable Production (2003)

The Ohio State University

ISE554 Introduction to Discrete Event System Simulation (1997)

ISE658 Facilities Design for the Production System of the Future (1996, 1998)

ISE757 (ISE 694J) Industrial Ecology: Production Systems Perspectives (1998, 1999, 2000)

ISE783H Undergraduate Honors Research Program (1999)

ISE532 Production Systems II: Facilities Planning (1998, 1999, 2000)

ISE662 Introduction to Applied Decision Analysis (1999)

ISE828 Advanced Studies in Plant Design and Material Handling (1997)
 ISE856 (ISE 821) Advanced Models in Production Planning (1999)
 ISE894J Analysis of Distribution Center Design and Operations (2000)

Georgia Institute of Technology

ISyE 4102 Operations and Facilities Design (1995)

Honors and Awards for Students Mentored

Rebecca Trier, General Motors Fellowship, 1997-1999
 Christiana Kuswanti, 1st place in the student poster contest, Society of Plastics Engineers Annual Recycling Conference, Detroit, MI, November 1999
 Sudaratana Wongweragiat, Award through The Royal Thai Embassy Office of Educational Affairs, 2001-2005
 Sofia Lopez, Ecuador Foundation & Latin American Scholarship Program American Universities (LASPAU), 2002-2003
 Jamie Wieland, Kodak Fellowship through the Center for Collaborative Manufg., 2001-2003
 Sara Lonn, 1st place, Institute of Industrial Engineers Regional Contest and 2nd place, Institute of Industrial Engineers International Contest, 2002
 Leslie Blyler, 1st place, Institute of Industrial Engineers Regional Contest, 2003
 Lisa Tieman, National Science Foundation Graduate Research Fellowship, 2005
 Xiuli Qu, Best Graduate Paper, Society Health Systems Award, 2007
 Steven Pepper, Undergraduate Research Award, University of West Florida, 2007
 Steven Pepper, Pace Graduate Scholarship, University of West Florida, 2007
 Steven Pepper, Graduate Student Research Award, University of West Florida, 2007
 Steven Pepper, Graduate Student Scholarly and Creative Activity Award, University of West Florida, 2009
 Xiuli Qu, Rookie of the Year Award for Research Excellence, North Carolina A&T State University, 2009
 Christopher Hill, President of the Student Government Association, University of West Florida, 2013-2014

PUBLICATIONS

Books and Monographs

Williams, Julie Ann Stuart, Mehmet Aktan, and Harriet Black Nembhard, “Real Options Design for Sustainable Product Quality Management,” 2010, Invited chapter in *Real Options in Engineering, Design, Operations, and Management*, Boca Raton, FL: CRC Press of Taylor Francis Group, LLC, p. 169-186.

Stuart, Julie Ann. "Clean Manufacturing." Invited Chapter. Gavriel Salvendy, ed. *Handbook of Industrial Engineering: Technology and Operations Management, 3rd Edition*. New York: John Wiley & Sons, Inc., 2001, pp. 530-543.

Refereed Articles

1. Williams, Julie Ann Stuart, Schutts, Joshua, Gallamore, Kristine, & Amaral, Nicholas. “Assessment of Memorandum Writing in a Quantitative Business Context,” *Business and Professional Communication Quarterly*, 2018, Accepted.
2. Williams, Julie Ann Stuart, Reid, Randall, Gallamore, Kristine, & Rankin, Maxwell. “Introducing Troubleshooting for Model Formulation, Spreadsheet Development, and Memo Communication with Feedforward,” *INFORMS Transactions on Education*, 2018, 18(2), 102-115.
3. Williams, Julie Ann Stuart, Rankin, Maxwell, Gallamore, Kristine, & Reid, Randall. “Beyond Model Formulation: Assessment of Novices Graphing, Interpreting, and Writing about Their Model and Solution,” *INFORMS Transactions on Education*, 2016, 17(1), 13-19.
4. Williams, Julie Ann Stuart, Reid, Randall, and Gallamore, Kristine. “An Active Learning Exercise To Help Students Discover How To Model a Third Decision,” *The Coastal Business Journal*, 2016, 15(1), 39-54.
5. Williams, Julie Ann Stuart, Stanny, Claudia, Reid, Randall, Hill, Christopher, Rankin, Maxwell, and Rosa, Katie Martin. Assessment of Essays in a Management Science Course,” *The Coastal Business Journal*, 2015, 14(1), 1-12.
6. Williams, Julie Ann S., Stanny, Claudia J., Reid, Randall C., Hill, Christopher, and Rosa, Katie Martin, “Assessment of Student Memo Assignments in Management Science,” *Journal of Education for Business*, 2015, vol. 90, no. 1, pp. 24-30.
7. Qu, Xiuli, Rardin, Ronald L., and Williams, Julie Ann S., “A Mean-Variance Model To Optimize the Fixed versus Open Appointment Percentages in Open Access Scheduling Systems.” *Decision Support Systems and Electronic Commerce*, 2012, vol. 53, no. 3, pp. 554-564.
8. Williams, Julie Ann Stuart, Steven Pepper, and Gayle Baugh. “Retrospective Cohort Study of Factors Impacting Client Attendance in Physical Rehabilitation Clinics.” *Journal of Rehabilitation Administration*, 2012, vol. 36, no. 1, pp. 5-16.
9. Qu, Xiuli, Ronald L. Rardin, and Julie Ann S. Williams, “Single versus Hybrid Time Horizons for Open Access Scheduling.” *Computers & Industrial Engineering*, 2011, vol. 60, pp. 56-65.
10. Williams, Julie Ann Stuart and Randall Reid. “Developing Problem Solving and Communication Skills through Memo Assignments in a Management Science Course.” *Journal of Education for Business*, 2010, vol. 85, pp. 323-329.
11. Williams, Julie Ann Stuart, Steven Pepper, Melissa Webb, and Jeffrey Day. “Staff Survey of Non-attendance Factors for Physical Rehabilitation,” *Journal of Rehabilitation Administration*, 2009, vol. 33, no. 1, pp. 3-18.

12. Williams, Julie Ann Stuart, Xiuli Qu, Pedro Rios, Jamie Wieland, and Ed Grant. “A Switching Rule for Plastics Identification in Electronics Recycling.” *International Journal of Computer Integrated Manufacturing*, 2008, vol. 21, no. 6, pp. 730-743.
13. Qu, Xiuli and Julie Ann Stuart Williams, “An Analytical Model for Reverse Automotive Production Planning and Pricing.” *European Journal of Operational Research*. 2008, vol. 190, pp. 756-767.
14. Williams, Julie Ann Stuart. “A Review of Research towards Computer Integrated Demanufacturing for Materials Recovery.” *International Journal of Computer Integrated Manufacturing*. 2007, vol. 20, no. 8, pp. 773-780.
15. Qu, Xiuli, Rardin, Ronald L., Williams, Julie Ann and Willis, Deanna R. “Matching Daily Healthcare Provider Capacity to Demand in Advanced Access Scheduling Systems.” *European Journal of Operational Research*. 2007, vol. 183, pp. 812-826.
16. Williams, Julie Ann Stuart, Sudaratana Wongweragiat, Xiuli Qu, Janet B. McGlinch, Winston Bonawi-tan, Jun-Ki Choi, and Jacob Schiff. “An Automotive Bulk Recycling Planning Model.” *European Journal of Operational Research*. 2007, vol. 177, pp. 969-981.
17. Lu, Qin, Julie Ann Stuart Williams, Marc Posner, Winston Bonawi-tan, and Xiuli Qu. “Model-Based Analysis of Capacity and Service Fees for Electronics Recyclers.” *Journal of Manufacturing Systems*. 2006, vol. 25, no. 1, pp. 45-57.
18. Williams, Julie Ann Stuart. “A Review of Electronics Demanufacturing Processes.” *Resources Conservation and Recycling*. 2006, vol. 47, pp. 195-208.
19. Williams, Julie Ann Stuart, Ed Grant, Pedro Rios, Leslie Blyler, Lisa Tieman, Leslie Twining, Winston Bonawi-Tan, Michelle Madden, Natalie R. Meyer Guthrie. “Plastics Separation Planning for End-of-Life Electronics.” *IEEE Transactions on Electronics Packaging Manufacturing*. 2006, vol. 29, no. 2, pp. 110-118.
20. Qu, Xiuli, Julie Ann Stuart Williams, and Grant, Ed. “Viable Plastics Recycling from End-of-Life Electronics.” *IEEE Transactions on Electronic Packaging Manufacturing*. 2006, vol. 29, no. 1, pp. 25-31.
21. Wikström, Håkan, Saly Romero-Torres, Sudaratana Wongweragiat, Julie Ann Stuart Williams, Edward R. Grant, and Lynne S. Taylor. “On-line Content Uniformity Determination of Tablets Using Low-Resolution Raman Spectroscopy.” *Applied Spectroscopy*. 2006, vol. 60, no. 6, pp. 672-681.
22. Bonawi-tan, Winston and Julie Ann Stuart Williams. “Online Quality Control with Raman Spectroscopy in Pharmaceutical Tablet Manufacturing.” *Journal of Manufacturing Systems*. 2004 (Print publication 2005), vol. 23, no. 4, pp. 299-308.
23. Stuart, Julie Ann, Winston Bonawi-tan, Sarah Loehr, and Joyce Gates. “Reducing Costs through Improved Returns Processing.” *International Journal of Physical Distribution and Logistics Management*. 2005, vol. 35, no. 7, pp. 468-480.

24. Gates, Joyce, Julie Ann Stuart, Winston Bonawi-tan, and Sarah Loehr. “Managing Returns in a Catalog Distribution Center.” *Mathematics Teacher*. 2004, vol. 98, no. 2, pp. 118-128.
25. Rios, Pedro J. and Julie Ann Stuart. “Scheduling Selective Disassembly for Plastics Recovery in an Electronics Recycling Center.” *IEEE Transactions on Electronics Packaging Manufacturing*. 2004, vol. 27, no. 3, pp. 187-197.
26. Rich, Taylor, Sudaratana Wongweragiat, Brad Gates, and Julie Ann Stuart. “Repackaging: An Opportunity for Environmentally Conscious Manufacturers.” *International Journal of Environmentally Conscious Design and Manufacturing*. 2003-04, vol. 11, no. 4, pp. 28-37.
27. Rios, Pedro, Leslie Blyler, Lisa Tieman, Julie Ann Stuart, and Ed Grant. “A Symbolic Methodology To Improve Disassembly Process Design.” *Environmental Science and Technology*. 2003, vol. 37, no. 23, pp. 5417-5423.
28. Rios, Pedro, Julie Ann Stuart, and Ed Grant. “Plastics Disassembly versus Bulk Recycling: Engineering Design for End-of-life Electronics Resource Recovery.” *Environmental Science and Technology*. 2003, vol. 37, no. 23, pp. 5463-5470.
29. Stuart, Julie Ann and Vivi Christina. “New Metrics and Scheduling Rules for Disassembly and Bulk Recycling.” *IEEE Transactions on Electronics Packaging Manufacturing*. 2003, vol. 26, no. 2, pp. 133-140.
30. Lu, Qin and Julie Ann Stuart. “An Investigation of Bulk Recycling Planning for an Electronics Recycling Facility Receiving Industrial Returns versus Residential Returns.” *IEEE Transactions on Electronics Packaging Manufacturing*. 2003, vol. 26, no. 4, pp. 320-327.
31. Lonn, Sara and Julie Ann Stuart. “Increasing Service through Aggressive Dealer Inventory Return Policies.” *International Journal of Physical Distribution and Logistics Management*. 2003, vol. 33, no. 6, pp. 519-530.
32. Kuswanti, Christiana, Guojun Xu, Jianhong Qiao, Julie Ann Stuart, Kurt Koelling, and Blaine Lilly. “An Engineering Approach to Plastic Recycling Based on Rheological Characterization.” *Journal of Industrial Ecology*. 2002, vol. 6, no. 3-4, pp. 125-135.
33. Xu, Guojun, Jianhong Qiao, Christiana Kuswanti, Kurt Koelling, Julie Ann Stuart, and Blaine Lilly. “Characterization of Virgin/Post-consumer Blended High Impact Polystyrene Resins for Injection Molding.” *Journal of Applied Polymer Science*. 2002, vol. 84, pp. 1-8.
34. Stuart, Julie Ann and Qin Lu. “A Refine-or-Sell Decision Model for a Station with Continuous Reprocessing Options in an Electronics Recycling Center.” *IEEE Transactions on Electronics Packaging Manufacturing*, 2000, vol. 23, no. 4, pp. 321-327.
35. Stuart, Julie Ann and Qin Lu. “A Model for Discrete Reprocessing Decisions for Bulk Recycling of Electronics Equipment.” *IEEE Transactions on Electronics Packaging Manufacturing*. 2000, vol. 23, no. 4, pp. 314-320.

36. Stuart, Julie Ann, Jane C. Ammons, and Laura J. Turbini. "A Product and Process Selection Model with Multidisciplinary Environmental Considerations." *Operations Research*. 1999, vol. 47. no. 2, pp. 221-234.
37. Stuart, Julie Ann and Renata Mealy Sommerville. "A Review of Life Cycle Design Challenges." *International Journal of Environmentally Conscious Design and Manufacturing*, 1998, vol. 7, no. 1, pp. 43-58.
38. Stuart, Julie Ann, Laura J. Turbini, and Jane C. Ammons. "Activity-Based Environmental Inventory Allocation." *Journal of Industry Ecology*, 1998, vol. 2, no. 3, pp. 95-108.
39. Stuart, Julie Ann, Ming K. Low, David J. Williams, Laura J. Turbini, and Jane C. Ammons. "Challenges in Determining Electronics Equipment Take-back Levels." *IEEE Transactions on Components, Packaging, and Manufacturing Technology: Part C: Manufacturing*. 1998, vol. 21, no. 3, pp. 225-232.
40. Stuart, Julie Ann, Laura J. Turbini, and Jane C. Ammons. "Investigation of Electronic Assembly Design Alternatives through Production Modeling of Life Cycle Impacts, Costs, and Yield." *IEEE Transactions on Components, Packaging, and Manufacturing Technology: Part C: Manufacturing*. 1997, vol. 20, no. 4, pp. 317-326.

Refereed Articles in Proceedings

1. Abston, K., Soter, H., and Williams, J. A.S. Business Writing: Using Persuasive Memorandums across Courses. *Developments in Business Simulation and Experiential Learning: Proceedings of the Annual ABSEL Conference. Volume 45*. Seattle, WA, March 21-23, 2018, pp. 261-264.
<https://journals.tdl.org/absel/index.php/absel/article/view/3187/3105>
2. Williams, J. A.S. A Pilot Study of Memorandum Writing in the Productivity Module of an Operations Management Course. *Proceedings of the Southeast Decision Science Institute*. Wilmington, NC, Feb. 21-23, 2018, pp. 77-82.
3. Williams, J. A.S. and Gallamore, K. An Exercise To Introduce Memorandum Components in a Quality Management Lecture. *Proceedings of the Southeast Decision Science Institute*. Charleston, SC, Feb. 22-24, 2017.
4. Williams, J. A., Reid, R., and Gallamore, K., "Active Learning with Business Memos To Lead Students To Discover How To Model a Third Decision." *Proceedings of the Southeast Decision Sciences Institute*. Williamsburg, VA, Feb. 17-19, 2016, pp. 278 - 285.
5. Williams, J. A. and Gallamore, K., "Using Business Memos To Introduce Audience Considerations for a Discussion of a Productivity Problem." *Proceedings of the Southeast Decision Sciences Institute*. Williamsburg, VA, Feb. 17-19, 2016, pp. 272 - 276.
6. Reid, Randall, Julie Ann Williams, Claudia Stanny, and Maxwell Rankin. "An Example for Teaching Trouble Shooting in a Management Science Course." *Proceedings of the Southeast Decision Sciences Institute*. Savannah, GA, Feb. 25-27, 2015.

7. Williams, Julie Ann Stuart, Claudia J. Stanny, Randall Reid, and Christopher Hill. "Initial Assessment of Student Models to Memos," *Proceedings of the Southeast Decision Sciences Institute*. Wilmington, NC, Feb. 19-21, 2014.
8. Williams, Julie Ann Stuart, Claudia J. Stanny, Randall Reid, Katie Martin, and Velislava Mateeva. "Essays in Management Science," *Proceedings of the Southeast Decision Sciences Institute*. Columbia, SC, Feb. 29-Mar. 2, 2012.
9. Williams, Julie Ann Stuart and Claudia J. Stanny. "A Discussion of a Cumulative Progressive Quiz Structure," *Proceedings of the Southeast Decision Sciences Institute*. Wilmington, NC, Feb. 18-20, 2010, pp. 804-814.
10. Williams, Julie Ann Stuart and Steven Pepper. "The Impact of Patient Non-attendance on Efficiency and the Prediction of Non-attendance for Physical Therapy," *Proceedings of the Southeast Decision Sciences Institute*. Orlando, FL, Feb. 18-20, 2009, pp. 804-814.
11. Williams, Julie Ann Stuart, Melissa Webb, Jeffrey Day, and Steven Pepper. "Insights from Staff Perceptions Regarding Patient Attendance for Physical Therapy and Clinic Productivity," *Proceedings of the Southeast Decision Sciences Institute*, Orlando, FL, Feb. 20-22, 2008, pp. 788-795.
12. Reid, Randall and Julie Ann Stuart Williams. "A Discussion of Word Problem Structure in a Management Science Course," *Proceedings of the Southeast Decision Sciences Institute*, Orlando, FL., Feb. 20-22, 2008, pp. 430-437.
13. Williams, Julie Ann Stuart. "Positive Trends and Opportunities for Sustainable Design in Operations Management Textbooks with Examples from the Electronics Industry," *Proceedings of the IEEE International Symposium on Electronics and the Environment*, Orlando, FL, May 7-9, 2007, pp. 57-60.
14. Qu, Xiuli, Ronald Rardin, Lisa Tiemen, Hong Wan, Julie Ann Stuart Williams, Deanna R. Willis, and Marc Rosenman. "A Statistical Model for the Prediction of Patient Non-attendance in a Primary Care Clinic," *Proceedings of the Industrial Engineering Research Conference*, May 20-21, 2006, Orlando, FL.
15. Stuart, Julie Ann and Inez Hua. "Designing and Teaching a Sustainable Design Course at Purdue University." Tracy Bhamra and Bernard Hon, eds. *Design & Manufacture for Sustainable Development*, Loughborough, United Kingdom, Sept. 1-2, 2004.
16. Blyler, Leslie, Leslie Duplaga, Lisa Tieman, Natalie Meyer, Ed Grant, Julie Ann Stuart. "Plastics Separation Planning Enhancements from New Laser Identification Technology and Work Measurement Analysis," *Proceedings of the IEEE International Symposium on Electronics and the Environment*, Boston, MA, May 19-21, 2003, pp. 105-110.
17. Rios, Pedro, Leslie Blyler, Leslie Duplaga, Lisa Tieman, Natalie Meyer, Julie Ann Stuart, Ed Grant. "A Symbolic Methodology to Improve Manual Disassembly Economics," *Proceedings of the IEEE International Symposium on Electronics and the Environment*, Boston, MA, May 19-21, 2003, pp. 341-346.

18. Lonn, Sara, Julie Ann Stuart, and Andres Losada. "How Collection Methods and E-Commerce Impact Product Arrival Rates to Electronics Return, Reuse, and Recycling Centers." *Proceedings of the IEEE International Symposium on Electronics and the Environment*, San Francisco, CA, May 5-9, 2002, pp. 228-233.
19. Qiao, Jianhong and Julie Ann Stuart. "An Inventory Control Model for Returned Products." *Proceedings of the Industrial Engineering Research Conference (CD format)*, Dallas, TX, May 19-21, 2001.
20. Stuart, Julie Ann. "Integration of Industrial Ecology Concepts into Industrial Engineering Curriculum." *Proceedings of the ASEE Annual Conference (Website format: <http://www.asee.org/conferences/search/20336.pdf>)* St. Louis, MO, June 18-21, 2000.
21. Lu, Qin and Julie Ann Stuart. "Practical Benefits of a Reprocessing Model for Product Take-back Centers." *Proceedings of R2000 Congress (CD format)*, Toronto, Ontario, Canada, June 5-9, 2000.
22. Xu, Guojun, Jianhong Qiao, Christiana Kuswanti, Molly Simenz, Kurt Koelling, Julie Ann Stuart, and Blaine Lilly. "Insights into Reuse of High Impact Polystyrene from Post-Consumer Electronics Equipment Housings." *Proceedings of the IEEE International Symposium on Electronics and the Environment*, San Francisco, CA, May 8-10, 2000, pp. 348-353.
23. Lu, Qin, Vivi Christina, Julie Ann Stuart, and Taylor Rich. "A Practical Framework for the Reverse Supply Chain." *Proceedings of the IEEE International Symposium on Electronics and the Environment*, San Francisco, CA, May 8-10, 2000, pp. 266-271.
24. Stuart, Julie Ann and Renata Mealy Sommerville. "Materials Selection for Life Cycle Design." *Proceedings of the IEEE International Symposium on Electronics and the Environment*, Oak Brook, IL, May 4-6, 1998, pp. 151-158.
25. Stuart, Julie Ann. "A Method for Teaching Problem Assessment." *Proceedings of the IEEE/ASEE Frontiers in Education Conf. (CD format)*, Pittsburgh, PA, Nov. 5-8, 1997.
26. Stuart, Julie Ann, Laura J. Turbini, and Jane C. Ammons. "Towards Quantifying the Effect of Lead Legislation on Electronic Product and Process Design." *Proceedings of the IEEE International Symposium on Electronics and the Environment*, San Francisco, CA, May 5-7, 1997, pp. 84-87.
27. Stuart, Julie Ann, Laura J. Turbini, and Jane C. Ammons. "The Implications of Activity Based Environmental Impact Allocation." *Proceedings of the IEEE International Symposium on Electronics & the Environment*, Dallas, TX, May 6-8, 1996, pp. 185-190.
28. Stuart, Julie Ann, Jane C. Ammons, Laura J. Turbini, F. Michael Saunders, and Manjini Saminathan. "Evaluation Approach for Environmental Impact and Yield Trade-Offs for Electronics Manufacturing Product and Process Alternatives." *Proceedings of the IEEE*

International Symposium on Electronics and the Environment, Orlando, FL, May 1-3, 1995, pp. 166-170.

GRANTS AND CONTRACTS

\$389,752, “New Modeling Framework and Technology to Optimize Resource Utilization in the Plastics Supply Cycle,” National Science Foundation, February 2002 – June 2007. J. A. Stuart, Principal Investigator 02/02-07/05; Dor Ben-Amotz, PI 07/05-06/07, E. Grant, Co-PI.

\$268,000, “CAREER: Analytical Modeling for Demanufacturing Operations.” Faculty Early Career Development Award. National Science Foundation, May 1998 – August 2004, J. A. Stuart, Principal Investigator.

\$110,000, “Models and Instruction for Life Cycle Material Content Decisions.” National Science Foundation/Lucent Technologies Industrial Ecology Research Fellowship, Oct. 1997 – Sept. 2000, J. A. Stuart, Principal Investigator, K. Koelling and B. Lilly, Co-PIs.

\$100,000, “The Future Role of Ecological Engineering Science in Undergraduate Engineering Education,” National Science Foundation, January 2003 – December 2006, L. Nies, Principal Investigator, M. Helgesen, I. Hua, R. Mohtar, and J. A. Stuart, Co-PIs.

\$91,374, “Exploratory Project to Investigate Recycling Strategies for General Motors.” General Motors R&D Center. June 2001 – May 2002, J. A. Stuart, Principal Investigator.

\$75,000 “Energy Consumption by Die-Casting Operations,” DOE/NADCA. March 2000 – February 2001, J. Brevick, Principal Investigator, C. Mobley, C. Mount-Campbell, and J. A. Stuart, Co-PIs.

\$58,883, “Core Program Research with the Indiana University Medical Group on Patient Flow and Scheduling,” Regenstrief Center for Healthcare Engineering, Purdue University, January 1, 2005 – July 30, 2005, R. Rardin, Principal Investigator, K. Muthuraman, L. Ozsen, J. A. Stuart, and H. Wan, Co-PIs.

\$30,000, “Advanced Process Analytical Technology and Supply Chain Quality Control in Pharmaceutical Development and Manufacturing Systems,” Center for Advanced Manufacturing, Purdue University, November 2004 – August 2005, L. Taylor, Principal Investigator, E. Grant and J. A. Stuart, Co-PIs. Industry matching of \$5000 conveyor donation from Siemens Logistics and Assembly Systems, Inc.

\$30,000, “Advanced Process Analytical Technology and Model-Based Optimization of Pharmaceutical Development and Manufacturing Systems,” e-Enterprise Center at Discovery Park, August 2003 – August 2004, \$30,000, L. Taylor, Principal Investigator, E. Grant and J. A. Stuart, Co-PIs.

\$30,000, “Best Demanufacturing Practices for Telecommunications Equipment.” Ameritech Faculty Fellow Grant from Ameritech, October 1997 – September 1998, Principal Investigator, J. A. Stuart.

\$17,000, “Disassembly Center Process Planning and Design,” University SEED Grant from The Ohio State University, June 1997 – December 1998, Principal Investigator, J. A. Stuart.

\$6500, “Disassembly Plant Production Planning,” Resource Concepts, Inc., August 1998 – October 1998, J. A. Stuart, Principal Investigator.

\$6250, “Operations Management Methodologies for End-of-Life Electronics Composed of both Nonrenewable and Biodegradable Materials.” University of West Florida, May 2006 – August 2006, J. A. S. Williams, Principal Investigator.

\$5000, “Audience Considerations for Professional Communication for Operations Management,” University of West Florida, May 2015 – May 2016, J. A. S. Williams, Principal Investigator.

\$4800, “Integrating Feedback Loops for a Memo Intensive Class for a Quantitative Business Course, University of West Florida, May 2016 – May 2017, J. A. S. Williams, Principal Investigator.

\$2000, “Exploration of Patient Non-attendance for Physical Therapy,” Scholarly and Creative Activity 2006 Faculty Grant, University of West Florida, May 2006 – August 2007, J. A. S. Williams, Principal Investigator.

\$2000, “Exploration of Patient Non-attendance for Physical Therapy: Phase II,” Scholarly and Creative Activity 2007 Faculty Grant, University of West Florida, May 2007 – July 2008, J. A. S. Williams, Principal Investigator.

\$2000, “Exploration of Patient Non-attendance for Physical Therapy: Phase II Extension for New Productivity Metrics and Archival Data Collection,” Scholarly and Creative Activity 2008 Faculty Grant, University of West Florida, May 2008 – August 2009, J. A. S. Williams, Principal Investigator.

\$2000, “Exploration of Patient Transportation Barriers,” Scholarly and Creative Activity 2009 Faculty Grant, University of West Florida, May 2009 – August 2010, J. A. S. Williams, Principal Investigator.

\$799, “3rd International Conference on Design and Manufacture for Sustainable Development,” Purdue Research Foundation International Travel Grant, August 2004 – September 2004, J. A. Stuart, Principal Investigator.

PAPERS READ AND SPEECHES GIVEN

Industry Workshops

“Lean Electronics Recycling” workshop, sponsored by the International Association of Electronics Recyclers to an international audience of 35, New Orleans, LA, May 16, 2005

“Lean Electronics Recycling” workshop, sponsored by the International Association of Electronics Recyclers to an international audience of 50, Minneapolis, MN, October 18, 2004

“Making Recycling More Cost-Effective” workshop, sponsored by the Indiana Recycling Coalition to an audience of 55, Indianapolis, IN, March 2, 2004

Presentations at Conferences

Williams, Julie Ann Stuart. Invited Panelist, “Workshop: Teaching Tricks for Quantitative Analysis: Control Charts, Sampling Distributions, Multiple Regression, and Time Series Analysis,” Kellie B. Keeling, Moderator, *Southeast Decision Sciences Institute*, Charleston, SC, Feb. 19, 2009.

Stuart, Julie Ann and Ed Grant, “A Plastics Recycling Solution from the Intersection of Industrial Engineering and Chemistry,” *EPA and NSF Technology for a Sustainable Environment (TSE) Grantees Meeting (Website: <http://www.scgcorp.com/nsf2004/index.asp>)*, Washington, DC, May 17-18, 2004.

Stuart, Julie Ann, “Technology Research Funding” Invited Presentation, *IEEE International Symposium on Electronics and the Environment and Electronics Recycling Summit*, Scottsdale, AZ, May 10-13, 2004.

Stuart, Julie Ann, “CAREER: Analytical Modeling for Demanufacturing Operations,” *NSF Grantees Conference*, Dallas, TX, Jan. 6-9, 2004.

Rios, Pedro, Julie Ann Stuart, and Ed Grant, “Modeling Electronics Recycling Processes: Mixed versus Separated Plastics,” Invited paper, *INFORMS Conference*, Atlanta, GA, Oct. 19-21, 2003.

Stuart, Julie Ann, Sudarantana Wongweragiat, Taylor Rich, and Brad Gates, “An Inventory Control Model for the Repackaging Problem,” Invited paper, *INFORMS Conference*, Atlanta, GA, Oct. 19-21, 2003.

Stuart, Julie Ann, Joyce Gates, Sarah Loehr, Winston Bonawi-tan, “A New Disposition Algorithm for Core Apparel Items from Catalog Returns,” Invited paper, *INFORMS Conference*, Atlanta, GA, Oct. 19-21, 2003.

Rios, Pedro, Julie Ann Stuart, and Ed Grant, “Towards a Sustainable Plastics Supply,” Platform presentation, *International Society for Industrial Ecology Conference*, Ann Arbor, MI, June 29 – July 2, 2003, pp. 56-57.

Stuart, Julie Ann, “CAREER: Analytical Modeling for Demanufacturing Operations,” *NSF Grantees Conference*, Birmingham, AL, Jan. 6-9, 2003.

Stuart, Julie Ann and Vivi Christina, “New Metrics and Scheduling Policies for Reverse Production Facilities,” Invited paper, *INFORMS Conference*, San Jose, CA, Nov. 17-21, 2002.

Lonn, Sara and Julie Ann Stuart, “Return Policies for Unsold Dealer Inventory Based on Forward and Reverse Supply Chain Operators,” Invited paper, *INFORMS Conference*, San Jose, CA, Nov. 17-21, 2002.

Lu, Qin and Julie Ann Stuart, "A Short Term Production Planning Model for an Electronics Bulk Recycling Center," Invited paper, *INFORMS Conference*, Miami, FL, Nov. 4, 2001.

Stuart, Julie Ann, Qin Lu, Jianhong Qiao, and Taylor Rich, "CAREER: Analytical Modeling for Demanufacturing Operations," *NSF Grantees Conference*, Tampa, FL, Jan. 7-10, 2001.

Qiao, Jianhong and Julie Ann Stuart, "A Stochastic Process Model and Inventory Management Policies for a Repair/Recycling Center," *INFORMS Conference*, San Antonio, TX, Nov. 7, 2000.

Lu, Qin and Julie Ann Stuart, "Production Planning for Bulk Recycling," *INFORMS Conference*, San Antonio, TX, Nov. 7, 2000.

Lu, Qin, Vivi Christina, and Julie Ann Stuart, "Analytical Modeling and Simulation Tool for Production Planning of Bulk Recycling," *INFORMS Conference*, Salt Lake City, UT, May 7-9, 2000.

Qiao, Jianhong, Taylor Rich, and Julie Ann Stuart, "Decision Tools for Integrated Repair and Recycling Centers," *INFORMS Conference*, Salt Lake City, UT, May 7-9, 2000.

Stuart, Julie Ann, "Production Planning Framework for Demanufacturing," *NSF Design and Manufacturing Grantees Conference*, Vancouver, British Columbia, Canada Jan. 5-6, 2000.

Stuart, Julie Ann, "Measuring the Results of DFE," *National Safety Council Electronic Product Recovery and Recycling Conference*, Invited Presentation, Washington, DC, March 23, 1999.

Stuart, Julie Ann, "Development of Analytical Models for Materials Reprocessing and for Production Planning for Demanufacturing," *NSF Design and Manufacturing Grantees Conference*, Long Beach, CA, Jan. 8, 1999.

Stuart, Julie Ann, Shahrukh Irani, and Robert Lundquist, "Innovative Instructional Mentoring through Industry-Academic Partnerships," *IEEE/ASEE Frontiers in Education Conf.* Pittsburgh, PA, Nov. 5-8, 1997.

Stuart, Julie Ann, "Meeting OEM DFE Demands: DFE Tools," *IPCWorks'97, Institute for Interconnecting and Packaging Electronic Circuits*, Washington, DC, Oct. 7, 1997.

Stuart, Julie Ann, Jane C. Ammons, and Laura J. Turbini, "Selecting Product and Process Designs with Consideration of Environmental Impacts and Yield Trade-Offs in Electronics Assembly," Invited Paper, *INFORMS Conference*, Atlanta, GA, Nov. 3-6, 1996.

Stuart, Julie Ann, Jane C. Ammons, and Laura J. Turbini, "Models for Environmentally Conscious Product and Process Determination," Invited Paper, *INFORMS Conference*, Washington, DC, May 5-9, 1996.

Additional Presentations

Ray, Joshua and Williams, Julie Ann, “A Review of Backflush Costing,” poster, University of West Florida Student Scholars and Faculty Research Showcase, Pensacola, FL, April 19, 2018.

Estep, Joshua and Williams, Julie Ann, “Assessment of Pedagogical Interventions for Business Writing in Operations Management,” poster, University of West Florida Student Scholars and Faculty Research Showcase, Pensacola, FL, April 19, 2018.

Gallamore, Kristine and Williams, Julie Ann, “Assessment of Multiple Sources of Feedback for Memorandum Writing in an Operations Management Course,” poster, University of West Florida Student Scholars and Faculty Research Showcase, Pensacola, FL, April 20, 2017.

Williams, Julie Ann Stuart, Randall Reid, Maxwell Rankin, and Kristine Gallamore, “Beyond Model Formulation: Assessment of Novices Graphing, Interpreting, and Writing about Their Model and Solution in a Business Context,” Brown Bag Presentation, College of Business, University of West Florida, Pensacola, FL, September 14, 2016.

Williams, Julie Ann Stuart and Kristine Gallamore. “Preliminary Assessment and Curricula for Audience Considerations for Professional Memo Communication in Operations Management,” poster, University of West Florida Student Scholars and Faculty Research Showcase, Pensacola, FL, April 21, 2016.

Williams, Julie Ann Stuart, Randall Reid, Christopher Hill, Katie Martin Rosa, Maxwell Rankin, and Claudia Stanny. “Assessment of Student Memo Assignments in Management Science,” poster, University of West Florida Student Scholars and Faculty Research Showcase, Pensacola, FL, April 23, 2015.

Stuart, Julie Ann, “Analytical Modeling for Reverse Production Systems,” Invited Seminar, The EPA Millennium Lecture Series, Environmental Protection Agency, Washington, DC, May 19, 2004; <http://www.epa.gov/industrialecology/lectures/>.

Stuart, Julie Ann, “Reverse Production Systems Research,” Invited Seminar, Industrial Engineering Graduate Seminar Series, Pennsylvania State University, College Station, PA, Oct. 10, 2002.

Stuart, Julie Ann and Dale Compton, “Graduate Studies and Careers in Industrial Engineering,” Invited talk to Physics Department, Wabash College, Crawfordsville, IN, Oct. 23, 2001.

Stuart, Julie Ann, “Forward and Reverse Supply Chain Research and Teaching,” General Motors R&D Center, Warren, MI, Jan. 26, 2001.

Stuart, Julie Ann, "Life Cycle Analysis Design Challenges," Invited Seminar, University of Cincinnati Environmental Engineering and Science Seminar Series, Cincinnati, OH, Feb. 19, 1999.

Stuart, Julie Ann, "Life Cycle Design, Production, and Service Systems Research," Battelle Life Cycle Management Research Team, Columbus, OH, Dec. 17, 1998.

Stuart, Julie Ann, "Life Cycle Design and Production Systems Research," MCC Environmental Programs Team, Austin, TX, Aug, 28, 1998.

Stuart, Julie Ann, "Life Cycle Design and Production Systems Research," IBM Engineering Center for Environmentally Conscious Products, Research Triangle Park, NC, July 10, 1998.

Stuart, Julie Ann, Kurt Koelling, and Blaine Lilly, "Strategic Life Cycle Models To Minimize Costs for Recycling" Siemens Automotive, Lima, OH, Sept. 24, 1997.

Stuart, Julie Ann, "Selecting Product & Process Designs with Consideration of Environmental Impacts & Yield Trade-offs in Electronics Assembly," Lucent Technologies Bell Labs Innovations, Columbus, OH, Dec. 16, 1996.

Stuart, Julie Ann, "An Analytical Model to Select Manufacturing Product and Process Alternatives to Evaluate Environmental Impacts and Yields," Manchester Metropolitan University, Manchester, UK, July 4, 1995.

Stuart, Julie Ann, "An Analytical Model to Select Manufacturing Product and Process Alternatives to Evaluate Environmental Impacts and Yields," Denmark Technical University, Lyngby, Denmark, June 25, 1995.

Stuart, Julie Ann, "An Analytical Model to Select Manufacturing Product and Process Alternatives to Evaluate Environmental Impacts and Yields," Siemens AG, Berlin, Germany, June 22, 1995.

Stuart, Julie Ann, "An Analytical Model to Select Manufacturing Product and Process Alternatives to Evaluate Environmental Impacts and Yields," Seho - Seitz & Hohnerlein GmbH, Kreuzwertheim, Germany, June 20, 1995.

Stuart, Julie Ann, "An Analytical Model to Select Manufacturing Product and Process Alternatives to Evaluate Environmental Impacts and Yields," Loughborough University of Technology, Loughborough, UK, June 2, 1995.

THESES/DISSERTATIONS DIRECTED

Winston Bonawi-tan. *System Design for Online Testing in Pharmaceutical Tablet Development and Manufacturing*. M.S. Thesis. School of Industrial Engineering. Purdue University. 2004.

Sudarantana Wongweragiat. *A New Repackaging versus Recycling Model to Manage Returns and Packaging Procurement*. M.S. Thesis. School of Industrial Engineering. Purdue University. 2004.

Jamie Wieland. *Developing a Simulation Approach for Checking Queueing-Network Stability*. M.S. Thesis. School of Industrial Engineering. Purdue University. 2003. (Co-chaired with B. Schmeiser).

Sofia Lopez. *A Distribution Network Design Model for Global Operations*. M.S. Thesis. School of Industrial Engineering. Purdue University. 2003.

Pedro Rios. *Analysis to Link Demand and Recycling of Plastics in an Electronics Disassembly Recycling Center*. M.S. Thesis. School of Industrial Engineering. Purdue University. 2003.

Qin Lu. *Production Planning for Bulk Recycling in Electronics Take-back Centers*. Ph.D. The Ohio State University. 2001. (Co-Chaired with M. Posner).

Jianhong Qiao. *A Stochastic Process Model and Inventory Management Policies for a Repair/Recycling Center*. M.S. Thesis. Department of Industrial, Welding, and Systems Engineering. The Ohio State University. 2000.

Rebecca Jane Trier. *Analysis of a New Performance Measure for the Throughput of a Mixed Model Assembly Line*. M.S. Thesis. Department of Industrial, Welding, and Systems Engineering. The Ohio State University. 1999.

PUBLIC SERVICE ACTIVITIES**Department of Management/MIS**

2005 – present: Department Coordinator for Graduate Assistant Hiring and Training

2012: Faculty Search Committee for Management/MIS

2009 – 2010: Annual Evaluation Standards Committee for Management/MIS

2005 – 2008: Library Representative/Coordinator for Management/MIS

2006 – 2007: Faculty Search Committee for Management/MIS

College of Business

2016: QEP Communication across the Curriculum Task Force

2009 – present: President (2013 – present); Nominating Committee (2009 – present); UWF Chapter of Beta Gamma Sigma International Business Honor Society; Created five student officer positions: VP of Programming, VP of Service, VP of Publicity, VP of History, and VP of Correspondence. Initiated service

project to read business themed children’s books. Initiated tour/panel at Navy Federal Credit Union.

2014: AACSB Faculty Qualifications Workgroup

2012 – present: College Personnel Committee

2007 – 2012: Chair (2010 – 2012); Vice-Chair (2008 – 2010); College of Business Council

2008: Dyson Award Review Committee

University

2018: President’s Council for Diversity and Inclusion Faculty Planning Subcommittee

2018: 2018 Faculty Excellence in Teaching or Advising Award Selection Committee

2015, 2016: Judge, UWF Student Scholars Symposium.

2014: Director of the Office of Undergraduate Research Search Committee

2014: Quality Enhancement Plan (QEP) Director Search Committee

2014 – 2015: University Quality Enhancement Plan (QEP) Program Committee

2010 – present: Office of Undergraduate Research Advisory Board

2007 – 2012: University Honors Program Committee

2010 – 2012: Faculty Senate, Ex officio member while College Council Chair

2011 – 2012: Distinguished University Professor Award Committee

2010: Dean of Libraries Search Committee

2009 – 2010: Ad Hoc University High Achieving Student Opportunity Committee

2008 – 2009: University Library Committee

2007 – 2009: Faculty Senate General Studies Committee

2006 – 2008: United Way Committee

Professional

2016: Judge for Southeast Decision Sciences Institute Ph.D. Student Paper Competition.

2015: Judge for Southeast Decision Sciences Institute Masters Student Paper Competition.

2008 – 2014: Reviewer for the Southeast Decision Sciences Institute.

1997 – present: Reviewer for thirteen journals including European Journal of Operational Research, Operations Research, Interfaces, Management Science, INFORMS Transactions on Education, IEEE Transactions on Engineering Management, Production and Operations Management Journal, Transportation Research, International Journal of Computer Integrated Manufacturing, Journal of Industrial Ecology, Environmental Science and Technology, Journal of Cleaner Production, International Journal of Sustainable Engineering, and IEEE Transactions on Electronics Packaging Manufacturing

1999 – present: Invited reviewer (4 times to date), Review Panel for the National Science Foundation. Arlington, Virginia.

2010 – 2011: Track Chair for Statistics, Quantitative Management, and Management Science, SEDSI (Southeast Decision Sciences Institute)

2010: Reviewer for International Information Management Association (IIMA) Conference

2009: Invited reviewer for Women in Operations Research / Management Science Awards Committee for INFORMS (Institute for Operations Research & Management Science).

2008 – 2010: Discussant for the SEDSI.

2008 – 2010: Reviewer for IEEE Computer Society, Sustainable Systems and Technology (SST) (formerly Electronics and the Environment) Student Technical Paper Contest

- 1998 – 2007: IEEE Computer Society, Electronics and Environment Technical Committee, Vice Chair, Academic Activities. Created and organized international Electronics and the Environment (now SST) Student Technical Paper Contest.
- 2004: International Scientific Committee. Design & Manufacture for Sustainable Development Conference, Loughborough, United Kingdom, Sept. 1-2.
- 2003: National Science Foundation Workshop on Environmentally Benign Manufacturing. Birmingham, AL, Jan. 9-10.
- 2002 – 2003: Invited Cluster Chair, organized five sessions (nineteen papers) for invited Cluster, “Reverse Supply Chain,” INFORMS Conference, San Diego, CA, November 2002, and co-organized five sessions (nineteen papers) for invited Cluster, “Reverse Supply Chain,” INFORMS Conference, Atlanta, GA, October 2003.
- 2001: National Science Foundation Workshop on Environmentally Benign Manufacturing. Ypsilanti, MI, Sept. 26-28.
- 1998: Invited Participant. National Academy of Engineering International Conference on Industrial Environmental Metrics. Irvine, CA, Nov. 2-4.

MISCELLANEOUS

Industry Interactions

AT&T Bell Laboratories, Princeton, NJ (1994): Critiqued the AT&T Green Design Advisor and analyzed environmental impacts of printed circuit card assembly processes and products.

Resource Concepts, Inc., Carrollton, TX (1996 – 2003): Developed planning and scheduling strategies to reduce the costs of electronics recycling.

Essex Specialty Products, Inc., Subsidiary of Dow Chemical Co., Hillsdale, MI (1998): Solved a critical work-in-process backlog problem by identifying material handling and set-up problems and recommended a cost effective solution.

General Motors R&D Center, Warren, MI (2001 – 2002): Benchmarked the electronics reverse supply chain and identified opportunities for the automotive reverse supply chain.

Caterpillar Logistics, Peoria, IL (2001 – 2002): Developed a dealer inventory returns policy that links forward supply chain characteristics to low-value product return decisions which was implemented immediately.

Large catalog distributor, Indianapolis, IN (2001 – 2003): Developed disposition algorithms and identified steps to eliminate in the returns center.

Indiana University Medical Group, Indianapolis, IN (2004 – 2005): Surveyed clinic staff regarding perceptions for primary care patient attendance factors. Collected archival data for primary care patient attendance factors for attendance prediction model.

Sacred Heart Health System, Baptist Health Care, West Florida Healthcare, Pensacola, FL (2006 – 2011): Surveyed physical therapy clinic staff regarding perceptions for patient attendance factors. Collected archival data for physical therapy patient attendance factors and developed physical therapy attendance prediction model.

Environmental Capital Partners (2009): Provided my research papers on recycling planning and discussed recycling industry challenges.

Community Service

Covenant Hospice (2007 – 2010): Delta Society Registered Pet Partner and Covenant Hospice Volunteer. Regularly scheduled visits to resident care centers with dog to cheer patients.

President, UWF Chapter, Beta Gamma Sigma International Business Honor Society (2015-2016): Organized first service project for student involvement on October 19, 2015, for the UWF chapter of Beta Gamma Sigma student members to read children's books with business themes to preschool children in the UWF Educational Research Center for Child Development. Requested that UWF library purchase business themed children's books. Student VP of Service organized second service project on September 26, 2016 for the UWF chapter of Beta Gamma Sigma student members to read children's books with business themes to preschool children in the UWF Educational Research Center for Child Development.