

Toni L. Doolen
Dean, University Honors College
Professor, School of Mechanical, Industrial, and Manufacturing Engineering
Oregon State University

EDUCATION AND EMPLOYMENT

1. EDUCATION

- B.S., Electrical Engineering, Cornell University, Ithaca, NY, May 1987
- B.S., Materials Science and Engineering, Cornell University, Ithaca, NY, May 1987
- M.S., Manufacturing Systems Engineering, Stanford University, Stanford, CA, June 1991
- Ph.D., Industrial and Manufacturing Engineering, Oregon State University, June 2001

2. EMPLOYMENT

Academic Positions

- Dean, University Honors College, Oregon State University, Corvallis, OR June 2012- current
- Associate Dean, University Honors College, Oregon State University, Corvallis, OR September 2010-June 2012
- Associate Head for Undergraduate Programs, School of Mechanical, Industrial, & Manufacturing Engineering, Oregon State University, Corvallis, OR July 1, 2011-September 2012
- Professor, School of Mechanical, Industrial, & Manufacturing Engineering, Oregon State University, Corvallis, OR September 2011-current
- Associate Professor, School of Mechanical, Industrial, & Manufacturing Engineering, Oregon State University, Corvallis, OR September 2007-August 2011
- Assistant Professor, Department of Industrial and Manufacturing Engineering, Oregon State University, Corvallis, OR June 2001-August 2007

Industrial Positions

- Process Engineer, Optical Communications Division, Hewlett-Packard, San Jose, CA August 1987-September 1990
 - Sustained existing processes and led process development activities for the diffusion and photolithography areas of a bipolar integrated circuit fabrication facility.
 - Created and led interdepartmental teams whose efforts resulted in decreasing rework from 10% to 2% within 12 months.
- Manufacturing Systems Engineer, Optical Communications Division, Hewlett-Packard, San Jose, CA June 1991-May 1994
 - Project leader for production, maintenance, engineering, and management team for training, and certification of process specifications. Program highly regarded by customers.
 - Managed wafer test facilities with operations and personnel across 2 shifts.
 - Team leader for worldwide inventory reduction project. Responsible for determining appropriate inventory levels in the U.S. and South East Asia, scheduling of production starts, and prioritization algorithm.
 - Statistical Process Control project leader responsible for developing training materials and training engineers, managers, and supervisors.
 - Managed systems group of 5. Responsible for systems support of internal manufacturing and interfacing with operations and customers in Singapore. Process management tools used to develop customer service model.

Senior Member of Technical Staff, Inkjet Supplies Business Unit, Hewlett-Packard, Corvallis, OR
June 1994-November 1995

- Process control project leader for high-volume, inkjet cartridge assembly production line. Led engineering efforts to define and implement process control methodology. Worked with engineers to develop control tools and to complete gauge tool studies. Implementation completed in 18 months. Developed curriculum and training structure for 150 production personnel in 4 months. Initiated efforts to leverage process control efforts to other high volume assembly lines worldwide.
- Project leader for equipment reliability and maintainability program. Initiated pilot effort to eliminate minor stoppages. Established mean time between failure metric. Developed preventative maintenance prioritization tool.

Engineering Manager, Inkjet Supplies Business Unit, Hewlett-Packard, Corvallis, OR
December 1995-December 1998

- Engineering manager for team of ten engineers responsible for systems engineering support of two high volume manufacturing lines. Led efforts to converge systems. Factory lead for project to track products and processing information from the beginning of the manufacturing process to the end. This effort was critical in the timely resolution of product quality and yield issues.
- Engineering manager for team of 18 engineers responsible for process control implementation and systems engineering support of a new high volume assembly line. Led team in efforts to improve testing and debug of software early in the line development. Led team to complete early gauge analysis efforts to minimize line startup issues.
- Engineering manager for team of 16 systems engineers responsible for electrical and software support of three high volume assembly lines and packaging. Addressed systems issues across lines and developed systems staffing and training plans for new lines located worldwide.

TEACHNG, ADVISING, AND OTHER ASSIGNMENTS

1. INSTRUCTIONAL SUMMARY BY COURSE

Course # (Credits)	Course Title (Terms Taught)
ENGR 111 (3)	Engineering Orientation I (F05, F06, F07)
ENGR 112 (3)	Engineering Orientation II (W02, S02, W03, S03, W04, W05)
IE 113 (1)	Careers in Industrial & Manufacturing Engineering (F03, F04, W05, F05, W06, W07)
IE 114X (1)	Careers in Industrial and Manufacturing Engineering II (W03, W04)
ENGR 499H (2)	Managing in a Global Workplace (W08, W09, S11) also listed as HC 399
ME 206 (1)	How Engineers Serve Society (W06, W07)
IE 285 (3)	Introduction to Industrial And Manufacturing Engineering (F04, F06, F08)
HC 407 (1)	Transformational Leadership (S12)
IE 436/536 (4)	Lean Manufacturing Systems Engineering (F02, F03, F05, F07, F08, F10, F11)
ENGR 440 (4)	Modern Electronics Manufacturing (F01, F02)
IE 470/570 (4)	Management Systems Engineering (W04, W06, W08, W09, W11)
IE 471/571 (3)	Project Management in Engineering (W05, W07)
IE 497/498 (4/4)	Industrial Engineering Senior capstone design course (F08, W09)
IE 572 (3)	Communication and Team Building for Engineers (S02)
IE 594 (3)	Research Methods in Engineering (S04)

2. INSTRUCTIONAL SUMMARY BY YEAR

Term and Year	Course	Student Enrollment	Term and Year	Course	Student Enrollment
Fall 2001	ENGR 440	22	Fall 2006	ENGR 111	127
Winter 2002	ENGR 112	72		IE 285	50
Spring 2002	ENGR 112	52	Winter 2007	IE 471	39
	IE 572	8		IE 571	5
Fall 2002	ENGR 440	22	Fall 2007	ENGR 111	178
	IE 436	38		IE 436	51
	IE 536	12		IE 536	7
Winter 2003	ENGR 112	76	Winter 2008	IE 470	50
Spring 2003	ENGR 112	41		IE 570	6
Fall 2003	IE 113	64		ENGR 499H	8
	IE 436	47	Fall 2008	IE 285	34
	IE 536	12		IE 436	39
Winter 2004	ENGR 112	139		IE 536	10
	IE 470	47	IE 497	36	
	IE 570	8	Winter 2009	IE 470	30
Spring 2004	IE 594	13		IE 570	14
Fall 2004	IE 113	27		IE 498	35
	IE 285	28	ENGR 499H	7	
Winter 2005	ENGR 112	85	Fall 2010	IE 436	37
	IE 113	35		IE 536	10
	IE 471	55	Winter 2011	IE 470	28
	IE 571	6		IE 570	10
Fall 2005	ENGR 111	192	Spring 2011	HC 399	7
	IE 113	21	Fall 2011	IE 436	50
	IE 436	52		IE 536	12
	IE 536	15	Spring 2012	HC 407	12
Winter 2006	IE 113	21			
	IE 470	54			
	IE 570	17			
	ME 206	21			

3. CURRICULUM DEVELOPMENT

- Designed, specified, equipped, and qualified Lean Automation Laboratory (July 2001 – October 2002)
- Developed new curriculum and associated laboratories for ENGR 440 – Modern Electronics Manufacturing (July 2001 – December 2002)
- Developed new curriculum and associated laboratories for IE 436/IE 536 – Lean Manufacturing Systems Engineering (July 2002 – December 2002)
- Developed course curriculum for IE 470/IE 470 –Management Systems Engineering (September 2003 – March 2004)
- Redesigned ENGR 112 – Engineering Orientation II to utilize mobile wireless technology and active learning components (January 2002 – March 2005).
- Developed course curriculum for IE 471/IE 471 – Project Management in Engineering (September 2004 – March 2005)
- Redesigned ENGR 111 – Engineering Orientation I to include Transitional Learning Communities and discipline specific laboratories (September 2005 – December 2005)
- Developed collaborative learning activities for IE 470/IE 470 – Engineering Management Systems (January 2006 – March 2006)
- Experimental design for ENGR 111 – Engineering Orientation I Common first term curriculum for engineering freshman (June 2006 – January 2008)
- Developed Virtual Collaboration Lab and training materials (March 2007 – May 2008)
- Virtual Collaboration Lab in IE 470 with ISE 5016 (Virginia Tech) (November 2008 – April 2010)
- Created new 1-credit seminar course for OSU, University Honors College, ENGR 499H Managing in a Global Workplace (Winter 2008 and 2009).
- Worked to integrate Mechanical, Industrial, and Manufacturing senior capstone design courses (July 2008 – July 2009)
- Developed 9 physical simulation laboratories for IE 436/536 – Lean Manufacturing Systems Engineering.
- Coordinated development and implementation of a new undergraduate (B.S.) degree in Energy Engineering Management (EEM) during sabbatical leave from September 15, 2009 – June 14, 2010. Completed the following:
 - Served as the liaison between OSU College of Engineering (COE) faculty and administrators, OSU Cascades Campus faculty and administrators, Central Oregon Community College (COCC) faculty, and industrial representatives to support the development of an Energy Engineering Management Program Category I proposal.
 - Completed a benchmarking study of energy-focused engineering degree programs in the U.S.
 - Developed implementation plans for program startup related to new faculty recruitment/hiring, advising, marketing, course delivery, integrating to COE recruitment activities, and ABET accreditation.
 - Led a cross-disciplinary undergraduate program committee to design EEM curriculum and to identify structure and learning outcomes for four new courses.

4. NON-CREDIT COURSE SUMMARY

- May 2003, Lean Healthcare Training, Samaritan Family Medicine (Instructor), Corvallis, OR.
- July 2003, Failure Modes and Effects Analysis (FMEA) Workshop, Samaritan Health Services (Instructor), Corvallis, OR.
- December 2004, Lean Management Principles and Practice Chapter Tutorial Program, Surface Mount Technology Association (Instructor), Portland, OR.

5. GRADUATE STUDENTS ADVISED

Student Name	Role	Degree	Year
Woraruthai Choothian	Major Professor	PhD	2013*
June Worley	Major Professor	PhD	2013*
Waleed Mirdad	Major Professor	MS	2013*
Rachel Yim	Major Professor	MS	2013*
Samin Emami	Major Professor	MS	2012*
Juthamas Choomlucksana	Major Professor	PhD	2012*
Diane Van Scoter	Major Professor	PhD	2011
Lindsay Wiseman	Major Professor	MS	2011
Paul Stelson	Major Professor	MS	2011
Jing Li	Major Professor	MS	2011
John Kane	Major Professor	MENG	2011
Amirali Saeedi	Major Professor	MS	2010
Mark Bonnono	Major Professor	MS	2010
Jason Kintz	Major Professor	MENG	2010
Scott Carson	Major Professor	MENG	2010
John Holliday	Major Professor	PhD	2010
Behrouz Behmardi	Major Professor	MS	2009
Rungchat Chompu-inwai	Major Professor	PhD	2005
Anand Kuppusamy	Major Professor	MS	2005
Vivianne Louie	Major Professor	MS	2005
June Worley	Major Professor	MS	2004
Dwi Larso	Major Professor	PhD	2003
Chinmaya Hardas	Major Professor	MS	2003
Pasuchet Khositsakul	Major Professor	MS	2003
Vijayasarat Parthasarathy	Major Professor	MS	2003
Mike Traxler	Major Professor	MS	2003
Preedanood Prempreeda	Minor Professor	MS	2012*
Sarah Oman	Minor Professor	PhD	2012*
Douglas Van Bossuyt	Minor Professor	PhD	2012*
Jochen Czabke (WSE)	Minor Professor	MS	2007
Heather Bonin	Minor Professor	MENG	2006
Juthamas Choomlucksana	Minor Professor	MENG	2006
Myra Long	Minor Professor	MS	2006
Noa Segall	Minor Professor	MS	2003
Abbas Bozorgirad	Committee Member	PhD	2014*
Amirali Saeedi	Committee Member	PhD	2013*
Mylie Tong	Committee Member	MS	2011
Wiljeana Jackson (Virginia Tech)	Committee Member	PhD	2010
Robin Feuerbacher	Committee Member	PhD	2010
Scott Kramer	Committee Member	MS	2009
Rex Shroyer	Committee Member	MENG	2008
Leslie Braitsch	Committee Member	MS	2008
Lin-Hui Huang	Committee Member	MENG	2007
Jennifer Farris (Virginia Tech)	Committee Member	PhD	2007
Kenichi Komatsu	Committee Member	MENG	2006
Riad Lemhachheche	Committee Member	MS	2006
Parat Phinyawat	Committee Member	MENG	2006

Student Name	Role	Degree	Year
Venkata Vunguturi (ME)	Committee Member	MENG	2006
Hamad A. Al Tuaimi (EECS)	Committee Member	MS	2005
Jeffrey Stebel	Committee Member	MS	2005
Krisda Tor-Udom	Committee Member	MENG	2005
Tony Brace	Committee Member	MS	2004
Paul Schweitzer	Committee Member	MS	2004
Nitin Sharma	Committee Member	MS	2004
Venkatachalam Subramanian	Committee Member	MS	2004
Carlos Vasquez	Committee Member	MS	2004
Sang-Bin Park	Committee Member	PhD	2003
Kittiporn Paotrakool	Committee Member	MS	2003

* Anticipated completion year

6. ADMINISTRATIVE AND LEADERSHIP CONTRIBUTIONS

Project/Program Management

I served as the Project Director of two multi-year, cross-departmental grants: the Society of Manufacturing Engineers Education Foundation Grant (SME-EF) and the William and Flora Hewlett Foundation Engineering Schools of the West Initiative Grant (HF ESWI). Both of these grants had a substantial component related to curriculum and program development. I coordinated curriculum development, research, and laboratory development activities impacting multiple departments within and outside the College of Engineering. As a result of my grant activities and recent sabbatical, I also have extensive experience developing relationships and working with industrial partners. I have worked with leaders in organizations representing a variety of sectors, including high technology, traditional manufacturing, government agencies (both state and federal), and healthcare.

Program Assessment and Evaluation

I currently have oversight responsibility for assessment and evaluation activities related to ABET accreditation within the School of Mechanical, Industrial and Manufacturing Engineering (MIME). In this role, I have also provided guidance to other engineering programs looking to develop processes for assessment and evaluation. I co-chaired and chaired the 2001 and 2008 ABET accreditation efforts for industrial and manufacturing engineering programs. I have led efforts to create a functional tracking system for learning outcomes, student outcomes, and program educational objectives within MIME. I have also led the development of assessment and evaluation activities for the University Honors College (UHC). Four significant outcomes resulting from this work include: 1) updating of the UHC process and instrument for the Student Evaluation of Teaching (a distinct evaluation tool from eSET); 2) development of processes and instruments for UHC program assessment, evaluation, and continuous improvement; 3) development of preliminary plan and schedule for seeking an external UHC program review; and 4) completion of two annual assessment and evaluation reports submitted to the OSU Director of Assessment.

Program Operations

I have had direct responsibilities related to the operational aspects of the curriculum for the UHC for approximately 800 honors students and the entire set of undergraduate programs within MIME, which currently encompasses approximately 1,200 students. In MIME, I supervised three professional faculty and one classified staff member. In both areas, I have led efforts to increase summer course offerings, better manage course capacities and enrollments, and provide coaching and mentoring to faculty related to undergraduate teaching. I have also partnered with the Interim School Head of MIME to rethink our faculty strategy, which has led to plans for a new undergraduate advising office. Within the UHC, I have increased the robustness of the course portfolio by building relationships with

unit leaders to develop agreements or plans for partnerships that are mutually beneficial. As a result of these efforts, we have experienced a significant increase in the number of students enrolled in honors coursework (from 1,614 in 2010 to 2,066 in 2011) and a modest increase (74% to 78%) in UHC course fill rates. Additional outcomes resulting from these efforts include: 1) an updated Memorandum of Understanding (MOU) with Math for 14 honors math courses each year; 2) a three-year agreement for course offerings to meet the needs of UHC students from the College of Business; 3) an agreement with the College of Engineering to provide joint funding for honors engineering science courses; 4) an MOU with the School of History, Philosophy, and Religion, and with the School of Language, Culture, and Society (in process) for nine and 12 baccalaureate core courses, respectively; and 5) a new partnership with the College of Veterinary Medicine (pre-vet scholars).

University-Level Leadership

I served as the chair of the search committee for the OSU Director of Admissions in 2010 - 2011. I also served on the university's enrollment management task force and lead the staffing subgroup. In addition, I am a member of the UAC and UEC, representing the UHC in both of these important forums. I also participated as a speaker in the First Annual Faculty Assessment Academy and continued to provide input regarding assessment and evaluation activities, based on my experiences in these areas.

PUBLICATIONS

1. REFEREED PUBLICATIONS

Book Chapters

1. Doolen, T. L. and Hacker, M. E., (2002). "Assessing Organizational Context in Team-Based Organizations," In M. Beyerlein, D. Johnson, & S. Beyerlein (Eds.), *Team Based Organizing: Vol. 9. Advances in Interdisciplinary Studies of Work Teams* (pp 67-90). Oxford, UK: Elsevier Science Ltd.
2. Worley, J. M. and Doolen, T. L. (2010). "Turnovers and Turnarounds in the Healthcare System," In Y. Yih (Ed.), *Handbook of Healthcare Delivery Systems* (pp 37-1-37-8). London, UK: Taylor & Francis Group.

Journal Papers

1. Doolen, T.L., Hacker, M.E., and Van Aken, E.M. (2003). "The Impact of Organizational Context on Work Team Effectiveness: A Study of Production Teams," *IEEE Transactions on Engineering Management*, v. 50, n. 3, pp. 285-296.
2. Doolen, T.L., Porter, J.D., and Hoag, J. (2003). "The Relationship between PDA Usage and Student Performance in an Introductory Engineering Course," *Journal of Engineering Education*, v. 92, n. 3, pp. 263-268.
3. Hacker, S.K. and Doolen, T.L. (2003). "Strategies for living: Moving from the balance paradigm," *Career Development International*, v. 8, n. 6, pp. 283-290.
4. Doolen, T.L. and Hacker, M.E. (2005). "A Review of Lean Assessment in Organizations: An Exploratory Study of Lean Practices by Electronic Manufacturers," *Journal of Manufacturing Systems* v. 24, n. 1, pp. 55-67.

5. Segall, N., Doolen, T.L., and Porter, J.D. (2005). "A Usability Comparison of PDA-Based Quizzes and Paper-and-Pencil Quizzes," *Computers and Education*, v. 45 n. 4, pp. 417-432.
6. Paul, B.K., Sharma, N., and Doolen, T.L. (2005). "Microlamination based on surface mount technology for the economical production of high-aspect-ratio microchannel arrays," *Journal of Manufacturing Processes* v. 7, n. 2, pp. 174-181.
7. Worley, J.M. and Doolen, T.L. (2006). "The Role of Communication and Management Support in a Lean Manufacturing Implementation," *Management Decision*, v. 44, No. 2, pp. 228-245.
8. Doolen, T.L., Hacker, M.E., and Van Aken, E.M. (2006). "Managing Organizational Context for Engineering Team Effectiveness," *Team Performance Management: An International Journal*, v. 12, n. 5/6, pp. 138-154.
9. Doolen, T. L., Traxler, M. E., and McBride, K. (2006). "Using Scorecards for Supplier Performance Improvement: Case Application in a Lean Manufacturing Organization," *Engineering Management Journal*, v. 18, n. 2, pp. 26-34.
10. Hacker, M.E. and Doolen, T.L. (2007). "Alignment at the Top: Another Look at this Critical Factor in Project Implementation," *Engineering Management Journal*, v. 19 n. 1, pp. 38-42.
11. Louie, V.W. and Doolen, T.L. (2007). "A Study of Factors that Contribute to Maritime Fatigue," *Marine Technology*, v. 44, n. 2, pp. 82-92.
12. Doolen, T.L. and Long, M. (2007). "Identification of Retention Levers using a Survey of Engineering Freshman Attitudes at Oregon State University," *European Journal of Engineering Education*, v. 32, n. 6, pp. 721 – 734.
13. Chompu-inwai, R. and Doolen T.L. (2008). "The Impact of Mobile Wireless Technology on Student Attitudes in Higher Education Classrooms," *International Journal of Engineering Education*, v. 24, n 1, pp. 14-22.
14. Hardas, C.S., Doolen, T.L., and Jensen, D.H. (2008). "Development of a Genetic Algorithm for Component Placement Sequence Optimization in Printed Circuit Board Assembly," *Computers & Industrial Engineering*, v. 55, n. 1, pp. 165 – 182.
15. Czabke, J., Hansen, E.N., and Doolen, T.L. (2008). "A Multi-site Field Study of Lean Thinking in U.S. and German Secondary Wood Products Manufacturers," *Forest Products Journal*, v. 58, n. 9, pp. 77 – 85.
16. Farris, J.A., Van Aken, E.M., Doolen, T.L., and Worley, J. (2008). "Learning from Less Successful Kaizen Events: A Case Study," *Engineering Management Journal*, v. 20, No. 3, pp. 10-20.
17. Doolen, T.L., Van Aken, E., Farris, J.A., Worley, J.M., and Huwe J. (2008). "Kaizen Events and Organizational Performance: A Field Study," *International Journal of Productivity & Performance Management*, v. 57, No. 8, pp. 637-658.

18. Farris, J., Van Aken, E.M., Doolen, T.L., and Worley, J. (2009). "Critical Success Factors for Human Resource Outcomes in Kaizen Events: An Empirical Study," *International Journal of Production Economics*, v. 117, pp. 42-65.
19. Doolen, T.L., Larso, D. and Hacker, M.E. (2009). "Development of a Manufacturing Flexibility Hierarchy Through Factor and Cluster Analysis: The Role of New Product Type on U.S. Electronic Manufacturer Performance," *Journal of Manufacturing Technology Management*, v. 20, n. 4, pp. 417-441.
20. Funk, K.H., Bauer, J.D., Doolen, T.L.; Telasha, D., Nicolalde, J., Reeber, M., Yodpijit, N., and Long, M. (2010). "The Use of Modeling to Identify Vulnerabilities to Human Error in Laparoscopy," *The Journal of Minimally Invasive Gynecology*, v. 17, n. 3, pp. 311- 320.
21. Saeedi, A. and Doolen, T.L. (2011). "A Computer-assisted Qualitative Data Analysis Framework for the Engineering Management Domain," *International Journal of Data Analysis Techniques and Strategies*, v. 4, n. 1, pp.1-20.
22. Glover, W., Farris, J.H., Van Aken, E.M., and Doolen, T.L. (2011). "Critical Success Factors for the Sustainability of Kaizen Event Human Resource Outcomes: An Empirical Study," *International Journal of Production Economics*, v. 132, pp. 197-213.

2. REFEREED CONFERENCE PROCEEDINGS PAPERS

1. Hacker, M.E., Doolen, T.L., and Van Aken, E.M. (1999). "Issues in the Design, Analysis, and Interpretation of Quasi-Experiments in Industrial Settings," *Proceedings of the 1999 Industrial Engineering Research Conference*, Phoenix, AZ, May 24-25, 1999.
2. Doolen, T.L. and Hacker, M.E. (2000). "Measuring Team Performance: A Balanced Approach," *Proceedings of the 2000 Industrial Engineering Solutions Conference*, Cleveland, OH, May 22-24, 2000.
3. Doolen, T.L. and Hacker, M.E. (2000). "Teams in Context: What Do We Know Today?" *Proceedings of the 2000 Industrial Engineering and Research Conference*, Cleveland, OH, May 22-24, 2000.
4. Hacker, M.E. and Doolen, T.L. (2002). "Studying Management Efficiency and Effectiveness: A Case Study," *Proceedings of the 2002 Industrial Engineering and Research Conference*, May 19 -21, 2002, Orlando, FL.
5. Doolen, T.L., Nagarajan, R.D., and Hacker, M.E. (2002). "Lean Manufacturing: An Electronics Manufacturing Perspective," *Proceedings of the 2002 Industrial Engineering and Research Conference*, May 19 -21, 2002, Orlando, FL.
6. Doolen, T.L., Funk, K., Liu, C., Botney, R. (2003). "Re-engineering the Operating Room to Improve Surgical Patient Safety," *Proceedings of the 2003 Society for Health Systems (SHS) Management Engineering Forum*, February 7-8, 2003, San Diego, CA.
7. Hardas, C.S. and Doolen, T.L. (2003). "Component Placement Optimization in PCB Assembly," *Proceedings of the 2003 Industrial Engineering and Research Conference*, May 17 -21, 2003, Portland, OR.

8. Funk, K.H., Doolen, T.L., Botney, R., and Bauer, J.D. (2003). "A Functional Model of the Operating Room," *Proceedings of the Human Factors and Ergonomics Society 47th Annual Meeting*, October 13-17, 2003, Denver, CO, pp. 1569-1573.
9. Doolen, T.L. and Worley, J. (2003), "A Lean Manufacturing Model for Performance," *Proceedings of the 2003 Industrial Engineering and Research Conference*, May 17 –21, 2003, Portland, OR.
10. Doolen, T.L., Worley, J., Van Aken, E.M., and Farris, J. (2003). "Development of an Assessment Approach for Kaizen Events," *Proceedings of the 2003 Industrial Engineering and Research Conference*, May 17 –21, 2003, Portland, OR.
11. Farris, J., Van Aken, E.M., Doolen, T.L., and Worley, J. (2004). "Longitudinal Analysis of Kaizen Event Effectiveness," *Proceedings of the 2004 Industrial Engineering and Research Conference*, May 16 –19, 2004, Houston, TX.
12. Doolen, T.L. and Worley, J. (2004). "A Case Study Analysis of a Lean Performance Model," *Proceedings of the 2004 Industrial Engineering and Research Conference*, May 16 –19, 2004, Houston, TX.
13. Chompu-inwai, R. and Doolen, T.L. (2004). "IDEF Functional Modeling for Instructional Processes in Mobile Wireless Technology Classrooms," *Proceedings of the 34th Conference on Computers and Industrial Engineering*, November 14 –16, 2004, San Francisco, CA.
14. Chompu-inwai, R. and Doolen, T.L. (2005). "Using the Integration of QFD and IDEF Techniques for Mobile Wireless Classroom Process Improvement," *Proceedings of the 2005 ASEE Annual Conference*, June 2005, Portland, OR.
15. Farris, J., Van Aken, E.M., Doolen, T.L., and Worley, J. (2006). "Studying Kaizen Event Outcomes and Critical Success Factors: A Model-Based Approach," *Proceedings of the 2006 Industrial Engineering and Research Conference*, May 20 – 24, 2006, Orlando, FL.
16. Funk K.H., Doolen, T.L., Nicolalde, J., Bauer, J.D., Telasha, D., and Reeber, M. (2006). "A Methodology to Identify Systemic Vulnerabilities to Human Error in the Operating Room," *Proceedings of the Human Factors and Ergonomics Society 50th Annual Meeting*, October 16-20, 2006, San Francisco, CA.
17. Farris, J., Van Aken, E.M., Doolen, T.L., and Worley, J. (2006). "Learning from Kaizen Event Failures: A Research Methodology for Determining the Characteristics of More – and Less – Successful Events," *Proceedings of the 27th Annual Meeting of the American Society for Engineering Management*, October 25-28, 2006, Huntsville, AL.
18. Chompu-inwai, R. and Doolen, T.L. (2006). "A Methodology for Studying the Impact of Laptops in Engineering Classrooms," *Proceedings of the 36th ASEE/IEEE Frontiers in Education Conference*, October 28 – 31, 2006, San Diego, CA.
19. Chompu-inwai, R. and Doolen, T.L. (2006). "Using Qualitative Methods to Evaluate the Use of Technology in the Classroom," *Proceedings of the 36th ASEE/IEEE Frontiers in Education Conference*, October 28 – 31, 2006, San Diego, CA.

20. Worley, J., Doolen, T.L., Van Aken, E.M., Farris, J.A. (2007). "A Comparative Assessment of Kaizen Events within an Organization," *Proceedings of the 2007 Industrial Engineering and Research Conference*, May 19 – 23, 2007, Nashville, TN.
21. Farris, J.A., Van Aken, E.M., Doolen, T.L., and Worley, J. (2007). "Evaluating the Psychometric Properties of Kaizen Event Effectiveness Measures," *Proceedings of the 2007 Industrial Engineering and Research Conference*, May 19 – 23, 2007, Nashville, TN.
22. Farris, J.H., Van Aken, E.M., Doolen, T.L., and Worley, J. (2007) "A Study of Mediating Relationships on Kaizen Event Teams," *Proceedings of the 2007 Industrial Engineering and Research Conference*, May 19 – 23, 2007, Nashville, TN.
23. Worley, J., Doolen, T.L., Mitchell, R., Van Aken, E.M., and Farris, J.A. (2008)."Assessing Content Validity in Kaizen Event Research Surveys," *Proceedings of the 2008 Industrial Engineering and Research Conference*, May 18 – 21, 2008, Vancouver, BC, Canada.
24. Glover, W., Farris, J.H., Van Aken, E.M., Doolen, T.L., and Worley, J. (2008). "Kaizen Event Follow-up Mechanisms and Goal Sustainability: Preliminary Results," *Proceedings of the 2008 Industrial Engineering and Research Conference*, May 18 – 21, 2008, Vancouver, BC, Canada.
25. Doolen, T.L. and Bonnono, M.A. (2009). "The Impact of Shared Ownership on Virtual Team Effectiveness," *Proceedings of the 2009 Industrial Engineering and Research Conference*, May 30 – June 3, 2009, Miami, FL.
26. Doolen, T.L. and Choomlucksana, J. (2009). "Using Collaborative-Learning Activities to Introduce Lean Principles and Methods in the Higher Education Classroom," *Proceedings of the 2009 Industrial Engineering and Research Conference*, May 30 – June 3, 2009, Miami, FL.
27. Farris, J.A., Van Aken, E.M., Doolen, T.L., Worley, J.M., and Liu, W. (2009). "Characteristics of Successful Kaizen Events: An Empirical Study," *2009 Flexible Automation and Intelligent Manufacturing Conference*, July 6-8, 2009, Teesside, U.K.
28. Wiseman, L. and Doolen, T.L. (2009). "Evaluating the Effectiveness And Efficiency of Continuous Improvement Training," *Proceedings of the 30th Annual Meeting of the American Society for Engineering Management*, October 14 – 17, 2009, Springfield, MO.
29. Glover, W., Farris, J.H., Van Aken, E.M., Farris, J.H., Doolen, T.L., and Worley, J. (2010). "Sustaining Human Resource Outcomes from Kaizen Events," *Proceedings of the 2010 Industrial Engineering and Research Conference*, June 5 – June 10, 2010, Cancun, Mexico.
30. Holliday, J.W. and Doolen, T.L. (2010). "Survey Development for a Study of the Effects of CI Tools and Implementation Practices on Hospital Performance," *Proceedings of the 2010 Industrial Engineering and Research Conference*, June 5 – June 10, 2010, Cancun, Mexico.
31. Glover, W., Farris, J.H., Van Aken, E.M., Farris, J.H., and Doolen, T.L. (2010). "Sustaining Technical System Outcomes from Kaizen Events," *Proceedings of the 31st Annual Meeting of the American Society for Engineering Management*, October 13-16, 2010, Rogers, AK.
32. Woraruthai C. and Doolen, T.L. (2010). "Decision-making Tools in New Product Development Process: A Literature Review," *Proceedings of the 31st Annual Meeting of the American Society for Engineering Management*, October 13-16, 2010, Rogers, AK.

33. Choomlucksana, J. and Doolen, T.L. (2011). "An Investigation of Self-efficacy and Attitudes Using a Role-playing Simulation," *Proceedings of the 2011 Industrial Engineering and Research Conference*, May 21 – May 25, 2011, Reno, NV.
34. Van Scoter, D. and Doolen, T.L. (2011). "Comparative Analysis of Critical Success Factor Research," *Proceedings of the 2011 Industrial Engineering and Research Conference*, May 21 – May 25, 2011, Reno, NV.
35. Glover, W., Farris, J.H., Van Aken, E.M., Farris, J.H., and Doolen, T.L. (2011). "Determinants of Kaizen Event Team Effectiveness: Comparison of Phase I and Full Study Findings," *Proceedings of the 2011 Industrial Engineering and Research Conference*, May 21 – May 25, 2011, Reno, NV.
36. Woraruthai C. and Doolen, T.L. (2011). "The Application of Lean Principles to New Product Development Process," *Proceedings of the 32nd Annual Meeting of the American Society for Engineering Management*, October 19-22, 2011, Lubbock, TX.
37. Doolen, T.L., Van Scoter, D., Tumer, I.Y., Malak, R., Van Bossuyt, D., and Hsiao, C. (2011). "Empirically-Derived Risk Indicators in Large Design Organizations," *Proceedings of the 32nd Annual Meeting of the American Society for Engineering Management*, October 19-22, 2011, Lubbock, TX.

3. PRACTITIONER-ORIENTED PUBLICATIONS (NON-REFEREED)

1. Doolen, T.L., Funk, K.H., Bauer, J.D., and Botney, R. (2003). "A Careful Examination," *Industrial Engineer*, v. 35, n. 11, pp. 46-51.
2. Doolen, T.L., Van Aken, E.M., Worley, J., and Farris, J. (2006). "Kaizen Event Success and Sustainability: New Research," *Lean Directions - The E-newsletter of Lean Manufacturing*, Society of Manufacturing Engineers, November 2006. <http://www.sme.org/cgi-bin/get-newsletter.pl?LEAN&20061110&2&>.
3. Doolen, T.L. Tang, B., Saeedi, A., and Emami, S. (2011). "To Accelerate Bridge Construction or Not? A Planning Phase Decision Tool for ABC," *Public Roads*, v. 75, n. 3, Publication Number: FHWA-HRT-12-001.
4. Tang, B. and Doolen, Toni L. (2012). "ABC Tool Weighs Alternatives," *ASPIRE*, Summer 2012, pp. 50-51.

4. PRESENTATIONS, POSTER SESSIONS, AND NON-REFEREED PAPERS

1. Doolen, T.L. (2000). "Measuring Team Performance: A Balanced Approach," Presented at the *2000 Industrial Engineering Solutions Conference*, Cleveland, OH, May 22, 2000.
2. Doolen, T.L. and Hacker, M.E. (2002). "Understanding Organizational Context and Teams: A Team Leader's Perspective," Presented at the *2001 Industrial Engineering Research Conference*, Dallas, TX, May 2001.
3. Doolen, T.L. (2004). "Assessment & Evaluation of Kaizen Events as an Organizational Change Mechanism," Presented at *Manufacturing in Lean Times Conference*, Corvallis, OR, October 2003.

4. Doolen, T.L. and Hacker, M.E. (2004). "The Impact of Lean Manufacturing Practices and Principles on Electronics Manufacturers," Poster presented at the *2004 NSF Design, Service and Manufacturing Grantees and Research Conference*, Dallas, TX, January 2004.
5. Brace, T., Long, M., and Doolen, T.L. (2004). "Improving Operating Room Patient Safety," Presented at the *OCHE and OSAOHN Healthcare Ergonomics Conference*, Portland, OR, July 2004.
6. Doolen, T.L. (2004). "Lean Manufacturing Overview," Presented at the Oregon Chapter Surface Mount Technology Association 20th Anniversary Celebration Meeting, Portland, OR, September 2004.
7. Doolen, T.L. (2004). "Lean Management Principles and Practices," Presented for the Oregon Chapter Surface Mount Technology Association Training Day, Portland, OR, November 2004.
8. Doolen, T.L. (2006). "How to Get the Most Out of Your Kaizen Event," Presented at a joint meeting of the Portland Chapters of the Institute of Industrial Engineers and the Society for Manufacturing Engineers, Portland, OR, February 2006.
9. Doolen, T.L. (2006). "A Study of Kaizen Events," Presented to the Society of Manufacturing Engineers Human Side of Lean Interest Group teleconference, April 2006.
10. Doolen, T.L. and Van Aken, E.M. (2006). "How to Get the Most out of Your Kaizen Event," Presented at the *2006 Industrial Engineering Solutions Conference*, Orlando, FL, May 2006.
11. Doolen, T.L. and Takeda, K. (2006). "Expanding Your Member Base: The World Beyond Manufacturing," Presented at the *Institute of Industrial Engineers Volunteer Leadership Training*, Orlando, FL, May 2006.
12. Doolen, T.L., Van Aken, E.M., Farris, J.A., and Worley, J. (2007). "How to Create Successful Kaizen Events," Presented at the *2007 Industrial Engineering Solutions Conference*, Nashville, TN, May 2007.
13. Van Aken, E.M., Doolen, T.L., Glover, W. and Farris, J.A. (2008). "Designing Successful Kaizen Event Programs: Lessons Learned from Case Studies and the Literature," Presented at the *2008 Industrial Engineering Solutions Conference*, Vancouver, BC, May 2008.
14. Van Aken, E.M., Letens, G., and Doolen, T.L. (2009). "Getting Started with Your Kaizen Event Program: Design for Success," Presented at the *2009 Industrial Engineering Solutions Conference*, Miami, FL, June 2009.
15. Doolen, T.L. (2010). "Kaizen Event Success is Not Academic," Presented at the *2010 Material Handling and Logistics Conference*, Park City, UT, September 2010.
16. Doolen, T.L. (2011). "Economic Modeling Study," Accelerated Bridge Construction: Research, Design, and Practice and Structures Committee sessions at the *TRB 90th Annual Meeting*, Washington D.C., January 2011.
17. Doolen, T.L. and Teng, B. (2011). "ABC Decision Making and Economic Modeling Tool," Presented in the *FHWA Every Day Counts Prefabricated Bridge Elements and Systems (PBES) Webinar* series, March 2011.

18. Doolen, T.L. (2011). "ABC Decision Tool and Economic Analysis," Presented in the ODOT Program Innovations to support Practical Design session at the *6th Annual Oregon Department of Transportation (ODOT) and the American Council of Engineering Companies of Oregon (ACEC-Oregon) Partnering Conference*, Wilsonville, OR, April 2011.
19. Doolen, T.L. (2011). "To Accelerate Bridge Construction or Not," Presented in the U.S. Department of Transportation, Federal Highway Administration *NHI Innovations Web Conference* series, May 2011.
20. Emami, S. and Doolen, T.L. (2011). "A Planning Phase Decision Tool for ABC," Presented at the *2011 ODOT Bridge Design Conference*, Salem, OR, May 2011.
21. Doolen, T.L. (2011). "New Decision Tool, Determining When to Use Accelerated Bridge Construction," Presented at the *2011 Traffic Management & Work Zone Safety Power Workshop*, Pittsburgh, PA, June 2011.
22. Emami, S. and Doolen, T.L. (2011). "ABC Decision Tool and Economic Modeling Study," Presented at the *2011 Mid-Continent Transportation Research Symposium*, Ames, IA, August 2011.
23. Doolen, T.L. (2011). "A Planning Phase Decision Tool for ABC," Presented at the *Western Bridge Engineers' Seminar*, Phoenix, AZ, September 2011.
24. Doolen, T.L. (2011). "Program Outcome Assessment: Case Study from Three Engineering Programs," Presented at First Annual Faculty Assessment Academy, Corvallis, OR, October 5, 2011.
25. Emami, S. and Doolen, T.L. (2011). "A Planning Phase Decision Tool for Accelerated Bridge Construction," Presented at the *26th Annual Civil Engineering Professional Development Seminar*, West Lafayette, IN, November 2011.

GRANT AND CONTRACT SUPPORT

Title : REU for GOALI: Collaborative Research: A Methodology for Utility-Based Decision Making in Large Organizations using Empirically Derived Risk Indicators
Source : National Science Foundation
PI(s) : Irem Tumer, Toni Doolen, and Rich Malak
Dates : 1/01/2011 – 9/14/2013
Level : \$ 6,000

Title : GOALI: Collaborative Research: A Methodology for Utility-Based Decision Making in Large Organizations using Empirically Derived Risk Indicators
Source : National Science Foundation
PI(s) : Irem Tumer, Toni Doolen, and Rich Malak
Dates : 9/15/2010 – 9/14/2013
Level : \$ 450,663

Title : Multi-State ABC Decision Tool and Economic Modeling Project
Source : FWHA Pooled Fund Study
PI(s) : Toni Doolen
Dates : 12/23/2009 – 09/30/2012
Level : \$121,053

Title : Issuance of Driver Licenses and Identification Cards to Prisoners
Source : Oregon Department of Transportation
PI(s) : David Kim, J. David Porter, Toni Doolen
Dates : 1/19/2010 – 6/30/2010
Level : \$ 44,924

Title : Development of Continuous Improvement Tools and Training
Source : Oregon Metals Initiative and Cascade Steel Rolling Mills, Inc.
PI(s) : Toni Doolen
Dates : 12/15/2008 – 6/15/2010
Level : \$50,235

Title : Local versus State Bridge Construction Costs Comparison
Source : Oregon Department of Transportation
PI(s) : Toni Doolen
Dates : 09/15/2008 – 09/14/2009
Level : \$38,302

Title : OSU Lean Enterprise
Source : Boeing Company
PI(s) : Toni Doolen
Dates : 08/01/2007 – 07/31/2012
Level : \$5,000

Title : Collaborative Proposal: Determinants of Kaizen Event Success and Sustainability
Source : National Science Foundation
PI(s) : Toni Doolen and Eileen Van Aken
Dates : 08/01/05 – 7/31/10
Level : \$373,051

Title : Understanding and Modeling Design Uncertainty in Real-World Organizations
Source : School of Mechanical, Industrial and Manufacturing Engineering SEED Grant
PI(s) : Toni Doolen and Irem Tumer
Dates : 02/1/2008 – 01/31/2009
Level : \$25,000

Title : Integrating Global Competence into Undergraduate Engineering Courses at OSU
Source : Teaching and Learning Innovation Grant, OSU
PI(s) : Toni Doolen
Dates : 02/01/08 – 02/01/09
Level : \$2,750

Title : Integrating Hands-On Discovery of Lean Principles into Management and Engineering Curricula (Travel grant and laboratory materials)
Source : NSF DUE
PI(s) : Toni Doolen
Dates : 08/01/2007 – 07/31/2009
Level : \$5,500 (\$500 in travel grant, \$5,000 in laboratory materials)

Title : Global Collaboration and Distributed Design
Source : Boeing Company
PI(s) : Toni Doolen
Dates : 08/01/2007 – 07/31/2009 and 7/31/2010 – 7/30/2012
Level : \$6,000

Title : Engineering Schools of the West: An Integrated Learning Platform to Improve Engineering Recruitment and Retention
Source : William and Flora Hewlett Foundation
PI(s) : Toni Doolen, J. David Porter, Joe Zaworski, Robert Paasch, and Michael Quinn
Dates : 07/01/03 – 07/31/08
Level : \$1,100,000

Title : Development of Vulnerability Analysis Matrix Software for Operating Rooms
Source : John C. Erkkila, M. D. Endowment for Health and Human Performance, Good Samaritan Hospital Foundation
PI(s) : Toni Doolen and Kenneth H. Funk
Dates : 01/05/05 – 12/30/05
Level : \$12,640

Title : Comparative Evaluation of costs and the cost-effectiveness of mobile wireless technology in undergraduate engineering courses
Source : Northwest Academic Computing Consortium
PI(s) : Toni Doolen
Dates : 06/01/04 – 05/30/05
Level : \$9,995

Title : The Impact of Lean Manufacturing Practices and Principles on Electronics Manufacturers
Source : National Science Foundation
PI(s) : Toni Doolen and Marla E. Hacker
Dates : 09/15/02 – 08/31/04
Level : \$82,215

Title : Investigating Alternative Materials for Wave Solder Pallets
Source : Ascentec Engineering
PI(s) : Toni Doolen
Dates : 01/01/04 – 06/15/04
Level : \$10,000

Title : Operating Room Human-Machine Systems Engineering: Modeling the OR
Source : John C. Erkkila, M. D. Endowment for Health and Human Performance, Good Samaritan Hospital Foundation
PI(s) : Toni Doolen and Kenneth H. Funk
Dates : 01/05/03 – 12/30/03
Level : \$12,773

Title : Multidisciplinary Curriculum for the Rapid Deployment of Lean Automated Manufacturing
Source : Society of Manufacturing Engineers, Education Foundation
PI(s) : Toni Doolen, Brian Paul, Robert Paasch, and Dean Jensen
Dates : 10/01/01 – 09/30/03
Level : \$184,970

Title : Lean Automation Laboratory Development
Source : In-Kind Donations for Lean Automation Lab
PI(s) : Toni Doolen
Dates : 09/01/02 – 12/31/03
Level : \$ 12,477

Title : Outcome Assessment of Mobile Wireless Technology Learning Environment in Engineering
Source : Northwest Academic Computing Consortium
PI(s) : Toni Doolen and J. David Porter
Dates : 05/01/02 – 05/01/03
Level : \$10,000

Title : Hewlett-Packard Mobile Technology Solutions Initiative –Phase II
Source : Hewlett Packard Corporation
PI(s) : J. David Porter, Toni Doolen and Ben Lee
Dates : 01/01/02 – 01/01/03
Level : \$113,518

Title : Hewlett-Packard Mobile Technology Solutions Initiative – Phase I
Source : Hewlett Packard Corporation
PI(s) : J. David Porter, Toni Doolen and Ben Lee
Dates : 07/01/01 – 07/01/02
Level : \$229,722

PATENT AWARDS/INVENTIONS

Patent Application Submitted April 2006

US Patent Application, serial number 10/576,963 / publication number US-2007-0029365-A1; High Volume Microlamination Production of Devices

Inventors: Brian Paul, Industrial & Manufacturing Engineering
Toni Doolen, Industrial & Manufacturing Engineering
Nitin Sharma, Industrial & Manufacturing Engineering

SERVICE

1. UNIVERSITY SERVICE

- Industrial and Manufacturing Engineering faculty search committee (Fall 2001 – Spring 2002)
- College of Engineering Women and Minorities Engineering Program Director search committee member (Fall 2002)
- Industrial and Manufacturing Engineering Space committee member (September 2001 – August 2002)
- Industrial and Manufacturing Engineering ABET accreditation co-chair (September 2001 – October 2002)
- CONNECT Professor Panel member, OSU (October 2002, October 2003)
- Academic advisor, Phi Sigma Kappa (September 2003 – September 2004)
- College of Engineering Recruitment, Retention, and Research committee member (RRR) to develop COE Diversity plan (2004 – 2005)
- Academic advisor, Pre-engineering students (Industrial, manufacturing, and general) (September 2001 – September 2005)
- Industrial and Manufacturing Engineering Undergraduate recruiting committee chair (May 2002 – June 2005)
- Boeing Professorship selection committee member (2006)
- ONAMI MBI Process Development Manager selection committee member (2006)
- IME ABET coordinator (2002 – 2007)
- Industrial & Manufacturing Engineering faculty search committee (September 2005 – June 2008)
- Industrial & Manufacturing Engineering lab manager for Lean Automation Lab (September 2001 – Current)
- Industrial Engineering Recruiting and Retention committee chair (June 2004 – June 2006)

- Faculty advisor, Oregon State University Surface Mount Technology Association Student Chapter (September 2002 – August 2008)
- MIME P&T committee member (January 2009 – September 2009)
- MIME Vision committee (September 2007 – Fall 2010)
- MIME ABET Chair (June 2007 – Fall 2010)
- Chair, OSU Director of Admissions Search Committee (November 2010 – May 2011)
- Member, Enrollment Management Task Force (May 2011 – December 2011)
- Chair, Industrial Engineering faculty search committee (Fall 2011 – Spring 2012)
- Board of Directors, OSU Phi Kappa Phi (November 2011 – November 2013)
- Faculty advisor, Oregon State University Institute of Industrial Engineers Student Chapter (September 2008 – Current)
- CL@SE Strategic Advisory Board (March 2012 – Current)

2. SERVICE TO THE PROFESSION

National Leadership Roles

- Committee member, Society for Engineering and Management Systems, Institute of Industrial Engineers (May 2002 – April 2003)
- Director, Society for Engineering and Management Systems, Institute of Industrial Engineers (May 2003 – April 2004)
- President-Elect, Society for Engineering and Management Systems, Institute of Industrial Engineers (May 2004 – April 2005)
- President, Society for Engineering and Management Systems, Institute of Industrial Engineers (May 2005 – April 2006)
- Past-President, Society for Engineering and Management Systems, Institute of Industrial Engineers (May 2006 – April 2007)
- Task Force member, Society of Manufacturing Engineers, Education Foundation, Youth Task Force Committee (December 2004 – April 2005)
- Chair, IIE Annual Conference Process Task Force, Institute of Industrial Engineers (May 2005 – Aug 2006)
- Institute of Industrial Engineers, Vice President of Technical Networking (May 2009 – May 2011)

Review Boards and Panels

- Panel Member Proposal Reviewer, National Science Foundation, DMI, May 2005
- Editorial Review Board, *Management Decision* (August 2006 – September 2010)
- Reviewer for *Journal of Engineering Education* (August 2004 – current)
- Editor, *Engineering Management Journal* (February 2009 – current)

Professional Conference Leadership Roles

- Session chair, (Solutions Conference) 2000 International Industrial Engineering Conference, Cleveland, Ohio (May 2000)
- Track chair, (Research Conference) 2000 Industrial Engineering Conference, Cleveland, Ohio (May 2000)
- Program committee member (Research Conference) 2003 International Industrial Engineering Conference, Portland, Oregon (May 2003)
- Track chair (Research Conference) 2003 Industrial Engineering Conference, Portland, Oregon (May 2003)

- Track chair (Solutions Conference) 2004 Industrial Engineering Conference, Houston, Texas (May 2004)
- PICMET 2006 program committee member and reviewer (Spring 2004)
- Invited Engineering Management session chair (Research Conference), 2006 Industrial Engineering Conference, Orlando, Florida (May 2006)
- Engineering Management track chair (Research Conference), 2007 Industrial Engineering Conference, Nashville, Tennessee (May 2007)
- Engineering Management track chair (Research Conference), 2008 Industrial Engineering Conference, Vancouver, BC, Canada, (May 2008)
- IIE Engineering Management Award Committee (January – June 2008)
- Engineering Management invited session chair (Research Conference), 2009 Industrial Engineering Conference, Miami, Florida, (May 2009)
- 2011 Institute of Industrial Engineers Research Conference Co-Chair (June 2010 – May 2011)
- 2012 Institute of Industrial and Systems Engineering Research Conference, Engineering Management Track Co-Chair and Tutorials Track Co-Chair

3. SERVICE TO THE PUBLIC (professionally related)

- President, Santa Clara Valley Section, Society of Women Engineers (1991-1993)
- National Career Guidance Committee Chair, Society of Women Engineers (1995-1999)
- President, Willamette Valley Section, Society of Women Engineers (1996-1998)
- SESEY Outreach Workshop Instructor (July 2002)
- ASE Mentor (June 2002 – August 2002)
- Girl Scout Programs Committee Chair, Society of Women Engineers, Willamette Valley Section (September 2001 – June 2003)
- E-Camp Workshop (August 2003)
- Instructor, Saturday Academy, Inside Technology for Girls (March 2003)
- Adventures in Learning, E-Manufacturing Class, Pre-College Programs, Oregon State University (July 2004 and July 2005)
- Engineering Camp, Saturday Academy, Pre-College Programs, Oregon State University (July 2005)
- Society of Women Engineers, National Work Life Balance Award Judge (May 2006)
- Girl Scout Programs Volunteer, Society of Women Engineers, Willamette Valley Section (September 2006 – May 2007)
- Engineering Week Program Chair, Society of Women Engineers, Willamette Valley Section (September 1998 – February 2000, September 2006 – June 2009)
- Treasurer, Willamette Valley Section, Society of Women Engineers (July 2011 – June 2012)

AWARDS

- Hewlett-Packard Resident Fellowship to attend Stanford University (September 1990)
- Society of Women Engineers, Distinguished New Engineer (June 1997)
- Best Paper, Institute of Industrial Engineers, Engineering Management Track (May 2004)
- National Society of Collegiate Scholars' 2006 Faculty of the Year Award Nominee (May 2006)
- Oregon State University, Industrial and Manufacturing Engineering Department, IIE Faculty of the Year Award (2006)
- Oregon State University, School of Mechanical, Industrial, & Manufacturing Engineering, IIE Faculty of the Year Award (2007)
- Oregon State University, School of Mechanical, Industrial, & Manufacturing Engineering, Most Outstanding Professor, Industrial and Manufacturing Engineering (2008)

- Best Paper, Institute of Industrial Engineers, Engineering Management (May 2008)
- Oregon State University, School of Mechanical, Industrial, & Manufacturing Engineering, Most Outstanding Professor, Industrial and Manufacturing Engineering (2009)
- Society of Women Engineers, Fellow (October 2009)
- American Society of Engineering Management, Ted Eschenbach Best Engineering Management Journal Paper Award (October 2009)
- Best Paper, Institute of Industrial Engineers, Engineering Management (May 2010)
- Oregon State University Elizabeth P. Ritchie Distinguished Professor Award (June 2010)
- Oregon State University, College of Engineering, Austin-Paul Engineering Faculty Award (September 2010)
- Best Paper, Institute of Industrial Engineers, Engineering Education (May 2011)
- Institute of Industrial Engineers, Lean Division Teaching Award (June 2012)
- Institute of Industrial Engineers, Fred C. Crane Distinguished Service Award (June 2012)