

Angela Minichiello
4160 Old Main Hill Logan, Utah 84322
435-757-6294 (cell)
angie.minichiello@usu.edu

EDUCATION and PROFESSIONAL PREPARATION

Ph.D., Utah State University

Engineering Education, 2016, Logan, Utah

Dissertation: *Toward Alternative Pathways in Engineering Education:*

Nontraditional Student Success in a Distance-Delivered Engineering Transfer Program

Co-Advisors: Dr. Oenardi Lawanto, Department of Engineering Education, College of Engineering and Dr. Sherry Marx, School of Teacher Education and Leadership, Emma Eccles Jones College of Education and Human Services

Registered Professional Engineer (mechanical)

- Colorado (#36281) 2001-P
- Utah (#5105852-2202) 2002-P

MSME, Georgia Institute of Technology

Mechanical Engineering, 1997, Atlanta, Georgia

National Science Foundation (NSF) Graduate Fellowship

Thesis: *Development of a Heat Transfer Module for the Thermal Management of Sealed Electronic Enclosures.*

Advisor: Dr. Ari Glezer, Department of Mechanical Engineering, College of Engineering

BSME, United States Military Academy

Mechanical Engineering, 1987, West Point, New York

Deans List (4 years)

Graduated *with distinction (Top 5% of graduating class)*

RESEARCH INTERESTS

Inclusive engineering education

Social Justice

Hybrid and asynchronous online learning in engineering education

Qualitative research methodologies

PROFESSIONAL EXPERIENCE

2016 - P Assistant Professor

Department of Engineering Education

Utah State University, Logan, Utah

2009 - 2016 Principal Lecturer, Engineering

*Department of Engineering Education, Utah State University
Brigham City Regional Campus, Brigham City, Utah*

Developed engineering curricula and instructed core undergraduate engineering courses via distance delivery. Actively mentored and advised freshman and sophomore engineering students.

2005 - P Adjunct Faculty

Department of Mechanical and Aerospace Engineering, Utah State University, Logan, Utah

Develops curricula and instructs mechanical engineering courses within the thermal-fluids area.

2004 - 2010 President and Principal Engineer

CastleRock Engineering, Inc., Logan, Utah

Small business owner and founder. Secured federal and state sponsored research grants (SBIR, STTR, Utah COE) and industry engineering contracts. Conducted research and provided engineering services including thermal-fluids analysis (CFD, FEA) and mechanical design (CAD).

2002 - 2006 Senior Mechanical /Thermal Engineer

Space Dynamics Laboratory, Utah State University Research Foundation, North Logan, UT.

Lead Mechanical / Thermal Engineer for military-grade electronic systems supporting customers including Raytheon, Lockheed Martin, the Naval Research Laboratory, and NASA.

1998 - 2002 Research and Development Engineer

Ft Collins Systems & Technology Laboratory, Hewlett Packard Company, Ft Collins, CO.

Lead Thermal Engineer on a high-availability, 32-processor UNIX server product line.

1997 - 1998 Manufacturing Engineer

All-in-One Division, Hewlett Packard Company, San Diego, CA.

Engineer responsible for troubleshooting and correcting manufacturing issues for the *Office Jet* product line.

1994 - 1997 Graduate Research Assistant

NSF Microsystems Packaging Research Center, Georgia Institute of Technology, Atlanta, GA.

1987 – 1994 Active Duty U.S. Army Commissioned Officer (Aviation Branch)

CH-47 C/D (Chinook) Medium Lift Helicopter Pilot. Operation Desert Shield/Storm veteran. As an U.S. Army officer commissioned in the Aviation Branch, served in five countries across two continents. Held wide-ranging leadership positions including Detachment Commander, Flight Operations Officer, Flight Platoon Leader, and CH47D Night Vision Goggle Pilot-in Command. Over 1000 hours flown (58 combat hours). Air Medal recipient.

RESEARCH SUPPORT

Current

5. **Minichiello, A. (PI)** & Hailey, C. "Online Learning Forums for Improved Engineering Student Outcomes in Calculus", \$199,979, National Science Foundation, Division of Undergraduate Education (DUE), Award No. DUE-1245194, February 1, 2013 - January 31, 2017.

Completed

4. **Minichiello, A. (PI)** & Smith, B. L. "STTR Phase I: Direction and Profile Control for Thermal Sprays," \$149,993, National Science Foundation, Division of Innovation and Industrial Partnerships (IIP), Award No. January 1, 2008 - June 1, 2009.

3. Kulyukin, V. (PI) & **Minichiello, A.** "STTR: A Wearable Multi-Sensor Navigation Device for the Visually Impaired", \$129,062, National Institutes of Health, National Eye Institute (NEI), Award No. 1 R41 EY017516-01A1, September 30, 2006-August 31, 2008.

2. **Minichiello, A. (PI)** & Smith, B. L. "SBIR Phase I: Particle Sorting via Aerodynamic Vectoring," \$115,674, National Institutes of Health, National Institute of Environmental Health Sciences (NIEHS), Award No.1 R43 ES014506-01, August 15, 2006–February 14, 2008.

1. **Minichiello, A. (PI)** & Smith, B. L. "STTR Phase I: Particle Sorting via Aerodynamic Vectoring," \$99,980, National Science Foundation, Division of Manufacturing Innovation (DMI), Award, No. DMI-0512525, July 1, 2005 – June 30, 2006.

JOURNAL PUBLICATIONS (corresponding author indicated by *)

1. **Minichiello***, A., Glezer, A., Hartley, J. G., & Black, W. Z. (1997). Thermal management of sealed electronic enclosures using synthetic jet technology. *Advances in Electronic Packaging, 1997: Proceedings of the Pacific Rim/ASME International Intersociety Electronic & Photonic Packaging Conference, INTERpack '97*, EEP-Vol.19-2, pp. 1809-1812, New York, N.Y: American Society of Mechanical Engineers

BOOK CHAPTERS

3. **Minichiello, A.** (2016). Examining Academic Integrity in the Postmodern: Undergraduates' Use of Solutions to Complete Textbook-based Engineering Coursework. In S. Marx (Ed.), *Qualitative research in STEM education: Studies of equity, access and innovation*. New York: Routledge.

2. **Minichiello, A.**, Blake, T., Goodridge, W., & Sam, D. (2015). Interdisciplinary team instruction in a distance-delivered first year engineering course. In A. Blackstock & N. Straight (Eds.), *Connected classrooms: Interdisciplinary approaches to distance teaching*. Routledge Research in Education Series. New York: Routledge/Taylor & Francis.

1. **Minichiello, A.** (2006). Chapter 40: A first-order thermal analysis of balloon-borne air-cooled electronics. In M. Kuntz (Ed.), *Heat transfer calculations*, McGraw-Hill.

PEER-REVIEWED CONFERENCE PUBLICATIONS (student advisee indicated by ❖)

15. Harkness❖, D. & **Minichiello, A.** (2016). Exploring student resistance to online discussion forums in calculus. *Proceedings of the 123rd Annual ASEE Conference & Exposition*, New Orleans, LA.

14. **Minichiello, A.**, Hailey, C., Campbell, T., Dorward, J., Harkness❖, D., & Marquit, J. (2016). Understanding student participation in a first-year calculus online support forum. *Proceedings of the NSF/AAAS Envisioning the Future of Undergraduate STEM Education: Research and Practice Symposium*, Washington, D.C.

13. **Minichiello, A.**, Marx, S., Hailey, C., & McNeill, L. (2015). Learning practices of contemporary engineering undergraduates assigned online homework. *Proceedings of the 6th Research in Engineering Education Symposium, Dublin, Ireland*.

12. **Minichiello, A.**, Campbell, T., Dorward, J. T., & Marx, S. (2015). Perspectives of pedagogical change within a STEM classroom. *Proceedings of the 122nd Annual ASEE Conference & Exposition, Seattle, WA*.

11. **Minichiello, A.**, Marquit, J., Dorward, J. T., & Hailey, C. (2014). Emerging themes in a distance-delivered Calculus I course: Perceptions of collaboration, community and support. *Proceedings of the 121st Annual ASEE Conference & Exposition, Indianapolis, IN*.

10. **Minichiello, A.** & Hailey, C. (2013). Engaging students for success in calculus with online learning forums. *Proceedings of the 43rd Annual Frontiers in Education (FIE) Conference, Oklahoma City, OK*.

9. **Minichiello, A.**, Hailey, C., Legler, N., & Adams, V. D. (2013). Online engineering course design, part I: Toward asynchronous, web-based delivery of a first course in thermodynamics. *Proceedings of the 43rd Annual Frontiers in Education (FIE) Conference, Oklahoma City, OK*.

8. **Minichiello, A.**, McNeill, L., & Hailey, C. (2012). Comparing engineering student use of solution manuals and student/ faculty perceptions of academic dishonesty. *Proceedings of the 119th Annual ASEE Conference & Exposition, San Antonio, TX*.

7. **Minichiello, A.**, Blake, T., Goodridge, W., & Sam, D. (2011). Team teaching that goes the distance: Team instruction for a broadcast introductory engineering course. *Proceedings of the 118th ASEE Annual Conference & Exposition*, Vancouver, BC.
6. Smith, B. L., Humes, Z. E., & **Minichiello, A. L.** (2007). Classification of particles by size using aerodynamic vectoring. *Bull. Am. Phys. Soc.* 52.
5. Smith, B. L., Humes, Z., & **Minichiello, A.** (2006). Aerodynamic vectoring particle sorting. *Proceedings of FEDSM2006 ASME Fluids Engineering Summer Conference*, Paper number 2006-98266.
4. **Minichiello, A.** (2006). COTS in space: Developing an environmental control system for balloon-borne air-cooled electronics. *Proceedings of the 10th InterSociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems (ITHERM)*, San Diego, CA, pp. 1390-1399.
3. Humes, Z. E., Smith, B. L., & **Minichiello, A. L.** (2005). Particle sorting by aerodynamic vectoring. *Bull. Am. Phys. Soc.* 50, p. 251.
2. **Minichiello, A.** & Belady, C. (2002). Thermal design methodology for electronic systems. *Proceedings of the 8th InterSociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems (ITHERM)*, San Diego, CA, pp. 696-704.
1. **Minichiello, A.** (2000). Flow network modeling: A case study in expedient system prototyping. *Proceedings of the 7th Inter Society Conference on Thermal and Thermomechanical Phenomena in Electronic Systems (ITHERM)*, Volume 1, Las Vegas, NV, pp. 70-77. (**Best Paper Award Finalist**)

OTHER PUBLICATIONS (corresponding author indicated by *)

1. Belady*, C., & **Minichiello, A.** (2003, May). Effective thermal design for electronic systems. *Electronics Cooling Magazine*, 9(2), 16-21.

OTHER CREATIVE ENDEAVORS

1. **Minichiello, A.** (2015). Sheri Sheppard: Teaching and Learning Scholarship in Engineering. *Engineering Education Pioneers and Trajectories of Impact Project*. University of Washington: Seattle, WA. Pioneer profile published online at <http://depts.washington.edu/celtweb/pioneers-wp/>

CONFERENCE PRESENTATIONS (student advisees indicated by ❖)

15. Harkness❖, D. & **Minichiello, A.** “Exploring Student Resistance to Online Discussion Forums in Calculus,” 123rd Annual ASEE Conference & Exposition, June 2016, New Orleans, LA.
14. **Minichiello, A.** “Narratives of the Nontraditional: Stories along a Road Less Traveled in Engineering Education,” Twelfth International Congress of Qualitative Inquiry, May 2016, University of Illinois, Champaign-Urbana, IL. **(Presenter)**.
13. **Minichiello, A.**, Hailey, C., Campbell, T., Dorward, J., Harkness❖, D., & Marquit, J. “Understanding Student Participation in a First-year Calculus Online Support Forum,” NSF/AAAS Envisioning the Future of Undergraduate STEM Education: Research and Practice Symposium, April 2016, Washington, D.C. **(Presenter)**.
12. **Minichiello A.** “Nontraditional Student Experience in Engineering Education,” AERA, Annual Meeting, Narrative Special Interest Group Doctoral Student Seminar, April 2016, Washington D.C. **(Presenter)**.
11. **Minichiello, A.**, Marx, S., Hailey, C., & McNeill, L. “Learning Practices of Contemporary Engineering Undergraduates Assigned Online Homework.” 6th Research in Engineering Education Symposium (REES), July 2015, Dublin, Ireland. **(Presenter)**.
10. Farrell, S., Chan, B., & **Minichiello, A.** “Year of Action on Diversity Session: Safe Zone/Positive Space Ally Training 1 (Level 1),” 122nd Annual ASEE Conference & Exposition, June 2015, Seattle, WA. **(Co-Presenter)**.
9. **Minichiello, A.**, Campbell, T., Dorward, J. T., & Marx, S. “Perspectives of Pedagogical Change within a STEM Classroom,” 122nd Annual ASEE Conference & Exposition, June 2015, Seattle, WA. **(Presenter)**.
8. **Minichiello, A.**, Marx, S., Hailey, C., & McNeill, L. “Deconstructing Academic Integrity: Understanding the Use of Solutions by Engineering Undergraduates During Textbook-Based Homework Preparation,” Eleventh International Congress of Qualitative Inquiry, May 2015, University of Illinois, Champaign-Urbana, IL. **(Presenter)**.
7. **Minichiello, A.**, Hailey, C., Legler, N., & Adams, V.D. “Online Engineering Course Design, Part I: Toward Asynchronous, Web-based Delivery of a First Course in Thermodynamics,” 43rd Annual Frontiers in Education Conference, October 2013, Oklahoma City, OK. **(Presenter)**.
6. **Minichiello, A.** and Hailey, C. “Engaging Students for Success in Calculus with Online Learning Forums,” 43rd Annual Frontiers in Education Conference, October 2013, Oklahoma City, OK. **(Presenter)**.

5. **Minichiello A.**, McNeill, L., & Hailey, C. “Comparing Engineering Student Use of Solution Manuals and Student/ Faculty Perceptions of Academic Dishonesty,” 119th ASEE Annual ASEE Conference & Exposition, June 2012, San Antonio, TX. **(Presenter)**.
4. **Minichiello, A.**, Blake, T., Goodridge, W., & Sam, D. “Team Teaching that Goes the Distance: Team Instruction for a Broadcast Introductory Engineering Course,” 118th ASEE Annual Conference & Exposition, June 2011, Vancouver, BC. **(Presenter)**.
3. **Minichiello, A.** & Belady, C. “Thermal Design Methodology for Electronic Systems,” 8th InterSociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems (ITHERM), June 2002, San Diego, CA. **(Presenter)**.
2. **Minichiello, A.** “Flow Network Modeling: A Case Study in Expedient System Prototyping,” 7th Inter Society Conference on Thermal and Thermomechanical Phenomena in Electronic Systems (ITHERM), May 2000, Las Vegas, NV. **(Best Paper Award Finalist)**. **(Presenter)**.
1. **Minichiello, A.**, Glezer, A., Hartley, J. G., & Black, W. Z. “Thermal Management of Sealed Electronic Enclosures using Synthetic Jet Technology,” Pacific Rim/ASME International Intersociety Electronic and Photonic Packaging Conference, June 1997, Kohala Coast, Hawaii.

POSTER PRESENTATIONS (student advisees indicated by ❖)

3. **Minichiello, A.** “Alternative Pathways in Engineering Education: Nontraditional Student Success in a Distance-Delivered Engineering Transfer Program,” 122nd Annual ASEE Conference & Exposition, Graduate Student Division Poster Session, June 2015, Seattle, WA. **(Presenter)**.
2. **Minichiello, A.**, Marquit, J., Dorward, J. T., Hailey, C., Fisher❖, A., & Holt❖, E. “Emerging Themes in a Distance-Delivered Calculus I Course: Perceptions of Collaboration, Community and Support,” 121st Annual ASEE Conference & Exposition, NSF Grantees Poster Session, June 2014, Indianapolis, IN. **(Presenter)**.
1. **Minichiello, A.** “COTS in Space: Developing an Environmental Control System for Balloon-Borne Air-Cooled Electronics”, 10th InterSociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems (ITHERM), June 2006, San Diego, CA. **(Presenter)**.

INVITED PRESENTATIONS and WORKSHOPS

(Student advisees indicated by ❖)

10. **Minichiello, A.** Community in Engineering Education: Past, Present, and Future. Interactive Session, NSF “Engineering Education Pioneers and Trajectories of Impact” program, 123rd Annual ASEE Conference & Exposition, June 2016, New Orleans, LA. **(Small group discussion leader)**.

9. **Minichiello, A.** “Asynchronous Learning Networks: Accessing the Potential of Online Interaction.” Presentation for the Department of Engineering Education, The Ohio State University, February 2016, Columbus, OH. **(Presenter).**
8. **Minichiello, A.,** Campbell, T., & Fisher*, A. “Engaging Students with Technology: Online Learning Forums,” Empowering Teaching Excellence Conference, Office of the Executive Vice President and Provost and the Center for Innovative Design and Instruction, Utah State University, August 13, 2014, Logan UT. **(Co-Presenter).**
7. **Minichiello, A.** “Beyond Active Learning: Traversing the Constructivist Continuum in e-Learning Courses,” Online Teaching Fellows Webinar Series, Utah State University, March 2014, Logan, UT. **(Presenter).**
6. **Minichiello, A.** “Faculty Research Highlight: Exploring the Perceptions of Collaboration, Community and Support in a Distance-Delivered Calculus I Course,” Engineering Education Research Seminar, College of Engineering, Utah State University, March 2014, Logan, UT. **(Presenter).**
5. Legler, A., Leike, J., **Minichiello, A.,** & Radford, C. “FAQ Panel: Assessment and Grading in e-Learning Courses,” Online Teaching Fellows Webinar Series, Utah State University, February 2014, Logan, UT. **(Panelist).**
4. **Minichiello, A.** Engineering Education Pioneer Interviewer and Travel Award to 2014 ASEE annual conference: NSF sponsored program “Engineering Education Pioneers and Trajectories of Impact,” University of Washington, Seattle, WA, January 2014. **(Participant).**
3. Etchberger, L. & **Minichiello, A.** “Starting at the End: Teaching with Learning Outcomes,” workshop given at the Utah State University Regional Campuses annual faculty retreat, August 2011, Logan, UT. **(Co-Presenter).**
2. **Minichiello, A.** Women in Engineering Seminar, College of Engineering, Utah State University, October 2005, 2009, and December 2010, Logan, UT. **(Presenter).**
1. **Minichiello, A.** Selected Participant and Travel Award: “Hands-on Workshop for Three NSF-Funded Innovations in Mechanics Education,” August 2009, Pennsylvania State University, State College, PA. **(Participant).**

PATENTS

5. Clements, B. & **Minichiello, A.** “*Mounting Apparatus for Coupling Control Circuitry to an Air-Moving Device,*” US Patent # 6,924,979, August 2, 2005.
4. Simon, G., V. Srinivas, V., **Minichiello, A.,** Clements, B., & Lucas, C. “*Fan-securing device for use with a heat transfer device,*” US Patent # 6,650,541, November 18, 2003 and US Patent # 6,879,487, April 12, 2005.

3. Clements, B., & **Minichiello, A.** “*Externally Mounted On Line Replaceable Fan Module,*” US Patent # 6,690,576, February 10, 2004.
2. Rubenstein, B. Clements, B., & **Minichiello, A.** “*Mushroom Head Clip Fastener,*” US Patent # 6,662,411, December 16, 2003.
1. Clements, B. & **Minichiello, A.** “*Electro-Magnetic Interference (EMC) Gasket Providing Air Ventilation Holes while Spacing Cards on 0.9 inch Centers,*” (Pending, July 2001).

TEACHING and CURRICULUM DEVELOPMENT EXPERIENCE

Utah State University Logan Campus

ENGR 2030 Engineering Mechanics: Dynamics (3 credits)
 MAE 2300 (also taught as MAE 2400) Thermodynamics I (3 credits)
 MAE 3440 Heat and Mass Transfer (3 credits)

Utah State University Regional Campuses

- *‡ ENGR 1000 Introduction to Engineering Design (2 credits)
- * ENGR 2010 Engineering Mechanics: Statics (3 credits)
- * ENGR 2030 Engineering Mechanics: Dynamics (3 credits)
- * ENGR 2140 Strength of Materials (3 credits)
- ‡ ENGR 2450 Numerical Methods for Engineers (3 credits)
- * MAE 2300 Thermodynamics I (3 credits)

Utah State University Distance Education

*[®] MAE 2300 Thermodynamics I (3 credits)

- ‡ Indicates course with a full laboratory component
- * Indicates course taught via IVC Interactive Video Conferencing
- *[®] Indicates course taught asynchronously online

SUPERVISED GRADUATE RESEARCH ASSISTANTS

Joel Hood, August 2016 - P, Concurrent Master’s (Mechanical Engineering) and Ph.D. student (Engineering Education)

Shawn Derrick Harkness, May 2015- August 2016, Master’s Student (Mathematics and Mathematics Education), *Online Learning Forums in Calculus* (NSF DUE-1245194)

SUPERVISED UNDERGRADUATE RESEACH ASSISTANTS

Abby Fisher, August 2013 - August 2015, Mathematics, *Online Learning Forums in Calculus* (NSF DUE-1245194)

- Undergraduate Student Researcher of the Year, Utah State University, Brigham City Regional Campus, May 2014.

Elise Holt, January 2014 - August 2014, Mathematics Education, *Online Learning Forums in Calculus* (NSF DUE-1245194)

SUPERVISED GRADUATE TEACHING ASSISTANTS

Zeke Villareal, Ph.D. student (Mechanical Engineering), MAE 2300 Thermodynamics I, Fall 2016

SUPERVISED UNDERGRADUATE TEACHING ASSISTANTS

Laura Birkhold, Mechanical Engineering, MAE 2300 Thermodynamics I (online), Spring 2015, Fall 2015

Blake Garff, Mechanical Engineering, MAE 2300 Thermodynamics I (online), Spring 2015

Kyle Jones, Mechanical Engineering, ENGR 2030 Dynamics, Spring 2010

Nathan Inkley, Mechanical Engineering, ENGR 2030 Dynamics, Spring 2010

HONORS and AWARDS

Outstanding Graduate Scholar, Utah State University, College of Engineering, April 2016.

Exemplary Online Course, MAE 2300 Thermodynamics I, Distinction awarded by the Center for Instructional Design and Innovation, Utah State University, November 2015.

Graduate Student International Travel Award, Utah State University Office of Research and Graduate Studies, \$400 to attend the 6th Research in Engineering Education Symposium, Dublin Ireland, 13-15 July, 2015.

Doctoral Student Travel Award, Utah State University, College of Engineering, \$250 to attend the 6th Research in Engineering Education Symposium, Dublin Ireland, 13-15 July, 2015.

Research Mentor of the Year. Utah State University Regional Campuses, August 2014.

Undergraduate Research Mentor of the Year. Utah State University, Brigham City Regional Campus, May 2014.

Outstanding Graduate Student of the Year. Utah State University, College of Engineering, Department of Engineering Education, April 2014.

Online Teaching Fellow. For demonstrating “outstanding skills and commitment to excellence” in online teaching, Utah State University, September 2013-September 2014.

Small Business Commerce Association Best of Business Award. CastleRock Engineering Inc., Logan, Utah, 2009.

NASA Langley Group Achievement Award. “For exceptional achievements in the successful development and flight of the Far-Infrared Spectroscopy of the Troposphere Experiment,” 2006.

Space Dynamics Laboratory Outstanding Performance Award. “In recognition of outstanding performance and innovation in solving our Navy customer’s reliability and capability problems with the Common Data Link hardware,” 2005.

National Science Foundation Graduate Research Fellowship. 1994-1997.

Distinguished Honor Graduate. (1st in class), US Army Aviation Officer’s Advanced Course, 1993.

Commandant’s List Graduate. (Top 10% of class) US Army Aviation Rotary Wing Flight School, 1988.

Graduate. U.S. Army Airborne and Air Assault Schools, 1987.

First Female Graduate. US Army JFK Special Warfare Center High Risk SERE School, 1987.

Distinguished Graduate. (Top 5% of graduating class, 14th of 1032), United States Military Academy (USMA), 1987.

PROFESSIONAL SERVICE

Division Chair. Engineering Ethics Division, American Society of Engineering Education (ASEE), June 2016 - June 2017.

Program Chair. Engineering Ethics Division, American Society of Engineering Education (ASEE) June 2015 - June 2016.

Secretary/Treasurer. Engineering Ethics Division, American Society of Engineering Education (ASEE), June 2014- June 2015.

Student Member. American Society of Engineering Education (ASEE) National Outstanding Teaching Award Committee, June 2015 - June 2018.

Journal Reviewer. *Current Issues in Education*, 2013-P.

ABET Program Evaluator. Engineering Accreditation Committee (EAC) on behalf of the American Society of Mechanical Engineering (ASME), November 2010-P.

Conference-Related Service

Graduate Student Reviewer. Online Teaching and Learning SIG. American Educational Research Association (AERA) Annual Meeting, April 2017.

Peer Reviewer. Frontiers in Education Conference (FIE), Erie, PA, October, 2016.

Peer Reviewer. Mathematics Division, American Society of Engineering Education Conference (ASEE), New Orleans, LA, June 2016.

Peer Reviewer. Engineering Ethics Division and Mathematics Division, American Society of Engineering Education Conference (ASEE), Seattle, WA, June 2015.

Peer Reviewer. Frontiers in Education (FIE) Conference, Madrid, Spain, October, 2014.

Peer Reviewer. Engineering Ethics Division, American Society of Engineering Education Conference (ASEE), Indianapolis, IN, June 2014.

Session Moderator. Women in Engineering Division, American Society of Engineering Education Conference (ASEE), Indianapolis, IN, June 2014.

Peer Reviewer. Frontiers in Education (FIE) Conference, Oklahoma City, OK, October, 2013.

Session Moderator. Mechanics Division, American Society of Engineering Education Conference (ASEE), San Antonio, TX, June 2012.

Professional Affiliations

- Member, American Educational Research Association (AERA), 2014-P
- Member, American Society of Engineering Education (ASEE), 2009-P
- Member, American Society of Mechanical Engineers (ASME), 1998-P
- Member, Institute of Electrical and Electronics Engineers (IEEE), 1998-2013

INSTITUTIONAL SERVICE

Utah State University

Campus Ally. USU Allies on Campus, June 2015-P.

Online Teaching Fellow, September 2013- September 2014.

Utah State University, Regional Campuses and Distance Education (RCDE)

Member. Promotion committee for Dr. Jessica Habashi, Department of Biology, Lecturer to Senior Lecturer, October 2013-April 2014, Brigham City, UT.

Member. Promotion committee for Ms. Nikole Eyre, Department of English, Lecturer to Senior Lecturer, February 2012- April 2013, Brigham City, UT.

Member. USU Regional Campus Distance Education (RCDE) Teaching Excellence Committee, Standing Committee to plan annual RCDE faculty retreats (Spring and Fall), May 2010-March 2012, Logan, UT.

Guest Speaker. Brigham City Kiwanis Club “The Future of Engineering and the USU Associates in Pre-Engineering (APE) Program”, March 30, 2011, Brigham City, UT.

Member. Brigham City Peer Evaluation of Teaching Ad Hoc Committee, March 2010-March 2011, Brigham City, UT.

Faculty Co-Advisor. USU Regional Campus Student Engineering Club (FATE), January 2009 - April 2012, Brigham City, UT.

Utah State University, College of Engineering, Logan Campus

Member. Search committee for Associate Dean/EED Department Head, September 2011-May 2012, Logan, UT.

Guest Lecturer. Dynamics Review for the Fundamentals of Engineering (FE) Exam, Utah State University, October 2010, Logan, UT.

Panelist. USU Engineering State Women's Panel, June 2009, 2010, Logan, UT.