**SUSAN M. LORD**

**Fellow, IEEE and ASEE**

Department of Integrated Engineering, University of San Diego

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**RESEARCH INTERESTS**

Engineering Education; Student pathways in engineering; Sociotechnical nature of engineering; Culturally sustaining Pedagogies; Lifelong Learning; Student veterans in engineering; Institutional change in engineering education

**TEACHING**  **INTERESTS**

Inclusive Teaching; Materials Science; Electronics; Optoelectronic Materials and Devices; First-year engineering courses; Community Engagement; Cooperative Learning.

**EDUCATION**

Ph.D. Electrical Engineering *June 1993*

 Solid State Laboratory, Stanford University, Stanford, California

Advisor: Dr. James S. Harris, Jr.

Ph.D. THESIS *Growth of High In content InGaAs on GaAs for Optical Applications*

M.S. Electrical Engineering *June 1988*

 Stanford University, Stanford, California

B.S. with Distinction, Electrical Engineering & Materials Science & Engineering *May 1987*

 Cornell University, Ithaca, New York

**WORK EXPERIENCE**

*Professor and Chair of Integrated Engineering January 2017 – present*

*Chair of Electrical Engineering September 2013 – December 2016*

*Coordinator of Electrical Engineering January 2006 – August 2013*

*Professor of Electrical Engineering September 2007 – present*

*Interim Director of Engineering Programs April – June 2005, September 2005 – January 2006*

*Associate Professor of Electrical Engineering September 1999 – August 2007*

*Assistant Professor of Electrical Engineering August 1997 – August 1999*

Shiley-Marcos School of Engineering

University of San Diego, San Diego, California

 Courses Taught:

 *Lecture*: Engineering Materials Science, User-Centered Design

 *Lecture & Laboratory:* Introduction to Engineering,

 Introduction to Engineering Design and Practice

 An Integrated Approach to Electrical Engineering

 Electrical Engineering Senior Design

 Optoelectronic Materials & Devices, Circuits, Electronics I, Electronics II

 *Independent Study*

 Mou Riiny “Solar Power in South Sudan” *Summer 2020*

 Eduardo Ortega “Utilizing an Integrated Background for Sociotechnical Research”

 *Fall 2019-Spring 2020*

 Michael (Trey) Stead “Development of Serial Communication Lab” *Spring 2020*

 Ian Nauhaus “Lab Skills Test” *F all 2001-Spring 2002*

*Visiting Professor January – August 2012*

Southeast University, Nanjing, China

 Taught Electronics for sophomores in School of Electronic Sciences and Engineering, School of Information Sciences and Engineering and Honors College

 Lecture for First-Year students in School of Electronic Sciences and Engineering

*ONR-ASEE Senior Summer Faculty Fellow*

SPAWAR Systems Center, San Diego, California

 Applied Research Technology and Sensors Branch (Code 2373) *Summer 2005*

 RF Photonics Branch (Code 2825)  *Summer 2004*

*ONR-ASEE Sabbatical Leave Fellow*

SPAWAR Systems Center, San Diego, California

 RF Photonics Branch (Code 2825) *September 2003 – June 2004*

*Assistant Professor of Electrical Engineering August 1993 – August 1997*

Bucknell University, Lewisburg, Pennsylvania

 Courses Taught:

 *Lecture and Laboratory:* Electronics I, Electronics II, Optoelectronic Materials & Devices

 *Lecture*: Project Planning and Engineering Design *Laboratory*: Linear Systems

 *Exploring Engineering (first-year class)*: EE Laboratory and Presentation Evaluations

*NASA-ASEE Summer Faculty Fellow*

NASA Goddard Space Flight Center, Greenbelt, Maryland

 Optics Branch, Engineering Division *Summer 1995*

 Photonics Department, Engineering Division *Summer 1994*

**CONSULTING**

National Effective Teaching Institute (NETI) Director *June 2015-present*

* co-facilitator of annual workshop for over 50 engineering educators
* NETI 1 offered twice per year, NETI 2 offered once per year, NETI 3 online offered starting 2020 as needed

California Math and Science Partnership (CaMSP) “Get SET (Science, Engineering, and Technology)” Awarded to San Marcos Unified School District *Cohort 11 2015-2016*

* Developed and presented materials on engineering integrated into Next Generation Science Standards (NGSS) for workshops for middle and high school science teachers in June 2015 and August 2016

California Math and Science Partnership (CaMSP) “Get SET (Science, Engineering, and Technology)” Awarded to Sweetwater Unified School District *Cohort 12 2016-2017*

* Developed and presented materials on engineering integrated into Next Generation Science Standards (NGSS) for workshop for middle and high school science teachers in June 2016
* Advice on integration of engineering for earth science middle school teachers

Bucknell University Electrical Engineering Department External Reviewer *Fall 2011*

National Effective Teaching Institute (NETI) Fellow *June 2011*

 selected from among the nation's rising leaders in engineering education

 co-facilitator of workshop for over 50 engineering educators

 developed and presented first-ever material on Gender and Engineering Education

UC COSMOS (science & engineering program for high school students) Reviewer *Summer 2010*

**ADVISORY BOARD MEMBERHIPS**

**NSF 2013630 DUE: Transforming STEM Education Using an Asset-Based Ecosystem Model. PI: G. Menezes, California State LA University, Los Angeles, CA *2020 - present***

**NSF 1953586 HRD Collaborative Research: Developing Engineering Instructional Faculty as Leaders of Educational Change at Hispanic- Serving Institutions. PI: A. Strong, Florida International University, Miami, FL *2020 - present***

**NSF** 1929478 **Characterizing Engineering Student Mental Health and its Role in Predicting Engineering Attrition, PI: A. Danowitz, Cal Poly State University,** San Luis Obispo, CA

 *2019 – present*

**NSF 1653140 CAREER: Advocating for Engineering through Hidden Curricula: A Multi-Institutional Mixed Method Approach, PI: I. Villaneuva, initially Utah State University,** Logan, UT now University of Florida, Gainesville, FL *2017 – present*

**NSF 1730262 IUSE/PFE: Revolutionizing Engineering Departments (RED): Transforming for inclusion: fostering belonging and uniqueness in engineering education and practice, PI: S. Margulies, Chair, Coutler Department of Bioengineering at Georgia Institute of Technology (GA Tech) and Emory,** Atlanta, GA *2016 – present*

NSF-EEC-**1239830** EAGER: Modeling Social Complexity in Engineering Education (MSCEE), PI: B. Cheng, SRI International, Menlo Park, CA *2012-2014*

NSF-EEC-1037724 Collaborative Research: Use and Knowledge of Research-Based Instructional Strategies (RBIS) in Engineering Science Courses, PI: J. Froyd, Texas A&M University, College Station, TX *2011-2012*

**EXTERNALLY FUNDED RESEARCH GRANTS**

1. **“Reimagining Energy: Exploring Inclusive Practices for Teaching Energy Concepts to Undergraduate Engineering Majors,”** National Science Foundation IUSE Program, NSF 1836504, $255,592, co-investigator with G. Hoople (PI), D. Chen, and J. A. Mejia, October 2018 – September 2021.
2. “Proposing a Revolution – Lessons Learned in Designing RED Projects,” National Science Foundation Engineering Education and Centers (EEC) Program, NSF 1654315, $45,037, co-investigator with M. Camacho (PI), September 2016 – February 2017.
3. “Expanding Access to and Participation in the Multiple Institution Database for Investigating Engineering Longitudinal Development,” National Science Foundation Engineering Education and Centers (EEC) Program, NSF 1545667, $4,010,978, co-investigator with M. Ohland (PI), M. Orr, R. Long, and C. Brawner, March 2016 – February 2021.
4. “IUSE/PFE RED: Developing Changemaking Engineers,” National Science Foundation Engineering Education and Centers Revolutionizing Engineering Departments (RED) Program, NSF 1519453, $1,954,532, co-investigator with C. Roberts (PI), R. Olson, M. Camacho, and M. Huang, June 2015 – May 2020.
5. “Collaborative Research: Military Veteran Students’ Pathways in Engineering Education,” National Science Foundation Research in Engineering Education (REE) Program, NSF 1428512, $472,627 for USD, PI, co-investigators J. Main, M. Camacho, C. Mobley, September 2014 – August 2018 with extension to August 2020. Supplement of $94,508 with extension to February 28, 2021.
6. "Advancing Female Faculty: Institutional climate, Retention and Mentoring (AFFIRM)," National Science Foundation ADVANCE-PAID program, NSF 1106890, $599,414, Co-investigator with M. Boyd (PI), M. M. Camacho, P. Myers, and S. Sgoutas-Emch, August 15, 2011 – July 31, 2016.
7. "Understanding Diverse Pathways: Disciplinary Trajectories of Engineering Students," National Science Foundation Research in Engineering Education (REE) Program, NSF 1129383, $198,233, PI, co-investigator M. Ohland, September 1, 2011 - August 31, 2013. Supplement (1332363) of $39,219 with extension to December 31, 2016.
8. “Connecting Veterans to Personalized Education at the University of San Diego,” National Science Foundation Engineering Education and Centers (ECC) Program, NSF 0948070, $184,984, co-investigator with K. Kramer (PI) and R. Olson, September 2009 – December 2011.
9. “Collaborative Research: Role of faculty in supporting lifelong learning: An investigation of self-directed learning environments in engineering undergraduate classrooms,” National Science Foundation ECC Innovations in Engineering Education, Curriculum, and Infrastructure (IEECI) Program, NSF 0835901, $78,880 for USD (PI), co-investigator with M. Prince, C. Stefanou, K. Nottis, J. Chen, and J. Stolk, September 2008 – August 2012.
10. “A National Model for Engineering Mathematics Education,” National Science Foundation DUE CCLI Phase 3 Program, NSF 0817332, $2,000,000 overall, co-investigator with R. Olson of USD for $99,995, August 2008 – July 2012.
11. “Bridging the gap between local community colleges and engineering at the University of San Diego” National Science Foundation DUE S-STEM Program, DUE 0806864, $413,848.00, co-investigator with C. Bonilla (PI), M. McGarry, and M. Huang of USD, July 2008 – June 2013.
12. “Collaborative Research: GSE/RES The Effect of Climate and Pedagogy on Persistence: A Longitudinal Study of Women in Undergraduate Engineering Programs” National Science Foundation HRD Research on Gender in Science and Engineering (GSE) Program, HRD 0734085, $210,686, PI, co-investigator with M. M. Camacho, September 2007-August 2010.

In collaboration with M. W. Ohland and M. H. Wasburn, Purdue University, NSF 0734062, $289,279. Supplement of $22,400 (HRD 1032197) with extension to January 31, 2012.

1. “Pilot Study Investigating Engineering Faculty Beliefs about Effective Teaching,” National Science Foundation via the *Rigorous Research in Engineering Education (RREE): Creating a Community of Practice* program, DUE 0341127, 2006, $2000.
2. "Laboratory for Engineering Design and Continuous Improvement". National Science Foundation Instrumentation and Laboratory Improvement (ILI) Program DUE 9850987 1998 - 2000, $53,261, co-investigator with J. A. Macedo (PI) and R. T. Olson of USD.
3. "Optoelectronic Materials and Device Characterization" National Science Foundation CAREER Program, ECS-9501703 transferred to ECS-9796220, 1995 - 2000, $200,000.
4. "An Optoelectronics Laboratory for Undergraduates" National Science Foundation Instrumentation and Laboratory Improvement (ILI) Program, DUE-9552260 transferred to DUE-9796201, 1995-1998, $70,000.
5. “Planetary Miniature Lidar for Water Vapor, Aerosol and Temperature Profiles from Mars”, NASA Planetary Instrument Definition and Development Program, NRA-95-12-SL-048, 1996-1998, $289,000, co-investigator with J. B. Abshire, J. A. R. Rall, J. D. Spinhirne, and M. A. Krainak of NASA Goddard Space Flight Center and R. M. Hardesty of NOAA.

**USD INTERNALLY FUNDED GRANTS**

“Engineering Exchange for Social Justice (ExSJ)”, USD Institutional Effectiveness and Strategic Initiatives (IESI) Award, 7/18-6/20, $90,000, with O. Dalymple, C. Baillie, J. Mejia, E. Lurkis, G. Hoople.

**HONORS and AWARDS**

USD Mortar Board Faculty Appreciation Award “in recognition of outstanding Scholarship, Leadership, and Service, and for inspiriting and motiving students” selected by Sophia Austin, Student *2020*

ASEE Materials Division Best Paper Award for “‘The Final Straw’: Integrating complexity into design decisions within a Materials Science course” *2020*

ASEE William Elgin Wickenden Award for Best Paper published in the *Journal of Engineering Education* in 2019 *2020*

ASEE ECE Division “Distinguished ECE Educator” Award *2019*

ASEE Materials Division Best Paper Award for “Trash Teachings: How a materials science module series about waste can empower engineering students to be more sociotechnically responsible” *2019*

ASEE Committee on Diversity, Equity, and Inclusion (CDEI) 2019 Best Diversity Paper Finalist

 *“Institutional Agents' Roles in Serving Student Veterans and Implications for Student Veterans in Engineering”*  *2019*

IEEE Undergraduate Teaching Award for *“contributions to the development of more inclusive and innovative undergraduate teaching in electrical and computer engineering”* *2018*

USD 12th Annual Outstanding Preceptor Award for *“superior performance in teaching and advising”*  *2017*

IEEE Education Society William E. Sayle II Achievement in Education Award for *“contributions to educational pedagogy, diversity, and leadership in engineering education.”* *2016*

IEEE Education Society 2015 Best Transactions on Education Theodore E. Batchman Best Paper Award *2016*

Electrical and Computer Engineering Department Heads Association (ECEDHA) Diversity Award *2016*

IEEE Fellow for *“professional leadership and contributions to engineering education”* *2015*

Helen Plants Award for Best Nontraditional Session at 2014 Frontiers in Education Conference for “Agents for STEM Change – Articulating the Goals of our Community” *2015*

International Society for Engineering Education (IGIP) Nikola Tesla Chain Award for “outstanding achievements in the field of Engineering Pedagogy” *2013*

ASEE Fellow *2013*

Betty Vetter Award for Research from Women in Engineering ProActive Network (WEPAN) for *“exceptional research committed to understanding the intersectionality of race and gender”* *2013*

ASEE ECE Division Meritorious Service Award *2013*

IEEE Education Society Edwin C. Jones, Jr. Meritorious Service Award for *“contributions to engineering education and the Education Society through service as President, Ad Com Member, General and Program Chairs for the Frontiers in Education Conference, Strategic Planning, Editorial Board Member, and the All Society Review Panel.”* *2012*

IEEE Education Society Best Paper Award for Best Paper published in the *IEEE Transactions on Education in 2011* *2012*

ASEE William Elgin Wickenden Award for Best Paper published in the *Journal of Engineering Education* in 2011 *2012*

IEEE Education Society Distinguished Member Award for *“outstanding service to the Education Society as an officer and Society President, for service to IEEE and the profession, and for significant contributions in electrical and computer engineering education”* *2011*

Ronald J. Schmitz Meritorious Service Award for *“outstanding and continued service to engineering education through contributions to the Frontiers in Education Conference”* *2011*

Outstanding Engineering Educator Award from San Diego Engineering Council *2010*

USD University Professor (Project Based) *2007-2008*

ASEE New Engineering Educators Division Best Paper Award *2006*

Helen Plants Award for Best Nontraditional Session at 2004 Frontiers in Education Conference for “Feminist Frontiers” *2004*

USD Faculty Woman of Impact *2004*

USD Innovations in Experiential Education Award for introducing service-learning in *2004*

 Engineering classes at USD

Engineering Education Project Achievement Award from the San Diego Engineering Council for "*developing an innovative hands-on educational methodology that inspires first-year engineering and high school students*" with J. Macedo and R. Olson *2000*

"Enabling Effective Engineering Teams: A Program for Teaching Interaction Skills," with E. Seat selected as one of the ten best papers at the *Frontiers in Education Conference* *1998*

Eta Kappa Nu Outstanding Young Electrical Engineer Honorable Mention for *“outstanding technical contributions to the field of optoelectronics and dedication to education and promoting the engineering profession for minorities and women.” 1995*

*Frontiers in Education Conference* Ben Dasher Award Honorable Mention *1994 and 2006*

AT&T Bell Laboratories Graduate Research Program for Women (GRPW) *1987-1993*

 Full funding for doctoral program

NSF Graduate Research Fellowship (declined) *1987*

**PROFESSIONAL SOCIETIES AND ACTIVITIES**

*Memberships:*

* IEEE (Fellow)
* American Society for Engineering Education (ASEE) (Fellow)
* Society of Women Engineers (SWE) (Senior Member)
* Eta Kappa Nu (EE Honor Society) & Tau Beta Pi (Engineering Honor Society)
* American Association of University Women (AAUW)

IEEE

 Fellows Adhoc Committee on Improving Process *2019-2020*

IEEE Technical Activities Board (TAB)

 Society Review Committee (SRC) *2011-2013*

IEEE Education Society (EdSoc)

 Society Fellows Committee Chair *2019 - present*

 Awards Committee Member *2013 – present*

 IEEE Education Society William E. Sayle II Award for Achievement in Education Selection

 Committee Member *2020*

 Administrative Committee Elected Member *2002 – 2007*

 Vice President *2007-2008*

 President *2009-2010*

 Jr. Past President *2011-2012*

Sr. Past President *2013-2014*

IEEE Educational Activities Board (EAB)

 Curricula and Pedagogy Committee (CPC) *2013-2014*

 Early Career Faculty Development (ECFD) Project Team *2013*

American Society for Engineering Education (ASEE)

 Fellow *2013*

 Fellow Member Committee *2013-2016*

 Education & Research Methods (ERM) Division

 Board of Directors *1998 – 2001, 2012-2014*

ASEE/IEEE *Frontiers in Education (FIE) Conference*

 FIE Steering Committee Member *2006-2012*

 *Frontiers in Education Conference* Awards Chair  *2007, 2008,* *2010*

 2006 *Frontiers in Education Conference* General Co-Chair *2003-2006*

 2005 *Frontiers in Education Conference* Program Co-Chair *2003-2005*

 Dasher Committee (Best Paper) *1999, 2000, 2001, 2011*

IEEE *Global Engineering Education Conference* (EDUCON) International Advisory Board Member  *2010-present*

IEEE *International Conference on Teaching, Assessment and Learning for Engineering* 2012 (TALE2012) International Advisory Board Member and Reviewer *2012*

IEEE International Conference on E-Learning in Industrial Electronics (ICELIE 2012)

 Technical Program Co-Chair *2012*

Electrical and Computer Engineering Department Heads Association (ECEDHA)

 Annual Meeting Program Committee *2015, 2016, 2017*

Local Arrangements Committee *2016*

Editorial Board, ECE Source *2016-2018*

Diversity Committee *2016-2018*

iREDEFINE (NSF-funded workshop)Committee *2016-2018*

* collaborated on proposal to NSF to fund a workshop for women and underrepresented minorities to attend a special workshop held in conjunction with ECEDHA to capitalize on opportunity to meet many EE department heads
* presenter at this workshop in March 2017 and 2018

**Editorial Activities**

Associate Editor, *Journal of Engineering Education 2016- present*

Associate Editor, *IEEE Transactions on Education 2010- 2020*

*International Journal of Engineering Education*

 Editorial Board Member *2010 - present*

 Guest Co-Editor of Special Issue on “Applications of Engineering Education Research” *2010*

Reviewer, ASEE Annual Conference, Frontiers in Education conference, EDUCON *2010 - present*

**Other**

**NSF-Funded Workshop on  “Catalyzing a Research Agenda for Enhancing Engineering Education through Institutional Collaborations,” (NSF #1654206)**  *2016 - 2018*

* Organizing Committee Member
* collaborated on initial discussions, proposal to NSF, and workshop agenda

Site Visitor, NSF CIAN (Center for Integrated Access Networks) Engineering Research Center (ERC) *May 2013*

PhD Dissertation Committee Member for Kai-Pan Mark, “Exploring the Antecedents of Information Systems Habit Formation in Learning Systems: Roles of Personalized IT Applications and Social Effects,” Information Sciences, City College of Hong Kong *2012*

Participant in NSF-Funded “Conducting Rigorous Research in Engineering Education (RREE): Creating a Community of Practice” Workshop. Selected as one of 20 participants. *2005*

**SERVICE ACTIVITIES**

*Community*

California Science Project, Advisory Board Member *2013 – present*

 *Representing private schools throughout California*

“Exploring Electrical Engineering” workshop in San Diego

 *Expanding Your Horizons* for middle school girls *2003-2005, 2008 - 2011, 2013, 2015*

Greater San Diego Science and Engineering Fair Judge *2004*

*Shiley-Marcos School of Engineering*

Member, Diversity, Equity and Inclusion Committee *2020 - present*

Member, Faculty Search Committee *2017 - 2018*

Member, Advancement, Reappointment, Retention and Tenure (ARRT) Committee *2016-present*

Member, Undergraduate Curriculum Committee (UECC) *Fall 2016- Spring 2020*

Chair, General Engineering (GE) Task Force *Fall 2016*

Chair of Faculty Hiring Committees for GE *Spring 2017*

Member of Faculty Hiring Committees for GE *Spring 2016*

Member of Faculty Hiring Committees for ME & ISyE *Spring 2014*

Shiley-Marcos School of Engineering Dean’s Search Committee *Fall 2012-Spring 2013*

Advisor to the USD Student Branch of the IEEE *2008 - 2011*

Advisor to the USD Society of Women Engineers (SWE) Chapter *1997 - 2006*

*University of San Diego*

Aspiring White Anti-Racist Educators (AWARE) *Fall 2020 – present*

Fall 2020 Academic Affairs Implementation Task Force (F20) *May 2020 – August 2020*

 Health and Safety Subcommittee

 Ad Hoc Committee: Classroom Management

 Ad Hoc Committee: Public Safety and Classroom

Reader at Commencement *2005 – present*

Advisor to the USD Mortar Board (national honor society) Chapter *2000 – present*

USD Senate Ad hoc Committee on Gender, Sexual Harassment, and Equality (G-SHE) subcommittee on Gender Equality *Spring 2018 – May 2019*

USD Liaison for Computer Science Academic Review Site Visit *2019*

University Professor Oversight Committee *2016-2018*

AFFIRM Leadership Team (NSF ADVANCE) *2011 - 2017*

Catholic Intellectual Tradition in the Core Curriculum Task Force

 appointed by Provost *Fall 2012*

Center for Educational Excellence (CEE) Advisory Board *2013- 2018*

Center for Educational Excellence (CEE) Experiential Education Award Selection Committee

 *2014- 2018*

Office of Sponsored Programs (OSP) Research Council Subcommittee *2014 – 2018*

Research Development Officer Search Committee Member *2015*

USD Core Planning Committee *Fall 2012-Spring 2013, Fall 2013-Spring 2014*

Clusters Task Force *Fall 2012*

Integration subcommittee *Fall 2013*

Area Task Force on Diversity, Inclusion and Social Justice (DISJ) *Fall 2015-Springs 2017*

* Helped develop Learning Outcomes for this area
* Includes reviews and approvals of all USD courses for DISJ flags

Core Curriculum Committee *Fall 2017 – Spring 2020*

**PUBLICATIONS**

**BOOK**

Michelle Madsen Camacho and Susan M. Lord, *The Borderlands of Education: Latinas in Engineering*, Lexington Books, Lanham, MD, 2013. ISBN 978-0739175583

*“groundbreaking work…that will challenge your assumptions about women and minorities in engineering”. (D. Riley, Smith College now Purdue University)*

*“This book should be high on the must-read list for engineering educators at all levels, from first-year faculty to deans.” (S. Walden, University of Oklahoma)*

**BOOK CHAPTERS CONTRIBUTED**

Susan M. Lord, “Service-Learning in Engineering at the University of San Diego: Thoughts on First Implementation,” in *Projects that Matter: Concepts and Models for Service-Learning in Engineering* (AAHE’s Series in Service-Learning in the Disciplines), Edmund Tsang, editor, (American Association for Higher Education, Washington, DC), 2000.

Susan M. Lord and John C. Chen, “Curriculum Design in the Middle Years,” in *Cambridge Handbook of Engineering Education Research (CHEER)*, Barbara Olds and Aditya Johri, editors, (Cambridge University Press, New York, NY), 2014. ISBN 978-1-107-01410-7

# ARTICLES PUBLISHED IN REFEREED JOURNALS

1. B. Pezeshki, R. B. Apte, S. M. Lord, and J. S. Harris, Jr., "Quantum Well Modulators for Optical Beam Steering Applications," *IEEE Photonics Technology Letters* **3**, 790 (1991).
2. B. Pezeshki, S. M. Lord, and J. S. Harris, Jr., "Electroabsorptive Modulators in InGaAs/AlGaAs," *Applied Physics Letters* **59**, 888 (1991).
3. B. Pezeshki, S. M. Lord, T. B. Boykin, B. L. Shoop, and J. S. Harris, Jr., "AlGaAs/AlAs QW Modulator for 6328 Å Operation," *Electronics Letters* **27**, 1971 (1991).
4. S. M. Lord, G. Roos, B. Pezeshki, J. S. Harris, Jr., and N. MaM. Johnson, "Enhancement of Photoluminescence Intensity in InGaAs/AlxGa1-xAs Quantum Wells by Hydrogenation," *Applied Physics Letters* **60**, 2276 (1992).
5. B. Pezeshki, S. M. Lord, T. B. Boykin, and J. S. Harris, Jr., "GaAs/AlAs Quantum Wells for Electroabsorption Modulators," *Applied Physics Letters* **60**, 2779 (1992).
6. B. Pezeshki, D. Liu, S. M. Lord, and J. S. Harris, Jr., "Visible Wavelength Fabry-Perot Reflection Modulator Using Indirect-Gap AlGaAs/AlAs," *Electronics Letters* **28**, 1170 (1992).
7. S. M. Lord, B. Pezeshki, and J. S. Harris, Jr., "Investigation of High In Content InGaAs Quantum Wells Grown on GaAs by Molecular Beam Epitaxy," *Electronics Letters* **28**, 1193 (1992).
8. K. B. Bacher, B. Pezeshki, S. M. Lord, and J. S. Harris, Jr., "Molecular Beam Epitaxy Growth of Vertical Optical Cavity Structures with *in situ* Corrections," *Applied Physics Letters* **61**, 1387 (1992).
9. S. M. Lord, G. Roos, J. S. Harris, Jr., and N. M. Johnson, "Hydrogen Passivation of Nonradiative Defects in InGaAs/AlxGa1-xAs Quantum Wells," *Journal of Applied Physics* **73**, 740 (1993).
10. S. M. Lord, B. Pezeshki, S. D. Kim, and J. S. Harris, Jr., "1.3 µm Exciton Resonances in InGaAs Quantum Wells Grown by Molecular Beam Epitaxy Using a Slowly Graded Buffer Layer," *Journal of Crystal Growth* **127**, 759 (1993). [special issue of journal including *Proceedings of Seventh International Conference on Molecular Beam Epitaxy*]
11. Daxin Liu, B. Pezeshki, S. M. Lord, and J. S. Harris, Jr., "Phase Characteristics of Reflection Electroabsorption Modulators," *Applied Physics Letters* **62**, 2158 (1993).
12. H. Chui, S. M. Lord, E. Martinet, M. M. Fejer, and J. S. Harris, Jr., “Intersubband Transitions in High Indium Content InGaAs/AlGaAs Quantum Wells,” *Applied Physics Letters* **63**, 364 (1993).
13. J. A. Trezza, M. C. Larson, S. M. Lord, and J. S. Harris, Jr., “Large, Low Voltage Absorption Changes and Absorption Bistability in GaAs/AlGaAs/InGaAs Asymmetric Coupled Quantum Wells,” *Journal of Applied Physics* **74**, 1972 (1993).
14. J. A. Trezza, B. Pezeshki, M. C. Larson, S. M. Lord, and J. S. Harris, Jr., "High Contrast Reflection Electro-absorption Modulators with Zero Phase Change," *Applied Physics Letters* **63**, 452 (1993).
15. S. M. Lord, J. A. Trezza, M. C. Larson, B. Pezeshki, and J. S. Harris, Jr., “1.3 µm Electroabsorption Reflection Modulators on GaAs,” *Applied Physics Letters* **63**, 806 (1993).
16. J. A. Trezza, M. C. Larson, S. M. Lord, and J. S. Harris, Jr., "Low-voltage, low-chirp, absorptively bistable transmission modulators using type-IIA and type-IIB In0.3Ga0.7As/Al0.33Ga0.67/As/In0.15Ga0.85As asymmetric coupled quantum wells," *Journal of Applied Physics* **74**, 6495 (1993).
17. S. M. Lord, B. Pezeshki, and J. S. Harris, Jr., "Electroabsorption Modulators Operating at 1.3 µm on GaAs Substrates," *Optical and Quantum Electronics* **25**, S953 (1993).
18. M. Goorsky, J. W. Eldredge#, S. M. Lord, and J. S. Harris, "Structural Properties of Highly Mismatched InGaAs-Based Devices Grown by MBE on GaAs Substrates," *Journal of Vacuum Science and Technology* *B* **12**, 1034 (1994). [special issue of journal including the *Proceedings of the North American MBE Conference*.]
19. S. M. Lord, G. W. Switzer#, and M. A. Krainak, “Using Fiber Gratings to Stabilize Laser Diode Wavelength Under Modulation for Atmospheric Lidar Transmitters” *Electronics Letters* **32**, 561 (1996).
20. Sam-Dong Kim, S. M. Lord, and J. S. Harris, Jr., “Strain relaxation in compositionally graded epitaxial layers,” *Journal of Vacuum Science & Technology B* (Microelectronics and Nanometer Structures) **14**, 642 (1996).
21. R. Kochhar#, W.-Y. Hwang#, M. Micovic#, T. S. Mayer, D. L. Miller, and S. M. Lord, “Molecular Beam Epitaxy of Highly Mismatched In0.73Ga0.27As on InP for Near Infrared Photodetectors,” *Journal of Vacuum Science and Technology B* **15**, 316 (1997).
22. Y. Ren[[1]](#footnote-1)#, M. Micovic#, W. Z. Cai#, S. Mohney, S. M. Lord, D. L. Miller, and T. S. Mayer, "Effect of in-situ annealing on highly-mismatched In0.75Ga0.25As on InP grown using molecular beam epitaxy," *Journal of Electronic Materials,* **28**, 887 (1999).
23. Elaine Seat and Susan M. Lord, "Enabling Effective Engineering Teams: A Program for Teaching Interaction Skills," *Journal of Engineering Education*, **88**, 385 (1999).
24. S. M. Lord, "Optoelectronics Experiments for First Year Engineering Students," *IEEE Transactions on Education,* **44**(1), 16-23 (2001).
25. Y. Wu#, X. Xie#, J. H. Hodiak, S. M. Lord, and P. K. L. Yu, “Multi-octave high dynamic range up-conversion optical-heterodyned microwave photonic link,” *IEEE Photonics Technology Letters*, **16**, 2332 (2004).
26. David M. Malicky, Susan M. Lord, and Ming Z. Huang “A Design Methodology for Choosing an Optimal Pedagogy: the Pedagogy Decision Matrix,” *International Journal of Engineering Education*, **23,** 325-337 **(**2007).
27. Susan M. Lord and Leonard A. Perry, “Tablet PC – Is it Worth it? A Preliminary comparison of several approaches to using Tablet PC in an engineering classroom,” *ASEE Computers in Education Journal*, **17**, 66 (2007).
28. Susan M. Lord, “Integrating Effective ‘Writing to Communicate’ Experiences in Engineering Courses: Guidelines and Examples,**”** *International Journal of Engineering Education,* **25**(1), 196-204 (2009).
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33. Catalina Martinez-Mediano and Susan M. Lord, “Lifelong Learning Competencies Program for Engineers,” *International Journal of Engineering Education*, **28**(1), 130-143 (2012).
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5. J. B. Main, M. M. Camacho, C. Mobley, C. E. Brawner, S. M. Lord, and H. Kesim\*, “Technically and Tactically Proficient: How Military Leadership Training and Experiences are Enacted in Engineering Education,” *International Journal of Engineering Education*, **35**(2), 446-457, (2019).
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**ARTICLES PUBLISHED IN CONFERENCE PROCEEDINGS**

**(All are peer reviewed and include presentation at conference.)**

(Note that all articles published since 1995 in the *Proceedings of the Frontiers in Education Conference* are available at the FIE Clearinghouse <http://fie-conference.org/> )

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3. S. M. Lord, G. Roos, B. Pezeshki, J. S. Harris, Jr., and N. M. Johnson, "Hydrogen Passivation of Defects in InGaAs/AlxGa1-xAs Quantum Wells," *Mat. Res. Soc. Symp. Proc* 262, 881 (1992).
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5. S. M. Lord, "A New Approach to Teaching Electronics: Content and Methodology," Session 4B1, *Proceedings of the 1994 Frontiers in Education Conference*, San Jose, California, p. 151. **[Awarded "Honorable Mention" from Ben Dasher Award Committee]**
6. S. M. Lord, "An Innovative Multidisciplinary Elective on Optoelectronic Materials and Devices," Session 3a4, *Proceedings of the 1995* *Frontiers in Education Conference*, Atlanta, Georgia, November 1995.
7. Crystal J. Theesfeld[[5]](#footnote-5)\* and Susan M. Lord, “Designing Optoelectronic Laboratories: A Unique Senior Design Opportunity,” Session 7c2, *Proceedings of the 1996 Frontiers in Education Conference*, Salt Lake City, Utah, November 1996.
8. Carrie H. Goldwein\* and Susan M. Lord, “Optoelectronics Laboratory for First Year Students,” Session 7c2, *Proceedings of the 1996* *Frontiers in Education Conference*, Salt Lake City, Utah, November 1996.
9. Susan M. Lord, “Undergraduate Optoelectronics Laboratories,” *Proceedings of the 1997 ASEE Annual Conference*, Milwaukee, Wisconsin, June 1997.
10. Susan M. Lord, “‘Nifty Diode Circuits’: Using the World Wide Web in an Electronics Class,” Session F4F, *Proceedings of the 1997* *Frontiers in Education Conference*, Pittsburgh, Pennsylvania, November 1997.
11. Ryan A. Sherry\* and Susan M. Lord, “LabVIEW as an Effective Enhancement to an Optoelectronics Laboratory Experiment,” Session F3E, *Proceedings of the 1997* *Frontiers in Education Conference*, Pittsburgh, Pennsylvania, November 1997.
12. Ryan A. Sherry\* and Susan M. Lord, “Design of a Laboratory Experiment on Optical Fiber and Applications in Fiber Sensors,” Session F2D, *Proceedings of the 1997* *Frontiers in Education Conference*, Pittsburgh, Pennsylvania, November 1997.
13. Elaine Seat and Susan M. Lord, "Enabling Effective Engineering Teams: A Program for Teaching Interaction Skills," Session T2H, *Proceedings of the 1998* *Frontiers in Education Conference*, Tempe, Arizona, November 1998. **[Selected as one of the ten best papers at the conference.]**
14. Michael A. Hawkins[[6]](#footnote-6)\* and Susan M. Lord, "Design of an Undergraduate Atomic Force Microscopy Laboratory for a Materials Science Lecture Course," Session 3264, *Proceedings of the 1999 ASEE Annual Conference,* Charlotte, North Carolina, June 1999.
15. Susan M. Lord, "Service Learning in Introduction to Engineering at the University of San Diego: First Lessons," Session 13b6, *Proceedings of the 1999 Frontiers in Education Conference*, San Juan, Puerto Rico, November 1999.
16. J. A. Macedo, S. M. Lord, and R. T. Olson, "A Computer-Based Introduction to Engineering Laboratory," *2000 International Conference on Simulation and Multimedia in Engineering Education* part of the *WMC 2000 Western Multiconference*, San Diego, California, January 2000.
17. J. A. Macedo, S. M. Lord, and R. T. Olson, "A "NIFTY" Laboratory for First-Year Engineering Students," Session 2553, *Proceedings of the 2000 ASEE Annual Conference*, St. Louis, Missouri, June 2000.
18. J. Duffy, E. Tsang, and S. Lord, "Service-Learning in Engineering: What, Why, and How?" Session 3630, *Proceedings of the 2000 ASEE Annual Conference*, St. Louis, Missouri, June 2000.
19. S. M. Lord, J. A. Macedo, and R. T. Olson, "Continuous Improvement as a Methodology for Introducing Engineering Design to First-Year Students," Session S2G, *Proceedings of the 2000 Frontiers in Education Conference*, Kansas City, Missouri, October 2000.
20. Susan M. Lord, "Cooperative Learning Homework Teams in a Materials Science Lecture Course," Session 1664, *Proceedings of the 2001 ASEE Annual Conference*, Albuquerque, New Mexico, June 2001.
21. Susan M. Lord, "Student Response to Cooperative Learning Homework Teams: Midcourse and Final Evaluations," Session T3B, *Proceedings of the 2001 Frontiers in Education Conference*, Reno, Nevada, October 2001.
22. Ian M. Nauhaus\* and Susan M. Lord, " Know your Lab Stuff: Laboratory Proficiency Exam for an Introductory Circuits Class," Session 3432, *Proceedings of the 2002 ASEE Annual Conference*, Montreal, Quebec, June 2002.
23. M. L. Higa\*, D. M. Tawy\*, and S. M. Lord, " An Introduction to LabVIEW Exercise for an Electronics Class,” Session T1D, *Proceedings of the 2002 Frontiers in Education Conference*, Boston, Massachusetts, November 2002.
24. William Oakes, John Duffy, Thomas Jacobius, Panos Linos, Susan M. Lord, William W. Schultz, and Amy Smith, “Service-Learning In Engineering,” Session F3A, *Proceedings of the 2002 Frontiers in Education Conference*, Boston, Massachusetts, November 2002.
25. Leonard A. Perry and Susan M. Lord, “Promoting Interest in Engineering in the Local Community by “Walking On Water”, Session 2003-1308, *Proceedings of the 2003 ASEE Annual Conference*, Nashville, Tennessee, June 2003.
26. Susan M. Lord, “Undergraduate Elective on Optoelectronic Materials and Devices,” Session EMI, *Education and Training in Optics and Photonics Conference* (ETOP), Tucson, Arizona, October 2003.
27. Sami D. Alsaialy[[7]](#footnote-7)\*, Dalia M. Tawy\*, and Susan M. Lord, “Introduction To LabVIEW Two-Part Exercise,” Session F3A, *Proceedings of the 2003 Frontiers in Education Conference*, Boulder, Colorado, November 2003.
28. Thomas F. Schubert, Jr., Susan M. Lord, Dalia M. Tawy\*, and Sami D. Alsaialy\*, “A LabVIEW Interface For Transistor Parameter Analysis: An Opportunity To Explore The Utility Of Computer Interfaces,” Session 1426, *Proceedings of the 2004 ASEE Annual Conference*, Salt Lake City, Utah, June 2004.
29. X. B. Xie[[8]](#footnote-8)#, Y. Wu#, J. H. Hodiak, S. M. Lord, and P. K. L. Yu, “Suppressed-Carrier Large-Dynamic-Range Heterodyned Microwave Fiber-Optic Link,” *Proceedings of the IEEE MWP 2004 International Topical Meeting on Microwave Photonics*, Ogunquit, Maine, October 2004.
30. Susan M. Lord, ““Fabulous Fridays”: Satisfying ABET 2000 Criterion I and J in an Optoelectronics Elective,” *Proceedings of the* *2005 ASEE Annual Conference*, Portland, Oregon, June 2005.
31. Susan M. Lord, Eileen Cashman, Elizabeth A. Eschenbach, and Alisha A. Waller, “Feminism and Engineering,” Session F4H, *Proceedings of the 2005 Frontiers in Education Conference*, Indianapolis, Indiana, October, 2005.
32. Elizabeth A. Eschenbach, Eileen Cashman, Alisha A. Waller, and Susan M. Lord, “Incorporating Feminist Pedagogy into the Engineering Learning Experience,” Session F4H, *Proceedings of the 2005 Frontiers in Education Conference*, Indianapolis, Indiana, October, 2005.
33. Susan M. Lord and Leonard A. Perry, “Tablet PC – Is it Worth it? A Preliminary comparison of several approaches to using Tablet PC in an engineering classroom,” Session 2220, *Proceedings of the 2006 ASEE Annual Conference*, Chicago, Illinois, June 2006.
34. David Malicky, Ming Huang, and Susan M. Lord, “Problem, Project, Inquiry, or Subject-Based Pedagogies: What to do?” Session 3575, *Proceedings of the 2006 ASEE Annual Conference*, Chicago, Illinois, June 2006. **[Awarded Best Paper in New Engineering Educators Division]**
35. Ming Huang, David Malicky, and Susan M. Lord, “Choosing an Optimal Pedagogy: A Design Approach”, *Proceedings of the 2006 Frontiers in Education Conference*, San Diego, CA, October 2006. **[Selected as one of top 5 papers at conference]**
36. Susan M. Lord and Michelle Madsen Camacho, “Why Pedagogy Matters: Faculty Narratives,” *Proceedings of the* *2007 ASEE Annual Conference*, Honolulu, HI, June 2007.
37. Susan M. Lord, “Effective ‘Writing to Communicate’ Experiences in Electrical Engineering Courses,” *Proceedings of the* *2007 ASEE Annual Conference*, Honolulu, HI, June 2007.
38. Susan M. Lord and Michelle Madsen Camacho, “Preliminary Analysis of Engineering Educators Beliefs about Effective Teaching and Teaching Practices,” *Proceedings of the 2007 Frontiers in Education Conference*, Milwaukee, WI, October 2007.
39. Susan M. Lord, Michelle Madsen Camacho, and Christina Aneshansley[[9]](#footnote-9)\*, “Applying ‘Cultural Consensus Analysis’ to a Subgroup of Engineering Educators,” *Proceedings of the* *2008 ASEE Annual Conference*, Pittsburgh, PA, June 2008.
40. Claribel Bonilla, Susan M. Lord, and Leonard A. Perry, “Promoting Understanding in the Classroom: Comparison of the Strength Deployment Inventory, Learning Styles Inventory, and Myers-Briggs,” Session T3F, *Proceedings of the* *2008 Frontiers in Education Conference*, Saratoga Springs, NY, October 2008.
41. Richard A. Layton, Susan M .Lord, and Matthew W. Ohland, “Reasoning About Categorical Data: Multiway Plots as Useful Research Tools,” *Proceedings of the* *2009 ASEE Annual Conference*, Austin, TX, June 2009.
42. Matthew W. Ohland, Michelle M. Camacho, Richard A. Layton, Russell A. Long, Susan M. Lord, and Mara H. Wasburn, “How we measure success makes a difference: Eight-semester persistence and graduation rates for female and male engineering students,” *Proceedings of the* *2009 ASEE Annual Conference*, Austin, TX, June 2009.
43. Susan M. Lord, Michelle Madsen Camacho, Richard A. Layton, and Matthew W. Ohland, “Who enrolls in electrical engineering? A quantitative analysis of U.S.A. student Trajectories,” *Proceedings of the* *IEEE Global Conference on Engineering Education (EDUCON)* Madrid, Spain, April 2010.
44. Susan M. Lord, John Chen, Katharyn Nottis, Candice Stefanou, Michael Prince, and Jonathan Stolk, “Role of Faculty in Promoting Lifelong Learning: Characterizing Classroom Environments,” *Proceedings of the* *IEEE Global Conference on Engineering Education (EDUCON)* Madrid, Spain, April 2010.
45. Russ Meier, Manuel Castro, and Susan Lord, “International Professional Societies and their role in Transnational Education - the example of IEEE,” International Conference on EUropean Transnational Education (ICEUTE 2010), Burgos, Spain, September 24, 2010.

 **Invited Keynote**

1. Michelle M. Camacho, Susan M. Lord, Catherine E. Brawner, and Matthew W. Ohland, “Climate in Undergraduate Engineering Education from 1995 to 2009,” *Proceedings of the* *2010* *Frontiers in Education Conference*, Washington, D.C., October 2010.
2. Catherine E. Brawner, Susan M. Lord, and Matthew W. Ohland, “Undergraduate Women in Chemical Engineering: Exploring Why They Come” *Proceedings of the* *2011 ASEE Annual Conference*, Vancouver, British Columbia, June 2011.
3. Susan M. Lord, Candice Stefanou, Michael Prince, John Chen, and Jonathan D. Stolk, “Student Lifelong Learning Outcomesfor Different Learning Environments,” *Proceedings of the* *2011 ASEE Annual Conference*, Vancouver, British Columbia, June 2011.
4. Michelle Madsen Camacho and Susan M. Lord, “’Microaggressions’ in Engineering Education: Climate for Asian, Latina, and White Women,” *Proceedings of the* *2011* *Frontiers in Education Conference*, Rapid City, South Dakota, October 2011.
5. Catalina Matinez-Mediano and Susan M. Lord, “Lifelong Learning Program for Engineering Students,” *Proceedings of the* *IEEE Global Conference on Engineering Education (EDUCON),* Marrakesh*,* Morocco, April 2012.
6. Susan M. Lord, Yongming Tang, Rong Wang, and Shen Xu “Cross-cultural active learning: Preliminary Results of a Case Study of an American Professor Teaching in China,” *Proceedings of the* *ASEE Inaugural International Forum,* San Antonio*,* TX, June 2012.
7. Yongming Tang and Susan M. Lord, “Comparison of Practical Training Experiences for Electronics Engineers in China and the U.S.A.: Case Study of Southeast University and the University of San Diego,” *Proceedings of the* *ASEE Inaugural International Forum,* San Antonio*,* TX, June 2012.
8. Jun Cui, Jiwen Zhang, Susan M. Lord, and Xia Wang, “Perceptions and Expectations of Engineering Curriculum Reform by Graduates: A Survey Study in China,” *Proceedings of the IEEE International Conference on Teaching, Assessment and Learning for Engineering* 2012 (TALE2012), Hong Kong, China, August 2012
9. Hu Ren-Jie, Kuang Yinghui, Susan M. Lord, Huang Hong, and Guan Qiu-Mei, “Encouraging Active Autonomous Learners in Electric and Electronic Laboratories for Second-year Students,” *Proceedings of the IEEE International Conference on Teaching, Assessment and Learning for Engineering* 2012 (TALE2012), Hong Kong, China, August 2012.
10. Matthew W. Ohland, Marisa K. Orr, Susan M. Lord, Russell A. Long, and Richard A. Layton, “Introducing ‘Stickiness’ as a Versatile Metric of Engineering Persistence,” *Proceedings of the* *2012* *Frontiers in Education Conference*, Seattle, WA, October 2012.
11. Marisa K. Orr, Matthew W. Ohland, Susan M. Lord, Russell A. Long, Catherine E. Brawner, and Richard A. Layton, “Engineering Matriculation Paths: Outcomes of Direct Matriculation, First-Year Engineering, and Post-General Education Models,” *Proceedings of the* *2012* *Frontiers in Education Conference*, Seattle, WA, October 2012.
12. John C. Chen, Susan M. Lord, and Karen J. McGaughey, “Measuring Students’ Propensity for Lifelong Learning,” *Proceedings of the 2012 Australasian Association for Engineering Education (AAEE) Conference*, Melbourne, Victoria, Australia, December 2012.
13. Susan M. Lord, Rick T. Olson, Victor W. Chang, Yinghui Kuang, and Yongming Tang, “Cross-cultural Active Learning: Preliminary Results from Americans Teaching in China,” *Proceedings of the* *IEEE Global Conference on Engineering Education (EDUCON),* Berlin*,* Germany, March 2013.
14. Susan M. Lord, Karen J. McGaughey, John C. Chen, and Victor W. Chang, “Measuring Propensity for Lifelong Learning: Comparing Chinese and U.S. Engineering Students,” *Proceedings of the* *IEEE Global Conference on Engineering Education (EDUCON),* Berlin*,* Germany, March 2013.
15. R. T. Olson, T. T. Ngo, and S. M. Lord, “Comparing First-Year Student Attitudes towards Engineering across a Liberal Arts University,” *Proceedings of the 2013 ASEE Conference*, Atlanta, GA, June 2013.
16. J. C. Chen, K. J. McGaughey, and S. M. Lord, “Engineering Students’ Development as Lifelong Learners,” *Proceedings of the 2013 ASEE Conference*, Atlanta, GA, June 2013.
17. Susan M. Lord, Matthew W. Ohland, Richard A. Layton, and Marisa K. Orr, “Student Demographics and Outcomes in Electrical and Mechanical Engineering,” *Proceedings of the* *2013* *Frontiers in Education Conference*, Oklahoma City, OK, October 2013.
18. Susan M. Lord and Michelle Madsen Camacho, “Latinos and Latinas in the Borderlands of Education: Researching Minority Populations,” *Proceedings of the* *2013* *Frontiers in Education Conference*, Oklahoma City, OK, October 2013.
19. Susan M. Lord, Jiajia Wang, Victor W. Chang, Yinghui Kuang, and Yongming Tang, “Cross-cultural Active Learning: Qualitative Results from Americans Teaching in China,” *Proceedings of the* *IEEE Global Conference on Engineering Education (EDUCON),* Istanbul*,* Turkey, April 2014.
20. Marisa K. Orr, Susan M. Lord, Matthew W. Ohland, and Richard A. Layton, “Student Demographics and Outcomes in Mechanical and Aerospace Engineering including Migration between the Disciplines,” *Proceedings of the* *2014* *ASEE Conference*, Indianapolis, IN, June 2014.
21. Susan M. Lord, Matthew W. Ohland, and Richard A. Layton, “Understanding Diverse Pathways: Disciplinary Trajectories of Engineering Students,” *Proceedings of the* *2014* *ASEE Conference*, Indianapolis, IN, June 2014.
22. Elizabeth A. Eschenbach, Mary Virnoche, Eileen Cashman, Susan M. Lord, and Michelle M. Camacho, “Research to Practice - Proven Practices that can Reduce Stereotype Threat in Engineering Education: A Literature Review,” *Proceedings of the 2014 Frontiers in Education Conference*, Madrid Spain, October 2014.
23. Michelle M. Camacho, Susan M. Lord, Lisa Baird, Perla Myers, Jane Friedman, and Sandra Sgoutas-Emch, “Interactive Theatre to Engage Faculty in Difficult Dialogues: First Implementation,” *Proceedings of the 2014 Frontiers in Education Conference*, Madrid Spain, October 2014.
24. Jeffrey E. Froyd, Susan M. Lord, Matthew W. Ohland, Kishore Prahallad, Euan D. Lindsay, and Burton Dicht, “Scenario Planning to Envision Potential Futures for Engineering Education,” *Proceedings of the 2014 Frontiers in Education Conference*, Madrid Spain, October 2014.
25. S. M. Lord, R. A. Layton, and M. W. Ohland, “A Disciplinary Comparison of Trajectories of U.S.A. Engineering Students,” *Proceedings of the* *2014* *Frontiers in Education Conference*, Madrid, Spain, October 2014.
26. Matthew W. Ohland, Burton Dicht, Jeffrey E. Froyd, Euan D. Lindsay, Susan M. Lord, and Kishore Prahallad, “Using an International Survey to Inform Scenario Planning,” *Proceedings of the 2014 Australasian Association for Engineering Education (AAEE) Conference*, Wellington, New Zealand, December 2014.
27. Susan M. Lord, Matthew W. Ohland, and Richard A. Layton, “Understanding Diverse Pathways: Disciplinary Trajectories of Engineering Students: Year 3,” *Proceedings of the* *2015* *ASEE Conference*, Seattle, WA, June 2015.
28. Joyce Main, Catherine Brawner, Michelle M. Camacho, Susan M. Lord, and Catherine Mobley, “Exploring Military Veteran Students’ Pathways in Engineering Education,” *Proceedings of the* *2015* *ASEE Conference*, Seattle, WA, June 2015.
29. Susan M. Lord, Matthew W. Ohland, Jeffrey E. Froyd, and Euan D. Lindsay, “An International Exploration of Electrical and Computer Engineering Education Practices,” *Proceedings of the* *2015* *ASEE Conference*, Seattle, WA, June 2015.
30. Susan M. Lord, Richard A. Layton, and Matthew W. Ohland, “Disciplinary Comparison of Engineering Student Outcomes in the USA,” 6th *Research in Engineering Education Symposium (REES)*, Dublin, Ireland, July 2015.
31. Susan M. Lord, Lisa Baird, Jane Friedman, Perla Myers, Sandra Sgoutas-Emch, and Michelle M. Camacho, “Innovative Faculty Cohort Hire at the University of San Diego,” *Proceedings of the 2015 Frontiers in Education Conference*, El Paso, Texas, October 2015.
32. Catherine E. Brawner, Catherine Mobley, Susan M. Lord, Joyce B. Main, and Michelle M. Camacho, “The Institutional Environment for Student Veterans in Engineering,” *Proceedings of the 2015 Frontiers in Education Conference*, El Paso, Texas, October 2015.
33. Joyce Main, Michelle M. Camacho, Catherine Mobley, Catherine Brawner, and Susan M. Lord, “Using Focus Groups to Understand Military Veteran Students’ Pathways in Engineering Education,” *Proceedings of the* *2016* *ASEE Conference*, New Orleans, LA, June 2016.
34. Susan M. Lord, Joyce Main, Catherine Brawner, Catherine Mobley, and Michelle M. Camacho, “Military Veteran Students’ Pathways in Engineering Education: Year 2,” *Proceedings of the* *2016* *ASEE Conference*, New Orleans, LA, June 2016.
35. O. Dalrymple, S. M. Lord, M. Tesfaye, R. Daryanani, and S. Gray, “An Experiential Approach to Understanding the Engineering Design Process,” *Proceedings of the 2016 Frontiers in Education Conference*, Erie, PA, October 2016.
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41. S. M. Lord, C. E. Brawner, C. Mobley, J. B. Main, and M. M. Camacho, “Military Veteran Students’ Pathways in Engineering Education (Year 3),” *Proceedings of the* *2017* *ASEE Conference*, Columbus, OH, June 2017.
42. K. Buffinton, V. Manno, S. M. Lord, M. W. Ohland, A. McKenna, and J. Helble “Catalyzing a Research Agenda for Enhancing Engineering Education through Institutional Collaborations*,” Proceedings of the* *2017* *ASEE Conference*, Columbus, OH, June 2017.
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67. D. Chen, M. Peters, G. Hoople, J. A. Mejia, and S. M. Lord, “Vocation across the Engineering Curriculum: Challenging Students to Recognize their Values,” *2019 American Society for Engineering Education Annual Conference Proceedings*, Tampa, FL, June 2019.
68. S. M. Lord, B. Przestrzelski, and E. Reddy, “Teaching social responsibility in a Circuits course,” *2019 American Society for Engineering Education Annual Conference Proceedings*, Tampa, FL, June 2019.
69. G. D. Hoople, D. Chen, J. A. Mejia, and S. M. Lord, “Reimagining Energy Year 1: Identifying Non-Canonical Examples of Energy in Engineering,” *2019 American Society for Engineering Education Annual Conference Proceedings*, Tampa, FL, June 2019.
70. B. Przestrzelski, S. M. Lord, and M. M. Camacho, “Trash Teachings: How a materials science module series about waste can empower engineering students to be more sociotechnically responsible,” *2019 American Society for Engineering Education Annual Conference Proceedings*, Tampa, FL, June 2019. [**ASEE Materials Division Best Paper**]
71. M. W. Ohland, S. M. Lord, M. K. Orr, R. A. Layton, R. A. Long, C. E. Brawner, H. Ebrahiminejad, and H. Al Yagoub, “Expanding Access to and Participation in MIDFIELD (Year 3),” *2019 American Society for Engineering Education Annual Conference Proceedings*, Tampa, FL, June 2019.
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74. M. W. Ohland, S. M. Lord, R. A. Layton, M. K. Orr, C. E. Brawner, H. Ebrahiminejad[[11]](#footnote-11)#, H. Al Yagoub#, and R. A. Long, “Expanding Access to and Participation in MIDFIELD (Year 4),” *2020 American Society for Engineering Education Annual Conference Proceedings*, Montreal, Canada, June 2020. (virtual)
75. G. D. Hoople, D. Chen, J. A. Mejia, and S. M. Lord, “Reimagining Energy Year 2: Integrating CSPs into Course Development,” *2020 American Society for Engineering Education Annual Conference Proceedings*, Montreal, Canada, June 2020. (virtual)
76. M. Nelson, G. D. Hoople, D. Chen, J. A. Mejia, and S. M. Lord, “Work-in-Progress: What is Energy? Examining Engineering Students’ Conceptions of Energy,” *2020 American Society for Engineering Education Annual Conference Proceedings*, Montreal, Canada, June 2020. (virtual)
77. C. Mobley, J. Murphy, J. B. Main, S. M. Lord, and C. E. Brawner, “The Engineering Education Experiences of Students Serving in the Reserves or National Guard,” *2020 American Society for Engineering Education Annual Conference Proceedings*, Montreal, Canada, June 2020. (virtual)
78. L. Gelles and S. M. Lord, “ ‘The Final Straw’: Integrating complexity into design decisions within a Materials Science course,” *2020 American Society for Engineering Education Annual Conference Proceedings*, Montreal, Canada, June 2020. (virtual) [**ASEE Materials Division Best Paper**]
79. S. M. Lord, C.E. Brawner, J. B. Main, and C. Mobley, “Military Veteran Students’ Pathways in Engineering Education (Year 6),” *2020 American Society for Engineering Education Annual Conference Proceedings*, Montreal, Canada, June 2020. (virtual)
80. S. M. Lord, R. T. Olson, C. Roberts, C. Baillie, O. Dalrymple, and L. Perry, “Developing Changemaking Engineers -Year 5,” *2020 American Society for Engineering Education Annual Conference Proceedings*, Montreal, Canada, June 2020. (virtual)
81. L. Gelles and S. M. Lord, “Investigating using a ‘Social Impact Audit’ Tool to support students’ decision-making in a Materials Science Course,” *Proceedings of the 2020 Frontiers in Education (FIE) Conference*, Uppsala, Sweden, October 2020. (virtual)
82. S. Breslin, B. Przestrzelski, and S. M. Lord, “Design for the future: Analyzing the broader implications of electronic technologies in an introductory electrical engineering class,” *Proceedings of the 2020 Frontiers in Education (FIE) Conference*, Uppsala, Sweden, October 2020. (virtual)
83. C. Roberts and S. M. Lord, “Making Engineering Education Sociotechnical,” *Proceedings of the 2020 Frontiers in Education (FIE) Conference*, Uppsala, Sweden, October 2020. (virtual)

**SUMMARIES PUBLISHED IN CONFERENCE PROCEEDINGS**

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1. S. M. Lord, B. Pezeshki, and J. S. Harris, Jr., "Multiple Quantum Well Electroabsorption Modulator near 1.3 µm in InGaAs/GaAs" in OSA Annual Meeting Technical Digest, 1992 (Optical Society of America, Washington, D.C., 1992), Vol. 23, pp. 77.
2. J. A. Trezza, M. C. Larson, S. M. Lord, and J. S. Harris, Jr., "Large, Low Voltage Absorption Changes and Absorption Bistability in Novel, Three Step Asymmetric QW's," *OSA Quantum Optoelectronics Conference,* Palm Springs, California, 1993, Paper QTHB3, pp. 68.
3. J. A. Trezza, B. Pezeshki, M. C. Larson, S. M. Lord, and J. S. Harris, Jr., "High Contrast Reflection Electro-Absorption Modulator with Zero Phase Change," *OSA Quantum Optoelectronics Conference,* Palm Springs, California, 1993, Paper QTHB7, pp. 76.
4. J. A. Trezza, B. Pezeshki, M. C. Larson, S. M. Lord, and J. S. Harris, Jr., "Eliminating Parasitic Phase Shift in Optical Modulators," in Conference on Lasers and Electro-Optics, 1993, Vol. 11, OSA Technical Digest Series (Optical Society of America, Washington, D.C., 1993), pp. 194.
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6. W-Y. Hwang#, R. Kochhar#, M. Micovic#, T. S. Mayer, and D. L. Miller, and S. M. Lord, "Molecular Beam Epitaxy of In0.74Ga0.26As on InP for Near-Infrared Detectors," *Electronic Materials Conference*, Charlottesville, Virginia, June 1995.
7. Rohit Kochhar[[12]](#footnote-12)#, Wen-Yen Hwang#, Miroslav Micovic#, Theresa S. Mayer, David L. Miller, and Susan M. Lord, “Development of 2.2 µm InGaAs Photodetectors using Molecular Beam Epitaxy,” in Conference on Lasers and Electro-Optics, 1996,Vol. 9, OSA Technical Digest Series (Optical Society of America, Washington, D.C., 1996), pp. 198-199.
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9. S. M. Lord, R. Kochhar#, W-Y. Hwang#, M. Micovic#, T. S. Mayer, and D. L. Miller, "Investigation of Compositional Grading for Molecular Beam Epitaxy of Highly mismatched InGaAs on InP," *Electronic Materials Conference*, Santa Barbara, California, June 1996.
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11. Elaine Seat, William Poppen, and Susan M. Lord, "Teaching Communication Skills in the Classroom," Workshop W6 at the *1998* *Frontiers in Education Conference*, Tempe, Arizona, November 1998.
12. Susan Lord, Beth Eschenbach, Alisha Waller, and Eileen Cashman, “Feminist Frontiers,” Session T3A, *Proceedings of the 2004 Frontiers in Education Conference*, Savannah, Georgia, October, 2004. **[won Helen Plants Award for Best Nontraditional Session]**
13. Alisha A. Waller, Donna Riley, Eileen Cashman, Beth Eschenbach, and Susan Lord, “Classroom Border Crossings: Incorporating Feminist and Liberative Pedagogies in your CSET Classroom,” Workshop W2B, *Proceedings of the 2006* *Frontiers in Education Conference*, San Diego, CA, October 2006.
14. Susan Lord, Manuel Castro, Edwin Jones, Susan Kemnitzer, Jane Prey, William Oakes, and Ruth Streveler, Session T3A, “Panel - Future of FIE: Where are we and where do we want to go?” *Proceedings of the 2006* *Frontiers in Education Conference*, San Diego, CA, October 2006.
15. Susan M. Lord, Catherine E. Brawner, Michelle M. Camacho, Richard A. Layton, Russell A. Long, Matthew W. Ohland, and Mara H. Wasburn, “Work in Progress: Effect of Climate and Pedagogy on Persistence of Women in Engineering Programs,” Session S4F, *Proceedings of the 2008* *Frontiers in Education Conference*, Saratoga Springs, NY, October 2008.
16. Susan M. Lord, Michelle Madsen Camacho, Richard A. Layton, Russell A. Long, Matthew W. Ohland, and Mara H. Wasburn, “Framing Persistence: Race and Gender in Undergraduate Engineering,” *American Education Research Association (AERA) 2009 Annual Meeting*, San Diego, CA, April 2009.
17. Jonathan Stolk, Susan M. Lord, Candice Stefanou, John Chen, Katharyn Nottis, and Michael Prince, “Work in Progress: Role of Faculty in Promoting Lifelong Learning,” Session M3H, *Proceedings of the* *2009* *Frontiers in Education Conference*, San Antonio, TX, October 2009.
18. Catherine E. Brawner, Michelle M. Camacho, Russell A. Long, Susan M. Lord, Matthew W. Ohland, and Mara H. Wasburn, “Work in Progress: The Effect of Engineering Matriculation Status on Major Selection,” Session T4E, *Proceedings of the* *2009* *Frontiers in Education Conference*, San Antonio, TX, October 2009.
19. Susan M. Lord, Catherine E. Brawner, Michelle M. Camacho, Richard A. Layton, Matthew W. Ohland, and Mara H. Wasburn, “Work in Progress: Engineering Students’ Disciplinary Choices: Do Race and Gender Matter?” Session W1D, *Proceedings of the* *2009* *Frontiers in Education Conference*, San Antonio, TX, October 2009.
20. Alice L. Pawley, Donna Riley, Trevor Harding, Susan Lord, and Cynthia Finelli, “Special Session – From Active Learning to Liberative Pedagogies: Alternative teaching philosophies in CSET education,” Session M2B, *Proceedings of the* *2009* *Frontiers in Education Conference*, San Antonio, TX, October 2009.
21. Alice L. Pawley, Donna Riley, Susan M. Lord, and Trevor Harding, “Workshop: Feminist Engineering Education: Building a community of practice,” Session S3A, *Proceedings of the* *2009* *Frontiers in Education Conference*, San Antonio, TX, October 2009.
22. Susan M. Lord, Kathleen A. Kramer and Rick T. Olson, “Work in Progress: Connecting Veterans to Personalized Education at the University of San Diego (USD),” *Proceedings of the 2010* *Frontiers in Education Conference*, Washington, D.C., October 2010.
23. Catherine E. Brawner, Sharron A. Frillman, Susan M. Lord, and Matthew W. Ohland, “Work in Progress: Flexibility and Career Opportunity as Motivation for Women Selecting Industrial Engineering Majors,” *Proceedings of the 2010* *Frontiers in Education Conference*, Washington, D.C., October 2010.
24. John C. Chen, Susan M. Lord, Katharyn Nottis, Michael Prince, Candice Stefanou, Jonathan Stolk, “Work in Progress-Role of Faculty in Promoting Lifelong Learning: Initial Findings” *Proceedings of the 2010* *Frontiers in Education Conference*, Washington, D.C., October 2010.
25. Susan M. Lord and Chuck N. Pateros, “Sustainability and Senior Design at the University of San Diego,” *Proceedings of the 2011* *Frontiers in Education Conference*, Rapid City, South Dakota, October 2011.
26. Susan M. Lord, Kathleen A. Kramer, Rick T. Olson, Mary Kasarda, David Hayhurst, Sarah Rajala, Robert Green and David L. Soldan, “Special Session - Attracting and Supporting Military Veterans in Engineering Programs,” Session T4B, *Proceedings of the 2011* *Frontiers in Education Conference*, Rapid City, South Dakota, October 2011.
27. Elizabeth A. Eschenbach, Susan M. Lord, Michelle Madsen Camacho, and Eileen Cashman, “Special Session: Race and the Idea of Privilege in the Engineering Classroom,” *Proceedings of the 2012* *Frontiers in Education Conference*, Seattle, WA, October 2012.
28. Jeffrey E. Froyd and Susan M. Lord, “Workshop: Enhancing Scholarly Submissions to the IEEE Transactions on Education,” *Proceedings of the* *IEEE Global Conference on Engineering Education (EDUCON),* Berlin*,* Germany, March 2013.
29. Rick T. Olson, Truc T. Ngo, and Susan M. Lord, “Comparing the Attitudes towards Engineering of Honors Students and Engineering Students at a Liberal Arts University,” *Proceedings of the* *2013* *Frontiers in Education Conference*, Oklahoma City, OK, October 2013.
30. Jeffrey E. Froyd and Susan M. Lord, “Exploring Boyer's Scholarship of Application for Submissions to the IEEE Transactions on Education,” *Proceedings of the* *2013* *Frontiers in Education Conference*, Oklahoma City, OK, October 2013.
31. Jeffrey E. Froyd, Susan M. Lord, Matthew W. Ohland, Kishore Prahallad, Euan D. Lindsay, and Burton Dicht, “Special Session: Potential Futures for Engineering Education through Scenario Planning,” *Proceedings of the 2014 Frontiers in Education Conference*, Madrid Spain, October 2014.
32. Elizabeth A. Eschenbach, Mary Virnoche, Susan M. Lord, and Michelle M. Camacho, “Special Session: Stereotype Threat and my Students: What can I do about it?” *Proceedings of the 2014 Frontiers in Education Conference*, Madrid Spain, October 2014.
33. Rebecca Bates, R. Cheville, Jennifer Karlin, Lisa Benson, Cynthia Finelli, and Susan M. Lord, “Special Session: Agents for STEM Change – Articulating the Goals of our Community” *Proceedings of the 2014 Frontiers in Education Conference*, Madrid Spain, October 2014. **[won Helen Plants Award for Best Nontraditional Session]**
34. Rebecca Bates, R. Cheville, Jennifer Karlin, Lisa Benson, Cynthia Finelli, and Susan M. Lord, “Special Session: Agents for Change in Engineering and Computer Science Education” *Proceedings of the 2015 Frontiers in Education Conference*, El Paso, TX, October 2015.
35. Susan Lord and Denise Simmons, “Work in Progress -Innovation through Propagation: Improving and Diversifying Pathways,” *American Society for Engineering Education 2016 Annual Conference*, New Orleans, LA, June 2016.
36. M. W. Ohland, C. Brawner, R. Layton, R. Long, S. M. Lord, and M. K. Orr, “Special Session: Making the Multiple Institution Database for Investigating Engineering Longitudinal Development (MIDFIELD) More Accessible to Researchers” *Proceedings of the 2016 Frontiers in Education Conference*, Erie, PA, October 2016.
37. S. M. Lord, M. M. Camacho, C. E. Brawner, C. Mobley, and J. B. Main, “Have You Ever Wondered Why? Qualitative Research Methods to Investigate Engineering Education,” *Proceedings of the* *IEEE Global Conference on Engineering Education (EDUCON),* Athens, Greece, April 2017.
38. G. Adams and S. M. Lord, “Simulation Software Targeted to Repair Misconceptions Regarding the P-N Diode,” *Proceedings of the* *IEEE Global Conference on Engineering Education (EDUCON),* Athens, Greece, April 2017.
39. S. M. Lord, M. W. Ohland, R. Long, M. K. Orr, C. Brawner, and R. Layton, “Engaging with the Multiple Institution Database for Investigating Engineering Longitudinal Development (MIDFIELD): A Special Session” *Proceedings of the 2017 Frontiers in Education Conference*, Indianapolis, IN, October 2017.
40. L. Richards, S. M. Lord, C. Finelli, E. A. Eschenbach, P Imbrie, L. Shuman, K. Smith, A. McKenna, and C. Atman, “Panel: FIE 2017 Reviewing the past, predicting the future,” *Proceedings of the 2017 Frontiers in Education Conference*, Indianapolis, IN, October 2017.
41. R. A. Layton, R. A. Long, S. M. Lord, M. W. Ohland, M. K. Orr, and N. Ramirez, “Making MIDFIELD More Accessible: A Workshop for R Beginners” *Frontiers in Education (FIE) Conference*, San Jose, CA, October 2018.
42. S. M. Lord and M. M. Camacho, “Taking a Deep Dive: Qualitative Methods and Identity,” *Proceedings of the* *Frontiers in Education (FIE) Conference*, San Jose, CA, October 2018.
43. S. M. Lord, J. A. Mejia, D. A. Chen, and G. D. Hoople, “Starting a dialogue on decolonization in engineering education,” *Proceedings of the 2019 Frontiers in Education (FIE) Conference*, Cincinnati, OH, October 2019.
44. R. A. Layton, R. A. Long, S. M. Lord, M. K. Orr, M. W. Ohland, H. Ebrahiminejad, and H. Al Yagoub, “Accessing: A Workshop for R Beginners,” *Proceedings of the* *2019 Frontiers in Education (FIE) Conference*, Cincinnati, OH, October 2019.
45. M Polmear, D. R. Simmons, and S. M. Lord, “Impactful for Whom? Exploring the Diversity of Learning Pathways Outside of the Classroom for Engineering Students,” *Proceedings of the 2020 Frontiers in Education (FIE) Conference*, Uppsala, Sweden, October 2020.
46. L. Gelles and S. M. Lord, “Employment Strategies for Socially Conscious Engineers,” *Proceedings of the 2020 Frontiers in Education (FIE) Conference*, Uppsala, Sweden, October 2020. (virtual)

**PRESENTATIONS (without publication)**

1. S. M. Lord, A. F. Marshall, and J. S. Harris, Jr., “Molecular Beam Epitaxy of Highly Mismatched InGaAs on GaAs Using Graded Buffer Layers*,” Electronic Materials Conference*, Santa Barbara, California, June 1993. **[Awarded "Best Student Oral Presentation"]**
2. S. M. Lord, "Introduction to Optoelectronics," Workshop 121 Presented at *the 13th Biennial Conference on Chemical Education*, Bucknell University, Lewisburg, Pennsylvania, August 1994.
3. Elaine Seat, William Poppen, and Susan M. Lord, "Teaching Communication Skills in the Classroom," Workshop W6 at the *1998 Frontiers in Education Conference*, Tempe, Arizona, November 1999.
4. P. C. Cosman, T. S. Rosing, S. M. Lord, E. A. Riskin, and K. A. Quinn, "Family-Friendly Campuses and Strategies for Work/Life Balance", *2006 Grace Hopper Celebration of Women in Computing Conference*, San Diego, CA, October 2006.
5. Susan M. Lord, Michelle Madsen Camacho, Richard A. Layton, Russell A. Long, Matthew W. Ohland, and Mara H. Wasburn, “Framing Persistence: Race and Gender in Undergraduate Engineering,” *American Education Research Association (AERA) 2009 Annual Meeting*, San Diego, CA, April 2009.
6. Susan M. Lord, Michelle Madsen Camacho, Richard A. Layton, Russell A. Long, Matthew W. Ohland, and Mara H. Wasburn “Engineering Communities: A Longitudinal, Comparative Analysis of Persistence among Undergraduate Engineering Students,” *American Sociological Association (ASA) Annual Meeting*, San Francisco, CA, August 8-11, 2009.
7. Susan M. Lord, “IEEE Education Society: Global Leader in Engineering Education,” *2009 IEEE Conference on the History of Technical Societies,* Philadelphia, PA, August 5-7, 2009.
8. Susan M. Lord, “Who’s Persisting in Undergraduate Engineering Programs: A Comparative Analysis by Race and Gender,” American Association of University Women (AAUW) Eastern Delaware County Branch Monthly Meeting, Springfield, PA, 2010, January 4, 2010.
9. Susan M. Lord, “'Success in Undergraduate Engineering Programs: A Comparative Analysis by Race and Gender,” *American Physical Society (APS) March Meeting*, Portland, OR, March 16, 2010. **Invited**
10. Susan M. Lord, “The IEEE Education Society: Global Leader in Engineering Education,” *IEEE Global Conference on Engineering Education (EDUCON),* Madrid, Spain, April 2010.

 **Invited Keynote**

1. Candice Stefanou, Katharyn Nottis, Mike Prince, Jon Stolk, John Chen, Susan Lord, Jennifer Walter, “Autonomy Support in Undergraduate Engineering Classrooms: Effects on Student Motivation and Self-Regulation,” *American Education Research Association (AERA) 2010 Annual Meeting*, Denver, CO, April 2010.
2. Russ Meier, Manuel Castro, and Susan Lord, “International Professional Societies and their role in Transnational Education - the example of IEEE,” International Conference on EUropean Transnational Education (ICEUTE 2010), Burgos, Spain, September 24, 2010.

 **Invited Keynote**

1. R. A. Long, M.W. Ohland, C.E. Brawner, M.M. Camacho, R.A. Layton, S.M. Lord, and M.H. Wasburn, “Metrics Matter: Race, Gender and Measures of Success in Engineering Education,” Session 50, *Southern Association for Institutional Research 2010*, September 27, 2010.
2. Catherine E. Brawner, Michelle Camacho, Richard A. Layton, Susan M. Lord, and Matthew W. Ohland, “A Conversation with MIDFIELD Researchers MIDFIELD Researchers Discuss Pockets of Success for Women,” Panel discussion, Women in Engineering Division, *American Society for Engineering Education 2011 Annual Conference*, Vancouver, British Columbia, June 2011.
3. Susan M. Lord, “Current Issues in Engineering Education: An American Perspective,” *Jiangsu Province* *Conference on Curricular Reform in Electrical and Electronic Engineering*, Nanjing, China, April 14, 2012. **Invited**
4. Susan M. Lord, “Current Issues in Engineering Education: An American Perspective,” *College of Electronic and Information Sciences and Engineering Colloquium*, Suzhou University of Science and Technology, Suzhou, China, April 20, 2012. **Invited**
5. Susan M. Lord, “Current Issues in Engineering Education: An American Perspective,” *Deputy Deans’ Colloquium*, Southeast University, Nanjing, China, May 14, 2012. **Invited**
6. Susan M. Lord, “Teaching at SEU: Experiences and Observations,” *Southeast University Retreat for Deans and Deputy Deans*, Rizhao, China, July 2, 2012. **Invited**
7. Susan M. Lord, “Current Issues in Engineering Education: An American Perspective,” *Jiangsu Province Conference for University Administrators*, Huai’an, China, August 1, 2012. **Invited**
8. Michelle Madsen Camacho and Susan M. Lord, “Borderlands of Education: Moving Towards a More Enlightened Engineering Culture,” WEPAN 2014 Change Leader Forum, Minneapolis, MN, June 10, 2014.  **Invited Plenary Talk**
9. Susan M. Lord, Matthew W. Ohland, and Richard A. Layton, “Panel: Student Demographics and Outcomes in Electrical and Computer Engineering,” *ASEE Conference*, Indianapolis. IN, June 17, 2014.
10. Susan M. Lord, Matthew W. Ohland, Jeffrey E. Froyd, Burton Dicht, and Euan Lindsay, “CIP 443 Future of Engineering Education: An IEEE Report,” *Conference* *for Industry & Education Collaboration* (*CIEC)*, Palm Springs, CA, February 2015.
11. Susan M. Lord, “Reality and Myths in Engineering Education,” *Women in Algae 2015*, La Jolla, CA, March 11, 2015. **Invited**
12. Susan M. Lord, Matthew W. Ohland, Don Gruenbacher, and Khaled Benkrid, “The Future of ECE Education,” *Electrical and Computer Engineering Department Heads Association (ECEDHA) Annual Conference*, Hilton Head, SC, March 16, 2015.
13. Khalid Al-Olimat, Susan M. Lord, Philip Sealy, and Nazmul Ula, “Institutions with a Focus on Undergraduate Education,” *Electrical and Computer Engineering Department Heads Association (ECEDHA) Annual Conference*, Hilton Head, SC, March 16, 2015.
14. Susan M. Lord, “Interactive Theatre to Promote Difficult Dialogs about Inequities in Engineering Education,” *Teagle Grant Faculty Workshop*, Bucknell University, Lewisburg, PA, April 2, 2015. **Invited**
15. Susan M. Lord, “Stereotype Threat: What is it and how can I reduce it in my classroom?” *Bucknell University Faculty Learning Series*, Lewisburg, PA, April 3, 2015. **Invited**
16. Susan M. Lord, “Race/Ethnicity in Engineering Education: Myths and Realities,” *National Action Council for Minorities in Engineering (NACME) Scholars Meeting*, University of California, San Diego (UCSD), La Jolla, CA, May 1, 2015. **Invited**
17. Mary Pilotte, Marisa K. Orr, Susan M. Lord, Matthew W. Ohland, and Richard A. Layton, “Industrial Engineering - Uncovering unique student pathways and gender diversity,” *Industrial & Systems Engineering Research Conference* (*ISREC)*, Nashville, TN, June 1, 2015.
18. **Stephanie Goodwin, Canan Bilen-Green, Susan Metz, Susan M. Lord, Jenna Carpenter,** *“*Successful Climate Initiatives at NSF ADVANCE Institutions:Best Practices from the Field*,”* WEPAN 2015 Change Leader Forum, Denver, CO, June 10, 2015.
19. Susan M. Lord, Catherine E. Brawner, Richard A. Layton, and Matthew W. Ohland, “Panel: Student Demographics and Outcomes in Chemical Engineering,” Chemical Engineering Division, *American Society for Engineering Education 2015 Annual Conference*, Seattle, Washington, June 2015.
20. Marisa K. Orr, Susan M. Lord, Matthew W. Ohland, Richard A. Layton, Susan E. Walden, Cindy E. Foor, Rui Pan, Randa L. Shebab and Deborah A. Trytten, “Panel: Attracting, Developing and Retaining Diverse Talent in Mechanical Engineering,” Mechanical Engineering Division, *American Society for Engineering Education 2015 Annual Conference*, Seattle, Washington, June 2015.
21. Susan M. Lord, Matthew W. Ohland, Richard A. Layton, Mary Pilotte, and Marisa K. Orr, “Panel: Student Demographics and Outcomes in Industrial Engineering,” Industrial Engineering Division, *American Society for Engineering Education 2015 Annual Conference*, Seattle, Washington, June 2015.
22. Susan M. Lord, Michelle M. Camacho, and Odesma Dalrymple, “Panel: ·Interactive Theatre to Promote Difficult Dialogs about Inequities in Engineering Education,” Women in Engineering Division, Minorities in Engineering Division, Student Division, Multidisciplinary Engineering Division, Liberal Education/Engineering & Society Division, Educational Research and Methods Division, Engineering Libraries Division, Mechanical Engineering Division, and Technological and Engineering Literacy/Philosophy of Engineering Division, *American Society for Engineering Education 2015 Annual Conference*, Seattle, Washington, June 2015.
23. Susan M. Lord, “Engineering Education Research and Reflections of an American Teaching Engineering in China,” *Proceedings of the 2015 IEEE International Conference on Teaching, Assessment and Learning for Engineering* (TALE), Zhuhai, China, December 11. 2015. **Invited Keynote**
24. Susan M. Lord and Matthew W. Ohland, “Diversity in Undergraduate ECE Education: Who Comes and What Happens to Them?” *2016 ECEDHA Annual Conference and ECExpo,* La Jolla, CA, March 21, 2016. **Invited Keynote**
25. Susan M. Lord, Matthew W. Ohland, and Odesma O. Dalrymple, “Diversity, Equity and Inclusion in ECE: What can we do as ECE Department Heads? *2016 ECEDHA Annual Conference and ECExpo,* La Jolla, CA, March 21, 2016. **Invited Interactive Plenary Session**
26. Susan M. Lord and Michelle Madsen Camacho, “Interactive Theatre to Promote Difficult Dialogs about Inequities in Engineering Education,” Utah State University, Logan, UT, April 22, 2016. **Invited**
27. Susan M. Lord and Matthew W. Ohland, “Panel: Student Demographics and Outcomes in Civil Engineering,” Civil Engineering Division, *American Society for Engineering Education 2016 Annual Conference*, New Orleans, LA, June 2016.
28. Matthew Ohland, Susan Lord, Russell Long, and Marisa Orr, “Exploring and Learning from Longitudinal Student Unit-record Data, Workshop U414E,” *American Society for Engineering Education 2016 Annual Conference*, New Orleans, LA, June 2016.
29. Susan M. Lord, Christopher Newman, and Joi Spencer, “Encouraging Underrepresented Students in STEM,” STEAM Youth and Community Conference, University of San Diego, San Diego, CA, August 13, 2016. **Invited**
30. Susan M. Lord and Michelle Madsen Camacho, “Interactive Theatre to Promote Difficult Dialogs about Inequities in Undergraduate Education,” Humboldt State University, Arcata, CA, August 19, 2016.  **Invited Keynote for Institute for Student Success**
31. Susan M. Lord, “The Current State of Engineering Education: Role of Humanities and Revolution,” National Academy of Engineering Frontiers in Engineering Education Symposium, Irvine, CA, September 26, 2016. **Invited**
32. Michelle Madsen Camacho and Susan M. Lord, “Interactive Theatre to Promote Difficult Dialogs about Inequities in STEM Undergraduate Education,” UC Merced, Merced, CA, March 1, 2017. **Invited “Understanding and Addressing STEM Inequities” Speaker Series**
33. Susan M. Lord, Stella Batalama, and Miguel Velez-Reyes, “Panel: Different Types of Schools,” *2017 iREDEFINE Workshop* in conjunction with *ECEDHA Annual Conference and ECExpo,* Miramar Beach, FL, March 17, 2017.
34. John Booske and Susan M. Lord, “Expectations for Student Learning in ECE,” *2017 ECEDHA Annual Conference and ECExpo,* Miramar Beach, FL, March 20, 2017.

**Interactive Plenary Session**

1. Anthony Maciejewski, Ashfaq Khokhar, Luke Lester, and Susan M. Lord, “Revolutions in ECE Departments,” *2017 ECEDHA Annual Conference and ECExpo,* Miramar Beach, FL, March 20, 2017.
2. Ava Bellizzi and Susan M. Lord, “Examining First-Year Engineering Students’ Service-Learning Experiences,” *2017 USD Creative Collaborations Undergraduate Research Conference*, April 18, 2017.
3. Susan M. Lord, “Encouraging Underrepresented Students in STEM,” STEAM Youth and Community Conference, University of San Diego, San Diego, CA, July 22, 2017. **Invited**
4. Susan M. Lord, “Diversity and Inclusion in ECE: Student Outcome Data, Resources, and Initiatives,” *Western Electrical and Computer Engineering Department Heads Association (WECEDHA) Meeting*, UCSD, La Jolla, CA, November 19, 2017. **Invited**
5. C. Brawner, C. Mobley, S. Lord, J. Main, and M. Camacho. (2018). Answering the How and Why Questions with Qualitative Research. Workshop presented at the *Collaborative Network for Engineering and Computing Diversity (CoNECD) Conference,* Washington, DC, April 2018.
6. Susan M. Lord, “Developing changemaking engineers by recognizing engineering as a sociotechnical endeavor,” Mechanical Engineering Colloquium, Tufts University, Medford, MA, January 18, 2018. **Invited**
7. S. Lord, R. Olson, and C. Roberts, “Panel Discussion - Revolutionizing Engineering Education to Create Changemaking Engineers,” *Engineering, Social Justice, and Peace (ESJP) Conference*, San Diego, CA, Jan 2018.
8. Michelle Madsen Camacho and Susan M. Lord, “Interactive Theatre to Promote Difficult Dialogs about Inequities in STEM Undergraduate Education,” Kansas State University, Manhattan, KS, March 6, 2018. **Invited**
9. Michelle Madsen Camacho and Susan M. Lord, “Backstages of Leadership,” Kansas State University Provost’s Tuesday Roundtable, Manhattan, KS, March 6, 2018. **Invited**
10. J. Bekor, S. M. Lord, A. Miguel, and M. Velez-Reyes, “Panel: Different Types of Schools,” *2018 iREDEFINE Workshop* in conjunction with *ECEDHA Annual Conference and ECExpo,* Monterey, CA, March 17, 2018. **Invited**
11. S. M. Lord, M. M. Camacho, C. Roberts, R. Olson, M. Huang, and L. Perry, “Developing Changemaking Engineers” in “Changing the Professional Formation of Engineers: Revolutionizing Engineering and Computer Science Departments,” structured poster session, *American Educational Research Association (AERA) Conference*, New York, NY, April 17, 2018.
12. S. M. Lord, “Retention and Persistence of URMs and Women in STEM,” HSI Urbano Conference, City College of New York (CCNY), New York, NY, May 23, 2018.

 **Invited Plenary Talk**

1. S. M. Lord, “Creating an Inclusive Classroom to Engage Diverse Students,” ECST Teaching and Learning Academy, Cal State LA, Los Angeles, NCA, August 15, 2018. **Invited**
2. S. M. Lord, J. Sluss, A. Maciejewski, D. Rover, and D. Trytten, “IEEE Faculty Development Town Hall for Early Career Faculty,” Online, September 17, 2018.  **Invited**
3. S. M. Lord, “Retention and Persistence in Engineering: Data, Issues, and Ideas,” NSF/ASEE Engineering Deans Forum on Broadening Participation, Washington, DC, October 3, 2018.

 **Invited**

1. M. M. Camacho, S. M. Lord, C. Mobley, J. B. Main, and C. E. Brawner, “Exploring Narratives of LGBTQ Student Veterans in Engineering,”to be presented at the *Collaborative Network for Engineering and Computing Diversity (CoNECD) Conference,* Washington, DC, April 2019.
2. S. M. Lord, “Retention and Persistence in Engineering: Data, Issues, and Ideas,” University of Florida College of Engineering, Gainesville, FL, April 18, 2019.

 **Invited Benton Lecturer for Herbert Wertheim College of Engineering**

1. S. M. Lord, “Persistence in Engineering: Research and Reflections,” University of California-Irvine, Irvine, CA, May 23, 2019.

 **Invited Seminar for UCI Education Research Initiative**

1. “Sunday Workshop: How to Identify Appropriate Funding Programs and Prepare Competitive NSF Engineering Education Proposals,” ASEE Annual Conference, Tampa, FL, June 17, 2019.  **Invited Panelist**
2. S. M. Lord, “Engaging with the Literature,” Rising Dissertation Institute (RDI), University of California-San Diego, (UCSD), La Jolla, CA, June 24, 2019.  **Invited**
3. S. M. Lord, J. A. Mejia, K. Luckett, N. Wolmarans, and N. Mochekoane,“Decolonizing Engineering Education: Where do we start?,” Research on Engineering Education Symposium (REES), Cape Town, South Africa, July 11, 2019.  **Invited**
4. S. M. Lord, “Engaging with the Literature,” Simmons Research Group, University of Florida, Gainesville, FL, October 10, 2019. (via Skype) **Invited**
5. S. M. Lord, “Enhancing Learning and Inclusivity in Electrical Engineering,” University of Michigan, Ann Arbor, MI, December 13, 2019.

 **Invited ECE Distinguished Seminar Speaker**

1. Susan Lord, Ming Huang, and Rick Olson, “Changemaking Curricula: Modules in Engineering Courses*,*” *Developing Changemaking Engineers Symposium,* University of San Diego, San Diego, CA, January 18, 2020.
2. S. M. Lord, “The Middle Years: Reflection and Research,” Introduction to Engineering Education Research course, University of Nevada, Reno, February 25, 2020. (via Zoom) **Invited**
3. S. M. Lord, “Virtual Workshop: How to Identify Appropriate NSF Funding Programs and Prepare Competitive NSF Engineering Education Research Proposals,” *ASEE Annual Conference*, Montreal, Quebec, Canada, Tuesday June 23, 2020.  **Invited Panelist**
4. Susan M. Lord, “Ditching the Traditional College Lecture in Remote Instruction,” *IEEE Effective Remote Instruction: Reimagining the Engineering Student Experience*, July 27, 2020. (virtual) **Invited**
5. Susan M. Lord and John C. Chen, “CHEER UP Curriculum Design in the Middle Years Revisited,” CHEER UP Webinars, July 30, 2020. (virtual) **Invited**
6. Susan M. Lord, “Enhancing Inclusivity in Online Engineering and Computing Education,” *2020 12th International Conference on Education technology and Computers (ICETC 2020) and 2020 11th International Conference on Distance Learning and Education (ICDLE 2020)*, October 24, 2020. (virtual) **Invited Keynote**
7. “Meet Faculty in the Field of Engineering Education: Virtual Community Meetup,” November 4, 2020. (virtual)Inspired by the Engineering Education Pioneers Project, Organized by A. Carberry and S. Brunhaver, Arizona State University, one of 14 invited scholars **Invited**
8. J. Main, S. M. Lord, C. E. Brawner, and C. Mobley, “Student Veterans in Engineering,” Purdue University School of Engineering Education Alumni Event, November 11, 2020 (virtual). **Invited**
9. Susan M. Lord, “Enhancing Learning and Inclusivity in Electrical Engineering,” Department of Electrical and Computer Engineering Seminar Series, University of Illinois, Chicago, IL, November 13, 2020. (virtual) **Invited**

**APPLICATION NOTE**

Susan M. Lord and Shelby F. Nelson, "Using an Oscilloscope to Optimize AFM Images," *Burleigh Instruments Surface Topography Applications*, Vol. 10, March 1998.

**EDITORIALS**

Susan M. Lord and Cynthia J. Finelli, "Guest Editorial for Special Issue on Applications of Engineering Education Research" *International Journal of Engineering Education*, **26**(4), 746-747, 2010.

Susan M. Lord and Cynthia J. Finelli, "Guest Editorial for Special Issue on Applications of Engineering Education Research" *International Journal of Engineering Education*, **26**(5), 1031, 2010.

**MAGAZINES**

D. Kimberling and S. Lord, “A Response to *Why so Few*?" *SWE Magazine of the Society of Women Engineers*, **56**(4), 22-24, 2010.

D. Kimberling and S. Lord, “*Why So Few? Women in Science, Technology, Engineering and Mathematics*,” *SWE Magazine of the Society of Women Engineers*, **56**(4), 54-56, 2010.

D. R. Simmons and S. M. Lord, “Call it by its name: Addressing racism and sexism directly is a necessary first step toward equitable participation in engineering by women and people of color,” Advances from AEE, *ASEE Prism*, 45, Summer 2019.

**NEWSLETTERS**

S. M. Lord, Guest Editor, ECE Diversity, Leadership, and Perspectives from Abroad, *Electrical and Computer Engineering Department Heads Association (ECEDHA) Source*, May 2016

<http://myemail.constantcontact.com/ECE-Source--May-2016---ECE-Diversity--Leadership--and-Perspectives-from-Abroad.html?soid=1113477036543&aid=-0vnewX5gFQ>

S. M. Lord, “Representation of Women: How Does ECE Compare to Other Engineering Disciplines?” *Electrical and Computer Engineering Department Heads Association (ECEDHA) Source*, November 2017.

<http://myemail.constantcontact.com/ECE-Source--November-2017---ADVANCING-ECE-Diversity.html?soid=1113477036543&aid=LrFew-4FBR4>

**TIP SHEETS**

“Supporting Student Veterans: Advice for Faculty and Administrations”

“Considering College? Advice for Veterans”

“Considering an Engineering Degree? Advice for Veterans”

Available at <https://www.mfri.purdue.edu/resources-and-research/resources/>  (Scroll down to “For Student Veterans and Post-Secondary Staff Members”)

1. # Graduate student co-author (only listed on publications after I received my Ph.D.) [↑](#footnote-ref-1)
2. # Graduate student co-author [↑](#footnote-ref-2)
3. # graduate student co-author [↑](#footnote-ref-3)
4. \* undergraduate student co-author [↑](#footnote-ref-4)
5. \* Undergraduate Student Co-Author [↑](#footnote-ref-5)
6. \* Undergraduate Student Co-Author [↑](#footnote-ref-6)
7. \* Undergraduate Student Co-Author [↑](#footnote-ref-7)
8. # Graduate student co-author (only listed on publications after I received my Ph.D.) [↑](#footnote-ref-8)
9. \* Undergraduate Student Co-Author [↑](#footnote-ref-9)
10. # Graduate student co-author

\* Undergraduate student co-author [↑](#footnote-ref-10)
11. # graduate student co-author [↑](#footnote-ref-11)
12. # Graduate student co-author (only listed on publications after I received my Ph.D.) [↑](#footnote-ref-12)