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College of Engineering

2017-2018

Annual Report



UNIVERSITY OF
ARKANSAS

COLLEGE OF
ENGINEERING

September 1, 2018

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College of Engineering 2017 Annual Report

I. Executive Summary

The past year has seen considerable growth and progress toward the College of Engineering's strategic goals. Our researchers are earning record numbers of awards, our students have excelled at the graduate and undergraduate levels, and our future is bright as we welcome our largest freshman class on record.

Our alumni also continue to find success in academia and industry, earning recognitions and working on the cutting edge of issues in both sectors.

Whether it's Emmanuel Decrossas' work on NASA's CubeSats for Mars, or Alan Fortenberry's leadership in protecting the region's water resources, our graduates continue to increase the prestige of a degree from the University of Arkansas College of Engineering.

Each of these successes is rooted in the pursuit of the University of Arkansas' guiding priorities, especially advancing student success, building a collaborative and innovative campus, enhancing the research and discovery mission and strengthening graduate education.

The College of Engineering also continues to focus on enriching diversity and inclusion through new programs and the improvement of existing ones. We were proud to host chemical engineering alumnus Jakym Battle for a campus-wide discussion on diversity in STEM this year, a critical topic that impacts stakeholders in all sectors.

The College will continue to build upon these successes in the upcoming year, leveraging the momentum gained in research success, alumni achievement, student excellence and other areas to improve life for people in Arkansas and around the world.

II. Summary of Significant Achievements

- It has been a banner year for research in the College of Engineering as our faculty earned seven Faculty Early Career Development Awards, a record for the College and the University of Arkansas. Those seven winners were from six different departments, including two from civil engineering and one each from biological and agricultural, biomedical, computer science and computer engineering, electrical and industrial.

The winners were:

- Biological and Agricultural Engineering: Benjamin Runkle
 - Biomedical Engineering: Timothy Muldoon
 - Civil Engineering: Michelle Bernhardt-Barry and Gary Prinz
 - Computer Science and Computer Engineering: Qinghua Li
 - Electrical Engineering: Yue Zhao
 - Industrial Engineering: Kelly Sullivan
- Biomedical Engineering graduate student Jared Greer has also represented the College of Engineering well as his company, Lapovations LLC, and has broken records for winning startup competitions around the country. This collaboration with the Sam M. Walton College of Business reflects well on both Colleges.

- Ajay Malshe has been elected to the National Academy of Engineering, the highest honor in the engineering profession. While other faculty members have earned this honor, Malshe is the first to be recognized based on his work at the University of Arkansas.
- The College also celebrated a major expansion to the National Center for Reliable Electric Power Transmission, effectively doubling the size of the facility and allowing Distinguished Professor Alan Mantooth to expand on the success of his research, which is a collaboration between multiple universities and industry partners.
- The College of Engineering welcomes seven new faculty members this year – One in mechanical, three in chemical, two in computer science and computer engineering and one in electrical.
- Engineering faculty brought in \$22.3 million in new research grants in the 2018 fiscal year. This is an increase of 17 percent over the previous year, and the second highest year since FY13. In all, faculty earned 149 awards.
- The new undergraduate student body is expected to be approximately 3,420 students, putting the College very near its enrollment goal of 3,500. The class of 2022 includes approximately 820 new freshmen and 200 transfer students, both of which are records.

III. Summary of Achievements in Teaching, Research and Public Service

- The Industrial Engineering Department earned the Daniel E. Ferritor Award for Departmental Excellence in Teaching given by University of Arkansas Teaching Academy and the Office of the Provost.
- Ashlea Milburn was selected for the 2017 Best Paper Award IISE Transactions on Healthcare Systems Engineering.
- Kim Needy received the 2017 Best Paper Award 25th Conference of the International Group for Lean Construction.
- Heather Nachtmann received an additional \$1.4M grant for the Tier 1 UTC grant for MarTREC and was also given the Wellington Award by IISE.
- Greg Parnell was selected to serve as Chairman of a National Academy of Sciences study.
- The Master of Science in Engineering Management degree program graduated its first students in Spring 2018.
- Biomedical Engineering has established partnerships with UAMS-NW and other local clinics to develop a program focused on offering undergraduate students an opportunity to identify and implement real-world medical needs, through an innovative ‘clinical needs finding’ course.
- Yanbin Li, Distinguished Professor of Biological and Agricultural Engineering, was inducted as a 2018 Fellow of the Institute of Biological Engineering.

- Marty Matlock, executive director of UA Sustainability Programs and professor in Biological and Agricultural Engineering, received the 2018 Borlaug CAST Communication Award for outstanding achievement in contributing to the advancement of science in the public policy arena.
- The Ralph E. Martin Department of Chemical Engineering submitted a six-year (and perhaps all-time) high number of research proposals, with 59. The faculty also published a substantially higher number of peer-reviewed publications, 39, as compared to last year (27). This is a rate of 2.8 per T/TT faculty member.
- The Ralph E. Martin Department of Chemical Engineering Department hosted Felecia Nave, Provost at Prairie View A&M University, who gave a talk entitled “I Belong Here: Transforming Engineering Education Environments into Inclusive and Diverse Cultures,” to the U of A community
- The Department of Computer Science and Computer Engineering Department led an effort in its third year aimed at training high school teachers, sponsored by the National Science Foundation.
- The Department of Computer Science and Computer Engineering Department hosted the annual University of Arkansas High School Programming Contest with a record number of participants from across the state.
- Electrical Engineering Department Head Juan Balda received the faculty Lifetime Achievement Award from the Latino Alumni Society.
- After more than two years of work and about \$3.2 million, the National Center for Reliable Electric Power Transmission (NCREPT) had a ribbon cutting to open the 5,000-square-foot expansion. The area will be used for students working on developing smart grid devices and algorithms to help protect the grid.

IV. Summay of Achievements of Students and Alumni

- Jen Pazour, industrial engineering alumna and assistant professor at Rensselaer Polytechnic Institute, received the Logistics & Supply Chain Division Teaching Award at IISE and also won the NSF CAREER Award.
- Industrial Engineering undergrad Emily Matlock was the recipient of the Alpha Pi Mu (APM) Industrial Honor Society Scholarship.
- MSOM alumnus Tony Moreno took command of USS San Antonio (LPD-17).
- Industrial Engineering alumnus Bryan Hill was honored by the University of Arkansas Honors College Award for Distinguished Leadership.
- Kellie Schneider, industrial engineering alumnus and assistant professor at the University of Dayton was given the Miryam Award at University of Dayton for advancing the potential for women’s achievements.
- Gurdeep Singh from the department of biological and agricultural engineering was named New Face of Engineering for 2017 by American Society of Agricultural and Biological Engineers.

- Alan Fortenberry (BSAGE 1972, MSEn.E. 1977), Chief Executive Office of Beaver Water District was recognized as a 2017 Beaver Watershed Guardian for his 20 years of protecting and preserving Beaver Lake.
- America Sotero, M.S. student in biological engineering received the 1st Place Poster Award of AAFP 2017 Graduate Student Poster Competition. She also received the Best Poster Award of ASABE-Arkansas Section 2017 Graduate Student Poster Competition.
- Biomedical Engineering undergraduate Olga Brazhkina was named a 2018 Barry M. Goldwater Scholar.
- Lapovations LLC, a University of Arkansas entrepreneurship team including biomedical engineering graduate student Jared Greer, developed a platform of innovative products that improve minimally invasive surgery, won first place at the Brown-Forman Cardinal Challenge business plan competition in Louisville, Kentucky. A list of other competitions that the team placed at are as follows: Rice Business Plan Competition (2nd Place), Baylor University New Venture Competition (1st Place), The Stu Clark Investment Competition (1st Place), Pitch Texas @ SXSW (1st Place), IBK Capital Ivey Business Plan Competition (2nd Place), Georgia Next Top Entrepreneur (Finalist), Arkansas Governor's Cup (Finalist), and Oregon New Venture Championship (Finalist).
- Chemical Engineering alumnus Jakym Battle, founder of the organization *STEM is the New Black*, gave a talk on “Reshaping the Culture: A Discussion on STEM Culture and Responsibility” to the U of A community in January.
- Chemical Engineering graduate student Karla Morrissey, who is advised by Professor Greg Thoma, received the prestigious Graduate Research Fellowship from the National Science Foundation.
- Four female computer science and computer engineering students attended the Grace Hopper Celebration in 2017, thanks to the generosity of Walmart. The Grace Hopper Celebration is the world's largest gathering of women technologists.
- Two computer science and computer engineering student teams competed in the ACM Collegiate Programming Contest, Mid-Central Competition. Razorback1 (Daniel Hader, Jace McPherson and Joseph Zhang) took first place at the regional site. The Razorback2 team (Trevor Barlett, Tara Moses and Garrett Vanbuskirk) came in fourth.
- Electrical Engineering alumnus Matt Francis, President and CEO of Ozark IC, announced that the company has won over \$1 million in SBIR/STTR awards, and that the company received an award of \$310,000 from the U.S. Department of Energy.
- Electrical Engineering alumnus Emmanuel Decrossas (Ph.D. 2012), is part of the NASA Jet Propulsion Laboratory team that launched new CubeSats to Mars in May 2018.
- Mechanical Engineering student Jason Steck earned the Gold Poster Award at the STLE Annual Meeting for “Mechanical Properties of Nanostructures.”

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APPENDIX A

FACULTY HONORS 2017-2018 COLLEGE OF ENGINEERING

COLLEGE OF ENGINEERING OUTSTANDING TEACHER

Tom Costello, Biological & Agricultural Engineering
Narasimhan Rajaram, Biomedical Engineering
Shannon Servoss, Chemical Engineering
Andrew Braham, Civil Engineering
John Gauch, Computer Science and Computer Engineering
Morgan Ware, Electrical Engineering
Ashlea Milburn, Industrial Engineering
Arun Nair, Mechanical Engineering

COLLEGE OF ENGINEERING OUTSTANDING RESEARCHER

Jin-Woo Kim, Biological & Agricultural Engineering
Kyle Quinn, Biomedical Engineering
Lauren Grennlee, Chemical Engineering
Gary Prinz, Civil Engineering
Jia Di, Computer Science and Computer Engineering
Alan Mantooth, Electrical Engineering
Art Chavalitwongse, Industrial Engineering
Min Zou, Mechanical Engineering

COLLEGE OF ENGINEERING OUTSTANDING SERVICE TO STUDENTS

Brian Haggard, Biological & Agricultural Engineering
Kartik Balachandran, Biomedical Engineering
Jamie Hestekin, Chemical Engineering
Kevin Hall, Civil Engineering
Gordon Beavers, Computer Science and Computer Engineering
Samir El-Ghazaly, Electrical Engineering
Sarah Nurre, Industrial Engineering
Steve Tung, Mechanical Engineering

UNIVERSITY & COLLEGE AWARDS

Ed Clausen	2017-18 John Imhoff Outstanding Teaching Award
Min Zou	2017-18 John Imhoff Outstanding Research Award
Chase Rainwater	2017-18 Collaborative Research Faculty Award
Paul Millett	2017-18 Rising Star Award
Ben Runkle	2017-18 Rising Teaching Award
Kevin Hall	2017-18 Outstanding Public Service Award

APPENDIX B

2017-2018 COLLEGE OF ENGINEERING STUDENT HONORS

COLLEGE OF ENGINEERING OUTSTANDING SENIOR

Rachel Holmer Industrial Engineering

DEPARTMENTAL OUTSTANDING SENIORS

Ali Ezell Biological and Agricultural Engineering
Maria Zeballos Biomedical Engineering
Phillip Braden Chemical Engineering
Mark Howard Computer Science Computer Engineering (CE)
Luke Snyder Computer Science Computer Engineering (CS)
Vanessa Lebow Civil Engineering
Brandon Dyer Electrical Engineering
Rachel Holmer Industrial Engineering
Abigail Bishop Mechanical Engineering

COLLEGE OF ENGINEERING SENIOR SCHOLARS

Molly Churchwell Chemical Engineering
Lauren Clark Chemical Engineering
Brandon Dyer Electrical Engineering
Ethan Echols Biomedical Engineering
Zachary Fletcher Computer Science Computer Engineering (CS)
Casey Gibson Biological and Agricultural Engineering
Olivia Goss Industrial Engineering
Rachel Holmer Industrial Engineering
Suzana Ivandic Chemical Engineering
Justin Jack Mechanical Engineering
Wassim Khalil Computer Science Computer Engineering (CE)
John Mills Mechanical Engineering
Jackson Mosley Biomedical Engineering
Will Richardson Biological and Agricultural Engineering
Dakota Rusk Chemical Engineering
Noah Spear Mechanical Engineering
Evin Spears Chemical Engineering
Anthony Woods Industrial Engineering
Maria Zeballos Biomedical Engineering

COLLEGE OF ENGINEERING FIRST RANKED SENIOR SCHOLARS

Ali Ezell	Biological and Agricultural Engineering
Anna Hudgeons	Industrial Engineering
Luke Snyder	Computer Science Computer Engineering (CE)
David Wiggins	Biomedical Engineering
Walker Wiggins	Biomedical Engineering

PORTER STONE CO-OP AWARDS

Jeremy Meyer	Mechanical Engineering
Richard Tran	Electrical Engineering
Clayton Wilkins	Electrical Engineering

PRESIDENTIAL SCHOLAR

Nicole Hayes	Industrial Engineering
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I. Books (alphabetized by the first UA author, add rows as necessary)

Authors (Bold first UA author)	Book Title	Publisher	Place of Publication	Publication Date
Ricke, S., G. Atungulu, C. Rainwater and S. Park	Food and Feed Safety Systems and Analysis	Academic Press	Cambridge, MA	2017
Griffiths G. Atungulu , Gbenga. A. Olatunde & Sammy Sadaka.	Rice Aeration: Fundamentals and Principles.	DEStech Publications, Inc.		In press
Jensen, HA , Martin, E.M., Jensen, M., Romeo, F., Di Carlo, A., Kim, J.-W. & Mehta, J.L.	Nanotechnology-based stem cell applications and imaging. <i>In: Imaging in Stem Cell Transplant and Cell-based Therapy.</i>	T. Pandey (ed). Springer.		2017
Jong, Ing-Chang	SOLUTIONS MANUAL To Accompany ENGINEERING MECHANICS: STATICS, Second Edition	Great River Learning	Dubuque, Iowa	2017
Jong, Ing-Chang	SOLUTIONS MANUAL To Accompany ENGINEERING MECHANICS: DYNAMICS, Second Edition	Great River Learning	Dubuque, Iowa	2017
Luoni, S. , M. Matlock, et al.,	Conway Urban Watershed Framework Plan.	Oro Editions, ISBN – 978-1-939621-81-8	San Francisco, CA.	2017
Matthew J. Patitz and Mike Stannett (editors)	Unconventional Computation and Natural Computation - 16th International Conference, UCNC 2017, Fayetteville, AR, USA, June 5-9, 2017, Proceedings. Lecture Notes in Computer Science 10240	Springer		2017
Parnell, G. S. , Editor	Trade-off Analytics: Creating and Evaluating the Tradespace ISBN-13: 978-1119237532 ISBN-10: 111923753X	Wiley Series in Systems Engineering and Management, Wiley & Sons	Hoboken, NJ	2017

I. Book Chapters (alphabetized by the first UA author, add rows as necessary)

Authors (Bold first UA author)	Chapter Title	Book Title	Publisher	Place of Publication	Publication Date
Grande-Allen KJ, Puperi D, Ravishankar P, Balachandran K.	Mechanobiology: Exploitation for Medical Benefit.	Aortic Valve Mechanobiology – from Organs to Cells in Mechanobiology	Wiley		2017
Ricke, S., J. Hacker, K. Yearkey, Z. Shi, S. Park and C. Rainwater	Unraveling Food production Microbiomes: Concepts and Future Directions	Food and Feed Safety Systems and Analysis, Chapter 19, p. 347-374	Elsevier	Cambridge, MA	2017
Thompson, D., C. Rainwater , J. Di and S. Ricke	Student Cross-Training Opportunities for Combining Food, Transportation, and Critical Infrastructure Cybersecurity Into an Academic Food Systems Education Program	Food and Feed Safety Systems and Analysis, Chapter 20, p. 375-391	Elsevier	Cambridge, MA	2017
Couvillion, Rick	Fluid Flow	2017 ASHRAE Handbook - Fundamentals	ASHRAE		Jun-17
Couvillion, Rick	Heat Transfer	2017 ASHRAE Handbook - Fundamentals	ASHRAE		Jun-17
Couvillion, Rick	Phase Flow	2017 ASHRAE Handbook - Fundamentals	ASHRAE		Jun-17
Couvillion, Rick	Mass Transfer	2017 ASHRAE Handbook - Fundamentals	ASHRAE		Jun-17
Couvillion, Rick	Material Properties	2017 ASHRAE Handbook - Fundamentals	ASHRAE		Jun-17
Hamidi, M.* and H. Liao	Maintenance Outsourcing Contracts Based on Bargaining Theory	Optimization and Dynamics with Their Applications, Chapter 12, p. 257-279 Edited by Matsumoto, A.	Springer International Publishing	Singapore	2017

Alfaori Q, Saxena A, Jensen HA, Jensen MO	<i>Advances in Structural Integrity</i>				2017
Li, Y. , and R. Wang	Aptasensors for Detection of Avian Influenza Virus H5N1.P. 379-402	In: Methods in Molecular Biology – Biosensor and Biodetection	Springer	New York, NY.	2017
Liao, H. , Y. Zhang and H. Guo	An Erlang-Coxian-Based Method for Modeling Accelerated Life Testing Data	Advances in Through-Life Engineering Services, Chapter 11, p. 165-186 Edited by Redding, L., Roy, R. and Shaw, A.	Springer International Publishing	Switzerland	2017
Hanna A. Jensen, Elizabeth M. Martin, Morten O. Jensen , Francesco Romeo, Aldo Di Carlo, Jin-Woo Kim, and Jawahar L. Mehta	Stem Cell Biology and Regenerative Medicine		Springer International Publishing		2017
Jones J, Belov V, Quinn KP*	Bioengineering in Wound Healing: A Systems Approach		Golberg A, Yarmush ML, Eds., World Scientific Publishing Co. Pte. Ltd		2017
Sadaka, Sammy	Rice Drying and Storage Extension	Rice handling Book	Division of Agricultural: Extension	Little Rock, AR	2017

IIIa. Refereed Journal Articles (alphabetized by the first UA author, add rows as necessary)

Authors (Bold first UA author)	Article Title	Journal Title	Publication Date	Volume	Number	Pages
Kilinc, M., A. B. Milburn , J. Heier Stamm	Measuring potential spatial accessibility of home healthcare services	Socio-Economic Planning Sciences	2017	59		13-25
Gedik, R., E. Kirac, A. B. Milburn , C. Rainwater	A constraint programming approach for the team orienteering problem with time windows	Computers & Industrial Engineering	2017	107		178-195
Brennon, R., A. Sharpley , others, and B.E. Haggard	Linking soil erosion to instream dissolved P cycling and periphyton growth	Journal of the American Water Resources Association	2017	53	4	809-821
AC Deymier, AK Nair , B Depalle, Z Qin, K Arcot, C Drouet, CH Yoder, Markus J Buehler, Stavros Thomopoulos, Guy M Genin, Jill D Pasteris	Protein-free formation of bone-like apatite: New insights into the key role of carbonation	Biomaterials	May-17	127		75-88
Alsaman, A. , Dang, C., Prinz, G., Hale, W.	Evaluation of Modulus of Elasticity of Ultra-High Performance Concrete	Construction & Building Materials	2017	153		918-928

Alsaman, A., Dang, C., Hale, W.	Development of Ultra-High Performance Concrete using Locally Available Materials	Construction and Building Materials	2017	133		133-145
Ashok Saxena, Federico Bassi, Kevin Nibur, and James C. Newman	On Single Edge Crack Tension Specimen for Tension-Compression Fatigue Crack Growth Testing	Engineering Fracture Mechanics	May-17	176		343-370
Atungulu, G. G., Olatunde, G., & Sadaka, S	Simulation of Equilibrium Moisture Content Controlled Natural Air, In-bin drying and Storage of Soybean Seed for Arkansas Weather Conditions.	Arkansas Soybean Research Studies	2017			https://tinyurl.com/y76lx4cl
Atungulu, G. G., Olatunde, G., & Sadaka, S.	Impact of rewetting and drying of rough rice on predicted moisture content profiles during in-bin drying and storage	Drying Technology,	2017			1-9. https://tinyurl.com/ybkfkukj
Austin, B.J., E. Scott, others, and B.E. Haggard.	Unconventional natural gas development did not result in detectable changes in water chemistry (within the South Fork Little Red River).	Environmental Monitoring and Assessment	2017	189		209-222
Q. Yaseen, Y. Jararweh, B. Panda, Q. Althebyan	An Insider Threat Aware Access Control for Cloud Relational Databases	Cluster Computing - The Journal of Networks, Software Tools and Applications	Sept. 2017	20	3	

Heeren, D.M., G.A. Fox, others, and B.E. Haggard	Impact of macropores and gravel outcrops on phosphorus leaching at the plot scale in silt loam soils	Transactions ASABE	2017	60	3	823-835
Longing, S.D., L.A. Mack, and B.E. Haggard	Bioassessment of four karst springs at Hobbs State Park – conservation area with a focus on diving beetle (Dytiscidae: Hydroporinae) species of concern.	Journal of Arkansas Academy of Science	2017	71		8-Jan
Lam NT, Lam H, Sturdivant NM, Balachandran K	Fabrication of a matrigelcollagen semiinterpenetrating scaffold for use in dynamic valve interstitial cell culture	Biomedical Materials	2017	12	4	
Perez J, Diaz N, Tandon I, Plate R, Martindale C, Balachandran K	Elevated Serotonin Interacts with Angiotensin-II to Result in Altered Valve Interstitial Cell Contractility and Remodeling	Cardiovascular Engineering and Technology	2017			

Khang A, Ravishankar P, Krishnaswamy A, Anderson PK, Cone SG, Liu Z, Qian X, Balachandran K	Engineering Anisotropic Biphasic Janus-type Polymer Nanofiber Scaffold Networks via Centrifuga Jet Spinning	Journal of Biomedical Materials Research – Part B	2017	105	8	2455-2464
Rosas-Hernandez H, Cuevas E, Escuero- Lourdes C, Lantz SM, Gomez- Crisostomo P, Sturdivant NM, Balachandran K , Imam SZ, Slikker Jr. W, Paule MG, Ali SF.	Characterization of biaxial stretch as an in vitro model of traumatic brain injury to the blood-brain barrier	Molecular Neurobiology	2017			
Tran, T., Tucker- Kulesza, S. E., Bernhardt-Barry, M.	Determining Surface Roughness in Erosion Testing Using Digital Photogrammetry	Geotechnical Testing Journal	2017	46	6	917 - 927
Wang, W., Zhang, A., Wang, K., Braham, A. , Qiu, S.	Pavement Crack Width Measurement Based on Laplace’s Equation for Continuity and Unambiguity,	Computer Aided Civil and Infrastructure Engineering	2017	33	2	110-123
Knapp, T., K. Kovacs, Q. Huang, C. Henry , R. Nayga, J. Popp, B. Dixon.	Willingness to pay for irrigation water when groundwater is scarce.”	Agricultural Water Management	2017	195		133-141

Bryant, C.J., L. J. Krutz, L. Falconer, J.T. Irby, C.G. Henry , H.C. Pringle III, M.E. Henry, D.P. Roach, D.M. Pickelmann, R.L. Atwill and C. W. Wood.	Irrigation Water Management Practices that Reduce Water Requirements for Mid-South Furrow Irrigated Soybean	Crop, Forage and Turfgrass Management	2017	3		doi:10.2134/cftm2017.04.0025
Alaswad, S., C.R. Cassady , E.A. Pohl, and X. Li	A Model of System Availability under Imperfect Maintenance	Journal of Quality in Maintenance Engineering	2017	23	4	415-436
Hill, B.W., B.A. Pesnell, P.D. Ward, V.A. Rhame, J.S. Beers, K.L. Dougan, C.S. Gattis , E.A. Specking and E.C. Clausen,	UASEP: Introducing K-4 Students (and Teachers) to STEM	Transactions on Techniques in STEM Education	2017	2	4	11-Apr
Carmack JM , Millett PC	Diverse morphologies in thin-film bijels by varying film thickness and composition	Soft Matter	Apr-17	13		4214-4223
Chaovalitwongse, W. , D. Won, O. Seref, P. Borghesani, M.K. Askren, S. Willis, and T.J. Grabowski	Optimization of Local Network Connectivity of Functional Brain Imaging to Detect Biomarkers of Cognitive Decline	IEEE Transactions on Neural Systems & Rehabilitation Engineering (IF = 3.410)	2017	25	7	1079–1089
Choudhury, D. , Lackner, J., Fleming, R.A., Goss, J., Chen, J., and Zou, M.	Diamond-like carbon coatings with zirconium-containing interlayers for orthopedic implants	Journal of the Mechanical Behavior of Biomedical Materials	Apr-17	68		51-61

Churchill, H. O. H., G. J. Salamo, S.-Q. Yu, T. Hironaka, X. Hu, J. Stacy, I. Shih	Toward Single Atom Chains with Exfoliated Tellurium	Nanoscale Research Letters	2017	12:488, DOI 10.1186/s 11671- 017-2255- x		
Howard, T.V., J.R. Dunklin, G.T. Forcherio, and D.K. Roper.	Thermoplasmonic dissipation in gold nanoparticle- polyvinylpyrrolidone thin films.	RSC Advances	2017	7	8	56463- 56470
G.T. Forcherio, J. Riporto, J. R. Dunklin, Y. Mugnier, R. Le Dantec, L. Bonacina, and D.K. Roper.	Nonlinear optical susceptibility of two- dimensional WS ₂ measured by Hyper Rayleigh Scattering	Optics Letters	2017	42	23	5018-5021
S. Lankford, D.R. Thompson, and S.C. Ricke	Simulating foodborne pathogens in poultry production and processing to defend against intentional contamination	Journal of the Arkansas Academy of Science		71		
Dang, C., Hale, W., Vargas, J.	Assessment of Transmission Length of Prestressing Strands According to fib Model Code 2010	Engineering Structures	2017	147		425-433
Pozrikidis, Constantine and David M. Ford.	Conductive transport through a mixed-matrix membrane	Journal of Engineering Mathematics	2017	105	1	189-202. doi:10.1007/ s10665-016- 9889-z

Deschenes, Jr., R., Murray, C., Hale, W.	Mitigation of ASR and Freezing and Thawing through Surface Treatment	ACI Materials Journal	2017	114	2	307-314
Deschenes, Jr., R., Hale, W.	Alkali-Silica Reaction (ASR) in Concrete with Previously Inert Aggregates	ASCE Journal of Performance of Constructed Facilities	2017	31	2	4016084
Lopez, A. M.; Williams, M.; Paiva, M.; Demydov, D.; Do, T. D. ; Fairey, J. L.; Lin, Y. P.; Hestekin, J. A	Potential of electro-dialytic techniques in brackish desalination and recovery of industrial process water for reuse.	Desalination	2017	409	5	108-114
Talafuse, T., E. Pohl	Small Sample Reliability Growth Modeling Using a Grey Systems Model	Quality Engineering	2017	29	3	455-467
Evans, M. R., Jackson, B. E., Popp, M., & Sadaka, S.	Chemical Properties of Biochar Materials Manufactured from Agricultural Products Common to the Southeast United States	HortTechnology	2017	27	1	16-23. https://tinyurl.com/ya7535av
Chen, C., Y. Chen, Y. Kang, F. Luo	On the Practical Design of a High Power Density SiC Single-Phase Uninterrupted Power Supply (UPS) System	IEEE Trans. Indus. Inform.	2017	13		2704-2716

Wang, M., F. Luo , L. Xu	A Double-End Sourced Wire-Bonded Multi-Chip SiC MOSFET Power Module with Improved Dynamic Current Sharing	IEEE Journal of Emerging and Selected Topics in Power Electronics	2017	5		1828-1836
Fleming, R.A. and Zou, M.	Material Dimensionality Effects on the Nanoindentation Behavior of Al/a-Si Core-Shell Nanostructures	Applied Surface Science	Aug-17	412		96-104
Fleming, R.A. and Zou, M.	The Effects of Confined Core Volume on the Mechanical Behavior of Al/a-Si Core-Shell Nanostructures	Acta Materialia	Apr-17	128		149-159
Cilli, M., G. Parnell , R. Cloutier, and T. Zighd	Measuring Perceived Risk of Pitfalls Associated with Systems Engineering Tradeoff Analyses	Engineering Management Research	2017	6		68-83
Zhang , Y., Y. Wu, X. Wang, E. R. Fossum, R. Kumar, J. Liu, G. Salamo , and S.-Q. Yu	Non-avalanche single photon detection without carrier transit-time delay through quantum capacitive coupling	Optics Express	2017	25	10	3517-3528
Tichenor, N.E., Peters, C.J., Norris, G.A. , Thoma, G. , Griffin, T.S.,	Life cycle environmental consequences of grass-fed and dairy beef production systems in the Northeastern United States	J. Clean. Prod.	2017	142		1619-1628. DOI:10.1016/j.jclepro.2016.11.138

Pierson, Harry A. and Gashler, M.	Deep Learning in Robotics: A Review of Recent Research	Advanced Robotics	2017	31	16	821-835
Ghetmiri, S. A., Y. Zhou, J. Margetis, S. Al-Kabi, W. Dou, A. Mosleh, W. Du, A. Kuchuk, J. Liu, G. Sun, R. A. Soref, J. Tolle, H. A Naseem , B. Li, M. Mortazavi, S.-Q. Yu	Study of a SiGeSn/GeSn/SiGeSn structure toward direct bandgap type-I quantum well for all group-IV optoelectronics	Optics Letters	2017	42	3	387-390
Roy, S., R. C. Murphree, A. Abbasi, A. Rahman, A. Gattis, S. Ahmed, A. M. Francis, J. Holmes, H. A. Mantooth , J. Di	A SiC CMOS Digitally Controlled PWM Generator for High-Temperature Applications	IEEE Trans. On Industrial Electronics	2017	64	10	8364-8372
Rahman, A., L. Caley, S. Roy, N. Kuhns, H. A. Mantooth , J. Di, A.M. Francis, J. Holmes	High Temperature Data Converters in Silicon Carbide CMOS	IEEE Trans. On Electron Devices	2014	64	4	1426-1432
Seal, S., M. D. Glover, H. A. Mantooth	3D Wire Bondless Switching Cell Using Flip-chip Bonded Silicon Carbide Power Devices	IEEE Trans. On Power Electronics	2017	DOI: 10.1109/TPEL.2017.2782226		

Seal, S., and H. A. Mantooth	High Performance Silicon Carbide Power Packaging – Past Trends, Present Practices, and future Directions	Energies (MDPI Open Access Energy Research, Engineering and Policy Journal)	2017	10	0.36181	30-Jan
Zhu, N., M. Xu, H. A. Mantooth	A Solution of Press-Pack packaging of SiC MOSFETs	IEEE Trans. On Industrial Electronics	2017	64	10	8224-8234
Alharthi, B., J. Margetis, H. Tran, S. Al-Kabi, W. Dou, S. A. Ghetmiri, A. Mosleh, J. Tolle, W. Du, M. Mortazavi, B. Li, H. A. Naseem , and S.-Q. Yu	Study of material and optical properties of SixGe1-x-ySny alloys for Si-based optoelectronic device applications	Optical Materials Express	2017	7	10	3517-3528
Al-Zoubi, O. H., H. A. Naseem	Enhancing the Performance of the Microwave Absorbing Materials by Using Dielectric Resonator Arrays	Modelling and Simulation in Engineering, Hindawi	2017	2017		Article ID 3658247, 8 pages
Grant, P. C., W. Dou, B. Alharthi, J. M. Grant, A. Mosleh, W. Du, B. Li, M. Mortazavi, H. A. Naseem , S-Q Yu	Comparison study of the low temperature growth of dilute GeSn and Ge	Journal of Vacuum Science & Technology B, Nanotechnology and Microelectronics: Materials, Processing, Measurement, and Phenomena B	2017	35	6	061204, https://doi.org/10.1116/1.4990773

Margetis, J., A. Mosleh, S. Al-Kabi, S.A. Ghetmiri, W. Du, W. Dou, M. Benamara, B. Li, M. Mortazavi, H. A. Naseem , S-Q Yu, J Tolle	Study of low-defect and strain-relaxed GeSn growth via reduced pressure CVD in H2 and N2 carrier gas	Journal of Crystal Growth	2017	463		128-133
Limon, S., O.P. Yadav, and H. Liao	A Literature Review on Planning and Analysis of Accelerated Testing for Reliability Assessment	Quality and Reliability Engineering International	2017	33	8	2361-2383
Jin, T., H. Taboada, J. Espiritu, and H. Liao	Allocation of Reliability- Redundancy and Spares Stock under Uncertain Fleet Expansion	IISE Transactions	2017	49	7	737-751
Shahraki, A.F., O.P. Yadav, and H. Liao	A Review on Degradation Modeling and Its Engineering Applications	International Journal of Performability Engineering,	2017	13	3	299-314
Hu, J., Z. Jiang, and H. Liao	Preventive Maintenance of a Batch Production System under Time-Varying Operational Condition	International Journal of Production Research	2017	55	19	5681-5705
Hu, J., Z. Jiang, and H. Liao	Preventive Maintenance of a Single Machine System Working under Piecewise Constant Operating Condition	Reliability Engineering & System Safety	2017	168		105-115

Fathi Aghdam, F., H. Liao , and Q. Huang	Modeling Interaction in Nanowire Growth Process toward Improved Yield	IEEE Transactions on Automation Science and Engineering	2017	14	2	1139 - 1149
Sun, F., X. Li, H. Liao , and X. Zhang	A Bayesian LS-SVM Method for Predicting the Remaining Useful Life of a Microwave Component	Advances in Mechanical Engineering	2017	9	1	9-Jan
Li, R., M. Li, H. Liao , and N. Huang	An Efficient Method for Evaluating the End-to-End Transmission Time Reliability of a Switched Ethernet	Journal of Network and Computer Applications	2017	88		124-133
Liu, Y., C. Farnell, H.A. Mantooh , R. McCann, J.C. Balda	A Variable Inductor Based LCL Filter for Large-Scale Microgrid Application	IEEE Transactions on Power Electronics	2017	DOI: 10.1109/TPEL.2017.2764483		
Oztanriseven, Furkan, and Heather Nachtmann	Economic Impact Analysis of Inland Waterway Disruption Response	The Engineering Economist	2017	62	1	73-89
(in-press) Henry, C. G. G. M. Sarzi Sartori , J. P. Gaspar, E. Marchesan, S. M. Hirsh, A. P. Horton, L. Espinoza and H. James.	Deep Tillage and Gypsum Amendments on Fully, Deficit Irrigated, and Dryland Soybean.	Agronomy Journal	2017	110	2	Doi:10.2134/agronj2015.11.0567

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Hernandez, S.	Estimation of Average Payloads from Weigh-in- Motion (WIM) Data	Transportation Research Record: Journal of the Transportation Research Board	2017	2644		39-47
Mahmoudi, N., Reed, L., Moix, A., Alshammari, N., Hestekin, J. , and Servoss, S. L.	PEG-mimetic peptoid reduces protein fouling of polysulfone hollow fibers	Colloids and Surfaces B: Biointerfaces	2017	149		23-29
Lopez, A. M., Demydov, D., Rodgers, B., Cleous, H., Tran, L., Smith, C., Williams, M., Schmelzle, J., and Hestekin, J. A.	Economic comparison of pressure driven membrane processes to electrically driven processes for use in hydraulic fracturing	Separation Science and Technology	2017			10-Jan
Lopez, A. M., Williams, M., Paiva, M., Demydov, D., Do, T. D., Fairey, J. L., Lin, Y. P., and Hestekin, J. A.	Potential of electrodialytic techniques in brackish water desalination and recovery of industrial process water for reuse	Desalination	2017	409		108-114
Hill JD , Millett PC	Numerical simulations of directed self-assembly in diblock copolymer films using zone annealing and pattern templating	Scientific Reports	Jul-17	7	5250	DOI:10.1038/s41598-017-05565-w

Holloway, L., Z. Qu, M. Mohr-Schroeder, J. Balda , A. Benigni, D. Collivier, P. Dolloff, R. Dougal, M. Faruque, Z. Fei, Y. Liao, R. McCann, M. Nelms, V. Singh, A. Vosoughi, Q. Zhou	A Multi-Institutional Approach to Delivering Shared Curricula for Developing a Next-Generation Energy Workforce	IEEE Access(5)	2017			1416-1427
J. Di , B. Bell, W. Bouillon, J. Brady, T. Le, C. Lo, L. Men, S. Nelson, F. Sabado, and A. Suchanek	Recent Advances in Low Power Asynchronous Circuit Design	Journal of Low Power Electronics	Sept. 2017	13	3	280-297
Z. Guo, J. Di , M. Tehranipoor, and D. Forte	Obfuscation-Based Protection Framework against Printed Circuit Boards Unauthorized Operation and Reverse Engineering	ACM Transactions on Design Automation of Electronic Systems	Apr-17	22	3	
Mance, Barker and J. R. Chimka	Modeling reliability with a two-sided power distribution	Quality Engineering	2017	29	4	643-655
Needham, J. R. Chimka , De Volder and Fairey	THM, DHAN and TONO precursor adsorption by modified CNT and CNT micropillars	Environmental Science: Water Research & Technology	2017	3	6	1042-1051

Needham, Fernandez, J. R. Chimka and Fairey	Revealing a size-resolved fluorescence-based metric to track oxidative treatment of TONO precursors in waters from wastewater treatment plants	Environmental Science & Technology Letters	2017	4	6	228-333
Gattis, J. R. Chimka and Evans	Access spacing based on turning-vehicle acceleration	Transportation Research Record	2017	2618		7-Jan
Cai, D., J. Wu , J. Yang, and P. Fan	Optimum spectral and energy efficiency tradeoff in a two-user Gaussian interference channel	IEEE Wireless Comm. Lett	2017	DOI: 10.1109/T VT.2017.2 772856		
Hu, D., J. Wu , and P. Fan	Maximizing end-to-end throughput of interference-limited multi-hop networks	IEEE Trans. Veh. Technol.	2017	DOI: 10.1109/T VT.2017.2 772856		
Wang Z., J. Yang, and J. Wu	Level set estimation of spatial-temporally correlated random fields with active sparse sensing	IEEE Trans. Aero. Electro. Syst.	2017	53		862-876
Wu, X., J. Yang, and J. Wu	Optimal status update for age of information minimization with an energy harvesting source	IEEE Trans. Green Commun Networking	2017	DOI:10.1109/TGCN.2017.2778501		

Wu, X., J. Zhu , H. Lin	In-depth observations of fermentative hydrogen production from liquid swine manure using an Anaerobic Sequencing Batch Reactor	Journal of Integrative Agriculture	2017	16	6	1276-1285
Shen, J., J. Zhu .	Development of general Gompertz models and their simplified two-parameter forms based on specific microbial growth rate for microbial growth, bio-products and substrate consumption	Advances in Biotechnology & Microbiology	2017	4	3	555640. DOI: 10.19080/ AIBM.2017 .04.555640.
Shen, J., J. Zhu .	Methane production in an upflow anaerobic biofilm digester from leachates derived from poultry litter at different organic loading rates and hydraulic retention time	Journal of Environmental Chemical Engineering	2017	5		5124-5130
Wu, X., J. Zhu , L. Chen	Feeding schemes and C/N ratio of a lab-scale step-fed sequencing batch reactor for liquid swine manure treatment	J. Environ. Sci. Health Part A.	2017	52	8	718-726. doi: 10.1080/109 34529.2017. 1301748.

Shen, J., J. Zhu	Modeling kinetics of anaerobic co-digestion of poultry litter and wheat straw mixed with municipal wastewater in a continuously mixed digester with biological solid recycle using batch experimental data.	Chemical Engineering Communications	2017	204	4	501-511
Shen, J. and J. Zhu	Kinetics of batch anaerobic co-digestion of poultry litter and wheat straw including a novel strategy of estimation of endogenous decay and yield coefficients using numerical integration	Bioprocess and Biosystems Engineering	2016	39	10	1553-1565. DOI 10.1007/s00449-016-1630-9.
García Rodriguez, L.A., V. Jones, A.R. Oliva, A. Escobar Mejía, J.C. Balda	A New SST Topology Comprising Boost Three-Level AC/DC Converters for Applications in Electric Power Distribution Systems	IEEE Journal of Emerging and Selected Topics in Power Electronics	2017	5	2	735-746. 10.1109/JES TPE.2017.2677523
Stephens SE, Liachenko S, Ingels NB, Wenk JF, Jensen MO	High resolution imaging of the mitral valve in the natural state with 7 Tesla MRI	PLoS ONE	2017	12	8	e0184042

Skov SN, Ropcke DM, Tjornild MJ, Ilkjaer C, Rasmussen J, Nygaard H, Hasenkam JM, Jensen MO , Nielsen SL	Remodeling Mitral Annuloplasty Ring Concept with Preserved Dynamics of the Annular Height	J Heart Valve Dis.	2017	26	3	295-303
Skov SN, Røpcke DM, Tjørnild MJ, Ilkjær C, Rasmussen J, Nygaard H, Jensen MO , Nielsen SL	The effect of different mitral annuloplasty rings on valve geometry and annular stress distribution	Interact CardioVasc Thorac Surg.	2017	24		683-690
Skov SN, Ropcke DM, Tjornild MJ, Ilkjaer C, Rasmussen J, Nygaard H, Jensen MO , Nielsen SL	Semi-rigid Mitral Annuloplasty Rings Improves Myocardial Stress Adaptation Compared to a Rigid Ring	European Journal of Cardiothoracic Surgery (EJCTS)	2017	51	5	836-843
Grbic S, Easley TF, Mansi T, Bloodworth CH, Pierce EL, Voigt I, Neumann D, Krebs J, Yuh DD, Jensen MO , Comaniciu D, Yoganathan AP	Personalized Mitral Valve Closure Computation and Uncertainty Analysis from 3D Echocardiography	Medical Image Analysis Volume	2017	35		238-249
Easson G, Laughlin M, Jensen H, Haney K, Girardot M, Jensen MO	Development of an in Vitro System for Physiological Testing of Native and Prosthetic Venous Valves	Journal of Phlebology	2017	32	2	33-36
Bloodworth CH, Pierce EL, Easley TF, Drach A, Khalighi AH, Toma M, Jensen MO , Sacks MS, Yoganathan AP	Ex Vivo Methods for Informing Computational Models of the Mitral Valve	Annals of Biomedical Engineering (ABME)	2017	45	2	496-507

Kandhola, G., Rajan, K., Labbe, N., Chmely, S., Heringer, N., Kim, J.-W., Hood, E.E. & Carrier, D.J.	Beneficial effects of Trametes versicolor pretreatment on saccharification and lignin enrichment of organosolv- pretreated pinewood	RSC Adv. RSC Advances 7	2017			45652- 45661. [JIF: 3.108]
Kandhola, G., Djiouleu, A., Carrier, D.J. & Kim, J.-W.	Pretreatments for enhanced enzymatic hydrolysis of pinewood: a review.	Bioenergy Res.	2017	10, 1138- 1154		DOI: 10.1007/s12 155-017- 9862-3. [JIF: 2.487]
Mosleh, A., Heintz, A., Lim, K.-T., Kim, J.-W. & Beitle, R.	Permeability enhancement of Escherichia coli by single- walled carbon nanotube treatment.	Biotechnol. Prog	2017	33		654-657 (2017). DOI: 10.1002/btp r.2443. [JIF: 2.167]
Park, S., Choi, K.S., Kim, D., Kim, W., Lee, D., Kim, H.-N., Lim, K.-T., Kim, J.- W. , Kim, Y.-R. & Kim, J. (in press)	Controlled extracellular topographical and chemical cues for acceleration of neuronal development.	Journal of Industrial and Engineering Chemistry				DOI: 10.1016/j.jie c.2017.12.0 01 [JIF: 4.421]
Lee, J.-H., Lee, S.H., Baek, C., Chun, H.- S., Ryu, J.-H., Kim, J.-W. , Deaton, R. & Zhang, B.-T.	In vitro molecular machine learning algorithm via symmetric internal loops of DNA.	Biosystems	2017	158		1/9/2018. DOI: 10.1007/s10 404-017- 1939-y. [JIF: 2.537]

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M. Abolhassani, C.S. Griggs, L. Gurtowski, J. Mattei-Sosa, M. Nevins, V.F. Medina, L.F. Greenlee	Scalable Chitosan-Graphene Oxide Membranes: The effect of GO size on properties and cross-flow filtration performance.	ACS Omega	2017	2	12	8751-8759. DOI: 10.1021/acs omega.7b01 266.
I.A. Ike, S.L. Foster, S.R. Shinn, S.T. Watson, J.D. Orbell, L.F. Greenlee , M. Duke.	Influence of casting solution viscosity on membrane pure water flux for nanoparticle-embedded PES membranes	Journal of Environmental Chemical Engineering	2017	5		4014-4023. DOI: 10.1016/j.je ce.2017.07. 069
L.F. Greenlee , P. Acharya, Z. Nelson.	Compositional Optimization of Alloy $Fe_xNi_y(OH)_2$ Nanoparticles for Alkaline Electrochemical Oxygen Evolution	ECS Transactions	2017	77		25-38. DOI: 10.1149/077 09.0025ecst
S. Candelaria, N.M. Bedford, A.R. Showalter, S. Pylypenko, B.A. Bunker, S. Lee, B. Reinhart, Y. Ren, S.P. Ertem, E.B. Coughlin, N.A. Sather, J.L. Horan, A.M. Herring, L.F. Greenlee	Multi-Component Fe-Ni Hydroxide Nanocatalyst for Oxygen Evolution and Methanol Oxidation Reactions under Alkaline Conditions.	ACS Catalysis	2017	7		365-379. DOI: 10.1021/acs catal.6b025 52

S.J. Wilson, L.F. Greenlee	Post-Synthesis Separation and Storage of Zero-Valent Iron Nanoparticles	Journal of Nanoscience and Nanotechnology	2017	17		2413-2422. DOI: doi.org/10.1166/jnn.2017.13041
Lasater, A.L., and B.E. Haggard	Sediment phosphorus flux at Lake Tenkiller, Oklahoma: How important are internal sources?	Agricultural and Environmental Letters	2017			2:170017
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Liang, Y., L. Qiu, J. Zhu, J. Pan.	A digester temperature prediction model based on the Elman neural network.	Applied Engineering	2017	33	2	142-148. DOI 10.13031/aea.11157
Luo, F., R. Kaplar, A. Mantooth	WiPDA Focuses on Device Development and Applications	IEEE Power Electronics Magazine	2017	4	1	68-69
Luthra, K., Y. Liang, J. R. Andress, T. A. Costello, S.E. Watkins, D. Aldridge, K. Christensen, Y. Thaxton	Construction and performance of a self-constrained, temperature-controlled heat source (electronic chicken) to quantify thermal load during live haul of broilers	Applied Engineering in Agriculture	2017			

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Su, L., Y. Wang, Q. Guo, X. Li, S. Wang, G. Fu, Y. I. Mazur, M. E Ware , G. J. Salamo, B. Liang, and D. L Huffaker	Optical characterization of type-I to type-II band alignment transition in GaAs/Al _x Ga _{1-x} As quantum rings grown by droplet epitaxy	J. Phys. D: Appl. Phys	2017	50		32LT01
Al Saqri, N., J. F. Felix, M. Aziz, V. P. Kunets, D. Jameel, D. Taylor, M. Henini, M. S. El-sadek, C. Furrow, M. E. Ware , M. Benamara, M. Mortazavi, and G. Salamo	Investigation of electrically active defects in InGaAs quantum wire intermediate-band solar cells using deep-level transient spectroscopy technique	Nanotechnology	2017	28		45707
Guo, Y., Y. Liu, B. Liang, Y. Wang, Q. Guo, S. Wang, G. Fu, Y. I. Mazur, M. E. Ware , and G. J. Salamo	Carrier dynamics of InAs quantum dots with GaAs _{1-x} Sb _x barrier I	Appl. Phys. Lett.	2017	111		1191105

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<p>Mazur, Y. I., V. G. Dorogan, L. Dias, D. Fan, M. Schmidbauer, M. E. Ware, Z. Ya. Zhuchenko, S. S. Kurlov, G. G. Tarasov, S.-Q. Yu, G. E. Marques, G. J. Salamo</p>	<p>Luminescent properties of GaAsBi/GaAs double quantum well heterostructures</p>	<p>Journal of Luminescence</p>	<p>2017</p>	<p>188</p>		<p>209-216</p>
<p>Tsykaniuk, B. I., A. S. Nikolenko, V. V. Strelchuk, V. M. Naseka, Y. I. Mazur, M. E. Ware, E. A. DeCuir Jr., B. Sadovyi, J. L. Weyher, R. Jakiela, G. J. Salamo, and A. E. Belyaev</p>	<p>Infrared Reflectance Analysis of Epitaxial n-Type Doped GaN Layers Grown on Sapphire</p>	<p>Nanoscale Research Letters</p>	<p>2017</p>	<p>12</p>		<p>397</p>

Wang, Y., X. Sheng, Y. Liu, B. Liang, X. Li, Q. Guo, Y. I. Mazur, M. E. Ware , G. J. Salamo	PL of low-density InAs/GaAs quantum dots with different bimodal populations	Micro & Nano Letters	2017	12	9	599
Wang, Y., X. Sheng, Q. Guo, X. Li, S. Wang, G. Fu, Y. I. Mazur, Y. Maidaniuk, M. E. Ware , G. J. Salamo, B. Liang, and D. L. Huffaker	Photoluminescence Study of the Interface Fluctuation Effect for InGaAs/InAlAs/InP Single Quantum Well with Different Thickness	Nanoscale Research Letters	2017	12		229
Bowman, T., Y. Wu, J. Gauch, L. K. Campbell, and M. El-Shenawee	Terahertz Imaging of Three-Dimensional Dehydrated Breast Cancer Tumors	J. Infrared Milli. Terahz Waves	2017	38	6	799-786
Burford, N.M., and M. El-Shenawee	Review of terahertz photoconductive antenna technology	Opt. Eng.	2017	56	1	10901
Burford, N.M., M. J. Evans, and M. El-Shenawee	Plasmonic Nanodisk Thin-Film Terahertz Photoconductive Antenna	IEEE Transactions on Terahertz Science and Technology	2017	99	99	11-Jan
M. Huang , C. Lai, X. Shi, Z. Hao, and H. You	Study of Parallel Programming Models on Computer Clusters with Intel MIC Coprocessors	International Journal of High Performance Computing Applications	Jul-17	31	4	303-3015

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Al Abdulaal, T., M. Ware , M. Benamara, A. Biris, V. Saini and G. Salamo	Effects of Gold Nanorods on Nonlinear Properties of Graphene Films Using Z-Scan Technique	Jour. Phys. Sci. Appl.	2017	7	2	1

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L.Kari, S. Kopecki, P. Meunier, M.J. Patitz , S. Seki	Binary Pattern Tile Set Synthesis Is NP-Hard	Algorithmica		78	1	Jan-46
J. Hendricks, M.J. Patitz , T.A. Rogers	The Simulation Powers and Limitations of Higher Temperature Hierarchical Self-Assembly Systems	Fundam. Inform		155	2-Jan	131-162
J. Hendricks, M.J. Patitz , T.A. Rogers	Reflections on tiles (in self-assembly)	Natural Computing		16	2	295-316
Mandal, S., M. Marie, A. Kuchuk, M.O. Manasreh , and M. Benamara	Sensitivity enhancement in an in-vitro glucose sensor using gold nanoelectrode ensembles	J. Materials Science: Materials and Electronics	2017	29	7	5452-5459. http://dx.doi.org/10.1007/s10854-016-6207-5
Marie, M. and M.O. Manasreh	Investigation of the influences of the as-grown ZnO nanorods and applied potentials on an electrochemical sensor for in-vitro glucose monitoring	Chemosensors	2017	5		4-13 http://dx.doi.org/10.3390/chemosensors5010004
Mantooth, H. A.	Wide Bandgap Analog and Mixed-Signal IC Design for Advanced Power Electronics	Electrochemical Society (ECS) Transactions – CSTIC 2017	2017	77	6	41-19
Mantooth, H. A.	Powering a Sustainable Future	IEEE Power Electronics Magazine	Dec-17	4	4	

Mantooth, H. A.	Power Electronics Everywhere	IEEE Power Electronics Magazine	Sep-17	4	1	
Mantooth, H. A.	Off and Running	IEEE Power Electronics Magazine	Jun-17	4	1	
Mantooth, H. A.	Minding the Present While Looking to the Future	IEEE Power Electronics Magazine	Mar-17	4	1	
Mantooth, H. A., T. Evans, C. Farnell, Q. Le, and R. Murphree	Emerging Trends in Silicon Carbide Power Electronics Design	CPSS Trans. On Power Electronics and Applications	2017	2	3	161-169
Veltman, K., Jones, C.D., Gaillard, R., Cela, S., Chase, L., Duval, B.D., Izaurrealde, R.C., Ketterings, Q.M., Li, C., Matlock, M. and Reddy, A.,	Comparison of process-based models to quantify nutrient flows and greenhouse gas emissions associated with milk production	Agriculture, Ecosystems & Environment	2017	237		pp. 31-44
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Berry BE, Millett PC	Phase-field simulations of the impact of bimodal pore size distributions on solid-state densification	Journal of Nuclear Materials	Aug-17	491		48-54

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Powless, A., Conley, R., Freeman, K., Muldoon, T.	Considerations for point-of-care diagnostics: evaluation of acridine orange staining and postprocessing methods for a three-part leukocyte differential test	Journal of Biomedical Optics	2017	22	3	35001
Nachtmann, H., M. Gonzalez, E. Pohl	Time Driven Activity-Based Costing for Healthcare Provider Supply Chains	The Engineering Economist	2017	62	2	161-179
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Messadi, T., Newman, W., Braham, A., and Nutter, D.	Immersive Learning for Sustainable Building Design and Construction Practices	Journal of Civil Engineering and Architecture		11	9	841-852
Brawley, Z. T., S. J. Bauman, G. P. Abbey, A. A. Darweesh, A. I. Nusir, O. Manasreh , J. B. Herzog	Modeling and optimization of Au-GaAs plasmonic nanoslit array structures for enhanced near-infrared photodetector applications	J. Nanophotonics	2017	11	016027-1 - 016027-9 http://dx.doi.org/10.1117/1.JNP.11.016017	
Bowman, T., A. Walter, O. Shenderova , N. Nunn, G. McGuire, and M. El-Shenawee	A Phantom Study of Terahertz Spectroscopy and Imaging of Micro- and Nano-diamonds and Nano-onions as Contrast Agents for Breast Cancer	Biomedical Physics and Engineering Express	2017	3		55001
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Saaddeh, M., R. McCann , M. Alarray, O. Saadeh	A new approach for evaluation of the bus admittance matrix from synchrophasors: (A statistical Ybus estimation approach)	International Journal of Electrical Power & Energy Systems	2017	93		395-405
Race, M. , Coffman, R.	Drilled Shaft Foundation Construction Problems	International Journal of Geotechnical Engineering	2017	12	1	13-Jan
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Xu, Z. Q., Q. Q. Zhou, Y. L. Ban, S. S. Ang	Hepta-band Coupled-fed Loop Antenna for LTE/WWAN Unbroken Metal-Rimmed Smartphone Applications	IEEE Antennas and Wireless Propagation Letters	Dec. 27, 2017	DOI: 10.1109/L AWP.201 7.2787863		
Gedik, R., S. Zhang , and C.E. Rainwater	Strategic level proton therapy patient admission planning: a Markov decision process modeling approach	Health Care Management Science	2017	20	2	286-302
Paul, N.R., B.J. Lunday, and S.G. Nurre	A Multiobjective, Maximal Conditional Covering Location Problem Applied to the Relocation of Hierarchical Emergency Response Facilities	Omega	2017	66	(A)	147-158
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Colombi, J.M., L.D. Buckle, J. Black, and S.G. Nurre	Optimal Launch Manifesting for Heterogeneous Disaggregated Satellite Constellations	Journal of Spacecraft and Rockets	2017	54	3	582-591

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Du, W., S. A. Ghetmiri, J. Margetis, S. Al-Kabi, Y. Zhou, J. Liu, G. Sun, R. A. Soref, J. Tolle, B. Li, M. Mortazavi, and S.-Q. Yu	Investigation of optical transitions in a SiGeSn/GeSn/SiGeSn single quantum well structure	Journal of Applied Physics	2017	122		
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Margetis, J., N. Bhargava, W. Du, S.-Q. Yu , B. Li, and J. Tolle	Strain Engineering in Epitaxial $\text{Ge}_x\text{Sn}_{1-x}$: a Path to Low-defect high Sn-content Layers	Semiconductor Science and Technology	2017	https://doi.org/10.1088/1361-6641/aa7fc7		

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Won D. , W. Kim, W. Chaovalitwongse , and J.J. Tsai	Altered visual contrast gain control is sensitive for idiopathic generalized epilepsies	Clinical Neurophysiology (IF = 3.426)	2017	128	2	340–348

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Chou, C.A., W. Chaovalitwongse , C. Lee, and T.O. Bonates	Multi-Pattern Generation Framework for Logical Analysis of Data	Annals of Operations Research (IF = 1.103)	2017	249	1	329-349
Chaovalitwongse, P., K. Somprasonk, N. Phumchusri, J. Heim, Z. Zabinsky, and W. Chaovalitwongse	A Decision Support Model for Staff Allocation of Mobile Medical Service	Annals of Operations Research (IF = 1.103)	2017	249	1	433-448
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Vu, A. T. Qian, X., Wickramasinghe, S. R.	Membrane based hydrophobic interaction chromatography	Separation Science & Technology	2017	52	2	287-298

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Liu, Z., Wickramasinghe, S. R. , Qian, X.	The architecture of responsive polymeric ligands on protein binding and recovery	RSC Advances	2017	7	44	27823-27832
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X. Meng	Atomic-scale surface modifications and novel electrode design for high-performance sodium-ion batteries via atomic layer deposition	Journal of Materials Chemistry A	Apr-17	5		10127-10149
X. Meng , Y. Liu, Y. Cao, Y. Ren, W. Lu, and J.W. Elam	High-performance high loading lithium-sulfur batteries by low temperature atomic layer deposition of aluminum oxide on nanophase S cathodes	Advanced Materials Interfaces	Sep-17	4	17	1700096 : DOI: 10.1002/admi.201700096
C. Zhu, K. Han, D. Geng, H. Ye, and X. Meng	Achieving high-performance silicon anodes of lithium-ion batteries via atomic and molecular layer deposited surface coatings: an overview	Electrochimica Acta	Oct-17	251		710-728

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A.M. Avram, P. Ahmadiannamini, A. Vu, X. Qian , A. Sengupta, S. R. Wickramasinghe	Polyelectrolyte multilayer modified nanofiltration membranes for the recovery of ionic liquid from dilute aqueous solutions	Journal of Applied Polymer Science	2017	134	39	45349
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N. Phan, X. Wu and D. Dou	Preserving Differential Privacy in Convolutional Deep Belief Networks	Machine Learning		106		1681-1704
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K. L. Harrison, K. R. Zavadil, N. Hahn, X. Meng , J. W. Elam, A. Leenheer, J. Zhang, and K. L. Jungjohann	Lithium self-discharge and its prevention: direct visualization through in-situ electrochemical scanning transmission electron microscopy	ACS Nano	Nov-17	11	11	11194-11205
L. Wu, Xintao Wu , A. Lu and Y. Li.	On Spectral Analysis of Signed and Dispute Graphs: Application to Community Structure	IEEE Transactions on Knowledge Discovery and Data Engineering		29	7	1480-1493
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Ning, F.J., T.T. Qiu, Q. Wang, H.L. Peng, Y. Li , X.Q. Wu, Z. Zhang, L.X. Chen, and H. Xiong	Dummy-surface molecularly imprinted polymers on magnetic graphene oxide for rapid and selective quantification of acrylamide in heat-processed (including fried) foods.	Food Chemistry	2017	221		1797-1804. doi.org/10.1016/j.foodchem.2016.10.101
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Qiao, Z.H., C.Y. Lei, Y.C. Fu, and Y. Li*	An antimicrobial peptide-based colorimetric bioassay for rapid and sensitive detection of E. coli O157:H7	RSC Advances	2017	7	26	15769-15775. doi:10.1039/c6ra28362d
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Wang, R.H., L.J. Wang, Z. Callaway, H.G. Lu, T.J. Huang, and Y. Li*	A nanowell-based QCM aptasensor for rapid and sensitive detection of avian influenza virus.	Sensors and Actuators B: Chemical	2017	240		934-940. doi.org/10.1016/j.snb.2016.09.067
Wang, Y.H., Y. Li , R.H. Wang, M.H. Wang, and J.H. Lin	Three-dimensional printed magnetophoretic system for continuous-flow separation of avian influenza H5N1 viruses	Journal of Separation Science	2017	40	7	1540-1547 DOI:10.1002/jssc.201601379
Wen, T., R. Wang, A. Sotero, and Y. Li* .	A portable impedance immunosensing system for rapid detection of Salmonella Typhimurium. Sensors	Sensors	2017	17		1973. doi:10.3390/s17091973
Xu, M., R. Wang, and Y. Li* .	Electrochemical biosensors for rapid detection of Escherichia coli O157:H7- A review	Talanta	2017	162		511-522. doi.org/10.1016/j.talanta.2016.10.050
Xu, L.Z., Z. Lu, L.L. Cao, H.Y. Pang, Q. Zhang, Y.C. Fu, Y.H. Xiong, Y.Y. Li, X.Y., Wang, J.P. Wang, Y.B. Ying, and Y. Li* .	In-field detection of multiple pathogenic bacteria in food products using a portable fluorescent biosensing system	Food Control	2017	75		21-28. doi.org/10.1016/j.foodcontrol.2016.12.018

Xu, X.H., Y.W. Yuan, G.X. Hu, X.Y. Wang, P.P. Qi, Z.W. Wang, Q. Wang, X.Q. Wang, Y.C. Fu, Y. Li , and H. Yang	Exploiting pH-regulated dimer-tetramer transformation of Concanavalin A to develop colorimetric biosensing of bacteria	Scientific Reports	2017	7		1452. doi:10.1038/ s41598-017- 01371-6
Yang, Q., H.L. Peng, J.H. Li, Y. Li , H. Xiong, and L.X. Chen	Label-free detection of tetracycline using analyte- responsive inverse-opal hydrogels based on molecular imprinting technology	New Journal of Chemistry	2017	41	18	10174- 10180. DOI: 10.1039/c7n j02368e
Zhang, Q., L.Y. Li, Z.H. Qiao. C.Y. Lei, Y.C. Fu, Q.J. Xie, S.Z. Yao, Y. Li , and Y.B. Ying.	Electrochemical conversion of F3O4 magnetic nanoparticles to electroactive Prussian blue analogues for novel self- sacrificial-label biosensing of avian influenza virus H5N1	Analytical Chemistry	2017	89	22	12145- 12151.
C. Rao, T. Wang, Y. Peng , J. Cheng, Y. Liu, S.K. Lim and X. Lu	Residual Stress and Pop-Out Simulation for TSVs and Contacts in Via-Middle Processing	IEEE Transactions on Semiconductor Manufacturing		7	6	143-154
Y. Peng , T. Song, D. Petranovic and S.K. Lim	Parasitic Extraction for Heterogeneous Face-to-face Bonded 3-D ICs	IEEE Transactions on Components and Packaging and Manufacturing Technology		7	6	912-924

M. Jung, T. Song, Y. Peng and S.K. Lim	Design Methodologies for Low-power 3-D ICs with Advanced Tier Partitioning	IEEE Transactions on Very Large Scale Integration Systems		25	7	2109-2117
Han, H., L. Li, L. Wang, M. Su, Y. Zhao and J. M. Guerrero	A Novel Decentralized Economic Operation in Islanded AC Microgrids	Energies 2017	2017	10	6	804. doi:10.3390/en10060804
Madhusoodhanan, S., S. Sandoval, Y. Zhao , M. Ware, Z. Chen	A Highly Linear Temperature Sensor Using GaN-on-SiC Heterojunction Diode for High Power Applications	IEEE Electron Device Letters	2017	38	8	1105
Wang, L., H. Dan, Y. Zhao , Q. Zhu, T. Peng, Y. Sun, and P. Wheeler	A Finite Control Set Model Predictive Control Method for Matrix Converter with Zero Common-mode Voltage	IEEE Journal of Emerging and Selected Topics in Power Electronics	2017	PP	99	1/1/2018. doi: 10.1109/JES TPE.2017.2 727501
Yang, S. , Braham, A., Underwood, S., Hanz, A., Reinke G.	Correlating Field Performance to Laboratory Dynamic Modulus from Indirect Tension and Torsion Bar	Road Materials and Pavement Design	2017	18	S1	104-127
J. H. Panchal, Z. Sha and K. N. Kannan	Understanding Design Decisions under Competition Using Games with Information Acquisition and a Function Optimization Experiment	Journal of Mechanical Design, Transactions of the ASME	Jun-17	139	9	091402 (12)

Z. Sha, V. Saeger, M. Wang, Y. Fu and W. Chen	Analyzing Customer Preference to Product Optional Features in Supporting Product Configuration	SAE International Journal of Materials and Manufacturing	Mar-17	10	3	320-332
Maharjan, P, Dey, S., Huff, G., Zhang, W., Phillips, G., Watkins, S.	Effect of chlorine treatment on inhibition of E. coli serogroup O2 incorporation into 7-day-old biofilm on polyvinylchloride surface.	Poultry Science	2017	96	8	2862-2870
Maharjan, P., Huff, G., Zhang, W., Watkins, S.	Biofilm growth on polyvinylchloride surface incubated in suboptimal microbial warm water and effect of sanitizers on biofilm removal post biofilm formation	Poultry Science	2017	96	1	83-87
Maharjan, P., G. Huff, Zhang, W., Watkins, S.	"Effects of chlorine and hydrogen peroxide sanitation in low bacterial content water on biofilm formation model of poultry brooding house waterlines."	Poultry Science	2017	96	7	2145-2150

IIIb. Refereed Conference Proceedings (alphabetized by the first UA author, add rows as necessary)

Authors (Bold first UA author)	Paper Title	Conference Name	Month	Year	Location
Ashok Saxena , Amit Prakash, Kevin Nibur, Ian Miller	Considerations of the Effects of H ₂ in the Design of Type II Storage Vessels Built for Fatigue Resistance	Materials Performance in Hydrogen Environments: International Hydrogen Conference	September	2017	Jackson Lake, WY
Burford, N., T. Bowman, B. Beitle , and M. El-Shenawee	Terahertz Imaging for Defect Identification in Liquid-Sterilizing Membrane Devices	Proc. of UNSC-URSI 2017	January	2017	Boulder, CO
K. Morovat and B. Panda	“Verifying Integrity of Big Data in Cloud Databases”	Proceedings of the 2017 International Symposium on Cloud Computing and Data Centers (CSCI-ISCC)	Dec	2017	Las Vegas, NV
Perez J, Tandon I, Balachandran K	Drug-Induced Heart Valve Disease	Heart Valve Society Scientific Meeting	March	2017	Monte Carlo, Monaco
Lam N, Sturdivant NM, Balachandran K	In Vitro Models for Valve Fibrosis.	Heart Valve Society Scientific Meeting	March	2017	Monte Carlo, Monaco
Ravishankar P, Khang A, Balachandran K	Engineering Biphasic Janus-type Polymer-Protein Nanofibers via Centrifugal Jet Spinning	Society for Biomaterials Annual Meeting	April	2017	Minneapolis, MN
Ravishankar P, Zeballos MA, Rao R, Balachandran K	Mesenchymal Differentiation of Endothelial Progenitor Cells using Cyclic Strain.	Biomedical Engineering Society Annual Meeting	October	2017	Phoenix, AZ

Compton G, Walker A, Terlouw A, Schluns J, Echols E, Balachandran K , Wolchok JC	Astrocyte Mechanobiology and Regulation of the Extracellular Matrix Environment	Biomedical Engineering Society Annual Meeting	October	2017	Phoenix, AZ
Sturdivant NM, Ederle A, Wolchok JC, Balachandran K .	Acetazolamide Mitigates Astrocyte Cellular Edema Following Mild Traumatic Brain Injury	International Brain Injury Association World Congress	April	2017	New Orleans, LA
Lam N, Lam H, Sturdivant NM, Balachandran K .	Collagen/Matrigel-based Scaffolds for Valve Interstitial Cell Culture	Society for Biomaterials Annual Meeting	April	2017	Minneapolis, MN
Tandon I, Kolenc O, Quinn K, Balachandran K .	Label-free Metabolic Markers for Assessing Calcific Aortic Valve Disease Progression	Biomedical Engineering Society Annual Meeting	October	2017	Phoenix, AZ
Braham, A.	Exploring Alternative Methods of Environmental Analysis	Proceedings of the Pavement Life-Cycle Assessment Symposium	April	2017	Champaign, IL,
Zhu, Z., Y. Xiang, S. Alaswad, and C.R. Cassady	A Sequential Inspection and Replacement Policy for Degradation-Based Systems	The 63 rd Annual Reliability and Maintainability Symposium	January	2017	Orlando, FL
T. Hansmeier, M. Platzner, and D. Andrews	“An FPGA Accelerator for Checking Resolution Proofs”	HMC Workshop at 27 th International Conference on Field Programmable Logic and Applications	Sept	2017	Ghent, Belgium

R. Becker, Z. Aklah., and D. Andrews	“Investigating A Multilayer Perceptron on the HMC”	HMC Workshop at 27 th International Conference on Field Programmable Logic and Applications	Sept	2017	Ghent, Belgium
D. Keith Roper , Gregory T. Forcherio, Drew DeJarnette, Jeremy R. Dunklin, Mourad Benamara, Claudia Backes, Luigi Bonacina, Yana Vaynzof	Optical and electronic functionality of 2D crystal-metal hybrids: computation and microscopy	SPIE Optics + Photonics	Aug	2017	San Diego, CA
A. Ordorica and D. Thompson	“Operating system fingerprinting using IPv6 packets and machine learning techniques”	Proc. National Cyber Summit	June	2017	Huntsville, AL
Dominquez, D. Selvam, R.	Close to ground wind field in a vortex chamber using CFD	Proceedings: The 13th Americas Conference on Wind Engineering (13ACWE)	May	2017	Gainesville, FL
Dominquez, D., Selvam,R.	Tornado width for computer modeling from Google Earth data and period of the vortex	Proceedings: AEI Conference	April	2017	Oklahoma City, OK
Lutz-Rechtin, Tammy M. and Edgar C. Clausen	Developing a Model Departmental Safety Program	Proceedings of the American Society for Engineering Education Midwest Regional Conference	Sept	2017	Stillwater, OK
El-Ghazaly, S.	Publication Ethics: Writing Papers for IEEE Publications	2017 International Conference on Smart Digital Environment	July	2017	Rabat, Morocco

El-Shenawee, M., T. Bowman, T. Esparza, K. Khan, J. Wu, A. Chakraborty, and K. Bailey	Statistical Signal Processing For Quantitative Assessment Of Pulsed Terahertz Imaging Of Human Breast Tumors – Invited Key Speaker	42nd International Conference on Infrared, Millimeter and Terahertz Waves	August- Sept	2017	Cancun, Mexico
Chen, A., A. S. Sathyanarayanan, B. Narayanasamy, W. Feng and F. Luo	Comprehensive evaluation of interleaved zero current switching inverter against interleaved hard switching inverters in terms of efficiency, power density and EMI spectrum	2017 IEEE Applied Power Electronics Conference and Exposition (APEC)	March	2017	Tampa, FL
Deshpande, A., and F. Luo	Multilayer busbar design for a Si IGBT and SiC MOSFET hybrid switch based 100 kW three-level T- type PEBB	2017 IEEE 4th Workshop on Wide Bandgap Power Devices and Applications (WiPDA)		2017	Albuquerque, NM
Huang, Z., Y. Li, L. Chen, Y. Tan, C. Chen, Y. Kang, F. Luo	A novel low inductive 3D SiC power module based on hybrid packaging and integration method	IEEE Energy Conversion Congress and Exposition(ECCE)	October	2017	Cincinnati, OH
Ke, Z., J. Pan, K. Potty, W. Perdikakis, A. Shanmuganaatham, M. A. Sabbagh, J. Zhang, F. Luo , J. Wang, L. Xu	Optimal submodule capacitor sizing for modular multilevel converters with common mode voltage injection and circulating current control	IEEE Energy Conversion Congress and Exposition(ECCE)	October	2017	Cincinnati, OH

Liu, T., , Y. Xie, Y. Li, C. Chen; Y. Kang; L. Peng, Y. Chen, F. Luo	Packaging and integration of DBC-based SiC hybrid power module in 379W/in ³ DC/DC converter	2017 IEEE 3rd International Future Energy Electronics Conference and ECCE Asia (IFEEC 2017 - ECCE Asia)	June	2017	Kaohsiung, Taiwan
Narayanasamy, B., A. S. Sathyanarayanan, A. Deshpande and F. Luo	Impact of cable and motor loads on wide bandgap device switching and reflected wave phenomenon in motor drives	2017 IEEE 3rd International Future Energy Electronics Conference and ECCE Asia (IFEEC 2017 - ECCE Asia)	June	2017	Kaohsiung, Taiwan
Narayanasamy, B., F. Luo , Y. Chu	High density EMI mitigation solution using active approaches	2017 IEEE International Symposium on Electromagnetic Compatibility & Signal/Power Integrity (EMCSI)	August	2017	Washington, DC
Sarollahi, M., V. P. Kunets, Y. I. Mazur, M. Mortazavi, G. J. Salamo , M. Ware	Temperature dependence of quantum-wire intermediate-band solar cells	Proc of SPIE Vol. 10099	February	2017	San Francisco, CA
Small, C., G. Parnell , E. Pohl, S. Goerger, C. Cottam, E. Specking, and Z. Wade	Engineered Resilient Systems with Value Focused Thinking	27th Annual INCOSE International Symposium (IS 2017)	July	2017	Adelaide, Australia
Small, C., G. Parnell , E. Pohl, S. Goerger, C. Cottam, E. Specking, and Z. Wade	Engineering Resilience for Complex Systems	15th Annual Conference on Systems Engineering Research	March	2017	Redondo Beach, CA
Specking, E. A, C. Whitcomb, G. Parnell , S. Goerger, E. Pohl, N. Kundeti, P. Berry	Trade-off Analytics for Set-Based Design	Design Sciences Series: Set Based Design	September	2017	Washington, DC

Kotecha, R. M., Y. Zhang, A. K. Wallace, N. Zhu, A. Rashid, T. Vrotsos, H. A. Mantooth	An accurate compact model for gallium nitride gate injection transistor for next generation of power electronics design	18 th IEEE Workshop on Control and Modeling for Power Electronics (COMPEL)	July	2017	Stanford, CA
Kotecha, R. M., Y. Zhang, A. Rashid, N. Zhu, T. Vrotsos, H. A. Mantooth	A Physics-Based Compact Gallium Nitride Power Semiconductor Device Model for Advanced Power Electronics Design	IEEE Applied Power Electronics Conference (APEC)	March	2017	Tampa, FL
Le, Q., T. Evans, S. Mukherjee, Y. Peng, T. Vrotsos, and H. A. Mantooth	Response surface modeling for parasitic extraction for multi-objective optimization of multi-chip power modules (MCPMs)	2017 IEEE 5 th Workshop on Wide Bandgap Power Devices and Applications (WiPDA)	Oct-Nov	2017	Albuquerque, NM
Seal, S., A. K. Wallace, H. A. Mantooth	3D wire boneless integration – the future of SiC packaging	ASME InterPACK	August	2017	San Francisco, CA
Seal, S., A. K. Wallace, J. E. Zumbro, and H. A. Mantooth	Thermo-mechanical reliability analysis of flip-chip bonded silicon carbide Schottky diodes	Proceedings of the IEEE International Workshop on Integrated Power Packaging	April	2017	TU Delfts, Netherlands
Umuhoza, J., Y. Zhang, S. Zhao, J. Moquin, C. Farnell, H. A. Mantooth	An adaptive control strategy for power balance and the intermittency mitigation in battery-PV energy system at residential DC microgrid level	IEEE Applied Power Electronics Conference and Exposition (APEC)	March	2017	Tampa, FL

Wijenayake, A. H., T. McNutt, K. J. Olejniczak, B. Passmore, A. Lostetter, J. Hayes, Y. Liu, H. A. Mantooth	Next-generation MVDC architecture based on 6.5 kV/200 A, 12.5 M Ω SiC H-bridge and 10 kV/240 A, 20 m Ω SiC dual power modules	2017 Electric Ship Technologies symposium	August	2017	Arlington, VA
Zhang, Y., R. Kotecha, H. A. Mantooth , J. C. Balda, Y. Zhao and C. Farnell	Cascaded bridgeless totem-pole multilevel converter with model predictive control for 400 V dc-powered data centers	2017 IEEE Applied Power Electronics Conference and Exposition (APEC)	March	2017	Tampa, FL
Zhao, S., J. Umuhoza, Y. Zhang, J. Moquin, C. Farnell and H. A. Mantooth	Analysis and optimization of a high- efficiency residential energy harvesting system with dual half- bridge converter	2017 IEEE Applied Power Electronics Conference and Exposition (APEC)	March	2017	Tampa, FL
Al-Kabi, S., S. A. Ghetmiri, J. Margetis, T. Pham, Y. Zhou, W. Dou, W. Du, A. Mosleh, J. Liu, G. Sun, R. A. Soref, J. Tolle, B. Li, M. Mortazavi, H. A. Naseem , S-Q Yu	Optically pumped Si- based edge-emitting GeSn laser	Conference on Lasers and Electro-Optics (CLEO)	May	2017	San Jose, CA

Du, W., S. Ghetmiri, S. Al-Kabi, A. Mosleh, T. Pham, Y. Zhou, H. Tran, G. Sun, R. Soref, J. Margetis, J. Tolle, B. Li, M. Mortazavi, H. A. Naseem , S.-Q. Yu	Silicon-based Ge _{0.89} Sn _{0.11} photodetector and light emitter towards mid-infrared applications	Proc. SPIE 10108, Silicon Photonics XII		2017	10108130. doi: 10.1117/12.2253067
Mohammad, K. H., L. C. Cousar, S. C. Pop, P. McMeans, G. Evans, H. A. Naseem , D. Hutchings	Thermal Stability of Hydrogenated Boron Emitters	Proc. IEEE PVSC44	June	2017	Washington, DC
Tran, H., T. Pham, W. Du, J. Margetis, Y. Zhou, P. C. Grant, G. Sun, R. A. Soref, J. Tolle, B. Li, M. Mortazavi, H. A. Naseem , and S.-Q. Yu	Temperature Dependent Study of Lifetime and Minority Carrier Diffusion Constant for Ge _{0.89} Sn _{0.11} Photoconductors	CLEO 2017	May	2017	San Jose, CA
Aghdam, F. and H. Liao	Reliability Study on High-K Bi-layer Dielectrics	The 63 rd Annual Reliability and Maintainability Symposium	January	2017	Orlando, FL
Chen, D., X. Li, R. Kang, and H. Liao	Accelerated Acceptance Sampling Plan with Asymmetrical Information	2017 2nd International Conference on System Reliability and Safety	December	2017	Milan, Italy

Zhang, X., L. Sun, H. Liao , and E. Pohl	Improving Resilience Capability of a Multi-Channel Condition Monitoring System Subject to Partial Failures	The 10th International Conference on Mathematical Methods in Reliability	July	2017	Grenoble, France
Zhang, Y., Y. Peng, L. Wang, S. Wang, P. Wang, and H. Liao	Aircraft APU Failure Rate Prediction based on Improved Weibull-based GRP	The 2017 Prognostics and System Health Management Conference	July	2017	Harbin, China
Alharthi, B., J. M. Grant, W. Dou, P. C. Grant, A. Mosleh, W. Du, M. Mortazavi, B. Li, H. Naseem , and S.-Q. Yu	Low Temperature Ge Growth Using Plasma Enhanced CVD Technique	EMC 2017	June	2017	South Bend, IN
Du, W., S. Ghetmiri, S. Al-Kabi, A. Mosleh, T. Phama, Y. Zhou, H. Tran, G. Sun, R. Soref, J. Margetis, J. Tolle, B. Li, M. Mortazavi, H. Naseem , S.-Q. Yu	Silicon-based Ge _{0.89} Sn _{0.11} photodetector and light emitter towards mid-infrared applications	SPIE Photonics West, No. 10108-38	Jan-Feb	2017	San Francisco, CA
Brown S., A. Woods, H. Pierson , and G. Parnell	An Operations Management Perspective on Collaborative Robotics	American Society for Engineering Management International Annual Conference	October	2017	Huntsville, AL
Jin, Y., H. Pierson , and H. Liao	Concurrent Fused Filament Fabrication with Multiple Extruders	Annual Industrial and Systems Engineering Research Conference	May	2017	Pittsburgh, PA

Liu, Y., C. Farnell, H.A. Mantooh , R. McCann, J.C. Balda	Realization of High- Current Variable AC Filter Inductor using 6.5% Silicon Iron Powder Magnetic Core	IEEE 2017 Applied Power Electronics Conference	March	2017	Tampa, FL
Grant, P.C., W. Dou, B. Alharthi, J. Grant, A. Mosleh, W. Du, B. Li, M. Mortizavi, H.A. Naseem , S.-Q. Yu	Dilute GeSn: A study on the Effects of Adding Stannic Chloride to UHV-CVD Growth	EMC 2017	June	2017	South Bend, IN
Hernandez, S.	Estimation of Average Payloads from Weigh- in-Motion (WIM) Data	2017 Annual Meeting of the Transportation Research Board	January	2017	Washington, DC
Tok, Y., Hyun, K., Hernandez, S. , Jeong, K., Sun, Y., Rindt, C., Ritchie, S.	Truck Activity Monitoring System (TAMS) for Freight Transportation Analysis	2017 Annual Meeting of the Transportation Research Board	January	2017	Washington D.C.
Huitink, David	Thermomechanical Reliability Challenges and Goals and Design for Reliability Methodologies for Electric Vehicle Systems	ASME 2017 International Technical Conference and Exhibition on Packaging and Integration of Electronic and Photonic Microsystems	August	2017	San Francisco, CA
Liu, J. and J. A. White	Modeling MIAPP- NALT Travel in Order Picking Applications	Annual Industrial and Systems Engineering Research Conference	May	2017	Pittsburgh, PA
Liu, J. and J. A. White	Modeling MIAPP- NALT Travel in Order Picking Applications with a Class-Based Storage Policy	2017 INFORMS Conference	October	2017	Houston, TX

Tutam M. and J. A. White	Effects of Storage Policies on a Multi-Dock Unit-Load Warehouse	Annual Industrial and Systems Engineering Research Conference	May	2017	Pittsburgh, PA
Tutam M. and J. A. White	An Analysis of Storage Policies in a Multi-Dock Unit-Load Warehouse with Contour-Line Shaped Storage Regions	2017 INFORMS Conference	October	2017	Houston, TX
T. Le and J. Di	“Golden Reference Matching for Gate-Level Netlist Functionality Identification”	60th IEEE Midwest Symposium on Circuits and Systems (MWSCAS)	August	2017	Boston, MA
Akingeneye, I., J. Wu , and J. Yang	Optimum PMU placement for power system state estimation	Proc. IEEE Power & Energy Society General Meeting	July	2017	Chicago, IL
Bowman, T., T. Chavez, K. Khan, K. Alhallak, A. Chakraborty, J. Wu , K. Bailey, and M. El-Shenawee	Statistical signal processing for quantitative assessment of pulsed Terahertz imaging of human breast tumors	Proc. 42nd Intern. Conf. Infrared, Millimeter, and Terahertz Waves (IRMMW-THz)	August-Sept	2017	Cancun, Mexico
Hu, D., J. Wu , and P. Fan	Optimum designs of wireless ad hoc networks with random multiple access	Proc. IEEE Intern. Commun. Conf.	June	2017	Paris, France
Mahamadu, M., J. Wu , Z. Ma, W. Zhou, and P. Fan	Maximum diversity order of SIMO high mobility systems with imperfect channel state information	Proc. IEEE Intern. Conf. Commun. Technol. (ICCT)	October	2017	Chengdu, China

Wang, B., C. Gan, J. Yang, C. Hedge, and J. Wu	Graph-based multiple-line outage identification in power transmission systems	Proc. IEEE Power & Energy Society General Meeting	July	2017	Chicago, IL
Wang, Z., J. Wu , and J. Yang	Distributed estimation of a spatially correlated random field in decentralized sensor networks	Proc. IEEE Intern. Commun. Conf.	June	2017	Paris, France
Wu, X., J. Yang, and J. Wu	Optimal status updating to minimize age of information with an energy harvesting source	Proc. IEEE Intern. Commun. Conf	June	2017	Paris, France
Zhao, P., J. Wu , Z. Wang, and Y. Zheng	Sparsity-aided iterative receiver for large scale under-determined MIMO systems	Proc. IEEE Intern. Workshop on Signal Processing Advances in Wireless Communications (SPAWC)	July	2017	Sapporo, Japan
Nath S., J. Wu , and J. Yang	Optimizing age-of-information and energy efficiency tradeoff for mobile pushing notifications	Proc. IEEE Intern. Workshop on Signal Processing Advances in Wireless Communications (SPAWC),	July	2017	Sapporo, Japan
Deng, C., T. Islam, J.C. Balda	Design of Medium-Frequency Transformers with Silicon Steel for Mobile Power Substations	IEEE 8th Symposium on Power Electronics for Distributed Generation Systems (PEDG 2017)	April	2017	Florianopolis, Brazil
Deng, C., T. Yang, J.C. Balda	N-Series Modules based on SST for Mobile Power Substations	2017 IEEE Energy Conversion Congress and Exposition	October	2017	Cincinnati, OH

Han, H., Do, Y., Lee, S. and J.-W. Kim	“THz Near-Field Microscopes: Optimum Operation Conditions,”	in Proceedings of the 42 nd International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz)	August 27-September 1	2017	Cancun, Mexico
Yang, J., and J.Wu	Optimal transmission for energy harvesting nodes under battery size and usage constraints	Proc. Intern. Symp. Information Theory (ISIT)	June	2017	Aachen, Germany
Jace McPherson , Adam Bliss, Flora Smith, Edmund Harriss, Wenchao Zhou	A Slicer and Simulator for Cooperative 3D Printing	28th International Solid Freeform Fabrication Symposium	August	2017	Austin, TX
Jacob Currence , Rolando Morales-Ortega, Jason Steck, Wenchao Zhou	A Floor Power Module for Cooperative 3D Printing	28th International Solid Freeform Fabrication Symposium	August	2017	Austin, TX
Jason Steck , Rolando Morales-Ortega, Jacob Currence, Wenchao Zhou	A Mobile Gripper Robot for Cooperative 3D Printing	28th International Solid Freeform Fabrication Symposium	August	2017	Austin, TX
Stephens SE, Liachenko S, Wenk JF, Jensen MO	In vitro left heart system with 7T MRI provides high resolution mitral valve 3D imaging datasets for computational modeling	Proceedings of the SB ³ C2017 Summer Biomechanics, Bioengineering and Biotransport Conference	June	2017	Tucson, AZ

Wenk JF, Jensen MO:	Finite Element Modeling of Mitral Valve Patch Augmentation and Effects on Chordal Force Distribution	Proceedings of the SB ³ C2017 Summer Biomechanics, Bioengineering and Biotransport Conference	June	2017	Tucson, AZ
Alves, T., P. Desai, K. L. Needy , and A. Hegwood	Impact of supplier evaluation on product quality	25 th Conference of the International Group for Lean Construction	July	2017	Heraklion, Greece
Lee, H., K. M. Sullivan and J. A. White	A Multi-Product Dynamic Block Stacking Problem with Deterministic Demand	Annual Industrial and Systems Engineering Research Conference	May	2017	Pittsburgh, PA
Lee, H., K. M. Sullivan and J. A. White	Sizing a Block Stacking Storage System	Annual Industrial and Systems Engineering Research Conference	October	2017	Houston, TX
Kittu, A. , Bernhardt, M.	Effects of Common Boundary Types in Direct Shear Tests	Proc. of Geotechnical Frontiers	March	2017	Orlando, FL
Liao, H. and S. Karimi	Comparison Study on General Methods for Modeling Lifetime Data with Covariates	The 2017 Prognostics and System Health Management Conference	July	2017	Harbin, China
Liu, X. , C. T. Tan, and D. Pare	A Case Study on the Modeling of System State Degradation for Data Center Cooling Systems	Prognostics and System Health Management Conference	July	2017	Harbin, China
Lucas Galvan Marques , Robert Austin Williams, Wenchao Zhou	A Mobile 3D Printer for Cooperative 3D Printing	28th International Solid Freeform Fabrication Symposium	August	2017	Austin, TX

Shbool, M. and M. D. Rossetti	Physician Preference Items – a Decision Making Framework	Annual Industrial and Systems Engineering Research Conference	May	2017	Pittsburgh, PA
Bowman, T., and M. El-Shenawee	Nondestructive Imaging of Packaged Microelectronics using Pulsed Terahertz Technology	International Microelectronics and Packaging Society (IMAPS) 2017	October	2017	Raleigh, NC
Bowman, T., K. Bailey, and M. El-Shenawee	Pulsed Terahertz Imaging of Fresh and Fixed Human Breast Cancer Tissue	42nd International Conference on Infrared, Millimeter and Terahertz Waves	August-Sept	2017	Cancun, Mexico
Bowman, T., K. Bailey, and M. El-Shenawee	Terahertz Imaging of Freshly Excised Invasive Ductal Carcinoma Breast Tumors	URSI General Assembly and Scientific Symposium	August	2017	Montreal, Quebec, Canada
Bowman, T., A. Walter, O. Shenderova, N. Nunn, G. McGuire, and M. El-Shenawee	Nanoparticle-Enhanced Terahertz Imaging of Breast Cancer Phantoms	Proc. of UNSC-URSI 2017	January	2017	Boulder, CO
Kintner, C., T. K. Anthony, A. I. Zaghoul, M. El-Shenawee , and S. J. Weiss	Free-space Measurement of 3D Periodic Metamaterial	URSI General Assembly and Scientific Symposium	August	2017	Montreal, Quebec, Canada
Walter, A., T. Bowman, O. Shenderova, N. Nunn, G. McGuire, and M. El-Shenawee	Terahertz Spectroscopy for the Characterization of Microdiamond and Nano-Onion Particles	Proc. of UNSC-URSI 2017	January	2017	Boulder, CO

H. Ding and M. Huang	“PolyPC: Polymorphic Parallel Computing Framework on Embedded Reconfigurable System”	Proceedings of 27th International Conference on Field-Programmable Logic and Applications (FPL)	Sept	2017	Ghent, Belgium
Vasan, R., F. Gao, M. O. Manasreh , and C. D. Heyes	Investigation of charge transport between nickel oxide nanoparticles and CdSe/ZnS alloyed nanocrystals	Materials research Society, Spring Meeting	April	2017	Phoenix, AZ
M. Roddy , H. Hodges, L. Roe, and A. Huang	Solid State Gas Generator For Small Satellite Deorbiter	IEEE 12 th International Conference on Nano/Micro Engineered and Molecular Systems	April	2017	Los Angeles, CA
Parsa, P., M.D. Rossetti , S. Zhang	Multi-Stop Truckload Planning	Annual Industrial and Systems Engineering Research Conference	May	2017	Pittsburgh, PA
Cox, D. and M.D. Rossetti	Simulation Modeling of Alternative Staffing and Task Prioritization in Manual Post-Distribution Cross Docking Facilities	Proceedings of the 2017 Winter Simulation Conference	December	2017	Las Vegas, NV
J. Smith and M. Gashler	"An Investigation of How Neural Networks Learn From the Experiences of Peers Through Periodic Weight Averaging"	16th IEEE International Conference on Machine Learning and Applications (ICMLA)	Dec	2017	Cancun, Mexico

Ma, B. and Tung, S.	AFM Assisted DNA Sequencing Based on Electronic Tunneling	12 th IEEE Annual International Conference on Nano/Micro Engineered and Molecular Systems	April	2017	Los Angeles, CA
James, H.M., Prieto, S. P., Greening, G., Muldoon T.	Optical metabolic imaging of human colorectal adenocarcinoma derived three-dimensional in vitro organoids for predicting potential response to therapy	Photonics West 2017	February	2017	San Francisco, CA
Prieto, S. P*., James, H. M., Muldoon T.	Quantification of morphological image features of AOM-induced dysplasia in murine colorectal tissue	Photonics West 2017	February	2017	San Francisco, CA
Harper M, Alhallak K, Rebello L, Nguyen K, Ravindranathan S, Lee D, Greene N, Muldoon T. , Zaharoff D, Quinn KP, Rajaram N.	Optical Metabolic Imaging of TWIST Inhibition in 4T1 Breast Cancer Cells	OSA Biophotonics Congress	April	2017	San Diego, CA
James, H.M*, Muldoon, T.	Optical metabolic imaging of colorectal cancer-derived organoids to quantify heterogeneous response to 5-fluorouracil	BMES Annual Fall Meeting	October	2017	Phoenix, AZ

Powless, A*., Muldoon, T.	Effect of sample bias on accuracy of a three-part leukocyte differential test when using AO-induced fluorescence and colorimetric features.	Photonics West 2017	February	2017	San Francisco, CA
Murray, C. , Cranor, B., Floyd, R., Pei, J.	Shear Behavior of 45-Year-Old AASHTO Type II Bridge Girders	PCI Convention and National Bridge Conference	March	2017	Cleveland, OH
Bowman, T., N. Rajaram, A. Chakraborty, K. Bailey, and M. El-Shenawee	Terahertz Imaging and Segmentation of Freshly Excised Xenograft Mouse Tumors	URSI General Assembly and Scientific Symposium	August	2017	Montreal, Quebec, Canada
Bowman, T., K. Khan, T. Chavez, K. Alhallak, D. Lee, N. Rajaram, A. Chakraborty, J. Wu, K. Bailey, and M. El-Shenawee	Terahertz imaging and segmentation of freshly excised xenograft mouse tumors	Proc. 32nd Intern. Union Radio Science General Assembly & Science Symposium	August	2017	Montreal, Quebec, Canada
Bowman, T., N. Rajaram , K. Bailey, and M. El-Shenawee	Terahertz Pulsed Imaging of Freshly Excised Xenograft Breast Cancer Tumors in Mice	101 st Arkansas Academy of Science Meeting	April	2017	Conway, AR
Bowman, T., A. Walter, N. Rajaram , Y. Wu, J. Gauch, L. Campbell, K. Bailey, and M. El-Shenawee	Advances in Terahertz Imaging of Human Breast Carcinomas and Tumor Phantoms	Proc. of Pittcon 2017	March	2017	Chicago, IL

Bowman, T., S. Ravindranathan,D. Zaharoff, N. Rajaram , K. Bailey, and M. El-Shenawee	Terahertz Imaging of Freshly Excised Murine Breast Cancer Tumors	Proc. of UNSC-URSI 2017	January	2017	Boulder, CO
Salman, Z., Nair , A., and Tung, S.	One-Dimensional Carbon Chains as Electrical Sensors for Single-Stranded DNA	12 th IEEE Annual International Conference on Nano/Micro Engineered and Molecular Systems	April	2017	Los Angeles, CA
Nicholas Holt , Ausitn VanHorn, Mahsa Montazeri, Wenchao Zhou	Microheater Array Powder Sintering: A Novel Additive Manufacturing Process	28th International Solid Freeform Fabrication Symposium	August	2017	Austin, TX
Nicholas Holt , Lucas Galvan Marques, Ausitn VanHorn, Mahsa Montazeri, Wenchao Zhou	Fabrication and Control of a Microheater Array for Microheater Array Powder Sintering	28th International Solid Freeform Fabrication Symposium	August	2017	Austin, TX
Mandal, S., M. Marie and O. Manasreh	Fabrication of nanoelectrode ensembles using silicon nanowires in an electrochemical glucose sensor	2016 IEEE SENSORS	Oct.-Nov.	Presented in 2016, published in 2017	Orlando, FL
Nusir, A. and O. Manasreh	Effect of ligand exchange on the photoresponsivity of near-infrared sensors based on PbSe nanocrystals	2016 IEEE SENSORS	Oct.-Nov.	Presented in 2016, published in 2017	Orlando, FL

Parnell, G., S. Goerger, E. Pohl	Reimagining Tradespace Definition and Exploration	American Society for Engineering Management International Annual Conference	October	2017	Huntsville, AL
Cortes, G, Prinz, G.	Seismic fragility analysis for unanchored tanks considering shell buckling	Proceedings of the 16th World Conference on Earthquake Engineering (16th WCEE)		2017	Santiago, Chile
W. Bao and Q. Li	“Hiding Critical Targets in Smart Grid Networks”	IEEE International Conference on Computing, Networking and Communications (ICNC) - Communications and Information Security Symposium	January	2017	Silicon Valley, CA
F. Zhang and Q. Li	“Deep Learning-Based Data Forgery Detection in Automatic Generation Control”	IEEE Conference on Communications and Network Security (CNS): International Workshop on Cyber-Physical Systems Security (CPS-Sec),	October	2017	Las Vegas, NV
A. Li, Q. Li, and V. Hu	“Access Control for Distributed Processing Systems: Use Cases and General Considerations”	Proceedings of IEEE International Conference on Collaboration and Internet Computing (CIC)	October	2017	San Jose, CA
F. Zhang, M. Mahler, and Q. Li	“Flooding Attacks against Secure Time-Critical Communications in the Power Grid”	IEEE International Conference on Smart Grid Communications (SmartGridComm) - Cyber Security and Privacy Symposium	October	2017	Dresden, Germany

W. Du and Q. Li	“Secure and Efficient Outsourcing of Large-Scale Nonlinear Programming”	IEEE Conference on Communications and Network Security (CNS),	Oct	2017	Las Vegas, NV
J. Fan, Q. Li , and G. Cao	“Privacy Disclosure Through Smart Meters: Reactive Power Based Attack and Defense”	IEEE/IFIP International Conference on Dependable Systems and Networks (DSN)	June	2017	Denver, CO
A. Nugroho and Q. Li	“Inferring Mobile Apps from Resource Usage Patterns”	IEEE International Conference on Mobile Cloud Computing, Services, and Engineering (Mobile Cloud)	April	2017	San Francisco, CA
Jones J, Majid F, Ramser H, Quinn KP	Non-invasive in vivo characterization of skin wound healing using label-free multiphoton microscopy	Photonics West- BIOS	January	2017	San Francisco, CA
Jones JD, Kolenc O, Peck H, Majid F, Ramser H, Quinn KP	In vivo quantification of skin wound metabolism through label-free multiphoton microscopy.	Gordon Research Conference on Tissue Repair and Regeneration	June	2017	New London, NH
Georgakoudi I, Liu Z, Pouli D, Quinn KP , Alonzo C.	Optical Tissue Diagnostics Based on Label-free, Functional Biomarkers	International Conference on Photonics and Imaging in Biology and Medicine	September	2017	Suzhou, China
Tandon I, Kolenc O, Quinn KP , Balachandran K.	Label-free metabolic biomarkers for assessing calcific aortic valve disease progression	BMES Annual Fall Meeting	October	2017	Phoenix, AZ
Lee D, Kolenc O, Jones JD, Quinn KP , Rajaram N	Optical imaging of field cancerization in the oral cavity.	BMES Annual Fall Meeting	October	2017	Phoenix, AZ

Baugh L, Liu Z, Quinn KP , Georgakoudi I, Black LD.	Two-photon excited fluorescence imaging of heart valves non-invasively identifies calcific nodules	BMES Annual Fall Meeting	October	2017	Phoenix, AZ
Jones JD, Ramser H, Kolenc O, Quinn KP	differences in diabetic wound metabolism In vivo label-free multiphoton microscopy reveals	BMES Annual Fall Meeting	October	2017	Phoenix, AZ
Liu Z, Pouli D, Sood D, Sundarakrishnan AK, Hui Mingalone CK, Arendt LM, Alonzo C, Quinn KP , Kuperwasser C, Zeng L, Schnelldorfer T, Kaplan DL, and Georgakoudi I.	Quantification of 3D organization of fiber-like structures in biological tissues.	Oral presentation in New England Symposium on Biomedical Optics	October	2017	Boston, MA
Alhomim, M., B. Alharbi, R. McCann	Decentralized Control of a Hybrid AC and DC Ring Bus Microgrid System	Frontiers of Power Conference	October	2017	Stillwater, OK
Al-Sarray, M., R. McCann	Control of an SSSC for Oscillation Damping of Power Systems with Wind Turbine Generators	IEEE Integrated Smart Grid Technologies Conference (ISGT 2017)	April	2017	Arlington, VA
Garrido, S., R. McCann	Medium Voltage Solar PV Transient Analysis using Krylov Subspace Techniques	Frontiers of Power Conference	October	2017	Stillwater, OK

Garrido, S., R. McCann , H. Liao	Krylov Subspace Based Model Order Reduction of Distribution Networks	North American Power Symposium (NAPS)	Sept	2017	Morgantown, WV
Niragire, A., R. Abdulkader, R. McCann	Linear Quadratic Gaussian Control for Resonance Damping in Microgrids with Cascaded Converters	IEEE Integrated Smart Grid Technologies Conference (ISGT 2017)	April	2017	Arlington, VA
Rahman, K., R. McCann	Advanced Lead Acid Batteries for Grid Storage as Stationery Energy Source	CIGRE Grid of the Future Symposium	October	2017	Cleveland, OH
Smith N., R. McCann	Energy Shaping Control of a Back-to-Back Converter for Microgrid Applications	IEEE Power & Energy Society General Meeting	July	2017	Chicago, IL
Bowman T, Alhallak K, Esparza T, Khan MK, Lee D, Rajaram N , Wu J, Chakraborty A, Bailey K, El-Shenawee M,	Terahertz Imaging of Freshly Excised Breast Cancer using Mouse Model	42nd International Conference on Infrared, Millimeter and Terahertz Waves	August	2017	Cancun, Mexico
Allison JP, Rebello L, Harper MG, and Rajaram N.	Optical imaging of breast cancer cell metabolism in response to varying periods of hypoxic stress.	BMES Annual Meeting	October	2017	Phoenix, AZ
Vargas Lopez I, Alhallak K, Rajaram N , Quinn KP	Rapid Quantification of Mitochondrial Fractal Dimension in Individual Cells	BMES Annual Meeting	October	2017	Phoenix, AZ

Rasul RB, Rajaram N	Intravital optical imaging of tumor vascular oxygenation and metabolism in murine breast cancer xenografts of varying metastatic potential	AACR. Advances in Breast Cancer Research	October	2017	Los Angeles, CA
Rajaram N , Diaz PM, Semeniak D, Alhallak K, Dings RPM	Optical imaging and spectroscopy of microenvironmental changes associated with radiation resistance in tumors	European Conferences on Biomedical Optics,	June	2017	Munich, Germany
Semeniak D, Diaz PM, Dings RPM, and Rajaram N	Determining the Sensitivity of Diffuse Reflectance Spectroscopy to Dose- and Depth-Dependent Changes in Tumor Oxygenation after Radiation Therapy.	OSA Biophotonics Congress	April	2017	San Diego, CA
Lee DJ, Kolenc O, Jones J, Quinn KP, Rajaram N.	Optical imaging of field cancerization in the oral cavity	BMES Annual Meeting	October	2017	Phoenix, AZ
Diaz PM, Semeniak D, Alhallak K, Lee DJ, Dings RPM, and Rajaram N.	Quantitative Diffuse Optical Spectroscopy of Short-term Reoxygenation Kinetics in Radiation-Resistant and Sensitive Tumors	OSA Biophotonics Congress	April	2017	San Diego, CA

Christie, Martin A., John A. Dominick III, Robert E. Babcock , W. Roy Penney and Edgar C. Clausen	Comparison of Experimental Data and Model Results for the Depressurization of an Air Tank	Proceedings of the American Society for Engineering Education Midwest Regional Conference	Sept	2017	Stillwater, OK
Roper, D.K. , Dunklin, J.R., O'Brien, A	Enhanced catalysis by optical nanoantenna reduced on transition metal dichalcogenide	Nano-Micro Conf. 2017	May	2017	Shanghai, China
Rossetti, M. D. and H. Pierson	Analysis of Material Flow in a High-mix, Low-volume Job Shop: A Case Study	Proceedings of the American Society for Engineering Management 2017 International Annual Conference	October	2017	Huntsville, AL
S. Alfarhood, K. Labille, and S. Gauch	“Exploiting Link Differentiation in Linked Data Semantic Distance”	International Conference on Knowledge Engineering and Semantic Web (KESW 2017)	Nov	2017	Szezecin, Poland
K. Labille, S. Gauch , and S. Alfarhood	“Creating Domain- Specific Lexicons via Text Mining”	6th KDD Workshop on Issues of Sentiment Discovery and Opinion Mining (WISDOM 2017)	August	2017	Halifax, Nova Scotia, Canada
S. Alfarhood, S. Gauch , and K. Labille	“PLDSD: Propagated Linked Data Semantic Distance”	26th IEEE International Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises (WET ICE) – Web2Touch Track: Semantic Technologies in Smart information Sharing and Web Collaboration	June	2017	Poznan, Poland

Garay Sianca, A., S.G. Nurre , C.L. Castros Salas, and H.R. Alvarez	Data Processing on Larger Interdependent Networks: An Application for Infrastructure Preparedness and Restoration	6 th Engineering Sciences and Technology International Conference	October	2017	Panama City, Panama
Alahmad, H., M. Alher, S. Al-Kabi, S. A. Ghetmiri, A. Mosleh, S.-Q. Yu , H. Naseem	Growth and characterization of GePb Alloy using layer inversion method	EMC 2017	June	2017	South Bend, IN
Du, W., S. Ghetmiri, S. Al-Kabi, J. Margetis, Y. Zhou, W. Dou, A. Mosleh, J. Liu, G. Sun, R. Soref, J. Tolle, B. Li, M. Mortazavi, and S.-Q. Yu	Study of SiGeSn/GeSn/SiGeSn Quantum Well towards All Group-IV- Optoelectronics	CLEO 2017	May	2017	San Jose, CA
Eales, T., I. P. Marko, S. A. Ghetmiri, W. Du, Y. Zhou, S.-Q. Yu , J. Margetis, J. Tolle, S. Schulz, E. O'Halloran, E. P. O'Reilly and S. J. Sweeney	New experimental evidence for nature of the band gap of GeSn Alloys	SPIE Photonics West, No. 10108-48	Jan-Feb	2017	San Francisco, CA

Ma , J., Y. Zhang, X. Wang, L. Ying, S. Masoodian, Z. Wang, D. A. Starkey, W. Deng, R. Kumar, Y. Wu, S. A. Ghetmiri, Z. Yu, S.-Q. Yu , G. J. Salamo, E. R. Fossum, J. Liu	Prospects and fundamental limitations of room temperature, non-avalanche, semiconductor photon-counting sensors	Proc. SPIE 10212, Advanced Photon Counting Techniques XI	June	2017	Anaheim, CA
Margetis, J., J. Tolle, S. Al-Kabi, Y. Zhou, H. Tran, T. Pham, W. Dou, P. Grant, S.-Q. Yu , W. Du, S. Ghetmiri, M. Mortazavi, G. Sun, R. Soref, B. Li,	GeSn-based Light Sources and Photoconductors towards Integrated Photonics for the Mid-Infrared	2017 Summer Topicals Meeting Series	July	2017	San Juan, Puerto Rico
Elrajoubi, A., S.S. Ang , A.Abushaiba	TMS320F28335 DSP programming using MATLAB Simulink embedded coder: Techniques and advancements	2017 IEEE 18th Workshop on Control and Modeling for Power Electronics (COMPEL)	July	2017	Stanford, CA
Zhou, H. J., Taylor D Young, S.S. Ang , Tom H Froedge, B. B. Yan	Evaluation of a 3D metal-organic framework Cu(bpy)V4O10 as a cathode material for Li-ion batteries	101 st Arkansas Academy of Science Meeting	April	2017	Conway, AR
Zaman, M., L. Chen, and S.S. Ang	Characterizing Nanoparticle Size by Using Dynamic Light Scattering Technique (DLS)	101 st Arkansas Academy of Science Meeting	April	2017	Conway, AR

Manoharan, A., S.S. Ang	A MOS2/Fe3O4 -rGO nanocomposite based EDLC supercapacitor with enhanced energy and power density	IDTechEx conference	Nov	2017	San Jose, CA
Dutta, A., S.S.Ang	Effects of Parasitic Parameters on Electromagnetic Interference of Power Electronic Modules	Applied Power Electronics Conference	March	2017	Tampa, FL
Sammy Sadaka and Karl VanDevender	Chain Saw Safety-FSA1009:	Cooperative Extension Fact Sheet http://www.uaex.edu/publications/PDF/FSA-1009.pdf		2017	Little Rock, AR
Sammy Sadaka	Grain Bin Entrapment and Engulfment – Causes, Prevention and Rescue	Cooperative Extension Fact Sheet http://www.uaex.edu/publications/PDF/FSA-1010.pdf		2017	Little Rock, AR
Sammy Sadaka	Awareness of Residential Fire Safety	Cooperative Extension Fact Sheet http://www.uaex.edu/publications/PDF/FSA-1020.pdf		2017	Little Rock, AR
Sammy Sadaka and John Magugu	Tornado Safety-FSA1024	Cooperative Extension Fact Sheet http://www.uaex.edu/publications/PDF/FSA-1024.pdf		2017	Little Rock, AR
Sammy Sadaka	Skid-Steer Safety-FSA1025:	Cooperative Extension Fact Sheet http://www.uaex.edu/publications/PDF/FSA-1025.pdf		2017	Little Rock, AR

Sammy Sadaka	Instructions for Safe Storage and Management of On-Farm Fuels and Chemicals-FSA1034:	Cooperative Extension Fact Sheet https://www.uaex.edu/publications/pdf/FSA-1034.pdf		2017	Little Rock, AR
Sammy Sadaka	Caulking and Weatherstripping-FSA1049:	Cooperative Extension Fact Sheet http://www.uaex.edu/publications/PDF/FSA-1049.pdf		2017	Little Rock, AR
Sammy Sadaka	Biodiesel-FSA1050:	Cooperative Extension Fact Sheet http://www.uaex.edu/publications/PDF/FSA-1050.pdf		2017	Little Rock, AR
Sammy Sadaka	Gasification, Producer Gas and Syngas-FSA1051	Cooperative Extension Fact Sheet http://www.uaex.edu/publications/PDF/FSA-1051.pdf		2017	Little Rock, AR
Sammy Sadaka and A. A. Boateng	Pyrolysis and Bio-Oil-FSA1052:	Cooperative Extension Fact Sheet http://www.uaex.edu/publications/PDF/FSA-1052.pdf		2017	Little Rock, AR
Sammy Sadaka	Ceiling Fans-FSA1053:	Cooperative Extension Fact Sheet http://www.uaex.edu/publications/PDF/FSA-1053.pdf		2017	Little Rock, AR
Sammy Sadaka	Energy Efficient Lighting-FSA1054:	Cooperative Extension Fact Sheet http://www.uaex.edu/publications/PDF/FSA-1054.pdf		2017	Little Rock, AR

Sammy Sadaka, Karl VanDevender, Thomas Costello and Mahmoud Sharara	Partial Composting for Biodrying Organic Materials-FSA1055:	Cooperative Extension Fact Sheet http://www.uaex.edu/publications/PDF/FSA-1055.pdf		2017	Little Rock, AR
Sammy Sadaka and Donald Johnson	Biomass Combustion- FSA1056:	Cooperative Extension Fact Sheet http://www.uaex.edu/publications/PDF/FSA-1056.pdf		2017	Little Rock, AR
Sammy Sadaka	On-Farm Hazards and Accident Prevention FSA 1061:	Cooperative Extension Fact Sheet https://www.uaex.edu/publications/pdf/FSA-1061.pdf		2017	Little Rock, AR
Sammy Sadaka and Donald Johnson	Large Farm Equipment Accident Prevention FSA 1062:	Cooperative Extension Fact Sheet https://www.uaex.edu/publications/pdf/FSA-1062.pdf		2017	Little Rock, AR
Sammy Sadaka, Griffiths Atungulu and Scott Osborn	Low Temperature Grain Drying FSA 1063:	Cooperative Extension Fact Sheet https://www.uaex.edu/publications/pdf/FSA-1063.pdf		2017	Little Rock, AR
Sammy Sadaka, Karl VanDevender and Griffiths Atungulu	On-Farm Grain Drying Methods FSA 1072:	Cooperative Extension Fact Sheet http://www.uaex.edu/publications/PDF/FSA-1072.pdf		2017	Little Rock, AR
Sammy Sadaka	Tips for On-Farm Equipment, Metal and Livestock Protection From Theft FSA 1064:	Cooperative Extension Fact Sheet https://www.uaex.edu/publications/pdf/FSA-1064.pdf		2017	Little Rock, AR

Sammy Sadaka and Donald Johnson	On-Farm Safety for Grain Wagons, Semi-Tractor Trailers and Trailers FSA 1065:	Cooperative Extension Fact Sheet https://www.uaex.edu/publications/pdf/FSA-1065.pdf		2017	Little Rock, AR
Smith, S., Hernandez, S., and Braham, A.,	Developing a Statewide Facility Inventory: Challenges and Lessons Learned	2017 Annual Meeting of the Transportation Research Board	January	2017	Washington D.C.
Spicer, T. and D. Miller	Quantifying the Mass Release Rate for Flashing Two Phase Releases	American Institute of Chemical Engineers 2017 Spring Meeting, 13th Global Congress on Process Safety	March	2017	San Antonio, TX
Spicer, T., and A. Feuvrier	Investigating the Reactivity of Chlorine with Environmental Materials in Relevant, Controlled Conditions	International Workshop on Physical Modeling of Flow and Dispersion PhenomenonPHYSMOD 2017,	Aug	2017	Nantes, France
Spicer, T., A. Feuvrier, and S. Fox	Transient Large-Scale Chlorine Releases in the Jack Rabbit II Field Tests: Rainout Source Data Analysis from Video Records	Mary Kay O'Connor Process Safety Center International Symposium 2017	Oct	2017	College Station, TX
Xie, S., Wang, X., Jiao, N., Wang, J., Dai, L., Liu, L. and Tung, S.	Trapping and Dynamical Analysis of Swimming Algae Cells based on Optically-Induced Dielectrophoresis	12 th IEEE Annual International Conference on Nano/Micro Engineered and Molecular Systems	April	2017	Los Angeles, CA

Cao, Y., W. Li and W. Chaovalitwongse	Hybrid Comprehensive Learning Particle Swarm Optimizer with Adaptive Starting Local Search	Proceedings of the Eighth International Conference on Swarm Intelligence, Springer Lecture Notes in Computer Science (LNCS)	August	2017	Fukuoka, Japan
Day, S.E., M.B. Spraker, L. Wootton, D.S. Hippe, W. Chaovalitwongse , M. Hoff, L.M. Halasz, and M. Nyflot	Radiomic Features Extracted from Magnetic Resonance Imaging (MRI) Are Associated with Clinical Outcomes in Low-Grade Glioma	Proceedings of the American Society for Radiation Oncology (ASTRO) International Journal of Radiation Oncology, Biology, Physics, 99(2): E69, 2017.	September	2017	San Diego, CA
Spraker, M.B., L. Wootton, D.S. Hippe, W. Chaovalitwongse , M.W. Macomber, T.R. Chapman, S. Pollack, E.Y. Kim, and M. Nyflot	Radiomic Signature Extracted from Magnetic Resonance Imaging Predicts Outcomes in Soft Tissue Sarcoma	Proceedings of the American Society for Radiation Oncology (ASTRO) International Journal of Radiation Oncology, Biology, Physics, 99(2): S79-S80, 2017	September	2017	San Diego, CA
Thammasorn, P., L. Wootton, E. Ford, W. Chaovalitwongse , and M. Nyflot	Deep Convolutional Triplet Network for Quantitative Medical Image Analysis with Comparative Case Study of Gamma Image Classification	Proceedings of the 2017 International Workshop on Biomedical and Health Informatics in conjunction with the IEEE International Conference on Bioinformatics and Biomedicine	November	2017	Kansas City, MO

Wu, W., L. Pierce, W. Chaovalitwongse , S. Pipavath, P.D. Lampe, A.M. Houghton, P.E. Kinahan	Ability of Texture and Shape Features to Classify Indeterminate CT Lung Nodules with and without Contrast Enhancement	Proceedings of the IEEE Nuclear Science Symposium and Medical Imaging Conference	October	2017	Atlanta, GA
Xiao,C., P. Zhang, W. Chaovalitwongse , J. Hu, and F. Wang	Adverse Drug Reaction Prediction with Symbolic Latent Dirichlet Allocation	Proceedings of the Thirty-First AAAI Conference on Artificial Intelligence (AAAI-17)	February	2017	San Francisco, CA
Liu, M, Xu, L, Zhang, W, Cao, J, Shi, G, and Wejinya, U.C	Dynamic Posture Sensing Module on Micro IMU and Adaptive Filter Algorithm	2017 IEEE International Conference on Robotics and Biomimetics	December	2017	Macau, China
Liu, M, Guo, L, Cao, J, Shi, G, and Wejinya, U.C.	A Method of Improving the Manufacturing Quality of LC4 Girder	2017 IEEE International Conference on Robotics and Biomimetics	December	2017	Macau, China
Walker A, Compton G, Sturdivant N, Balachandran, K, Wolchok JC	The Role of TRPV4 on Extracellular Matrix Production by Astrocytes	Annual Meeting of the International Brain Injury Association	March	2017	New Orleans, LA
Roberts K, Walker A, Schluns J, Hestekin J, Wolchok JC	Engineering Extracellular Matrix Biofibers via Hollow Fiber Membrane Cell Culture	Annual Meeting of the Society for Biomaterials	April	2017	Minneapolis, MN

Sturdivant NM, Walker A, Zhang Y, Miles J, Ederle A, Rosas-Hernandez H, Cuevas E, Ali S, Wolchok JC , Balachandran K.	Development of a sIPN Hydrogel to Study the Effects of Traumatic Brain Injury on Astrocyte Remodeling	International Brain Injury Association World Congress	April	2017	New Orleans, LA
Kim J, Kasukonis K, Spradlin, S, Dunlap G, Washington, T, Wolchok JC	The Influence of Graft Alignment on Recovery for Muscle Injury	Summer Biomechanics, Bioengineering and Biotransport Conference	June	2017	Tucson, AZ
Kim J, Kasukonis K, Spradlin, S, Dunlap G, Washington, T, Wolchok JC	The Influence of Graft Alignment on Recovery for Muscle Injury	Annual Meeting of the Biomedical Engineering Society	October	2017	Phoenix, AZ
Walker A, Walker A, Terlouw, A, Schluns J, Echols E, Balachandran K, Wolchok JC	Astrocyte Mechanobiology and Regulation of the ECM Environment	Annual Meeting of the Biomedical Engineering Society	October	2017	Phoenix, AZ
Perry R, Haynie W, Bejarano K, Kim J, Roberts K, Greene N, Wolchok JC , Washington T	Autograph and Physical Activity Improve Force Recovery from Volumetric Muscle Loss	Central States American College of Sports Medicine	October	2017	St. Charles, MO
Green, R., Upadhyaya, S., Wood, C. , Maurer, B., Cox, B., Wotherspoon, L., Bradley, B., Cubrinovski, M.	Relative efficacy of CPT- versus Vs-based simplified liquefaction evaluation procedures	Proceedings of the 19th international conference on soil mechanics and geotechnical engineering		2017	Seoul, Korea

Wood, C. , McGann, C., Cox, B., Green, R., Wotherspoon, L, Bradley, B., Cubrinovski, M.	A comparison of CPT-Vs correlations using a liquefaction case history database from the 2010-2011 Canterbury Earthquake Sequence	Proceedings from 3rd International Conference on Performance-based Design in Earthquake Geotechnical Engineering		2017	Vancouver, Canada
Nikolaou, S., Vera-Grunauer, X., Gilsanz, R., Luque, R., Kishida, T., Diaz-Fanas, G., Antonaki, N., Toulkeridis, T. Miranda, E., Diaz, V., Alzamora, D., Athanasopoulos-Zekkos, A., Lyvers, G., Morales, E., Lopez, P., Rollins, K., Wood, C. , O'Rourke, T., Lopez, S.	GEER-ATC Mw7.8 Ecuador 4/16/16 Earthquake Reconnaissance Part I : Seismological & Ground Motion Aspects, ,	16th world Conference on Earthquake Engineering		2017	Santiago, Chile.
Morris, Z., Wood, C. , Feng, W	Comparison of Photogrammetry Processing Technologies	Transportation Research Board 96th annual Meeting	January	2017	Washington, DC
N. Nguyen, M. Leu, and X. Liu	“Real-time communication for manufacturing cyber-physical systems”	Proceedings of 2017 IEEE 16th International Symposium on Network Computing and Applications (NCA)	Oct	2017	Cambridge, MA

M. Rahman, X. Liu , and B. Cao	“Web API Recommendation for Mashup development using Matrix Factorization on Integrated Content and Network Based Service Clustering”	Proceedings of 2017 IEEE International Conference on Services Computing	June	2017	Honolulu, Hawaii
S. Sunny, X. Liu , and M. Shahriar	“MTComm: A Semantic Ontology Based Internet Scale Communication Method of Manufacturing Services in a Cyber-Physical Manufacturing Cloud”	Proceedings of the 2nd IEEE International Congress on Internet of Things	June	2017	Honolulu, Hawaii
H. Li, J. Liu, B. Cao, M. Tang, X. Liu , and B. Li	“Integrating Tag, Topic, Co-occurrence, and Popularity to Recommend Web APIs for Mashup Creation”	Proceedings of 2017 IEEE International Conference on Services Computing	June	2017	Honolulu, Hawaii
N. Phan, X. Wu , H. Hu, and D. Dou	"Adaptive Laplace Mechanism: Differential Privacy Preservation in Deep Learning"	Proceedings of the IEEE International Conference on Data Mining (ICDM)	Nov	2017	New Orleans, LA
L. Zhang, Q. Pan, and X. Wu	"Modeling SNP and Quantitative Trait Association from GWAS Catalog Using CLG Bayesian Network"	Proceedings of the IEEE International Conference on Bioinformatics and Biomedicine (BIBM)	Nov	2017	Kansas City, MO

Q. Pan, L. Zhang, and X. Wu	"STP: An SNP-Trait Inference Platform"	Proceedings of the IEEE International Conference on Bioinformatics and Biomedicine (BIBM)	Nov	2017	Kansas City, MO
S. Yuan, X. Wu , A. Lu, and J. Li	"Spectrum-based Deep Neural Networks for Fraud Detection"	Proceedings of the 26th ACM International Conference on Information and Knowledge Management (CIKM)	Nov	2017	Singapore
Y. Li, X. Wu and A. Lu.	"On Spectral Analysis of Directed Signed Graphs"	Proceedings of the 4th IEEE International Conference on Data Science and Advanced Analytics (DSAA)	Oct	2017	Tokyo, Japan
L. Zhang, Y. Wu, and X. Wu .	"A Causal Framework for Discovering and Removing Direct and Indirect Discrimination"	Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI),	August	2017	Melbourne, Australia
L. Zhang, Y. Wu and X. Wu .	"Achieving Non-Discrimination in Data Release"	Proceedings of the 23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)	August	2017	Halifax, Nova Scotia, Canada
D. Xu, S. Yuan and X. Wu	"Differential Privacy Preserving Causal Graph Discovery"	Proceedings of the 1st IEEE Symposium on Privacy-Aware Computing (PAC),	August	2017	Washington DC
S. Katla, D. Xu, Y. Wu, Q. Pan, and X. Wu .	"DPWeka: Achieving Differential Privacy in WEKA"	Proceedings of the 1st IEEE Symposium on Privacy-Aware Computing (PAC)	August	2017	Washington DC

S. Yuan, X. Wu and Y. Xiang	"SNE: Signed Network Embedding"	Proceedings of the Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD)	May	2017	Jeju, South Korea
S. Yuan, P. Zheng, X. Wu , and Y. Xiang	"Wikipedia Vandal Early Detection: from User Behavior to User Embedding"	Proceedings of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD)	Sept	2017	Skopje, Macedonia
Y. Peng , D. Petranovic and S. Lim	"Chip/Package Co-Analysis and Inductance Extraction for Fan-Out Wafer-Level-Packaging"	Conference on Electrical Performance of Electronic Packaging and Systems		2017	
Q. Le, T. Evans, S. Mukherjee, Y. Peng , T. Vrotsos, and H. Mantooth	"Response Surface Modeling for Parasitic Extraction for Multi-Objective Optimization of Multi-Chip Power Modules (MCPMs)"	IEEE Workshop on Wide Bandgap Power Devices and Applications		2017	
Y. Peng , D. Petranovic and S. Lim	"Die-to-Package Coupling Extraction for Fan-Out Wafer-Level-Packaging"	IEEE Electrical Design of Advanced Packaging and Systems Symposium		2017	
Palaniappan, K., S. Veerapeneni, R. Cuzner and Y. Zhao	Assessment of the feasibility of interconnected smart DC homes in a DC microgrid to reduce utility costs of low income households	2017 IEEE Second International Conference on DC Microgrids (ICDCM)	June	2017	Nuremburg, Germany

Wang, L., X. Zhang, J. Deng, J. Yang, O. K. Oladele and Y. Zhao	Unwanted turn-on of SiC JFET bi-directional switches under influence of parasitic parameters	IECON 2017 - 43rd Annual Conference of the IEEE Industrial Electronics Society	Oct-Nov	2017	Beijing, China
Mahmud, M.H., Y. Zhao and L. Wang	A high-bandwidth PV source simulator using a sliding mode controlled interleaved buck converter	IECON 2017 - 43rd Annual Conference of the IEEE Industrial Electronics Society	Oct-Nov	2017	Beijing, China
Yousef, M. , Selvam, R.	The influence of tangential to translational velocity ratio on tornado force coefficients on building using CFD	Proceedings: The 13th Americas Conference on Wind Engineering (13ACWE)	May	2017	Gainesville, FL
Z. Sha, M. Wang, Y. Huang, N. Contractor, Y. Fu, W. Chen	Modeling Product Co- Consideration Relations: A Comparative Study of Two Network Models	21st International Conference on Engineering Design, ICED17	August	2017	Vancouver, Canada
S. J. Fu, Z. Sha, Y. Huang, M. Wang, Y. Fu, N. Contractor, W. Chen	Two-Stage Modeling of Customer Choice Preferences in Engineering Design Using Bipartite Network Analysis	2017 ASME International Design Engineering Technical Conferences & Computers and Information in Engineering Conference	August	2017	Cleveland, OH
M. Wang, Z. Sha, Y. Huang, S. J. Fu, Y. Fu, N. Contractor, W. Chen	Data-Driven Vehicle Preference Modeling and Prediction: A Multidimensional Network Analysis Approach	7th International Conference on Collaborative Innovation Networks	September	2017	Detroit, MI

Zhao, Y. , M. H. Mahmud and L. Wang	An online optimal reference flux searching approach for direct torque control of interior permanent magnet synchronous machines	IECON 2017 - 43rd Annual Conference of the IEEE Industrial Electronics Society	Oct-Nov	2017	Beijing, China
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IV. Unrefereed Publications and Proceedings (alphabetized by the first UA author, add rows as necessary)

Authors (Bold first UA author)	Publication Title	Month	Year
A. Djioleu , K. Rajan, G. Kandhola, D.J. Carrier, and J.-W. Kim.	Customized Synthesis of Cellulose Nanoparticles from Loblolly Pine Pulp. 2017 ASABE Annual International Meeting, July 16-19, Spokane, WA	July	2017
A. Sinha , A. Djioleu, J. Batta-Mpouma, G. Kandhola, J. Hockman, H. Han, and J.-W. Kim.	Synthesis and Functionalization of Cellulose Nanocrystals for Biomolecular Sensors. 12 th IEEE International Conference on Nano/Micro Engineered and Molecular Systems (IEEE-NEMS), April 9-12, Los Angeles, CA.	April	2017
Aldridge , D. J., K. D. Christensen, S. E. Watkins, Y. Vizzier-Thaxton and Y. Liang.	Temperatures experienced by commercial broiler chickens during transportation to processing. Abstract in 2017 International Poultry Scientific Forum, January 2017, Atlanta, GA, Poultry Science Society	January	2017
Austin, B.J. , J.B. Payne, S.E. Watkins, and B.E. Haggard.	How to collect your water sample and interpret the results for the poultry analytical package. AWRC Fact Sheet FS-2017-01		2017
Austin, B.J. , M. Daniels, and B.E. Haggard.	How to collect your water sample and interpret the results for the domestic analytical package. AWRC Fact Sheet FS-2017-02		2017
Cheek, L.	Honors Thesis. Sustainability Children's Book		2017
Chen, Z. , S. Ang	Area-efficient On-chip ESD Protection for High-speed Interface ICs		2017
Chen, Z. , S.Yu, A.Mantooth, S.Atcitty, R.Kaplar	High Temperature Optocoupler for 3D High Density Power Module	Oct	2017
Dalaeli, J.N. , Osborn, G.S.	Modified Indigo Method for High Ozone Concentration Samples. Paper presented at International Ozone Association World Congress		2017
Ezell, A.	Honors Thesis. Feasibility of an Improved Method for Deep Bed In-Bin Grain Drying. UA Honors Thesis Depository.		2017
G. Kandhola , K. Rajan, N. Labbe, D.J. Carrier, and J.-W. Kim.	Bio-Organosolv Pulping of Pine Chips with <i>Trametes versicolor</i> for Enhanced Enzymatic Hydrolysis and Lignin Extraction. 2017 ASABE Annual International Meeting, July 16-19, Spokane, WA.	July	2017

Haggard, Brian	Joint Study Committee, 2017. Final report to the Governors from the Joint Study Committee and Scientific Professionals: Summary, technical summary and recommendations. AWRC Technical Report MSC 384, 72 pp.		2017
J. Batta-Mpouma , A. Sinha, A. Djioleu, J.-M. Lim, J. Sakon, H. Han, and J.-W. Kim.	Engineering Liquid-Phase Stability of Cellulose Nanocrystal Films for Biological Applications. IEEE International Conference on Nano/Molecular Medicine and Engineering (IEEE-NANOMED), December 1-4, Shenzhen, China.	December	2017
J. Hockman , A. Sinha, H. Han, and J.-W. Kim.	Exploring a New Strategy for Modular Self-Assembly of Arbitrary 3-Dimensional Nanoparticle Structures with DNA-Linked Nanoparticle Building Blocks (nBLOCKs). 17 th IEEE International Conference on Nanotechnology (IEEE-NANO), July 25-28, Pittsburgh, PA.	July	2017
T. Fochtman, J. Hendricks, M. Patitz, H. Han, and J.-W. Kim .	Coarse-Grained Molecular Dynamic Simulation of DNA-Linked Nanoparticle Building Blocks on a GPU. 17 th IEEE International Conference on Nanotechnology (IEEE-NANO), July 25-28, Pittsburgh, PA.	July	2017
Kaushik, L. and Y. Liang.	Correlation analysis of core body temperature of broilers and heat index during transport in the Southeast United States. Abstract in 2017 International Poultry Scientific Forum, January 2017, Atlanta, GA, Poultry Science Society	January	2017
Li, Y. , J.H. Lin, J.P. Wang, and M. Liao.	Nanomaterials-based biosensor system for rapid detection of Salmonella Typhimurium in poultry supply chain. Proceedings of ACS 2018 Fall Meeting, August 20-24, 2017, Washington, DC.	August	2017
Liang, Y. , S. E. Watkins, K. D. Christensen, Y. Vizzier-Thaxton.	Characterizing thermal micro-environment during poultry transportation. Final report submitted to U.S. Poultry & Egg Association.	30-Sep	2017
Liang, Y. , D. J. Aldridge, K. Luthra, K. D. Christensen, S. E. Watkins, and Y. Vizzier-Thaxton	Trailer thermal environment during commercial broiler transportation. Abstract in 2017 International Poultry Scientific Forum, January 2017, Atlanta, GA, Poultry Science Society	January	2017

Liang, Y.	Air quality measurement using portable sensors. University of Arkansas Division of Agriculture, CES Factsheet, FSA1069		2017
Liang, Y.	Ambient air quality and its standard. University of Arkansas Division of Agriculture, CES Factsheet, FSA1071 (major revision).		2017
Liang, Y. and T.G. Tabler	Water use pattern differ between pad and sprinkler cooling. University of Arkansas Division of Agriculture, CES Factsheet, FSA1068.		2017
Parsa, P., M. D. Rossetti , S. Zhang	“Multi-Stop Truckload Planning”, NSF I/UCRC Final Report, CELDi, Medtronic, Inc.	May	2017
Mantooth, H. Alan	How connected cars introduce new cybersecurity challenges, IOT News	Sept	2017
McCann, R. , D. Bowman	Reduced Model of a Wind Generation Transmission System using Synchrophasor Data	July	2017
McCann, R. , M. Alsarray, D. Bowman	PMU Data for Wind Generation Transmission System Modeling	Sept	2017
Osborn, G.S. , Dalaeli, J.N.	Testing a Prototype for Improved Carbonation of Beer. ASABE Paper No. 1700225. Presented 2017 ASABE International Meeting, Spokane, WA.	July	2017
Roddy, M. , H. Hodges, L. Roe, P. Huang	Demonstration of a Solid-State Inflation Balloon Deorbiter	November	2017
Spicer, T. , S. Fox, L. Stockham, T. Mazzola, J. Chang, S. Hanna, M. Sohn, and D. Nicholson	Overview of the Jack Rabbit II Chlorine Field Trials	Nov	2017
Fu, Y.C., Q. Zhang, L.Y. Li, Q.J. Xie, S.Z. Yao, and Y. Li .	Electrochemical conversion of magnetic nanoparticles with multiple interfacial effects for biosensing of avian influenza virus. Proceedings of ACS 2018 Fall Meeting, August 20-24, 2017, Washington, DC.	August	2017
Wen, T., R. Wang, A. Sotero, and Y. Li* .	A portable impedance immunosensing system for rapid detection of Salmonella Typhimurium. ASABE Paper No. 1700368, the ASABE 2017 Annual International Meeting, July 16-19, 2017, Spokane, WA. DOI: 10.13031/aim.201700368. <i>ASABE-ITSC Meeting Paper Award</i> .	July	2017
Dai, H., Y.C. Fu, and Y. Li*	Monitoring enzyme catalysis confined in nanochannels through catalyzed polymer deposition. Proceedings of ACS 2018 Fall Meeting, August 20-24, 2017, Washington, DC.	August	2017

Li, Z.S., G.S. Zhou, Q. Zhang, H. Dai, Y.C. Fu, and Y. Li* .	Biomimetic biomineralization-inspired hybrid electrospun-silk-nanofiber@metal-organic- framework membranes for universal water purification. Proceedings of ACS 2018 Fall Meeting, August 20-24, 2017, Washington, DC.	August	2017
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V. Invited Lectures and Conference Presentations (alphabetized by the first UA author, add rows as necessary)

Authors (Bold first UA author)	Presentation Title	Event	Month	Year	Location
Kirac, E. and A. B. Milburn	Multiple plan approach for the dynamic team orienteering problem.	INFORMS Annual Meeting	October	2017	Houston, TX
McNeill, C. and A. B. Milburn	Home health surge capacity: the supply side.	Southern Nursing Research Society Annual Conference	February	2017	Dallas, TX
Kirac, E. and A. B. Milburn	The dynamic team orienteering problem.	Institute of Industrial and Systems Engineering Annual Meeting	May	2017	Pittsburgh, PA
Kilinc, M. and A.B. Milburn	A study of telehealth diffusion among US home healthcare agencies using system dynamics	Institute for Industrial and Systems Engineers Annual Meeting	May	2017	Pittsburgh, PA
Hudgeons, A., A.B. Milburn and C. McNeill	Dispensing medical countermeasures in public health emergencies via home health agencies and Points of Distribution.	INFORMS Annual Meeting	October	2017	Houston, TX
Ackerson, Michael D	Hydroprocessing technologies for speciality products	H&R Chemishe	Dec	2017	Hamburg, Germany
Ashok Saxena and Amit Prakash	Low Cost Hydrogen Storage at 875 Bar Using Steel Liner and Steel Wire Wrap	DOE Annual Merit Review Conference	June	2017	Washington, DC
Baker, E. , Deschenes, M., Wood, C.	Deep Shear Wave Velocity Profiling in North-Eastern Arkansas,	GeoMo Conference	May	2017	Rolla, MO
Balachandran, K.	Drug-induced Heart Valve Disease	University of Miami, Department of Biomedical Engineering Seminar Series		2017	Miami, Florida

Balachandran, K.	Cardiac and Neurovascular Systems-on-a-chip	American Society for Neurochemistry 2017 Meeting Invited Talk		2017	Little Rock, Arkansas
Balachandran, K.,	Serotonin-mediated Valve Disease	Keystone Serotonin Meeting	November	2017	Park City, Utah
Belcher, K., Jiang, H., Foster, R., Zhang, W.	Accumulation of Lead by Biofilms in Water Distribution Systems	Southwest AWWA annual conference	October	2017	Oklahoma City, OK
Belcher, K., Zhang, W	Accumulation of Lead by Biofilms in Water Distribution Systems	86th Arkansas Water Works & Water Environment Association Conference	May	2017	Hot Springs, AR
Belcher, K., Jiang, H., Foster, R., Zhang, W.	Accumulation and Release of Lead by Biofilms in Drinking Water Distribution Systems	AEESP Research and Education Conference	June	2017	Ann Arbor, MI
Belcher, K., Jiang, H., Foster, R., Zhang, W	Accumulation of Lead by Biofilms in Drinking Water Distribution Systems	Arkansas Water Resources Center Annual Conference	July	2017	Fayetteville, AR
Braham, A	Exploring Alternative Methods of Environmental Analysis	Pavement Life-Cycle Assessment Symposium	April	2017	Champaign, IL
Braham, A.	Life Cycle Cost Analysis of Full Depth Reclamation versus Traditional Maintenance and Rehabilitation Strategies.	ARRA Semi-Annual Meeting	October	2017	Minneapolis, MN
Braham, A.	Life Cycle Cost Analysis of Full Depth Reclamation versus Traditional Maintenance and Rehabilitation Strategies.	Rocky Mountain Asphalt Conference	February	2017	Denver, CO,

Braham, A.	Quantification and Characterization of Fracture Resistance in Asphalt Concrete Based on R-Curve Method	Universitat Politècnica de Catalunya	March	2017	Barcelona, Spain
Braham, A.	Roadway Maintenance: A United States Perspective	Universitat Politècnica de Catalunya	March	2017	Barcelona, Spain
Braham, A.	Pavement Maintenance and Rehabilitation: Assessing a Life Cycle Cost Analysis	Texas A&M University	March	2017	Doha, Qatar
Braham, A.	AMEA online certificate development update	AEMA/ARRA/ISSA Annual Meeting	February	2017	Tucson, AZ
Braham, A.	Warm Mix Asphalt versus Hot Mix Asphalt: A Reflection on Compaction Behavior	Arizona State University	February	2017	Tempe, AZ
Kovacs, K., J. Lee, R. Nayga, C. Henry , J. Krutz, F. Tsiboe	Investment in irrigation efficiency and intertemporal time preferences.”	Invited presentation University of Florida, Gainesville, FL	November	2017	Gainesville, FL
Kovacs, K., J. Lee, R. Nayga, C. Henry , J. Krutz, F. Tsiboe	“Producer discount rates for investment in irrigation efficiency.”	Invited presentation Kansas State University	September	2017	Manhattan, KS
Chaovalitwongse, W. Art	Data Analytics in Neurophysiological and Neuroimaging Data	<u>Invited Seminar:</u> Graduate School of Engineering & Management	March	2017	Dayton, OH
Chaovalitwongse, W. Art	Data Analytics in Neurophysiological and Neuroimaging Data	<u>Invited Seminar:</u> School of Industrial Engineering and Management, Oklahoma State University	March	2017	Stillwater, OK
Chaovalitwongse, W. Art	Data Analytics in Neurophysiological and Neuroimaging Data	<u>Invited Research Talk:</u> Oculus Research (Facebook)	October	2017	Redmond, WA

Clausen, E.C.	Insight from Successful Faculty	University of Arkansas, New Faculty Orientation	Aug	2017	Fayetteville, AR
Corro-Diaz, K., Hernandez, S	Implementation of a Learning Module Addressing Interdisciplinary Activities: Introducing Undergraduate Engineering Students to Emerging Transportation Data Collection Tools	American Society for Engineering Education (ASEE) Midwest Meeting,	September	2017	Stillwater, OK
Corro-Diaz, K., Hernandez, S	Service Learning Extracurricular Outreach Activities: Development and Implementation of a Transportation Engineering Learning Module	American Society for Engineering Education (ASEE) Midwest Meeting	September	2017	Stillwater, OK
D.K.Roper	Nanostructured photocatalysts and their applications	Nature Research Council Nano Micro Conference 2017	May	2017	Shanghai, China
D.K.Roper	Keynote Address	Institute of Biological Engineering Annual Meeting	March	2017	Salt Lake City, UT
D.K.Roper	Research Development: Challenges and Opportunities	The Pennsylvania State University	Feb	2017	State College, PA
Daniels, J., Heymsfield, E., Kuss M.,	Developing an Anti-Icing Airfield Runway Surface using Renewable Energy	2017 International Conference on Highway Pavements and Airfield Technology	Aug.	2017	Philadelphia, PA
David Andrew	Can We Eliminate Synthesis From A Programmers Development Pathh?	Distinguished Lecture as part of CSE colloquium series, University of Texas Arlington	Oct	2017	Texas

David Andrew	Can We Eliminate Synthesis From A Programmers Development Path?	Invited Talk at University of Florida	Nov	2017	Florida
Do, T., Pifer, A., Chowdhury, Z., Wahman, D., Zhang, W., Fairey, J.	Developing Fluorescence Sensor Systems for Early Detection of Nitrification in Chloraminated Drinking Water Distribution Systems”	Water Quality Technology Conference	November	2017	Portland, OR
Do, T., Pifer, A., Chowdhury, Z., Pressman, J., Wahman, D., Zhang, W., Fairey, J.	Fluorescence Sensors for Early Detection of Nitrification in Drinking Water Distribution Systems – Interference Corrections	Water Quality Technology Conference	November	2017	Portland, OR
Dominquez, D., Selvam, R.	Close to ground wind field in a vortex chamber using CFD, Proceedings:	The 13th Americas Conference on Wind Engineering (13ACWE)	May	2017	Gainesville, FL
El-Ghazaly, S.	Emerging RF Research Directions	Keynote Speaker - 17 th Mediterranean Microwave Symposium	Nov.	2017	Marseille, France
El-Ghazaly, S.	Developing Technology to Support Smart and Connected Communities	Keynote Speaker - 2017 International Conference on Smart Digital Environment/NSF Workshop on Smart Connected Communities	July	R2017	Rabat, Morocco
Speitel Jr., G., Wahman, D., Fairey, J.	DBPs and Biofilm Interactions in Distribution Systems	Gordon Research Conference – Disinfection Byproducts	July	2017	South Hadley, MA

Ford, D.M	Applications of a New Lattice-Based Model to Gas Separations with Mesoporous Membranes	Department of Chemical & Biomolecular Engineering, University of Tennessee	Nov	2017	Knoxville, TN
Ford, D.M	Thermodynamics, dynamics, and control in the directed assembly of small ensembles of colloidal particles	Department of Chemical & Biochemical Engineering, Missouri University of Science & Technology	April	2017	Rolla, MO
Ford, D.M	Thermodynamics, dynamics, and control in the directed assembly of small ensembles of colloidal particles	Physical Chemistry Group, Department of Chemistry & Biochemistry, University of Arkansas	March	2017	Fayetteville, AR
Ford, D.M., P.A. Monson, and A. Rathi	A New Lattice-Based Model of Adsorption and Transport in Mesopores	9 th Sino-US Joint Conference of Chemical Engineering	Oct	2017	Beijing, China
Small, C., G. Parnell , E. Pohl, S. Goerger, B. Cottam, E. Specking, Z. Wade	Engineered Resilient Systems with Value Focused Thinking	27th Annual INCOSE International Symposium	July	2017	Adelaide, Australia
Cilli, M., E. Specking, G. Parnell , E. Pohl, and Z. Wade	Assessing System Resilience across Multiple Objectives.	85th Military Operations Research Society Symposium	June	2017	West Point, NY
Torres, C., H. Liao, H. , and E. Pohl	Some Aspects in Selective Bayesian Accelerated Reliability Growth Modeling	The 2nd Sino-US Research Conference on Quality, Analytics and Innovations	June	2017	Tsinghua University, Beijing, China
Chivukula, B. and H. Pierson	The Effect of Process Parameters on Bond Strength between Additively Manufactured Components and Polymer Substrates	Industrial and Systems Engineers Annual Conference	May	2017	Pittsburgh, PA

Haggard, B	Serving at the Governor's Request	The Joint Study Committee. National Institutes of Water Resources Annual Meeting			Washington, D.C.
Haggard, B	Harmful Algal Blooms	2 nd Biennial Forum on Forestry and Drinking Water		2017	DeGray Lake resort, Arkadelphia, AR
Haggard, B.	Illinois River TMDL – what's happened, and where we are going?	Arkansas Society of Professional Engineers		2017	Hot Springs, AR
Hall, K.	University-Based Asphalt Materials and Flexible Pavements Education: Developing a Roadmap and Action Plan: Future Directions for Characterizing Cracking in Asphalt Pavements	FHWA Expert Task Group (ETG)	May	2017	Ames, IO
Hall, K.	Moving Towards Design and Construction Integration Through Performance-Related Specifications (PRS): University- Based Asphalt Materials and Flexible Pavement Education - Update	FHWA Expert Task Group (ETG)	Sept.	2017	Bozeman, MT
Hall, K.	Structural Design Guidelines for Porous Asphalt Pavements	National Asphalt Pavement Association (NAPA) Mid-Year Conference	July	2017	Chicago, IL
Hall, K.	The MEPDG/Pavement-ME: Future Directions (?)	FHWA Asphalt Materials Performance Tester (AMPT) User- Group Meeting	Oct.	2017	Denver, CO

Hall, K.	Engineering Pavement Performance	National Asphalt Pavement Association (NAPA) Paving Conference	Oct.	2017	Denver, CO
Hall, K.	Structural Design of Porous Asphalt Pavements	Arkansas Public Works Association (APWA) Fall Conference	Oct.	2017	Fayetteville, AR
Hernandez, S., Corro-Diaz, K..	STEM Outreach for Middle and High School Girls	MOVITE Fall Meeting	October	2017	Hot Springs, AR
Hernandez, S., Braham, A.	Enhancing Transportation Engineering for Students at the University of Arkansas.	2018 Annual Meeting of the Transportation Research Board	January	2018	Washington D.C.
Hernandez, S. and Camargo, P.	Development and Applications of Vehicle Trajectories: A map matching algorithm harnessing open source software	Innovations in Freight Data Workshop	May	2017	Irvine, CA
Heymsfield, E.	Developing Research Needs Statements (RNS) and Problem Statements (PS)	2017 TRB Annual Meeting	Jan.	2017	Washington, DC
Heymsfield, E., Tingle, J.	A Review of Airfield Pavement Structure Design/Analysis Codes	2017 International Conference on Highway Pavements and Airfield Technology	Aug.	2017	Philadelphia, PA
Heymsfield, E., Hernandez, S., Pasley, K., Butterfield, J.	Bridge Load Posting Based on Actual Arkansas Truck Traffic (TRC 1701)	AHTD Transportation Research Committee's Engineering Conference	May	2017	Hot Springs, AR
Himel, A. , Wood, C.	The Impact Of Installation Technique And Recording Time On Horizontal-to-Vertical Spectral Ratio Measurements in The Mississippi Embayment	GeoMo Conference	May	2017	Rolla, MO

Huitink, David	Reliability in Power electronics	POETS ERC Webinar	February	2017	University of Arkansas, Fayetteville, AR
Huitink, David	Challenges for Reliability of Electronics	Oak Ridge National Labs	June	2017	Oak Ridge, TN
Huitink, David	SiC Packaging and Research at UofA	Texas Instruments	November	2017	Dallas, TX
J. A. Hestekin	Uses of Electrodialysis in Energy and the Environment	IDEA Membrane Conferences	Sept	2017	Azores
John A. White	How to Become a Successful Leader	2017 INFORMS Academic Leadership Workshop	October	2017	Houston, TX
John A. White	My Teaching Journey	Walton College Center for Teaching Effectiveness	October	2017	Fayetteville, AR
H. Lee, K.M. Sullivan , and J. A. White	A Multi-Product Dynamic Block Stacking Problem with Deterministic Demand	Industrial and Systems Engineering Conference	May	2017	Pittsburgh, PA
J.T. Margolis, K.M. Sullivan , S.J. Mason, and M. Magagnotti	A Multi-Objective Optimization Model for Designing Resilient Supply Chain Networks	IFORS Conference	July	2017	Quebec City, Canada
Kim, J.-W.	Programmable Molecular/Nanoscale Building Blocks for Advanced Nanotheranostics In Vivo.	The 10 th International Conference on Advanced Materials and Devices (ICAMD)	December	2017	Jeju, Korea
Kim, J.-W.	Programmable Molecular/Nanoscale Building Blocks and Development Strategies for Real-Time, In Vivo Molecular/Nano Sensors	IEEE International Workshop on Nanotechnology for Robotics and Intelligent Systems (NRIS)	September	2017	Qinhuangdao, China
Kim, J.-W.	Bio/Nano Technology for Advanced Hybrid Materials and Devices	ASABE Annual International Meeting (Session: Technical Trends and Career Opportunities in the U.S. and Korea)	July	2017	Spokane, WA

Kim, J.-W.	Bio/Nano Technology for Advanced Hybrid Materials and Devices	University of Waterloo, Invited seminar	July	2017	Waterloo, ON, Canada
Kim, J.-W.	Advanced Nanotheranostics: Holistic Approach	Brain Korea 21 (BK21) Seminar, Kangwon National University	July	2017	Chuncheon, Korea
Kim, J.-W. and V.P. Zharov	Nanotheranostics of Circulating Pathological Features In Vivo.	12 th IEEE International Conference on Nano/Micro Engineered and Molecular Systems (IEEE-NEMS)	April	2017	Los Angeles, CA.
Kittu, A., Bernhardt, M.	Effects of Common Boundary Types in Direct Shear Tests	Proc. of Geotechnical Frontiers	March	2017	Orlando, FL
M. Abolhassani, A. Gankanda, P. Acharya, S. Foster, J. Ficut, R. Gilker, S. Candelaria, Z. Nelson, N. Rentz, L.F. Greenlee.	Opportunities for Non-Precious Metal Oxides and Electrochemistry in Water Treatment and Energy Conversion	NASA Ames Research Center	Aug	2017	Moffett Field, CA
M. Abolhassani, P. Acharya, A. Gankanda, S. Foster, S. Candelaria, Z. Nelson, N. Rentz, L.F. Greenlee	Fe _x Ni _{1-x} O _y Nanocatalysts for Alkaline Electrocatalysis and Reactive Water Treatment	Sandia National Laboratory	Sept	2017	Albuquerque, NM
M. Abolhassani, P. Acharya, A. Gankanda, S. Foster, S. Candelaria, Z. Nelson, N. Rentz, L.F. Greenlee	Fe _x Ni _{1-x} O _y Nanocatalysts for Alkaline Electrocatalysis and Reactive Water Treatment	University of New Mexico	Sept	2017	Albuquerque, NM
M. Abolhassani, P. Acharya, A. Gankanda, S. Foster, S. Candelaria, Z. Nelson, N. Rentz, L.F. Greenlee	Fe _x Ni _{1-x} O _y Nanocatalysts for Alkaline Electrocatalysis and Reactive Water Treatment	Los Alamos National Laboratory	Sept	2017	Los Alamos, NM

M. Abolhassani, P. Acharya, A. Gankanda, S. Foster, S. Candelaria, Z. Nelson, N. Rentz, L.F. Greenlee	Fe _x Ni _{1-x} O _y Nanocatalysts for Alkaline Electrocatalysis and Reactive Water Treatment	Lawrence Berkeley National Laboratory	Aug	2017	Berkeley, CA
M. Abolhassani, A. Gankanda, S. Shinn, S. Watson, P. Acharya, Z. Nelson, S. Candelaria, L.F. Greenlee	Balancing Advanced Materials Design with Scalability for Efficient Water Treatment and Water Splitting Technologies	RE3 Workshop 2017: Renewable Energy & Energy Efficiency	May	2017	Louisville, KY
P. Acharya, S. Candelaria, N. Rentz, L.F. Greenlee	X-Ray Absorption Spectroscopy Characterization of Bimetallic Iron-Nickel Nanoparticle Electrocatalysts	American Chemical Society National Meeting	April	2017	San Francisco, CA
L.F. Greenlee	Fe-Ni Bimetallic Nanoparticles as an Electrocatalyst and a Reactive Water Treatment Material	Distinguished Seminar Series 2017, Imperial College	March	2017	London, England
L.F. Greenlee , J. N. Renner, M. Janik, W. Gellett, K. Ayers, N. Rentz, S. Foster, S. Perez, P. Acharya	Heterogeneous Catalysts for Low-Temperature Electrochemical Reduction of Nitrogen to Ammonia	9th Annual CEC Workshop on Electrochemistry, The University of Texas at Austin, Center for Electrochemistry	Feb	2017	Austin, TX
L.F. Greenlee	Fe-Ni Bimetallic Nanoparticles as an Electrocatalyst and a Reactive Water Treatment Material	University of Nevada, Las Vegas	Feb	2017	Las Vegas, NV
Li, Y.	Biosensors for agriculture and food: Opportunities and challenge	1st International Forum on Smart Agriculture (SmartAg 2017)	December	2017	East Lansing, MI
Li, Y.	Biosensors for agriculture and food: Opportunities and challenge	1st China Forum on Biosensors, Biochips and Nanotechnology (BBN China 2017)	October	2017	Foshan, Guangdong, China
Li, Y.	Biosensors for detection of pathogens bacteria and viruses in agriculture and food.	An invited presentation at University of Massachusetts	August	2017	Lowell, MA

Li, Y., J.H. Lin, J.P. Wang, and M. Liao	Nanomaterials-based biosensor systems for rapid detection of Salmonella Typhimurium in poultry supply chain.	ACS 2017 Fall Conference	August	2017	Washington, DC
Liang, Y.	Characterization of the thermal micro-climate of broiler during transport	The 7 th Annual Animal Wellbeing Symposium at the University of Arkansas	August	2017	Fayetteville, AR
Liao, H.	Component Replacement and Control of Deteriorating Spare Parts: Eat Fresh Apples First or Those Rotting Ones?	Invited seminar	February	2017	Department of Industrial and Systems Engineering, Wayne State University
Liao, H.	Advanced Methods for Modeling Accelerated Life Testing Data and Expediting Reliability Growth of Complex Systems	Invited seminar	June	2017	School of Reliability Engineering, Beihang University, Beijing, China
Liu, X.	A Statistical Modeling Approach for Large-scale Spatio-temporal Data	INFORMS annual conference	Oct	2017	Houston, TX
Liu, X.	Analysis of Reliability Experiments with Blocking	IMS/ASA Spring Research Conference	May	2017	Rutgers University, NJ
Liu, X.	A Spatio-Temporal Modeling Approach for Weather Radar Image Data	The 31st New England Statistics Symposium (NESS)	April	2017	University of Connecticut, CT
Cox, D. and M. D. Rossetti	Simulation Modeling of Alternative Staffing and Task Prioritization in Manual Post-Distribution Cross Docking Facilities	Proceedings of the 2017 Winter Simulation Conference	December	2017	Las Vegas, NV
Parsa, P., M. D. Rossetti , S. Zhang	Multi-Stop Truckload Planning	Industrial and Systems Engineering Conference	May	2017	Pittsburgh, PA

Shbool, M., M. D. Rossetti	Physician Preference Items – a Decision Making Framework	Industrial and Systems Engineering Conference	May	2017	Pittsburgh, PA
Mantooth, H. A.	Emerging Trends in Silicon Carbide Power Electronics	Keynote Talk – Southern Power Electronics Conference	Dec.	2017	Chili
Mantooth, H. A.	Wide Bandgap Power Electronics: A Growing Reliance on Design Automation	Plenary Talk – China Power Supply Society 2017 Annual Meeting	Nov	2017	Shanghai, China
Mantooth, H. A.	Cybersecurity in the Energy Sector	Energy Council University Advisory Board Seminar	Sept	2017	Little Rock, AR
Mantooth, H. A.	High Performance Silicon Carbide Power Packaging – Past Trends, Present Practices, and Future Directions	Keynote Address at InterPACK – Packaging and Integration of Electronic and Photonic Microsystems.	August	2017	San Francisco, CA
Mantooth, H. A.	Engaging the Future – Reaching the YP and WIE Audience Through Design Challenges	IGNITE Presentation, IEEE Sections Congress	August	2017	Sydney, Australia
Mantooth, H. A.	Partnering with Technical Organizations	Panel discussion, IEEE Sections Congress	August	2017	Sydney, Australia
Mantooth, H. A.	Integrated Power Electronics at the University of Arkansas	ETH Zurich	July	2017	Zurich, Switzerland
Mantooth, H. A.	Integrated Power Electronics at the University of Arkansas	KTH Stockholm	July	2017	Stockholm, Sweden
Mantooth, H. A.	Emerging Trends in Silicon Carbide Power Electronics	Keynote Talk, EPSRC Centre for Power Electronics	July	2017	Loughborough England
Mantooth, H. A.	Cybersecurity and Power Electronics	9 th IEEE Future of Electronic Power Processing and Conversion (FEPPCON)	June	2017	Kruger Park, South Africa
Mantooth, H. A.	Emerging Trends in Silicon Carbide Power Electronics	Keynote Talk, ECCE Asia	June	2017	Kaohsiung, Taiwan
Mantooth, H. A.	Wide Bandgap Analog and Mixed-signal IC Design for Advanced Power Electronics	231 st ECS Meeting, invited speaker	May	2017	New Orleans, LA

Mantooth, H. A.	Serving Humanity Through a Dynamic Profession	IEEE Power Electronics Society, Plenary Talk, IWIPP	April	2017	Delft, Netherlands
Mantooth, H. A.	Serving Humanity Through a Dynamic Profession	IEEE Power Electronics Society, IEEE Student Chapter, University of Arkansas	February	2017	Fayetteville, AR
Matlock, Marty	Board of Director's meeting Sustainability Frameworks for Beef	US Roundtable for Sustainable Beef	January	2017	Oklahoma City, OK
Matlock, Marty	Hosted workshop on resilient urban design, with UACDC, LSU and MSU	National Council on Science and the Environment	January	2017	Washington DC
Matlock, Marty	Keynote presentation – Sustainability Frameworks Across US Agriculture	International Poultry Production Exposition	January	2017	Atlanta, GA
Matlock, Marty	Keynote Speaker with Steve Luoni, UACDC	Design and Inspiration Series	February	2017	Arizona State University, Tempe, AZ
Matlock, Marty	Project Investigator Briefing on Corn LCA	National Corn Growers Association	February	2017	Chicago, IL
Matlock, Marty	Invited delegate - Role of US agriculture in land use change, 1990-2015	Land Use Change Impacts Conference – WWF	February	2017	Washington, DC
Matlock, Marty	Keynote presentation - The challenges of interdisciplinary work in higher education	Sustainability Conference	February	2017	Tulsa Community College, Tulsa, OK
Matlock, Marty	Engage community leaders and state agencies to design the Whitmore food hub	Stakeholder engagement workshop Whitmore Project	March	2017	Oahu, HI

Matlock, Marty	Keynote Presentation - Sustainability Frameworks for Cotton	The National Cotton Council	March	2017	Memphis TN
Matlock, Marty	Keynote Presentation - Sustainability Indicators and Metrics for US Animal Agriculture Production	National Institute of Animal Agriculture Annual Meeting	April	2017	Columbus, OH
Matlock, Marty	Keynote Presentation - Sustainability Frameworks for Cotton	The National Cotton Council Board Meeting	April	2017	Dallas, TX
Matlock, Marty	Represented UA OFS at the EarthX Earth Day Celebration, recruited students	EarthX	April	2017	Dallas, TX
Matlock, Marty	Keynote Presentation - Sustainability Indicators and Metrics for US Animal Agriculture Production	Association for International Agriculture and Rural Development AIARD	June	2017	Washington DC
Matlock, Marty	Invited - The Future of Sustainability for US Agriculture Production	Washington Post Interview	June	2017	Washington DC
Matlock, Marty	Invited Speaker - Measuring Water Resources Risk at Global Scales	University Council on Water Resources – UCOWR Meeting	June	2017	Ft. Collins, CO
Matlock, Marty	Keynote Presentation - Sustainability Indicators and Metrics for US Animal Agriculture Production	National Pork Board Director’s Meeting	June	2017	Des Moines, IA

Matlock, Marty	Received award for Standard of the Year, and Outstanding Service, for ANSI 629: Framework for Continuous Improvement in Sustainable Agriculture	American Society of Agricultural and Biological Engineers International Meeting	July	2017	Spokane WA
Matlock, Marty	Invited Presented work with UACDC on resilience and urban design	National Resilience Institute, AIA	August	2017	Washington, DC
Matlock, Marty	Invited – Role of stakeholders in complex resource decision making	US Tribal Lands Environmental Forum	August	2017	Tulsa, OK
Matlock, Marty	Invited Panelist – Sustainability Metrics and Feeding 10 billion	Food Dialogues – USFRA	September	2017	Lincoln, NE
Matlock, Marty	Invited speaker, panelist – Sustainability Metrics for US Beef	NGO Beef Sustainability Summit	September	2017	Boulder, CO
Matlock, Marty	Keynote Presentation - Sustainability Indicators and Metrics for US Agriculture Production	National Council on Food Cooperatives	October	2017	Stuttgart, AR
Matlock, Marty	Received International Honor Award for Urban Design with UACDC	LaFarge-Holcim Awards	October	2017	Chicago, IL
Matlock, Marty	Keynote Address – Designing for a Sustainable World	International Institute for Sustainable Laboratories	November	2017	Kansas City, KS
Matlock, Marty	Keynote – The Role of science in sustainability frameworks	Sustainable Agriculture Summit	November	2017	Kansas City, MO

Matlock, Marty	Keynote – Creating a sustainability framework for US Cotton	The National Cotton Council	November	2017	Memphis, TN
Matlock, Marty	Invited - Selecting and Reconciling Metrics for High Priority Indicators in Sustainable Beef	Foundation for Food and Agriculture Research	December	2017	Washington, DC
Matlock, Marty	Invited - Design of Sustainable Aquaculture Production Systems across SE Asia	The Malaysian Aquaculture Institute	December	2017	Kuala Lumpur, Malaysia
Meng, Xiangbo	Accomplishing high-performance advanced battery systems with highly tunable atomic and molecular layer deposition	REU Seminar, Mechanical Engineering, University of Arkansas	June	2017	University of Arkansas, Fayetteville, AR
Meng, Xiangbo	Atomic-scale designs of robust battery systems	ADA Technologies	July	2017	Littleton, CO
Meng, Xiangbo	Accomplishing high-performance advanced battery systems with highly tunable atomic and molecular layer deposition	Invited Seminar of College of Materials Science and Engineering	June	2017	Sichun University, Chengdu, China
Meng, Xiangbo	Promising applications of graphene for achieving high-performance lithium batteries	The Second International Forum on Industrialization of Graphene and the Related Materials	June	2017	Chengdu, China
Meng, Xiangbo	Atomic & molecular layer deposition – highly tunable and flexible techniques for advanced nanoscale materials	Materials Workshop at the Annual Conference of Center for Advanced Surface Engineering	June	2017	Little Rock, AR

Meng, Xiangbo	Atomic and molecular layer deposition – two powerful thin film techniques for new inorganic and organic material	Annual Conference of Center for Advanced Surface Engineering	June	2017	Little Rock, AR
Meng, Xiangbo	Accomplishing high-performance advanced battery systems with highly tunable atomic and molecular layer deposition	Department of Physics and Astronomy	April	2017	California State University, Northridge, CA
Meng, Xiangbo and J. W. Elam	Atomic Layer Deposition of Superionic Solid-State Electrolytes	17th International ALD Conferences	July	2017	Denver, CO
Milburn, A.B.	Can data posted to social platforms improve disaster response?	Smith College Math Symposium	September	2017	Northampton, MA
Milburn, A.B.	Building capabilities for a social data integrated disaster response.	Arkansas Emergency Management Conference	August	2017	Rogers, AR
Milburn, A.B.	Publishing cases in INFORMS Transactions on Education: author experience.	INFORMS Annual Meeting	October	2017	Houston, TX
Milburn, A.B.	Can data posted to social platforms improve disaster response?	Mount Holyoke Math/Stat Club	August	2017	South Hadley, MA
Milburn, A.B.	Home healthcare logistics planning.	University of Arkansas Industrial Engineering Honors Experience Class	September	2017	Fayetteville, AR
Millett PC	Computer Modeling of Multi-Phase Liquids for Membrane Applications	Chemistry & Biochemistry Department Seminar	November	2017	University of Arkansas, Fayetteville, AR

Murray, C., Cranor, B., Floyd, R., Pei, J.	Shear Behavior of 45-Year-Old AASHTO Type II Bridge Girders	PCI Convention and National Bridge Conference	March	2017	Cleveland, OH.
Nachtmann, Heather	Engineering Research at the University of Arkansas	Invited Seminar Beihang University	June	2017	Beijing, China
Nachtmann, Heather	Building Effective Research Proposals New Faculty Colloquium, Institute of	Industrial and Systems Engineers Annual Conference	May	2017	Pittsburgh, PA
Nachtmann, Heather	Modeling Dynamic Behavior of the McClellan-Kerr Arkansas River Navigation System (MKARNS)	Arkansas Waterways Association Annual Conference	November	2017	Little Rock, AR
Parnell, G., Pohl, E., Goerger, S.	Incorporating Resilience in an Integrated AOA Trade-off Analysis	Working Group 25, Decision Analysis, MORS 85th Symposium	June	2017	West Point, NY
Parnell, G. and C. Small	Engineered Resilient Systems with Value Focused Thinking	Mitre Systems Engineering Lecture	October	2017	Mitre Corporation, Washington DC
Pham, H., Wahman, D., Fairey, J.	Postulating an Additional NDMA Formation Pathway Relevant to Chloramination	Gordon Research Seminar – Disinfection Byproducts	July	2017	South Hadley, MA
Pham, H., Wahman, D., Fairey, J.	Postulating an Additional NDMA Formation Pathway Relevant to Chloramination	Gordon Research Conference – Disinfection Byproducts	July	2017	South Hadley, MA
Pham, H., Zhang, W., Wahman, D, Fairey, J.	Evidence for an additional NDMA formation pathway	Water Quality Technology Conference	November	2017	Portland, OR
Pohl, Letitia M.	Creating Instructional Videos that Students Will Watch	University of Arkansas, Baum Teaching Workshop	August	2017	Fayetteville, AR
Prinz, G.	Closure on the fatigue capacity of headed shear studs in composite bridge girders & future research	Presented to the AASHTO T-14 Committee and Bridge Task Force Design Advisory Group (DAG)	January	2017	Orlando, FL

Prinz, G.	Development of pre-stressed CFRP fatigue retrofits for common steel bridge connections	ASCE Structures Congress	April	2017	Denver, CO
Prinz, G.	Seismic demands on skewed SMF RBS connections Folded, adaptable steel [FASt] shelters for dense urban environments	Presented to RESSLAB, EPFL	June	2017	Lausanne, Switzerland
Prinz, G.	Corrosion tolerant pre-stressed CFRP fatigue retrofits for steel waterway lock gate components	Brigham Young University	November	2017	Provo, UT
Prinz, G.	Recent steel research at the University of Arkansas	10th Annual Structural Engineering Association of Arkansas (SEAoAR) Conference	November	2017	Little Rock, AR
Qian, X., Kamaz, M., Zhang, W., Wickramasinghe, S. R.	investigation of the Degradation of Endocrine Disrupting Compounds in a Membrane Bioreactor	9 th Sino-US Joint Chemical Engineering Conference	October	2017	Beijing, China
Qian, X. Sun, X	Simulations of Responsive Polymers for Membrane Applications	9 th Sino-US Joint Chemical Engineering Conference	October	2017	Beijing, China
Qian, X., Wickramasinghe, S. R	Magnetically Responsive Membranes	MRS Spring Meeting & Exhibit	April	2017	Phoenix, AZ
Qian, X., Sun, X.	Simulations of Responsive Polymers for Membrane Applications	MRS Spring Meeting & Exhibit,	April	2017	Phoenix, AZ
Qian, X., Upadhyaya, L., Wickramasinghe, S. R	MOF-based Mixed Matrix Organic Solvent Resistant Nanofiltration Membranes	ExxonMobil	October	2017	Clinton, NJ

Qian, X., Vu, A., Wickramasinghe, S. R.,	Catalytic Membranes for Biomass Fractionation and Dehydration'	Tianjin Polytechnique University	October	2017	Tianjin, China
Qinghua Li	Cybersecurity for Energy Delivery Systems through University-Industry Collaboration	Invited Speaker, University of Tennessee, Knoxville	May	2017	Tennessee
Qinghua Li	SPARTAN Project	Invited Speaker, SERC Reliability Corporation	Oct	2017	
Quinn KP.	Quantifying changes in cell metabolism through label-free multiphoton microscopy	Department of Biomedical Engineering Seminar Series at Temple University	February	2017	Philadelphia, PA
Rainwater, C., F. Enayaty, E. Pohl, W. Wang	Risk assessment in poultry production systems	Food Science Departmental Seminar	November	2017	Fayetteville, AR
Rainwater, C., E. Pohl	Dynamic Risk Assessment: China Poultry Supply Chain	2 nd Annual Poultry Excellence in China Meeting	June	2017	Hangzhou, China
Rainwater, C., W. Wang	Risk Assessment in Poultry Production Systems	Shen-nong Poultry Company Visit	June	2017	Wuyishan, China
Rainwater, C., F. Enayaty, E. Pohl, W. Wang	Risk-Driven Decision-Making Towards Food Protection in China: Quantitative Tools and Analysis	Society for Risk Analysis Conference	December	2017	Alexandria, VA
Rajaram, N.	Optical imaging and spectroscopy of microenvironmental changes associated with radiation resistance in tumors	European Conferences on Biomedical Optics	January	2017	Munich, Germany
Rajaram, N.	Optical biomarkers of radiation resistance in tumors	Eliminating Risks from High Activity Radioactive Materials through the Adoption of Alternative Technologies	June	2017	New York City, NY

Rajaram, N.	Quantitative optical sensing of radiation resistance in tumors	University of Arkansas for Medical Sciences Radiation Oncology retreat	March	2017	Little Rock, AR
Grace HE, Patrick Galdun P, Lesnefsky EJ, Mayr JA, Sperl W, Karall D, Rao RR , West F, Iyer S	Patient-specific stem cell models for mitochondrial diseases	10 th MiP School-Mitochondrial Physiology Society			<i>Obergurgl, Austria</i>
Ravishankar, P., Zeballos, M.A., Rao, R.R. , Balachandran, K.	Differentiation of endothelial progenitor cells using cyclic strain	Annual Meeting of the Biomedical Engineering Society	October	2017	Phoenix, Arizona
Rossetti, M. and H. Pierson	Analysis of Material Flow in a High-mix, Low-volume Job Shop: A Case Study	International Annual Conference of the American Society for Engineering Management	October	2017	Huntsville, AL
Wang, F., S. Zhang	Personalized Modeling for Assessing HPV Vaccination Strategies for Females	INFORMS Annual Meeting	October	2017	Houston, TX
Li, B., M.Capan, S. Zhang	Microsimulation Model using Christiana Care Early Warning System (CEWS) to Evaluate Physiological Deterioration	INFORMS Annual Meeting	October	2017	Houston, TX
S.L. Servoss	The application of peptoids for biomedical devices and therapeutics	North Carolina State University	Sept	2017	Raleigh, NC
Saxena, Ashok	Societally Relevant Engineering Education	IUCEE	January	2017	Hyderabad & Jaipur, India
Saxena, Ashok	Fracture Control and Structural Integrity Research and Education	ICF14	June	2017	Rhodes, Greece
Saxena, Ashok	Integrity and Leak or Break Analysis in Pressure Vessels and Piping	Electric Power Research Institute Conference	June	2017	Philadelphhia, PA

Saxena, Ashok	Fracture Control and Structural Integrity Research and Education	East China University of Science and Technology	November	2017	Shanghai, China
Saxena, Ashok	Fracture Control and Structural Integrity Research and Education	Tianjin University	November	2017	Tianjin, China
Saxena, Ashok	Fracture Control and Structural Integrity Research and Education	Nanjing University	November	2017	Nanjing, China
Saxena, Ashok	Fracture Control and Structural Integrity Research and Education	Hangzhou University	November	2017	Hangzhou, China
Sha, Zhenghui	The Decision-Centric Foundations for Complex Systems Engineering and Design	Intelligence System Laboratory at the University of Central Florida	September	2017	Orlando, FL
Sha, Zhenghui	Lab Experiments on Individual and Interactive Decision Making in Design – Introduction to Three Human-Subject Experiments	Workshop 4, the ASME 2017 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference	August	2017	Cleveland, OH
Sha, Zhenghui	Modeling Stakeholders' Decision-Making in Support of Complex Systems Design	Department of Industrial Engineering Seminar	April	2017	University of Arkansas, Fayetteville, AR
Smith, S., Hernandez, S., Braham, A., Kent, J.	Developing a Statewide Transload Facility Inventory: Challenges and Lessons Learned	Transportation Research Board	January	2017	Washington, DC

Smith, S., Asborno, M., Vines, J., Braham, A., Hernandez, S., Kent, J.	Locating Transload Facilities to Ease Highway Congestion and Safeguard the Environment	Arkansas State Highway and Transportation Department, 104th Transportation Research Committee Meeting and Engineering Conference	May	2017	Hot Springs, AR
Smith, S., Braham, A.	FDR as a Bound and Unbound Layer: Academic Research, Incorporating Structural Rehabilitation Techniques into Pavement-ME	Transportation Research Board	January	2017	Washington, DC
Sullivan, K. M.	Operations Research Models for Resource Allocation in Reliability Growth Testing	Science of Test Workshop	April	2017	Springfield, VA
Tung, Steve	Development of Novel Sensing Techniques for Solid-State Based DNA Analysis	Plenary Lecture, IEEE-NRIS (IEEE International Workshop on Nanotechnology for Robotics and Intelligent Systems	September	2017	Qinhuangdao, China
Walden, C., Carbonero, F., Zhang, W	Next Generation Sequencing of Environmental Samples: A Comparison of DNA Extraction Methods	Institute of Biological Engineering Annual Conference	March	2017	Salt Lake City, UT
Walden, C., Zhang, W.	Investigating fate of Silver Nanoparticles in Wastewater Biofilms	AEESP Research and Education Conference	June	2017	Ann Arbor, MI
Wejinya, Uchechukwu	Electrical Conductivity of Palladium Decorated N ₂ Doped Graphene – Principles and Applications	Shenyang Institute of Automation, Chinese Academy of Science	November	2017	Shenyang, China

Wejinya, Uchechukwu	A Generalized Implementation Approach of Graphene-Based Nanomaterial into MEMS Devices	Peking University Wuxi Campus	May	2017	Peking, China
Wejinya, Uchechukwu	Patterning of Palladium on Graphene for H ₂ Sensor Development	Jiangnan University	January	2017	Jiangnan, China
Wickramasinghe, S. R., Vu, A., Qian. X	Surface Engineering for Developing New Membrane Adsorbers	9 th Sino-US Joint Chemical Engineering Conference	October	2017	Beijing, China
Wickramasinghe, S. R., Qian X., Vu, A. T	Magnetic Nanoparticles as Micromixers & Heaters,	Nanotechnology Applications: Chemical, Energy and Environment,	March	2017	Surat, India
Wickramasinghe, S. R.,	Validating Virus Clearance in the Purification of Biopharmaceuticals	10th Annual GGL Conference	Sept	2017	Gießen, Germany
Wickramasinghe, S. R.,	Selective Modification of Membrane Pore and External Surfaces	University of Twente	July	2017	Enschede, Netherlands
Wickramasinghe, S. R.,	Selective Modification of Membrane Pore and External Surfaces: Magnetically Responsive Membranes	University of Tuzla	June	2017	Tuzla, Bosnia and Herzegovina
Wickramasinghe, S. R.,	Addressing the Food Energy Water Nexus through Aquaponics	American Institute of Chemical Engineers Northern California (AIChE NorCal) Symposium on Food-Energy Water Nexus	April	2017	Oakland, CA
Wickramasinghe, S. R.,	Removal of Endocrine Disrupters from Wastewater Streams	2017 SEC Academic Conference	March	2017	Starkville, MI

Wickramasinghe, S. R.,	Selective Modification of Membrane Pore and External Surfaces	Ben-Gurion University of the Negev	March	2017	Sde Boker, Israel
Wickramasinghe, S. R.,	Selective Modification of Membrane Pore and External Surfaces	Technion (Israel Institute of Technology)	March	2017	Haifa, Israel
Wood, C.M.	Geophysical methods in Geotechnical Engineering (Case histories for 1D and 2D evaluations)		March	2017	Guayaquil, Ecuador
Wood, C.M.	“Liquefaction: Behavior, Triggering, and Consequences”	Arkansas Geological Survey Earthquake Feature Recognition Workshop and Field	March	2017	Jonesboro, AR,
Xiaoqing F. Liu	Cyber-physical Manufacturing Cloud: Architecture, Virtualization, Communication, Testbed, and Future Directions	Invited Keynote Presentation, National Conference of Service Computing, China Computing Federation	Sept	2017	Xiangtan, China
Xintao Wu	Differential Privacy Preserving Deep Learning in Healthcare	Invited talk at IEEE International Conference on Bioinformatics and Biomedicine	Nov	2017	Kansas City, MO
Yousef, M., Selvam, R.	The influence of tangential to translational velocity ratio on tornado force coefficients on building using CFD	The 13th Americas Conference on Wind Engineering (13ACWE)	May	2017	Gainesville, FL
Zhang, W	Biofilm: Friend or Foe?	Jiaotong University	May	2017	Xi’an, China
Zhang, W	Biofilm: Friend or Foe?	Xi’an University of Technology	May	2017	Xi’an, China
Parr, A., Zhang, W.	Assessing Auto-flocculation of Microalgae in Wastewater Treatment	Southwest AWWA annual conference	October	2017	Oklahoma City, OK

Zhu, Jun	Invited Seminar series on current status of Bioenergy Production	Chinese Academy of Agricultural Sciences	October - November	2017	Beijing, China
Zou, Min	Nano Surface Engineering Research in Center for Advanced Surface Engineering (CASE) and Nano Mechanics and Tribology Laboratory (NMTL)	University of Arkansas Nano Institute Invited Seminar	May	2017	University of Arkansas, Fayetteville, AR

VI. Other Lectures, Papers, and Conference Presentations (alphabetized by the first UA author, add rows as necessary)

Authors (Bold first UA author)	Presentation Title	Event	Month	Year	Location
A. Huang	Arkansas CubeSat Agile Propulsion Technology Demonstrator Mission (ARKSAT-2)	NASA EPSCoR International Space Station Kick-off Meeting Presentation	August	2017	Johnson Space Center
A. Davlos and A. Huang	Deposition of Sodium Azide in Microwells of MEMS Solid State Gas Generator	2017 ASME International Mechanical Engineering Congress and Exposition	November	2017	Tampa, FL
M. Martin and A. Huang	Pesitent and Controllable Weather Balloons as High Altitude Test Vehicle	2017 Arkansas Space Grant Consortium Symposium	April	2017	Morrilton, AR
Taylor, J., A.B. Milburn	Understanding strategies governing the use of social data in a disaster response operation	INFORMS Annual Meeting	October	2017	Houston, TX
Hudgeons, A., A.B. Milburn , and C. McNeill	Dispensing medical countermeasures in public health emergencies via home health agencies and Points of Distribution	Institute of Industrial and Systems Engineers Annual Meeting	May	2017	Pittsburgh, PA
Afshar-Mohajer, M. and Zou, M.	Tribological Studies of Micro-/Nano-Patterned Surfaces Fabricated by Two Photon Polymerization	STLE Annual Meeting 2017	May	2017	Atlanta, GA
Afshar-Mohajer, M. and Zou, M.	Two-Photon Polymerization Process Development to Fabricate 3D Artificial Extra Cellular Matrix (aECM) Samples for Neural Stem Cell Studies	CASE Annual Meeting	June	2017	Little Rock, AR
Afshar-Mohajer, M. and Zou, M.	Tribological Studies of Micro-/Nano-Patterned Surfaces Fabricated by Two Photon Polymerization	CASE Annual Meeting	June	2017	Little Rock, AR
Araujo Borges, R. , Choudhury D., and Zou, M.	Tribological Studies of 3D Printed Biocompatible Polymeric Composites	STLE Annual Meeting 2017	May	2017	Atlanta, GA

Araujo Borges, R., Choudhury, D., and Zou, M	3D printed biocompatible PCU/UHMWPE blend for artificial knee meniscus	The ABI Fall Research Symposium	October	2017	Fayetteville, AR
Araujo Borges, R., Choudhury D.	Tribological Studies of 3D Printed Biocompatible Polymeric Composites	CASE Annual Meeting	June	2017	Little Rock, AR
Ashok Saxena, Amit Prakash, and Ian Miller	Design and Integrity Assurance of Pressure Vessels for Storing Hydrogen	ICF14	June	2017	Rhodes, Greece
Austin, B. and B. Haggard	"Fine-Scale (HUC 12) Watershed Sampling to Complement or in Place of Watershed Modeling"	Oklahoma Clean Lakes and Watershed Association Annual Conference	April	2017	Stillwater, Oklahoma
Austin, B., S. Patterson and B. Haggard	"Water Quality Monitoring to Identify Nutrient Sources and Sub-Watershed Priorities Within the Lake Wister Watershed"	University Council on Water Resources Annual Meeting	June	2017	Fort Collins, Colorado
Batta-Mpouma J., A. Sinha, G. Kandhola, A. Djiroleu, J. Sakon, and J.-W. Kim.	Aqueous Suspension of Chemically Crosslinked Cellulose Nanocrystal Films.	Arkansas NSF EPSCoR Annual State Meeting	June	2017	Little Rock, AR
Batta-Mpouma, J, A. Sinha, A. Djiroleu, J.-M. Lim, J. Sakon, H. Han, and J.-W. Kim	Engineering Liquid-Phase Stability of Cellulose Nanocrystal Films for Biological Applications.	IEEE International Conference on Nano/Molecular Medicine and Engineering (IEEE- NANOMED)	December	2017	Shenzhen, China
Abdollah Mosleh, Rita Tejada Vaprio, Hayden Hairston, Bob Beitle, Mahmoud Moradi, Lauren F. Greenlee and Nicholas Bedford	Bio-Templated Nanoparticle Synthesis: Fundamental and Theoretical Studies	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN
Brajendra Panda	Database Security: Damage Assessment and Recovery after an Information Attack	Presentation made at VSS University of Technology, Burla	Feb	2017	Odisha, India

Brajendra Panda	Database Security: Damage Assessment and Recovery after an Information Attack	Presentation made at Kalinga Institute of Information and Technology	Feb	2017	Bhubaneswar, India
Nian, Y., Q. Huang, K. Kovacs, C. Henry , J. Krutz.	Factors that influence the adoption and continued use of irrigation technologies and water management practices	Arkansas Water Resources Center Annual Watershed and Research Conference	July	2017	Fayetteville, AR
Nian, Y., C. Henry , Q. Huang, K. Kovacs	Status of Irrigation Practices Use in Arkansas. Selected Presentation, SERA35:	Delta States Farm Management Group Annual Meeting	May	2017	Vicksburg, MS
Kovacs, K., J. Lee, R. Nayga, C. Henry , J. Krutz, F. Tsiboe.	What are producer discount rates for irrigation investments? Selected Presentation, W3190:	Water Policy and Management Challenges in a Water-Scarce World	October	2017	Portland, OR
Kovacs, K., J. Lee, R. Nayga, C. Henry , J. Krutz, F. Tsiboe	Individual discount rates for water saving irrigation technologies using contingent valuation.	Selected Presentation, Agricultural and Applied Economics Association Annual Meeting	July	2017	Chicago, IL
Knapp, T., K. Kovacs, Q. Huang, C. Henry , R.M. Nayga, Jr., J. Popp, B. Dixon	Willingness to Pay for Irrigation Water when Groundwater is Scarce	Western Agricultural Economics Association Annual Meeting	July	2017	Lake Tahoe, NV
Redmon, X., M. Moss, and C. Hestekin	Improving the Understanding of Early Stage Amyloid Aggregation Using Microchannel Electrophoresis	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN
Ulusoy-Erol, H., M. L. Menegazzo, E. Gottberg, J. Vaden, M., C. N. Hestekin and J. A. Hestekin	Porphyridium cruentum Grown on Swine Waste has Minimal Changes to its Fatty Acid Composition	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN
Ulusoy-Erol, H., C. Atchley, B. Drewry, Y. J. Lin, C. N. Hestekin and J. A. Hestekin	Understanding the Effects of Carbon Dioxide and Bicarbonate on Chlamydomonas reinhardtii	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN
Adbesh, F., C. Rainwater , D. Mettenburg	Unified Variations of the Vehicle Routing Problem in Practice	IISE Conference	May	2017	Pittsburgh, PA

Vance, S. Z., R. Hall, J. Crawford, G.L. Booth, C.N. Hestekin , and M.A. Moss	Understanding the Role of Glycine in Amyloid Protein Aggregation through Rationally Designed Protein Sequences	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis, MN
Zhu, Z., Y. Xiang, S. Alaswad, and C.R. Cassady	A Sequential Inspection and Replacement Policy for Degradation-Based Systems	RAMS	January	2017	Orlando, FL
Carmack JM , Millett PC	Computational Modeling of Electric-Field Alignment in Bicontinuous Interfacially Jammed Emulsions	Materials Research Society (MRS) Fall Meeting	December	2017	Boston, MA
C. Xiao (for Chaovalitwongse, W. A.)	Adverse Drug Reaction Prediction with Symbolic Latent Dirichlet Allocation	Thirty-First AAAI Conference on Artificial Intelligence (AAAI-17)	February	2017	San Francisco, CA
M.B. Spraker (for Chaovalitwongse, W. A.)	Radiomic Signature Extracted from Magnetic Resonance Imaging Predicts Outcomes in Soft Tissue Sarcoma	American Society for Radiation Oncology (ASTRO) Annual Meeting	September	2017	San Diego, CA
S.E. Day (for Chaovalitwongse, W. A.)	Radiomic Features Extracted from Magnetic Resonance Imaging (MRI) Are Associated with Clinical Outcomes in Low-Grade Glioma	American Society for Radiation Oncology (ASTRO) Annual Meeting	September	2017	San Diego, CA
Y. Cao (for Chaovalitwongse, W. A.)	Hybrid Comprehensive Learning Particle Swarm Optimizer with Adaptive Starting Local Search	Eighth International Conference on Swarm Intelligence	August	2017	Fukuoka, Japan
W. Wu (for Chaovalitwongse, W. A.)	Ability of Texture and Shape Features to Classify Indeterminate CT Lung Nodules with and without Contrast Enhancement	IEEE Nuclear Science Symposium and Medical Imaging Conference	October	2017	Atlanta, GA
P. Thammasorn (for Chaovalitwongse, W. A.)	Deep Convolutional Triplet Network for Quantitative Medical Image Analysis with Comparative Case Study of Gamma Image Classification	International Workshop on Biomedical and Health Informatics in conjunction with the IEEE International Conference on Bioinformatics and Biomedicine	November	2017	Kansas City, MO

Choudhury, D. , Lackner, J., Fleming, R.A., Goss, J., Chen, J., and Zou, M.	Diamond-like carbon coatings with zirconium inter-layers for biotribological applications	STLE Annual Meeting 2017	May	2017	Atlanta, GA
R. Becker, Z. Aklah, & D. Andrews	Investigating A Multilayer Perceptron on the HMC	Workshop at 27 th International Conference on Field Programmable Logic and Applications	Sept	2017	Ghent, Belgium
D. Keith Roper , Gregory T. Forcherio, Jeremy Dunklin, Mourad Benamara, Luigi Bonacina	Redox-directed self-assembly of 2D semiconductor nanoantenna heterostructures with enhanced optoelectronic damping and nonlinear activity	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN
D. Keith Roper , Jeremy Dunklin, Gregory T. Forcherio, Keith Berry, Carter Bodinger and Tyler Howard	Electron energy loss spectroscopy for optoelectronics and thermal dynamics at nanocomposite interfaces	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN
D. Keith Roper , Gregory T. Forcherio, Mourad Benamara	Nanoantenna-enhanced wavelength mixing in monolayer transition metal dichalcogenide	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN
D. Keith Roper , Gregory T. Forcherio, Jeremy Dunklin, Mourad Benamara, Luigi Bonacina, Yana Vaynzof, Claudia Backes	Enhanced optoelectronic functionality of photovoltaic 2D crystal-nanoantenna hybrids	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN
D. Keith Roper , Gregory T. Forcherio, Jeremy Dunklin, Alex O'Brien	Enhanced catalysis by optical nanoantenna reduced on monolayer transition metal dichalcogenide	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN
M. Bizer, K.Berry, D.K. Roper	Thermal and mass transfer characterization of gold nanoparticle-polydimethylsiloxane films in butanol pervaporation system	Separations NSF REU Program	July	2017	Fayetteville, AR

Rathi, A., E. Kikkinides, D.M. Ford , and P.A. Monson,	Modeling Single Component Transport in Mesoporous Membranes Under Nonequilibrium Conditions	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis, MN
Rathi, A., D.M. Ford , and P.A. Monson	Modeling Separations in Mesoporous Membranes Using Lattice Based and Molecular Simulation Techniques	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis, MN
Cervellere, M.R., D.M. Ford , P.C. Millett, and X. Qian	Modeling Tools for the Membrane Formation Process	MAST Center Industrial Advisory Board Meeting	April	2017	Fayetteville, AR
Warshavsky, V.B., D.M. Ford , and P.A. Monson,	Nature of the Instability of the Body-Centered-Cubic (bcc) Structure in Classical Hard Sphere Solids	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis, MN
Cervellere, M.R., Y.-H. Tang, D.M. Ford , P.C. Millett, and X. Qian	Modeling Tools for the Membrane Formation Process	MAST Center Industrial Advisory Board Meeting	Oct	2017	Newark, NJ
Rathi, A., D.M. Ford , and P.A. Monson	Modeling Multiphase Transport and Separation in Mesoporous Membranes with Dynamic Mean Field Theory	International Congress on Membranes and Membrane Processes (ICOM)	Aug	2017	San Francisco, CA
Dalaeli, J.N. , Osborn, G.S.	Modified Indigo Method for High Ozone Concentration Samples	Poster presentation at International Ozone Association World Congress		2017	
Dale Thompson	Novel computer modeling of Salmonella dissemination in a processing plant	Arkansas Association of Food Protection (AAFP) Conference	Sept	2017	Springdale, AR
Dale Thompson	Cybersecurity: Why Should I Care?	FDSC 1011 Exploring Topics in Food Science, undergraduate survey class, University of Arkansas	Nov	2017	Fayetteville, AR

Dale Thompson	Cybersecurity: Why Should I Care?	Food Science Graduate Seminar, University of Arkansas,	Nov	2017	Fayetteville, AR
Djiroleu, A., K. Rajan, G. Kandhola, D.J. Carrier, and J.-W. Kim	Customized Synthesis of Cellulose Nanoparticles from Loblolly Pine Pulp.	ASABE Annual International Meeting	July	2017	Spokane, WA
Lutz-Rechtin, T.M. and E.C. Clausen	Developing a Model Departmental Safety Program	American Society for Engineering Education Midwest Regional Conference	Sept	2017	Stillwater, OK
Fleming, R.A. and Zou, M.	Mechanical and Tribological Properties of Novel High-Strength Nanoscale Structures	6 th Annual World Congress of Advanced Materials-2017	June	2017	Xi'an, China
Fleming, R.A. and Zou, M.	Molecular Dynamics Nanoindentation Simulations of Al/a-Si Core-Shell Nanostructures	CASE Annual Meeting	June	2017	Little Rock, AR
Specking, E. (for G. Parnell)	Assessing System Resilience Across Multiple Objectives	2017 Industrial and Systems Engineering Research Conference	May	2017	Pittsburg, PA
Cottam, B. (for G. Parnell)	Long Range Transportation Planning for Autonomous Vehicles using Simulation and Multiple Objective Decision Analysis	2017 Industrial and Systems Engineering Research Conference	May	2017	Pittsburg, PA
Wade, Z. (for G. Parnell)	Engineering Resilience in System of Systems using Set-Based Design	2017 Industrial and Systems Engineering Research Conference	May	2017	Pittsburg, PA
Goerger, S. (with G. Parnell)	Incorporating Resilience in an Integrated AOA Trade-off Analysis	MORS 85th Symposium	June	2017	West Point, NY
Whitcomb, C. (with G. Parnell)	Trade-off Analytics for Set-Based Design	Design Sciences Series: Set Based Design	September	2017	Washington, DC.
Wade, Z. (for G. Parnell)	Set-Based Design for Trade-off Analytics of Complex Systems	MORS Emerging Techniques Forum	December	2017	Washington, DC

Guo, H. and H. Liao	Tutorial: Practical Approaches for Reliability Evaluation Using Degradation Data	The 63rd Annual Reliability and Maintainability Symposium	January	2017	Orlando, FL
Cesar Torres (student presenter for H. Liao)	Data Analysis for Selective Bayesian Accelerated Reliability Growth	Annual Industrial and Systems Engineering Research Conference	May	2017	Pittsburgh, PA
Cesar Torres (student presenter for H. Liao)	Bayesian Degradation Based Reliability Growth With Uncertain Effectiveness Of Corrections	INFORMS Annual Meeting	October	2017	Houston, TX
Yu Jin (student presenter for H. Liao)	Concurrent Fused Filament Fabrication With Multiple Extruders	INFORMS Annual Meeting	October	2017	Houston, TX
Samira Karimi (student presenter for H. Liao)	Use of Phase Type Distributions In ALT Data Analysis	INFORMS Annual Meeting	October	2017	Houston, TX
Sinan Obaidat (student presenter for H. Liao)	Quality Control Sampling in Continuous Production	INFORMS Annual Meeting	October	2017	Houston, TX
Jingming Liu (student presenter for H. Liao)	Modeling Miapp Nalt in Order Picking Applications with a Class Based Storage Policy	INFORMS Annual Meeting	October	2017	Houston, TX
Delgado, L., H. Nachtmann , C. Rainwater	Prioritization and Allocation of Disrupted Barges	Institute for Industrial & Systems Engineers Annual Conference	May	2017	Pittsburgh, PA
Delgado, L., H. Nachtmann , C. Rainwater	Assignment and Scheduling of Disrupted Barges	INFORMS	October	2017	Houston, TX
Brown, S. (for H. Pierson)	An Operations Management Perspective on Collaborative Robotics	International Annual Conference of the American Society for Engineering Management	October	2017	Huntsville, AL
Jin, Y. (for H. Pierson)	Concurrent Fused Filament Fabrication with Multiple Extruders	IISE Annual Conference	May	2017	Pittsburgh, PA
Haggard, B.		University Council on Water Resources Annual Meeting		2017	Fort Collins, Colorado.

Oztanriseven, F. and Heather Nachtmann	Modeling Dynamic Behavior of Navigable Inland Waterways	Institute for Industrial & Systems Engineers Annual Conference	May	2017	Pittsburgh, PA
Henry, C, A. McClung and J. Gaspar	Evaluating Cultivar Response to Water Struss using Subsurface Drip Irrigation (SDI).	Oral presentation at the ASABE International Conference	July	2017	Spokane, WA
Hestekin, C., C. Smith, B. Rodgers, and J. Hestekin	Novel Reverse Electrodialysis Biofuel Cell	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN
Hestekin, C., C. Smith, B. Rodgers, and J. Hestekin	Novel Reverse Electrodialysis Biofuel Cell	International Congress on Membranes and Membrane Processes (ICOM)	Aug	2017	San Francisco, CA
Hestekin, J. A., Moore, J., Crooks, P., and Penthala, N	Tempo Oxidized Cellulosic Membranes for Low Fouling Applications	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN
Hill JD, Millett PC.	Computer Simulations of Cold Zone Annealing of Block Copolymers for Nanostructured Surfaces	Materials Research Society (MRS) Fall Meeting	December	2017	Boston, MA
Hockman, J., A. Sinha, H. Han, and J.-W. Kim	Exploring a New Strategy for Modular Self-Assembly of Arbitrary 3-Dimensional Nanoparticle Structures with DNA-Linked Nanoparticle Building Blocks (nBLOCKs).	17 th IEEE International Conference on Nanotechnology (IEEE-NANO)	July	2017	Pittsburgh, PA
Hockman, J., A. Sinha, M. Iraniparast, and J.-W. Kim	Design and Synthesis of 3D Gold Structures using 1D Nano-Building Blocks	Arkansas NSF EPSCoR Annual State Meeting	June	2017	Little Rock, AR
Huitink, David	FEP Honors Seminar Research	FEP Research Seminar	September	2017	University of Arkansas, Fayetteville, AR
Gattis, J. (for J. Chimka)	Access spacing based on turning vehicle acceleration	TRB Annual Meeting	January	2017	Washington D.C.

Gibson, A. & J. Chimka	Accuracy of gamma and normal distribution assumptions	Sino-US Conference on Quality, Analytics & Innovation	June	2017	Beijing
Mohammadivojdan, R. (for J. Geunes)	Modeling Retail and Online Channel Allocation Decisions	INFORMS Annual Conference	October	2017	Houston, TX
J. Geunes	Productivity and Publishing	IISE Doctoral Colloquium	May	2017	Pittsburgh, PA
Mohammadivojdan, R., J. Geunes	The Newsvendor Problem with Capacitated Suppliers and Quantity Discounts	CELDi Conference	April	2017	Fayetteville, AR
N. Mahmoudi, L. Reed, A. Moix, N. Alshammari, J. Hestekin, S.L. Servoss	Peptoid-Grafted Polysulfone Hollow Fibers and their Antifouling Behavior to Improve Biocompatibility of Fibers	International Congress on Membranes and Membrane Processes (ICOM)	Aug	2017	San Francisco, CA
N. Mahmoudi, G. Harrison, N. Alshammari, J. Hestekin, S.L. Servoss	Peptoid-Grafted Hollow Fiber Membranes for Improved Biocompatibility	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN
J. Lee and A. Huang	A “Green Cold Gas” Propulsion System for CubeSats	2017 Small Satellite Conference	August	2017	Logan, UT
J. Pennington and A. Huang	Simulation of Miniaturized Resonant Microwave Cavities with Applications to Advanced Space Propulsion	2017 ASME International Mechanical Engineering Congress and Exposition	November	2017	Tampa, FL
Wu, S., S. Deng, J. Zhu	Hydrogen and methane production from swine manure and sugar beet wastewater by a two-step ASBR system	SABE Annual International Meeting	July	2017	Spokane, WA
Wu, X., J. Zhu , L. Chen.	A lab-scale step-fed sequencing batch reactor for liquid swine manure treatment under different feeding schemes and C/N ratios	ASABE Annual International Meeting	July	2017	Spokane, WA
Shen, J., J. Zhu.	Role of Hydrolysis in Two-phase Anaerobic Digestion System for Poultry Litter	ASABE Annual International Meeting	July	2017	Spokane, WA

Shen, J., J. Zhu.	Simulation of Unstable Kinetics of Continuously Mixed Anaerobic Digester with Biological Solid Recycle using Parameters Obtained from Batch Experiments	ASABE Annual International Meeting	July	2017	Spokane, WA
Han, Y. Do, S. Lee, and J.-W. Kim	Hz Near-Field Microscopes: Optimum Operation Conditions.	International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz)	August	2017	Cancun, Mexico
T. Fochtman, J. Hendricks, M. Patitz, H. Han, and J.-W. Kim	Coarse-Grained Molecular Dynamic Simulation of DNA-Linked Nanoparticle Building Blocks on a GPU	17 th IEEE International Conference on Nanotechnology (IEEE-NANO)	July	2017	Pittsburgh, PA
Kandhola, G. , K. Rajan, N. Labbe, D.J. Carrier, and J.-W. Kim	Optimized Production of Cellulose Nanocrystals from Loblolly Pine Biomass	Arkansas NSF EPSCoR Annual State Meeting	June	2017	Little Rock, AR
P. Acharya, Z. Nelson, M. Benamara, S. Lee, L.F. Greenlee	Characterization of Fe _x Ni _y (OH) ₂ Alloy Nanoparticles for the Oxygen Evolution Reaction as a Function of Iron-Nickel Composition	Electrochemical Society	Oct	2017	Washington, D.C.
S.L. Foster, D. Suttmiller, P. Acharya, Z. Ford, J. Burrow, M. Kleinlauth, C. Loney, L. Wiles, J. Renner, W. Gellett, K. Ayers, L.F. Greenlee	Design of Iron-Nickel Nanocatalysts for Low-Temperature Electrochemical Ammonia Generation	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis, MN
P. Acharya, M. Abolhassani, A. Gankanda, Z. Nelson, S. Lee, L.F. Greenlee	Design of Iron-Based Nanomaterials as Catalysts for Efficient Water Treatment and Electrochemical Energy Conversion	Electrochemical Society	Oct	2017	Washington, D.C.
P. Acharya, Z. Nelson, M. Abolhassani, A. Gankanda, L.F. Greenlee	Nanoparticle and Nanocomposite Catalysts for Water Treatment and Alkaline Electrocatalysis: Scientific Fundamentals to Engineering Design	3M Science & Engineering Faculty Day	June	2017	St. Paul, MN

Li, Y., J.H. Lin, J.P. Wang, and M. Liao	Nanomaterials-based biosensor system for rapid detection of <i>Salmonella</i> Typhimurium in poultry supply chain	ACS 2018 Fall Meeting	August	2017	Washington, DC
Liang, Y., D. J. Aldridge, K. Luthra, K. D. Christensen, S. E. Watkins, and Y. Vizzier-Thaxton	Trailer thermal environment during commercial broiler transportation	Abstract in 2017 International Poultry Scientific Forum	January	2017	Atlanta, GA
Liang, Y., D. J. Aldridge, K. Luthra, T.A. Costello, K. D. Christensen, S. E. Watkins	Characterization of the thermal microclimate of broiler during transport	ASABE Annual Meeting	July	2017	Spokane, WA
Liang, Y.	Characterization of the thermal microclimate of broiler during transport	ASABE Annual Meeting	July	2017	Spokane Wa
Liao, H.	Tutorial: Accelerated Testing for Diagnostics and Prognostics	The 2017 Prognostics and System Health Management Conference	July	2017	Harbin, China
Liu, X.	On the physics-based statistical modeling of spatio-temporal data	The 2nd Sino-US Research Conference on Quality, Analytics and Innovations	June	2017	Tsinghua University, China
Loewer, Otto	<i>Understanding Change and the Linkages among Technology, Economics and Societal Values"</i>	ASEE Midwest Section Conference	September	2017	Oklahoma State University, Stillwater, OK
Lord, M. and B. Haggard		Oklahoma Clean Lakes and Watershed Association Annual Conference,		2017	Stillwater, OK
Luthra, Kaushik and Y. Liang	Correlation analysis of core body temperature of broilers and heat index during transport in the Southeast United States	Abstract in 2017 International Poultry Scientific Forum	January	2017	Atlanta, GA
Maddox, S. and Zou, M.	Towards Multifunctional Surfaces for Biological Systems	CASE Annual Meeting	June	2017	Little Rock, AR

Millett PC	Materials Modeling Tools for Education and Research	Arkansas EPSCoR Annual Meeting	July	2017	Little Rock, AR
Millett PC	Computer simulations of complex fluids at microscopic scales	Mechanical Engineering REU Seminar	July	2017	University of Arkansas, Fayetteville, AR
Nachtmann, Heather	Modeling Dynamic Behavior of the McClellan-Kerr Arkansas River Navigation System (MKARNS)	Arkansas Waterways Association	November	2017	Little Rock, AR
Nachtmann, Heather, F. Alston, S. Long, and K. L. Needy	Women in Engineering Management Panel	2017 American Society for Engineering Management	October	2017	Huntsville, AL
Nachtmann, Heather and F. Oztanriseven	Systems Analysis of the Behavior and Economic Impacts from the McClellan-Kerr Arkansas River Navigation System	Smart Rivers Conference	September	2017	Pittsburgh, PA
Needy, K. L., E. Jones, and G. Mirka	Opportunities and Challenges for Recruiting for Industrial Engineering Graduate Programs	Institute for Industrial & Systems Engineers Annual Conference	May	2017	Pittsburgh, PA
Needy, K. L.	New Faculty Colloquium: Setting Priorities and Finding the Right Balance	Institute for Industrial & Systems Engineers Annual Conference	May	2017	Pittsburgh, PA
Needy, K. L.	Leadership through Service – A Win-Win!	University of Arkansas SWE Women’s Banquet	May	2017	Fayetteville, AR
Needy, K. L., M. Kinsella, R. Jacoby, and R. Williams	Working Professional(s): How Families and Couples Do It All	Society of Women Engineers Local Pittsburgh Conference	February	2017	Pittsburgh, PA
Needy, K.L.	Early Career Advice for New Faculty: How to Avoid Common Mistakes	Society of Women Engineers Annual Conference	October	2017	Austin, TX
Nethercutt, L.	Project Management	MSOM webinar sessions	February	2018	Fayetteville, AR
Nethercutt, L.	Connecting the Dots...MI Talent Triangle and Project Management	MSOM webinar sessions	November	2017	Fayetteville, AR

Nutter, D.	Energy Efficiency: the technology and beyond	AOG Energy Efficiency Seminar	March	2017	Fort Smith, AR
Nutter, D.	Energy Efficiency: the technology and beyond	AOG Energy Efficiency Seminar	June	2017	Fayetteville, AR
Osborn, G.S., Dalaeli, J.N.	Testing a Prototype for Improved Carbonation of Beer	ASABE International Meeting	July	2017	Spokane, WA
Osborn, G.S	Entrepreneurship presentation	ASABE students at Southeast regional rally.	March	2017	Fayetteville, AR
Pohl, E. (with G. Parnell)	Reimagining Tradespace Definition and Exploration, International Annual Conference	American Society for Engineering Management 2017	October	2017	Huntsville, AL
Qinghua Li	SPARTAN Project	SEEDS Industry Engagement Meeting	Oct	2017	
Qinghua Li	Inferring Mobile Apps from Resource Usage Patterns	IEEE Mobile Cloud		2017	
Christie, M.A., J.A. Dominick III, R.E. Babcock, W.R. Penney and E.C. Clausen	Comparison of Experimental Data and Model Results for the Depressurization of an Air Tank	American Society for Engineering Education Midwest Regional Conference	Sept	2017	Stillwater, OK
Reavis C, Suvočarev K, Runkle B, Reba M	Evaluating Methods for Quantifying Evapotranspiration in Commercial Rice Fields	Arkansas Soil and Water Education Conference	January	2017	Jonesboro, AR
Roper, D.K., Forcherio, G.T., Dunklin, J.R., DeJarnette, D., Benamara, M.	Interactions between confined fields and carriers on 2D materials	Gordon Research Conference 2017 Plasmonically Powered Processes	June	2017	Hong Kong, China
Roper, D.K., Forcherio, G.T., Dunklin, J.R., Benamara, M., Bonacina, L.	Electron transfer and nonlinear activity in 2D semiconductors enhanced by nanoantenna through modeling and spectroscopy	SPIE Optics + Photonics	Aug	2017	San Diego, CA

Roper, D.K. , Forcherio, G.T., Dunklin, J.R., Benamara, M., Bonacina, L., Vaynzof, Y., Backes, C.	Optical and electronic functionality of 2D crystal-metal hybrids: computation and microscopy	SPIE Optics + Photonics	Aug	2017	San Diego, CA
Roper, D.K. , Dunklin, J.R., Forcherio, G.T., Berry, K.R., Bodinger,	Plasmon optics, thermal dynamics and phase change in nanocomposites	Gordon Research Conference 2017 Micro & Nanoscale Phase Change Heat Transfer	Jan	2017	Galveston, TX
Runkle BRK , Suvočarev K, Reba ML	Scaling up measurement systems to test climate-smart rice irrigation strategies	Joint NACP and AmeriFlux Principal Investigators Meeting	March	2017	North Bethesda, MD
Runkle BRK , Suvočarev K, Reba ML	Rice irrigation strategies: Alternate wetting and drying and methane reductions	Mississippi Water Resources Conference	April	2017	Jackson, MS
Runkle BRK , Suvočarev K, Reba ML	Geoscience research helps rice farmers mitigate climate change and world hunger	American Geophysical Union Fall Assembly	December	2017	New Orleans, LA
Adviento-Borbe A, Anders MM, Runkle BRK , Reba ML, Suvočarev K, Massey JH and Linquist B	Alternate wetting and drying practice for reducing greenhouse gas emissions in flooded rice agroecosystems	American Geophysical Union Fall Assembly	December	2017	New Orleans, LA
Reba ML, Fong B, Adviento-Borbe A, Runkle BRK , Suvočarev K, Rival I	Static Vented Chamber and Eddy covariance Methane Flux Comparisons in Mid-South US Rice	American Geophysical Union Fall Assembly	December	2017	New Orleans, LA
Runkle BRK , Suvočarev K, Reba ML	Testing climate-smart irrigation strategies to reduce methane emissions from rice fields	American Geophysical Union Fall Assembly	December	2017	New Orleans, LA
Fong B., Adviento-Borbe A., Reba ML, Runkle BRK , Suvočarev K	Carbon dioxide emissions and energy balance closure before, during, and after biomass burning in Mid-South rice fields	American Geophysical Union Fall Assembly	<u>December</u>	2017	New Orleans, LA
Fong B., Reba M., Teague T., Runkle BRK	Carbon dioxide and Eddy Covariance measurements in mid-South cotton	Cotton Agronomy, Physiology & Soil Conference of the 2018 Beltwide Cotton Conferences,	January	2018	San Antonio, TX

Thomson, A.M, Linqvist, B., Marcos, M., Adviento-Borbe, A., Anders, M., Buttner, P., Freemyer, T., Harrell, D., Linscombe, S., Ottis, B., Parkhurst, R., Ramsey, R., Reba, M., Runkle, B. , Snyder, C., Tarpley, L.	Decision Support Tool for Evaluating Methane Emissions Reduction Opportunities from Rice Production	Rice Technical Working Group,	February	2018	Long Beach, CA
S. Muller and A.K. Nair	Tribological Properties of Carbyne on Nickel Surface	MRS 2017	April	2017	Phoenix, AZ
Enayaty, N. (for S. Nurre)	A Decomposition Approach to the Multi-layered Interdependent Network Flow Problem	2017 ISERC	May	2017	Pittsburgh, PA
Garay, A. (for S. Nurre)	Interdependent Integrated Network Design and Scheduling Problems with Machine Movement	2017 ISERC	May	2017	Pittsburgh, PA
Enayaty, N. (for S. Nurre)	Solution Methods for the Interdependent Network Flow Problem	2017 INFORMS Annual Meeting	October	2017	Houston, TX
Asadi, A. (for S. Nurre)	Integrated Two-Level Inventory Problems: Applications to Electric Vehicle and Drone Battery Management	2017 INFORMS Annual Meeting	October	2017	Houston, TX
Garay, A. (for S. Nurre)	Restoration of Interdependent Infrastructures using Integrated Network Design and Scheduling Problems with Machine Movement Interdependence	2017 INFORMS Annual Meeting	October	2017	Houston, TX
Alvarez, H. (for S. Nurre)	Data Processing on Larger Interdependent Networks: An Application for Infrastructure Preparedness and Restoration	<i>6th Engineering Sciences and Technology International Conference</i>	October	2017	Panama City, Panama
Sanders, R., S. Zhang , C. Rainwater	Development of a Logistics Risk Assessment Tool	IISE Conference	May	2017	Pittsburgh, PA
Wang, F., S. Zhang	Personalized Modeling of Assessing HPV Vaccination Policies for Females	IISE Annual Conference	May	2017	Pittsburgh, PA

Holmer, R. (for S. Zhang)	Developing an HPV Infection Risk Prediction Model and Self-assessment Tool for Young Adult Females	INFORMS Annual Meeting	October	2017	Houston, TX
Tong, J. (for S. Zhang)	A Finite-horizon MDP Model for Decision Making during the Inland Waterway Disruptions	ASME International Annual Conference	Oct	2017	Huntsville, AL
Payam, P. (for S. Zhang)	Multi Stop Truck Load Planning	IISE Annual Conference	May	2017	Pittsburgh, PA
Sanders, R. (for S. Zhang)	Development of a Logistics Risk Assessment Tool	IISE Annual Conference	May	2017	Pittsburgh, PA
Garay, A. and S.G. Nurre	The Dependence of Infrastructure Restoration on the Transportation Network	Mack-Blackwell Student Poster Presentation	November	2017	Fayetteville, AR
G. Perez Bakovic, B. Colford, and S.L. Servoss	Peptoid-based microsphere-coated slides have increased performance in ELISA microarray	253 rd Annual Meeting of the American Chemical Society	April	2017	San Francisco, CA
H. Najafi and S.L. Servoss	Rationally designed peptoids insert into edge and face of bicelle structure	253 rd Annual Meeting of the American Chemical Society	April	2017	San Francisco, CA
J.P. Turner, L. Wolf, S.E. Chastain, K. Moore, D. Park, L. Rogers, O. Bhave, T. Rehtin, M.A. Moss, S.L. Servoss	Modulating amyloid-beta aggregation with peptoid-based KLVFF mimics	10 th Peptoid Summit	Aug	2017	Berkeley, CA
G. Perez Bakovic, J.L. Roberts, N. Mahmoudi, H. Najafi, S.L. Servoss	Peptoid-based materials at the University of Arkansas	10 th Peptoid Summit	Aug	2017	Berkeley, CA
S.L. Servoss , G. Perez Bakovic, J.L. Roberts, N. Mahmoudi	Peptoid-based and peptoid-functionalized nanoparticles	Nano Manufacturing Conference	Sept	2017	Greensboro, NC
J.L. Roberts, D. Roberts, S.L. Servoss	Oxidative Modification of Peptoids Utilizing Bleach and TEMPO As Green Chemistry Catalysts for Protein Therapeutic Applications	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN

J.L. Roberts, G. Perez Bakovic, S.L. Servoss	The Incorporation of Retinoic Acid-like Peptoids onto an Artificial Extracellular Matrix for Increased Differentiation of Human Embryonic Stem Cells into Neural Cells	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN
S.Muller , S.R. Reddy and A.K. Nair	Mechanical Behavior of Nanostructure Composites	MRS 2017	April	2017	Phoenix, AZ
S.R. Reddy and A.K. Nai	Nanoscale Frictional studies of core shell Multi-asperitiy surfaces	CASE Annual Meeting	June	2017	Little Rock, AR
S.R. Reddy and A.K. Nair	Frictional properties of multi-asperity surfaces at the nanoscale	MRS 2017	April	2017	Phoenix, AZ
S.R. Reddy , S. Muller and A.K. Nair	Mechanical Properties of Bio-Inspired Nanocomposites Subject to Bending	TMS 2017	February	2017	San Diego, CA
Sinha, A. , A. Djiroleu, J. Batta-Mpouma, G. Kandhola, J. Hockman, H. Han, and J.-W. Kim	Synthesis and Functionalization of Cellulose Nanocrystals for Biomolecular Sensors	12 th IEEE International Conference on Nano/Micro Engineered and Molecular Systems (IEEE-NEMS)	April	2017	Los Angeles, CA
Sotero, A. , X.G. Xi, T. Wen, R. Wang, and Y. Li*	. Rapid detection of <i>Salmonella</i> Typhimurium in poultry using a portable immunosensing system	ASABE-Arkansas Section 2017 Annual Meeting	October	2017	Fayetteville, AR
Sotero, A. , X.G. Xi, T. Wen, R. Wang, and Y. Li*.	Rapid detection of <i>Salmonella</i> Typhimurium in poultry using a portable immunosensing system	AAFP 2017 Annual Meeting	September	2017	Springdale. AR
Spicer, T	Understanding the Hazards and Potential Impacts of Ammonia Released to the Atmosphere	Ammonia World New and Old – 2017 Conference	Nov	2017	Haifa, Israel
Spicer, T	Jack Rabbit II Field Test Program Analysis of Mass Release Rate and Rainout	21st Annual George Mason University Conference on Atmospheric Transport and Dispersion Modeling	June	2017	Fairfax, VA

Spicer, T. , C. Sun, and S. Haider	Assessing Consequences of Chemical Releases on Control Room Habitability using HABIT 2.1	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis, MN
Spicer, T. , B. Hicks, A. Feuvrier, and S. Fox	Experiments to Model Chlorine Reactivity with Environmental Materials under Relevant, Controlled Conditions	21st Annual George Mason University Conference on Atmospheric Transport and Dispersion Modeling	June	2017	Fairfax, VA
Spicer, T. , S. Fox, L. Stockham, T. Mazzola, J. Chang, S. Hanna, M. Sohn, and D. Nicholson	Overview of the Jack Rabbit II Chlorine Field Trials	2017 Chemical and Biological Defense Science & Technology Conference	Nov	2017	Long Beach, CA
Steck, J.G. and Zou, M.	Fatigue Properties of Deformation Resistant Al/a-Si Core-Shell Nanostructures	CASE Annual Meeting	June	2017	Little Rock, AR
Steck, J.G. and Zou, M.	Fatigue Properties of Deformation Resistant Al/a-Si Core-Shell Nanostructures	STLE Annual Meeting 2017	May	2017	Atlanta, GA
Suvočarev K , Greer S, Sadler J, Wood JD, Bhattacharjee J, Reba ML, Runkle BRK	Surface renewal application and examination over different AmeriFlux landscapes	Joint NACP and AmeriFlux Principal Investigators Meeting	March	2017	North Bethesda, MD
Suvočarev K , Reba ML, Runkle BRK	Surface Renewal Satellite Towers for Gap-Filling Eddy Covariance Sensible Heat Flux	FLUXNET meeting	June	2017	Berkeley, CA
Suvočarev K & Castellvi F	The surface renewal method and its application for GHG measurements over irrigated crops	GHG Flux Workshop: From Photosystems to Ecosystems	October	2017	Potsdam, DE

Suvočarev K , F. Castellví, J. Cavero, M.Reba, Runkle BRK	The surface renewal method independent from calibration and wind measurements: Possibilities for application over irrigated crops for sensible and latent heat flux estimation	GHG Flux Workshop: From Photosystems to Ecosystems	October	2017	Potsdam, DE
Suvočarev K , Fischer M, Massey JH, Reba ML, Runkle BRK	The surface renewal method for better spatial resolution of evapotranspiration measurements	American Geophysical Union Fall Assembly	December	2017	New Orleans, LA
Wang, R. , S. Ang, and Y. Li*	An aptasensor for rapid detection of avian influenza virus based on nanoporous gold film modified electrode	ABI (Arkansas Biosciences Institute) 2017 Fall Research Symposium	October	2017	Fayetteville, AR
Wang, R. , M. Xu, J.H. Lin, M. Liao, M. Kidd, and Y. Li*	An electrochemical aptasensor for rapid detection of <i>Salmonella</i> Typhimurium in poultry based on the bifunctional magnetic nanocomposites	IAFP 2017 Annual Meeting	July	2017	Tampa, FL
Sengupta, A., M. G Jebur, M. G., Wickramasinghe, S. R. , Qian, X.	Particle Image Velocimetry (PIV): An Important Tool for Understanding the Fluid Dynamics of Magnetically Responsive Membranes	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN
Qian, X., Liu, Z., Wickramasinghe, S. R.	The Architecture of Responsive Polymeric Ligands on Protein Binding and Recovery	International Congress on Membranes and Membrane Processes (ICOM 2017)	Aug	2017	San Francisco, CA
Kamaz, M., Eswaranandam, E., Jones, S., Watts, M., Zhang, W., Wickramasinghe, S. R. , Qian, X.	Investigation of the Degradation of Endocrine Disrupting Compounds in a Membrane Bioreactor	International Congress on Membranes and Membrane Processes (ICOM 2017)	Aug	2017	San Francisco, CA
Qi., B., Vu, A., Wickramasinghe, S. R. , Qian, X.	High Performance Membrane reactor for the Production of Sugars and Fuels from Lignocellulosic Biomass	International Congress on Membranes and Membrane Processes (ICOM 2017)	Aug	2017	San Francisco, CA

Wickramasinghe, S. R. , Vu, A., Qian, X.	Catalytic Membranes for Biomass Hydrolysis and Dehydration	Symposium on Biotechnology for Fuels & Chemicals	May	2017	San Francisco, CA
Sengupta. A., Carter, B. M., Qian, X., Wickramasinghe, S. R.	The Growth of Glycidyl Methacrylate on Ultrafiltration Membrane: Spatial Control on Surface Initiated AGET-ATRP with Chain End Potential Functionalities	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN
Chiao, Y.-H, Sardari, K., Wickramasinghe, S. R.	Treating Poultry Processing Wastewaters by Ultrafiltration (poster presentation)	International Congress on Membranes and Membrane Processes (ICOM 2017)	Aug	2017	San Francisco, CA
Jebur, M., Sengupta, A., Wickramasinghe, S. R.	Particle Image Velocimetry: An Important Tool for Understanding the Fluid Dynamics of Magnetically Responsive Membranes	International Congress on Membranes and Membrane Processes (ICOM 2017)	Aug	2017	San Francisco, CA
Wickramasinghe, S. R.	Selective Modification of membrane Pore and External Surfaces	Chemical Technology and Engineering Conference	June	2017	L'viv, Ukraine
Avram, A., Qian, X., Wickramasinghe, S. R.	Nanofiltration membranes for ionic liquid recovery during pretreatment (poster presentation)	Symposium on Biotechnology for Fuels & Chemicals	May	2017	San Francisco, CA
Qian, X., Wickramasinghe, S. R.	Magnetically Responsive Membranes	MRS Spring Meeting & Exhibit	April	2017	Phoenix, AZ
Qian, X., Vu, A., Wickramasinghe, S. R.	Tunable polymeric solid acid catalysts for biomass hydrolysis and dehydration	253rd ACS National Meeting	April	2017	San Francisco, CA
Qian, X., Liu, Z., Wickramasinghe, S. R.	Ion-Specificity on responsive hydrophobic interaction chromatography	253rd ACS National Meeting	April	2017	San Francisco, CA
Qian, X., Namila, Fan, R., Wickramasinghe, S. R.	Elucidate the effects of filtration conditions on virus removal	253rd ACS National Meeting	April	2017	San Francisco, CA
Wickramasinghe, S. R. , Avram, A., Qian, X.	Fractionation of Ionic Liquid and Monomeric Sugars during Biomass Pretreatment by Nanofiltration	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN

Chen, S.-T., Wickramasinghe, S. R., Qian, X.	Mixed Matrix Membranes for Ammonium Removal from Wastewaters	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN
Wickramasinghe, S. R., Chiao, Y.-H., Sardari, K.	Treating Poultry Processing Wastewaters by Ultrafiltration	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN
Wickramasinghe, S. R., Sardari, K.	Development of a Multi-Stage Membrane Distillation - Electrocoagulation Process for Treatment of Hydraulic Fracturing Flow Back Waters	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN
Wickramasinghe, S. R., Vu, A., Qian. X.	Surface Engineering for Developing New Membrane Adsorbers	9th Sino-US Joint Chemical Engineering Conference	Oct	2017	Beijing, China
Avram, A., Qian, X., Wickramasinghe, S. R.,	Nanofiltration Membrane for Ionic Liquid Recovery During Pretreatment	International Congress on Membranes and Membrane Processes (ICOM 2017)	Aug	2017	San Francisco, CA
Chen, S.-T., Ahmadiannamini, P., Wickramasinghe, S. R., Qian, X.	High performance mix-matrixed fibrous membranes for ammonia removal from wastewaters	International Congress on Membranes and Membrane Processes (ICOM 2017)	Aug	2017	San Francisco, CA
Sardari, K., Wickramasinghe, S. R.,	Development of Multi-stage membrane distillation system for treatment of hydraulic fracturing flow back waters	International Congress on Membranes and Membrane Processes (ICOM 2017)	Aug	2017	San Francisco, CA
Sengupta, A., Qian, X., Wickramasinghe, S. R.,	Spatial Control of grafted Polymers on Ultrafiltration Membranes: A new Horizon of AGET-ATRP	International Congress on Membranes and Membrane Processes (ICOM 2017)	Aug	2017	San Francisco, CA
Vu, A., Yang, Q., Wickramasinghe, S. R., Qian, X.	Localized Heat generation from Magnetically Responsive Membranes	International Congress on Membranes and Membrane Processes (ICOM 2017)	Aug	2017	San Francisco, CA

Wickramasinghe, S. R., Qian, X.	Optimizing the Architecture of Responsive Ligands for Protein Binding and Recovery	International Congress on Membranes and Membrane Processes (ICOM 2017)	Aug	2017	San Francisco, CA
Wickramasinghe, S. R., Qian X., Vu, A. T.	Magnetic Nanoparticles as Micromixers & Heaters	Nanotechnology Applications: Chemical, Energy and Environment	March	2017	Surat, India
Wickramasinghe, S. R., Sardari, K.	Selective Modification of Membrane Pore and External Surfaces (poster presentation)	Separations Technology IX	March.	2017	Albufeira, Portugal
Wickramasinghe, S. R., Sardari, K.	Surface Engineering for Developing New Membrane Adsorbers	Separations Technology IX	March.	2017	Albufeira, Portugal
Wickramasinghe, S. R., Sardari, K.	Membrane Distillation for Treating Hydraulic Fracturing Produced Waters	Separations Technology IX	March.	2017	Albufeira, Portugal
Namila, Fan, R., Wickramasinghe, S. R., Qian, X.	The Effects of Filtration Condition on Virus Clearance	American Institute of Chemical Engineers (AIChE) Annual Meeting	Oct	2017	Minneapolis. MN
Lu Zhang, Yongkai Wu, and Xintao Wu	Anti-Discrimination Learning: from Association to Causation	Tutorial given at 2017 International Conference on Big Data	Dec	2017	Boston, MA
Lu Zhang, Yongkai Wu, and Xintao Wu	Anti-Discrimination Learning: from Association to Causation	Tutorial given at 2017 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation	July	2017	Washington DC
Xiao, X.N., W. Wang, W.H. Fang, Y.C. Fu, and Y Li*	The growth/survival of <i>Salmonella</i> on waxberry under different storage temperatures and package materials	IAFP 2017 Annual Meeting	July	2017	Tampa, FL

Fu, Y.C., Q. Zhang, L.Y. Li, Q.J. Xie, S.Z. Yao, and Y. Li .	Electrochemical conversion of magnetic nanoparticles with multiple interfacial effects for biosensing of avian influenza virus.	ACS 2018 Fall Meeting	August	2017	Washington, DC
Fu, Y.C., Q. Zhang, L.Y. Li, Q.J. Xie, S.Z. Yao, and Y. Li .	Electrochemical conversion of magnetic nanoparticles and its multiple interface effects and biosensing application.	13th National Conference of Electrochemistry	April	2017	Nanchang, Jiangxi Province, China
Zhang, L., Liu, Z.Y., M.R. Li, Y.C. Fu, Q.J. Xie, S.Z. Yao, and Y. Li	Bio- inspired one-pot preparation of fibrin-rGO electrically conductive nanocomposites applied in electrocatalysis and biosensing	China Electrochemistry Annual meeting		2017	Nanchang, Jiangxi Province, China
Zhang, L., Z.Y. Liu, Y.C. Fu, C.Y. Lei, J.J. Xie, S.Z. Yao, and Y. Li	Fiber protein-graphene based conductive bio-nanocomposites for electrochemical biosensors	1st China Forum on Biosensors, Biochips and Nanobiotechnology (BBN China 2017)	October	2017	Fushan, Guangdong Province, China.
Zhang, Q., L.Y. Li, Y.C. Fu, Q.J. Xie, S.Z. Yao, and Y. Li .	Electrochemical conversion of magnetic nanoparticles to develop multi- template method to prepare porous nanocomposites for biosensing	China Electrochemistry Annual meeting		2017	Nanchang, Jiangxi Province, China
Zhang, Q., L. Zhang, Y.C. Fu, and Y. Li .	Biomimetic preparation of robust metal-organic frameworks biocomposites film with high enzyme load for electrochemical biosensing	1st China Forum on Biosensors, Biochips and Nanobiotechnology (BBN China 2017)	October	2017	Fushan, Guangdong Province, China
Dai, H., Y.C. Fu, and Y. Li *	Monitoring enzyme catalysis confined in nanochannels through catalyzed polymer deposition	ACS 2018 Fall Meeting	August	2017	Washington, DC
Dai. H., Y.Q. Li, Y.C. Fu, and Y. Li *	Growth and kinetics of enzyme catalysis induced polymers in nanochannels.	1st China Forum on Biosensors, Biochips and Nanobiotechnology (BBN China 2017)	October	2017	Fushan, Guangdong Province, China

Li, Z.S., G.S. Zhou, Q. Zhang, H. Dai, Y.C. Fu, and Y. Li*	Biomimetic biomineralization-inspired hybrid electrospun-silk-nanofiber@metal-organic-framework membranes for universal water purification	ACS 2018 Fall Meeting	August	2017	Washington, DC
Li, Y.Q., J. Liu, Y.C. Fu, J.J. Xie, S.Z. Yao, and Y. Li*	Bifunctional magnetic nanoparticles with gold-Prussian blue for use in chemical and biological sensors	1st China Forum on Biosensors, Biochips and Nanobiotechnology (BBN China 2017)	October	2017	Fushan, Guangdong Province, China
Pang, H.Y., W. Wang, X.N. Xiao, J.M. Zhang, M. Liao, and Y. Li*	Modeling for predicting the growth of <i>Salmonella</i> in chicken fillets under different temperatures	IAFP 2017 Annual Meeting	July	2017	Tampa, FL
Shen, Y.F., Y.W. He, Y.C. Fu, and Y. Li*	Nanobiosensor based on immunomagnetic nanobeads and quantum dots for rapid detection of fluoroquinolone.	1st China Forum on Biosensors, Biochips and Nanobiotechnology (BBN China 2017)	October	2017	Fushan, Guangdong Province, China
Wen, T., R. Wang, A. Sotero, and Y. Li*	A portable impedance immunosensing system for rapid detection of <i>Salmonella</i> Typhimurium	ASABE 2017 Annual International Meeting	July	2017	Spokane, WA
Wang, R.H., M. Xu, M. Kidd, J.H. Lin, M. Liao, J.P. Wang, and Y. Li*	An electrochemical aptasensor for rapid detection of <i>Salmonella</i> Typhimurium in poultry based on bifunctional magnetic nanocposites	AAFP 2017 Annual Meeting	September	2017	Springdale, AR
Xi, X.G., J.H. Lin, R. Wang, and Y. Li*	A fluorescent biosensor based on quantum dots, magnetic nanoparticles and microfluidics for in-field detection of foodborne pathogens	AAFP 2017 Annual Meeting	September	2017	Springdale, AR
Xi, X.G., J.H. Lin, R. Wang, and Y. Li*	A fluorescent biosensor based on quantum dots, magnetic nanoparticles and microfluidics for in-field detection of foodborne pathogens.	ASABE- Arkansas Section 2017 Annual Meeting	July	2017	Fayetteville, AR
Yu, X.F., F. Chen, R. Wang, and Y. Li*	Selection of DNA aptamers using whole-bacterium SELEX for rapid detection of <i>E. coli</i> O157:H7 with a QCM sensor	AAFP 2017 Annual Meeting	September	2017	Springdale, AR

Yarui Peng	CAD Tools for Design, Analysis, and Optimization of Emerging Technologies in VLSI and Power Electronics	College of Electrical and Information Engineering, Hunan University	Dec	2017	Changsha, China
Yarui Peng	CAD Tools for Design, Analysis, and Optimization of Emerging Technologies in VLSI and Power Electronics	School of Physics and Electronics, Hunan University	Dec	2017	Changsha, China
Zhao, Y. and Zou, M.	Tribological Properties of PDA/PTFE Coating in lubricated condition	CASE Annual Meeting	June	2017	Little Rock, AR

VII. Other Creative Endeavors such as recitals, concerts, shows, performances, and comparable activities (alphabetized by the first UA author, add rows as necessary)

Authors (Bold first UA author)	Title	Event	Month	Year	Location
Austin Williams , Joseph Zhang, Meena Mana, Jacob Hubbard, Kenny Neckels, Will Poorman	Cooperative 3D Printing	Undergraduate Creative Project Reports	May	2017	NA
Cassady, R.	Tournament Director	<i>FIRST LEGO</i> League Razorback Invitational	May	2017	Fayetteville, AR
Cassady, R.	Director	<i>First LEGO</i> League	January	2017	Fayetteville, AR
Dale Thompson	Alexa? Are you Recording Me? Could Smart Devices Compromise your Privacy?" By Chellsie Brown	Interviewed by Chellsie Brown from local television station, KNWA/FOX 24, concerning how smart devices in your home could compromise your privacy	Feb	2017	Fayetteville, AR
Henry, Chris	Rice Irrigation. Mobile Application Software. https://play.google.com/store/apps/details?id=org.uark.riceirrigation	UA Irrigation Water Management Team		2016	
Henry, Chris	Rice Irrigation. Mobile Application Software. http://itunes.apple.com	UA Irrigation Water Management Team.		2017	
Jacob Currence , Justin Jack, Rolando Morales-Ortega, Ian Roberts, Jason Steck	Cooperative Mobile 3D Printin	Undergraduate Creative Project Reports	November	2017	NA
Manasreh, O.	My Life as a Palestinian from a place called Bani Naim	<i>Published by Xlibris</i>		2017	

Rainwater, C.	AV lead and member of organizing committee	FLL Razorback Invitational	May	2017	Fayetteville, AR
Rainwater, C.	AV lead and member of organizing committee	Bentonville and Springdale FLL Qualifier	November	2017	Bentonville/ Springdale, AR
Saxena, Ashok	Oxide-Scale Thickness Measurement for Predicting Crack Growth in Elevated Temperature Components	Final Contract Report		2017	Chung-Ang University in Korea
Spicer, T., and T. Degnan	SACHE Certificate Program - The Importance of Process Safety	American Institute of Chemical Engineers Academy eLearning Certificate			
Zou, M., Spearot, D., and Nair, A.	Understanding the Mechanical Behavior of Novel High-Strength Nanoscale Structures	NSF project Annual Report	April	2017	NA
Zou, Min	RII Track-1: Arkansas Advancing and Supporting Science, Engineering, and Technology (ASSET) III - Multifunctional and Tunable Nanostructured Surfaces	NSF project Annual Report	June	2017	NA
Zou, Min	Weeping Lubrication of Artificial Cartilage Created by 3D Printing Technology	Annual Report for ABI	June	2017	NA

VIII. Patent Issued (alphabetized by the first UA inventor, add rows as necessary)

Inventors (Bold first UA inventor)	Patent Title	Patent Office	Patent Number	Issue Date
Brune, Ellen, Beitle, Robert , Ataa, Mohammad M, Bartlow, Patrick R, and Henry, Ralph L	E. coli separatome-based protein expression and purification platform	US National Patent	<i>15/791,803</i>	Nov-17
Ackerson, Michael D	Process for Hydrotreating of Non-Petroleum Feedstocks	US National Patent	9,828,552	Nov-17
Beitle, Robert	Single LAMP PCR Design for Low Resource Setting and Minimal Environmental Footprint	US National Patent	20170283858	Oct-17
T. White, S. Shetty, M. Ware , A. Mantooth, G. Salamo	Micro-Hall Effect Devices for Simultaneous Current and Temperature Measurements for Both High and Low Temperature Environments		<i>Provisional Patent</i>	Oct-17
Quinn, KP.	Methods and systems for mitochondrial imaging	United States	No. 15/717,783	September 27,2017
Tung, S., Kim, J.-W. & Busch, T.	Method of fabricating a nanochannel system for DNA sequencing and nanoparticle characterization		US patent No 9,718,668	1-Aug-17

APPENDIX D

COLLEGE OF ENGINEERING CHAIRS, PROFESSORSHIPS, DISTINGUISHED PROFESSORSHIPS AND LECTURESHIPS

Charles D. Morgan/Axiom Endowed Graduate Research Chair in Data Base, Xintao Wu, Professor, Computer Science and Computer Engineering

Irma F. and Raymond F. Giffels Endowed Chair in Engineering, John R. English, Professor, Industrial Engineering & Dean of Engineering

John L. Imhoff Endowed Chair in Industrial Engineering, Ashlea Milburn, Associate Professor, Industrial Engineering

Maurice E. Barker Endowed Chair in Chemical Process Safety and the Environmental Fate of Chemicals, Tom Spicer, Distinguished Professor, Chemical Engineering

Rodger S. Kline Endowed Chair in Computer Science and Computer Engineering, Frank Liu, Professor, Computer Science and Computer Engineering

The Twenty-First Century Endowed Chair in Materials, Manufacturing and Integrated Systems, Ajay Malshe, Distinguished Professor, Mechanical Engineering

The Twenty-First Century Research Leadership Chair, Alan Mantooth, Professor, Electrical Engineering

The Twenty-First Century Leadership Chair in Mechanical Engineering, Darin Nutter, Professor, Mechanical Engineering

The Twenty-First Century Leadership Endowed Leadership Chair, Micah Hale, Professor, Civil Engineering

Walter E. Hicks and Blossom Russell Hicks Professorship for Infrastructure Engineering, Kevin D. Hall, Professor, Civil Engineering

Bates Teaching Endowed Professorship in Chemical Engineering, Greg Thoma, Professor, Chemical Engineering

Charles W. Oxford Endowed Professorship in Emerging Technologies, D. Keith Roper, Associate Professor, Chemical Engineering

James T. Womble Endowed Professorship in Computational Mechanics and Nanotechnology Modeling, R. Panner Selvam, Professor, Civil Engineering

Jim L. Turpin Endowed Professorship in Chemical and Biochemical Separations, Jamie Hestekin, Assistant Professor, Chemical Engineering

The Twenty-First Century Professorship in Engineering, Ed Pohl, Professor, Industrial Engineering

Thomas Clinton Mullins Endowed Chair in Engineering, David Andrews, Professor, Computer Science and Computer Engineering

The Twenty First Century Professorship in Mechanical Engineering, Wenchao Zhou, Assistant Professor, Mechanical Engineering

The Twenty First Century Professorship in Mechanical Engineering, Min Zou, Professor, Mechanical Engineering

The Twenty First Century Professorship in Mechanical Engineering, David Jensen, Assistant Professor, Mechanical Engineering

Ross E. Martin Endowed Chair in Emerging Technologies, Ranil Wickramasinghe, Professor, Chemical Engineering

John A. White Term Chair, John A. White, Distinguished Professor, Industrial Engineering

Ansel and Virginia Condray Endowed Professorship in Biochemical and Chemical Separations, Christa Hestekin, Associate Professor, Chemical Engineering

The Twenty-First Century Leadership Chair in Electrical Engineering, Juan Balda, University Professor, Electrical Engineering

George M. and Boyce W. Billingsley Endowed Chair in Engineering, Raj Rao, Professor, Biomedical Engineering

Ralph E. Martin Endowed Leadership Chair in Chemical Engineering, Dave Ford, Professor, Chemical Engineering

Louis Owen Endowed Professorship in Green Chemical Process Design and Development, Lauren Greenlee, Assistant Professor, Chemical Engineering

James M. Hefley and Marie G. Hefley Endowed Professorship in Logistics and Entrepreneurship, Haitao Liao, Professor, Industrial Engineering

The Twenty-First Century Research Leadership Chair, Jia Di, Professor, Computer Science and Computer Engineering

Tyson Endowed Chair in Biosensing Engineering, Yanbin Li, Professor, Biological and Agricultural Engineering

John and Mary Lib White Endowed Systems Integration Chair in Industrial Engineering, Joseph Geunes, Professor, Industrial Engineering

The Twenty-First Century Research Leadership Chair, Art Chaovalitwongse, Professor, Industrial Engineering

Earl J. and Lillian P. Dyess Endowed Chair in Engineering, Heather Nachtmann, Professor, Industrial Engineering and Associate Dean, College of Engineering

Vacant Chairs

Ray C. Adam Endowed Chair in Chemical Engineering

Robert E. Babcock, Sr. Endowed Professorship in Chemical Process Safety and the Environmental Fate of Chemicals

Ralph E. Martin Endowed Professorship in Chemical Process Engineering

The Twenty-First Century Endowed Professorship in Biomedical Engineering