

Division Poster Session

Board #	Paper ID	Title	Division	Session Type	Author Last Name	Author First Name	Session Code	Date	Starts	Ends	Location
1	27417	Introduction to Design Thinking and Human Centered Design in the Biomedical Engineering freshman year	Biomedical Engineering Division	Poster Session	Bohorquez	Jorge	T304	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
2	26011	Work in Progress: Development of a biomedical engineering concentration area within an integrated engineering major emphasizing sociotechnical thinking	Biomedical Engineering Division	Poster Session	Chapman	Mark	T304	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
3	25990	Work in Progress: Design Sprints as a Method to Explore the Biomedical Engineering Discipline	Biomedical Engineering Division	Poster Session	Chlebowski	Arthur	T304	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
4	27591	Curriculum on Diversity and Ethics: Impact in an Introductory Bioengineering Course	Biomedical Engineering Division	Poster Session	Hendricks	Dianne	T304	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
5	27224	Work-In-Progress: Developing Medical Device Evaluation Knowledge in Biomedical Engineering Graduates	Biomedical Engineering Division	Poster Session	Imas	Olga	T304	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
6	27521	Work in Progress: Alternative Lab Reports for Biomedical Engineering	Biomedical Engineering Division	Poster Session	Jensen	Karin	T304	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
7	27420	Work in Progress: Approaches to Introduce Biomedical Engineering Design to a Class with Diverse STEM Backgrounds	Biomedical Engineering Division	Poster Session	Lai	Angela	T304	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
8	26303	Work-in-Progress: BME Students' Perspectives on a Laboratory Technical Writing Cycle	Biomedical Engineering Division	Poster Session	Nocera	Tanya	T304	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
9	27515	Introducing Bioengineering Approaches through Healthcare Grand Challenges	Biomedical Engineering Division	Poster Session	Pool	Marcia	T304	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
10	27669	Work in progress: A blended model for a biomaterials course improves student learning and allows for enhanced content	Biomedical Engineering Division	Poster Session	Puccinelli	John	T304	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
11	26488	Work in Progress: Best Practices in Teaching a Chemical Process Design Two-course Sequence at a Minority Serving University	Chemical Engineering Division	Poster Session	Alexander	Matthew	T305	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
12	27555	Inclusive Learning and Teaching Strategies or Effective Course Design? Constructing Significant Learning Experiences in Low and High Achieving Learners	Chemical Engineering Division	Poster Session	Gammon Pitman	Robert	T305	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
13	27526	The Effects of Frequent, Multimodal Questioning to Drive Lecture: A Positive Case for IRE Student-Instructor Interactions	Chemical Engineering Division	Poster Session	Gammon Pitman	Robert	T305	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall

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14	25300	Using Active Learning and Group Design Activities to Increase Student Perceptions of a Course's Educational Value	Chemical Engineering Division	Poster Session	White	Jason	T305	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
15	25354	Introducing Students to Engineering by Helping Them RePicture Their World	Civil Engineering Division	Poster Session	Mayo	Lynn	T306	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
16	27144	Work in Progress: Design of "Risk and Resilience" Focused Courses for Undergraduate Engineering Education Towards a Hazard-Resilient Built Environment	Civil Engineering Division	Poster Session	Wang	Lei	T306	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
17	26587	Design and Small-Scale Testing of 3D Printed Seismic Isolators	Civil Engineering Division	Poster Session	Wong	Jenna	T306	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
18	27260	Social Network Analysis of In-Group Biases with Engineering Project Teams	College Industry Partnerships Division	Poster Session	Navick	Nitzan	T307	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
19	26355	Impacts of Engineering Justice Curriculum: A Survey of Student Attitudes	Community Engagement Division	Poster Session	Berg	Devin	T352	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
20	25480	Engagement in Practice : First Year Students as "Engineer for a Day" for Middle School Students	Community Engagement Division	Poster Session	Carlson	Cynthia	T352	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
21	25412	Work-in-Progress: Expanding Program Reach through Wine	Computers in Education Division	Poster Session	Harriger	Alka	T308	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
22	25441	THE EFFECTS OF MOBILE CIRCUITS ON STUDENT LEARNING OUTCOMES: EVIDENCE FROM REAL-TIME TIME-STAMPED INTERACTION DATA	Computers in Education Division	Poster Session	Moses	Kenie	T308	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
23	25436	THE EFFECTS OF A MOBILE LEARNING ENVIRONMENT ON STUDENT ACHIEVEMENT IN A CIRCUITS ANALYSIS COURSE	Computers in Education Division	Poster Session	Moses	Kenie	T308	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
24	25438	THE EFFECTS OF MOBILE CIRCUITS TUTOR ON STUDENTS' PROBLEM-SOLVING SELF-EFFICACY AND ANXIETY	Computers in Education Division	Poster Session	Moses	Kenie	T308	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
25	27429	WORK IN PROGRESS: Understanding pre-service teacher beliefs about vaccination using and modifying group-based computational simulations	Computers in Education Division	Poster Session	Sherard	Maximilan	T308	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
26	25774	Automatic Creation of Fine-Grained Vulnerable Windows System for Penetration Testing Education	Computing and Information Technology Division	Poster Session	Banerjee	Arati	T330	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall

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27	27110	Boardnotes 2.0 in computer networking: Organizing and representing meaningful technical information graphically for improving learning competencies	Computing and Information Technology Division	Poster Session	Chandra	Vigyan	T330	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
28	26746	Working with Business and Industry to Update Nationwide IT Skill Standards	Computing and Information Technology Division	Poster Session	Dempsey	Mark	T330	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
29	26533	Creating a Virtual Reality Simulation of Plasma Etcher to Facilitate Teaching and Practice of Dry Etching in Nanotechnology Education	Computing and Information Technology Division	Poster Session	Kamali	Reza	T330	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
30	26658	Applicability of Open Educational Resources (OER) in Construction Engineering	Construction Engineering Division	Poster Session	Shenoda	Michael	T309	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
31	26291	Assessing the Impact of Embedding Nursing Students in Bioengineering Senior Design Projects: Student Perceptions of Interprofessional Team Benefits and Challenges	Design in Engineering Education Division	Poster Session	Dukes	April	T313	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
32	27098	The Impact of Integrating Making Activities Into Cornerstone Design Courses	Design in Engineering Education Division	Poster Session	Galal	Mohamed	T313	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
33	25295	Empirical Foundations for Improved Engineering Education: Differences Between Engineering Students and Professional Expert Engineers while Designing	Design in Engineering Education Division	Poster Session	Luo	Yuzhen	T313	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
34	25434	Design and Prototyping of two different Mechanical Testing Instruments	Design in Engineering Education Division	Poster Session	Osta	Anu	T313	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
35	27149	A Creative Approach to the Undergraduate Research Experience	Design in Engineering Education Division	Poster Session	Pfeiffer	Ferris	T313	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
36	27586	A Concept Inventory for Functional Reasoning in Engineering Design	Design in Engineering Education Division	Poster Session	Scott	Michael	T313	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
37	26298	Student Experiences in a University Makerspace: Design as Decision Making	Design in Engineering Education Division	Poster Session	Shroyer	Kathryn	T313	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
38	26931	Experiential Learning Opportunities through Collaborative Projects	Design in Engineering Education Division	Poster Session	Vogt	Rustin	T313	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
39	25230	Designing Intelligent Review Forms for Peer Assessment: A Data-driven Approach	Educational Research and Methods Division	Poster Session	Beasley	Zachariah	T314	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
40	24808	Understanding Industry's Expectations of Engineering Communication Skills	Educational Research and Methods Division	Poster Session	Becker	Kurt	T314	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall

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41	26086	Development and Validation of the STEM Study Strategies Questionnaire for STEM College Students	Educational Research and Methods Division	Poster Session	Bradford	Brittany	T314	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
42	26495	What engineering students think of knowledge in their discipline and how to measure it: An exploratory study	Educational Research and Methods Division	Poster Session	Chen	Jinjushang	T314	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
43	25218	WIP: The Field of Engineering Education Research as Seen Through the Peer Review Process	Educational Research and Methods Division	Poster Session	Cutler	Stephanie	T314	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
44	26469	WIP: Integrating Writing into Engineering Labs: Developing Curriculum and Creating a Writing Fellows Program	Educational Research and Methods Division	Poster Session	Fenner	Raenita	T314	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
45	26056	WIP: Epistemologies and Discourse Analysis for Transdisciplinary Capstone Projects in a Digital Media Program	Educational Research and Methods Division	Poster Session	Jayasuriya	Suren	T314	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
46	25271	Multiple intelligences and undergraduate engineering education	Educational Research and Methods Division	Poster Session	Lee	William	T314	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
47	26435	College Engineering Attainment among Rural Students	Educational Research and Methods Division	Poster Session	Ndashimye	Jean	T314	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
48	27415	The Epistemic Beliefs of Chemical Engineering Faculty (Part I)	Educational Research and Methods Division	Poster Session	Tedstone	Jason	T314	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
49	25967	Work-in-Progress: An exploration of students' conceptualization of research after participating in an undergraduate research experience.	Educational Research and Methods Division	Poster Session	Tise	Joseph	T314	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
50	25919	WIP: Evidence-based analysis of the design of collaborative problem-solving engineering tasks	Educational Research and Methods Division	Poster Session	Tucker	Taylor	T314	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
51	25287	An Initial Step Towards Measuring First-Generation College Students' Personal Agency: A Scale Validation	Educational Research and Methods Division	Poster Session	VerdÃ-n	Dina	T314	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
52	27396	Cultivating the Maker Culture through Evidence-Based Pedagogies	Educational Research and Methods Division	Poster Session	Wang	Yonghui	T314	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
53	27268	WIP: Learning Assistant "Noticing" in Undergraduate Engineering Science Courses	Educational Research and Methods Division	Poster Session	Wendell	Kristen	T314	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
54	27456	Do engineering students care about the social good?	Educational Research and Methods Division	Poster Session	Wilson	Denise	T314	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
55	27080	Work in Progress: Design and Implementation of an Advanced Electric Drive Laboratory using a Commercial Microcontroller and a MATLAB Embedded Coder	Electrical and Computer Division	Poster Session	Babaiahgari	Bhanu	T315	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
56	25220	Retaking Object-Oriented Programming Quizzes for Study Habit Insights and Improvements	Electrical and Computer Division	Poster Session	Carpenter	Aaron	T315	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall

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57	26718	Work in Progress: A Balancing Act - Evolution of Assessments in An Introductory Programming Course in ECE After Curriculum Redesign	Electrical and Computer Division	Poster Session	Chen	Yuting	T315	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
58	26051	Work In Progress: Simulated Electrical Schematic of PLC	Electrical and Computer Division	Poster Session	Goodwin	Timothy	T315	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
59	26080	Work in Progress: Industry based Team Program Reviews for Capstone Design teams	Electrical and Computer Division	Poster Session	Gupta	Rachana	T315	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
60	26628	WIP: A Comprehensive Design & Prototyping Platform for Rapid HW/SW Development Classes	Electrical and Computer Division	Poster Session	Jung	Yong-Kyu	T315	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
61	26741	Using Peer Mediation and Cooperative Learning Techniques to Promote Active learning and Assess Student Learning Outcomes in Computer Engineering Classes	Electrical and Computer Division	Poster Session	Mustafa	Hadil	T315	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
62	26626	Work In Progress for Developing Project Based Experiential Learning of Engineering Electromagnetics	Electrical and Computer Division	Poster Session	Nieves	Adriyel	T315	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
63	27398	Work in Progress: Adapting Scrum project management to ECE courses	Electrical and Computer Division	Poster Session	Pejcinovic	Branimir	T315	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
64	26320	Work In Progress: Mastery-Based Grading in an Introduction to Circuits Class	Electrical and Computer Division	Poster Session	Salzman	Noah	T315	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
65	26861	Work in Progress: Growing and Sustaining a Successful Collaboration of Programs Developing and Implementing Experimental Centric Pedagogy	Electrical and Computer Division	Poster Session	Scott	Craig	T315	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
66	25610	Work in Progress: Integrating Differentiated Instruction and Project-Based Learning to Teach Embedded Systems	Electrical and Computer Division	Poster Session	Sohoni	Sohum	T315	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
67	24725	Work in Progress: STEM Experiences Designed for STEM Constituents	Electrical and Computer Division	Poster Session	Sundaram	Ramakrishnan	T315	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
68	25611	Work in Progress: LabSim: An Ancillary Simulation Environment for Teaching Power Electronics Fundamentals	Electrical and Computer Division	Poster Session	Timorabadi	Hamid	T315	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
69	25861	Project-based Teaching Approach of a Combined Undergraduate and Graduate Course in Power Electronics	Energy Conversion and Conservation Division	Poster Session	Belu	Radian	T316	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
70	27029	Development and Implementation of a Non-Intrusive Load Monitoring Algorithm	Energy Conversion and Conservation Division	Poster Session	Kerestes	Robert	T316	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall

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71	25600	A Website to Host Educational Modules on Global Engineering Ethics and Conduct Research in Cross-Cultural Moral Psychology: A Work in Progress	Engineering Ethics Division	Poster Session	Clancy	Rockwell	T320	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
72	26017	Why Engineering Ethics? How Do Educators and Administrators Justify Teaching Engineering Ethics?	Engineering Ethics Division	Poster Session	Fatehiboroujeni	Soheil	T320	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
73	26476	Implicit Attitudes in Engineering: Coding, Marketing and Bias	Engineering Ethics Division	Poster Session	Martel-Foley	Joseph	T320	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
74	27490	Using Machine Tools to Analyze Changes in Students' Ethical Thinking	Engineering Ethics Division	Poster Session	Taraban	Roman	T320	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
75	26917	Establishing a tech tool library with instructional resources at an academic institution	Engineering Libraries Division	Poster Session	Bossart	Jean	T321	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
76	26963	The Great Coffee Hunt: An Augmented Reality Scavenger Hunt	Engineering Libraries Division	Poster Session	Kozak	Kari	T321	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
77	27094	Designing, launching and Assessing a multimedia online learning module for library orientation of first year engineering students	Engineering Libraries Division	Poster Session	Paul	Gavin	T321	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
78	26309	ILL Communication: Analyzing five years of Iowa State University's print Interlibrary Loan requests	Engineering Libraries Division	Poster Session	Schares	Eric	T321	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
79	25604	Engineering Source: how robust is the coverage of the engineering literature?	Engineering Libraries Division	Poster Session	Van Epps	Amy	T321	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
80	27541	Preparing Engineering Faculty for Inclusion of Civic Engagement in Curriculum	Faculty Development Constituent Committee Division	Poster Session	Danahy	Ethan	T357	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
81	25715	Work-in-Progress: Building an inclusive Faculty Community Through the Teaching and Learning Academy	Faculty Development Constituent Committee Division	Poster Session	Dong	Jianyu	T357	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
82	25936	Lessons Learned: Using a Faculty Developer's Skillset to Facilitate a Challenging Revision Process - A Student Evaluation of Teaching Example	Faculty Development Constituent Committee Division	Poster Session	Hilton	Amy	T357	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
83	27130	Lessons learned: A three-office partnership to engage graduate TAs with mental health training	Faculty Development Constituent Committee Division	Poster Session	Yasuhara	Ken	T357	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
84	26502	Work in Progress: Development of Learning Skills Modules for First-Year Engineering Students	First-Year Programs Division	Poster Session	Corneal	Lindsay	T327	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall

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85	26664	Integrated Engineering Leadership Initiative for Teaching Excellence (iELITE) Year Two: Assessment of Intermediate-Term Outcome for Graduate Teaching Assistant Training	Graduate Studies Division	Poster Session	Beckman	Mattox	T328	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
86	26256	Grad Student STEM Share: From Pilot Program to Beyond STEM	Graduate Studies Division	Poster Session	Obenland	Carrie	T328	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
87	24908	Global Marketplace and American Companies in the Middle East and North Africa (MENA)	Instrumentation Division	Poster Session	Ziade	Jinan	T331	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
88	25116	A Sophomore's Interdisciplinary Engineering Project Enhancing Learning and Engineering Education with International Applications and Markets Abroad (Student Poster)	International Division	Poster Session	Carbine	Alan	T332	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
89	25763	What Engineering Students Think About How They Learn Professional Skills	Liberal Education/Engineering & Society Division	Poster Session	Cave	Kelly	T334	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
90	27576	Latinx Persistence In and Beyond the Degree: Intersections of Gender and Ethnicity (Research)	Liberal Education/Engineering & Society Division	Poster Session	Herrera-Rocha	Lidia	T334	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
91	25876	Conceal Carry of Handguns and Students' Risk Perception at a University Setting	Liberal Education/Engineering & Society Division	Poster Session	Ibrahim	Matti	T334	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
92	24951	MAKER: Developing compostable composites: A multi-disciplinary approach towards sustainable material adoption	Manufacturing Division	Poster Session	Manfredi	Louise	T335	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
93	27124	MAKER: Improving the Quality of Mechanical Engineering Senior Capstone Designs by Incorporating Geometric Dimensioning and Tolerancing During the Concept Design Phase	Manufacturing Division	Poster Session	Oppenheim	Tomas	T335	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
94	25874	Enhancing Teacher Knowledge and Skills in Modern Manufacturing	Manufacturing Division	Poster Session	Tornquist	Shelly	T335	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
95	25091	STEM Majors' Ability to Calculate Taylor Series Derivative & Integral	Mathematics Division	Poster Session	Tokgoz	Emre	T337	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
96	26192	The Seven C's of Solving Engineering Problems	Mechanical Engineering Division	Poster Session	Averill	Ron	T338	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
97	27647	Robots at Your Service: An Entrepreneurial and Socio-Technical ACL Course Module	Mechanical Engineering Division	Poster Session	Huang	Ming	T338	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
98	26244	Lessons Learned from an Integrated Class-Lab Approach to a Mechanics of Materials Course	Mechanical Engineering Division	Poster Session	Miller	Michele	T338	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall

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99	24781	Learning through Discovery: Empowering Lower Division Undergraduates to Engage in Cross-Disciplinary Research	Mechanical Engineering Division	Poster Session	Rasche	Madeline	T338	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
100	25255	Enhancement of a Thermo-Fluid Laboratory Course: Focus on Technical Writing	Mechanical Engineering Division	Poster Session	Wright	Kamau	T338	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
101	25469	Project Based Learning for a Mechanical Engineering Major Student: The Sustainability of Internal Combustion Engines (Student Poster)	Mechanics Division	Poster Session	Barnett	Aaron	T339	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
102	26559	Development of the Persistence of Engineers in the Academy Survey (PEAS)	Minorities in Engineering Division	Poster Session	Aldridge	Julie	T340	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
103	27160	NSF S-STEM Program: Recruitment, Engagement, and Retention: Energizing and Supporting Students with Diverse Backgrounds in Mechanical Engineering (work in progress)	Minorities in Engineering Division	Poster Session	Gurganus	Jamie	T340	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
104	25939	Academic Pathways of Black Men and Women in Electrical and Mechanical Engineering	Minorities in Engineering Division	Poster Session	Orr	Marisa	T340	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
105	27421	Work-in-Process: Cultivating Meta-cognitive Skills and Emotional Intelligence in First-Year Curricula	Minorities in Engineering Division	Poster Session	Pieri	Robert	T340	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
106	26662	Did Math Make Me Move? The Design and Initial Evaluation of a Culturally Appropriate Gestural Educational Technology (Research)	Minorities in Engineering Division	Poster Session	Smith	Tiffanie	T340	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
107	24775	A PhD in Engineering Degree: Coastal Engineering Emphasis Area	Ocean and Marine Division	Poster Session	Whalin	Robert	T344	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
108	26010	Development of an Activity Centric Engineering Course to teach Excel, MATLAB, and Engineering Math for High School Students (Work In Progress)	Pre-College Engineering Education Division	Poster Session	Albers	Lynn	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
109	24713	Integrating a Teacher Professional Learning Experience into the GEAR UP Engineering Summer Camp (Work in Progress)	Pre-College Engineering Education Division	Poster Session	Barlow	Ryan	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
110	27595	Elementary students' disciplinary talk in a classroom with an explicit engineering decision making scaffold (Work in Progress)	Pre-College Engineering Education Division	Poster Session	Batrouny	Nicole	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
111	26700	STEM Curriculum for a Minority Girls' After-School Program (Work-in-Process-Diversity)	Pre-College Engineering Education Division	Poster Session	Burns	Henriette	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall



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112	25167	A STEM Training Program to Improve Middle and High School VEX Competition Outcomes	Pre-College Engineering Education Division	Poster Session	Dan	Ryan	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
113	26063	Teaching Hands-On Racecar Design in a Summer Pre-College Program	Pre-College Engineering Education Division	Poster Session	Delagrammatikas	George	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
114	26025	Developing a Model of Disciplinary Literacy Instruction for K-12 Engineering Education: Comparing the Literacy Practices of Electrical and Mechanical Engineers (Fundamental)	Pre-College Engineering Education Division	Poster Session	Green	Theresa	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
115	24606	Development of the Draw-An-Engineering-Teacher Test (DAETT) (Work in Progress)	Pre-College Engineering Education Division	Poster Session	Hammack	Rebekah	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
116	26615	Investigating optimization as a practice in middle school engineering	Pre-College Engineering Education Division	Poster Session	Johnson	Matthew	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
117	27297	WIP: Impact of Teaching Engineering Summer Academy on Teacher Efficacy and Teaching Beliefs	Pre-College Engineering Education Division	Poster Session	Lakin	Joni	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
118	26190	The STEM Research Academy at Queensborough Community College	Pre-College Engineering Education Division	Poster Session	Marchese	Paul	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
119	26361	Pre-engineering programs and the instillment of empowering abilities for minorities: the case of the SaviaLab program	Pre-College Engineering Education Division	Poster Session	Miranda	Constanza	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
120	26404	Development of an Engineering Identity and Career Aspirations Survey for use with Elementary Students	Pre-College Engineering Education Division	Poster Session	Paul	Kelli	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
121	26311	Development of a Create-a-Lego-Engineer Activity to Examine Students' Engineering Identity	Pre-College Engineering Education Division	Poster Session	Paul	Kelli	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
122	26274	Using Engineering Design to Increase Literacy and STEM Interest Among Third Graders (Work in Progress, Diversity)	Pre-College Engineering Education Division	Poster Session	Pinnell	Margaret	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
123	26894	Engaging teachers in authentic engineering design tasks to refine their disciplinary understandings (Work In Progress)	Pre-College Engineering Education Division	Poster Session	Portsmore	Merredith	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
124	26120	Influencing Student Engineering Interest and Identity: A Study Investigating the Effect of Engineering Summer Camps on Middle and High School Students (Work in Progress)	Pre-College Engineering Education Division	Poster Session	Robinson	Tim	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
125	26624	Development of a Project Based, Differentiated Engineering Curriculum (DEC) for High School Students [Work in Progress]	Pre-College Engineering Education Division	Poster Session	Soe	Mi	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall

Division Poster Session

Board #	Paper ID	Title	Division	Session Type	Author Last Name	Author First Name	Session Code	Date	Starts	Ends	Location
126	27387	Early Career Elementary Teachers'™ Evolving Choices for Incorporating Engineering into their Classroom	Pre-College Engineering Education Division	Poster Session	Swenson	Jessica	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
127	24720	Collaborative Multidisciplinary Engineering Design Experiences for Teachers (CoMET) Train the Trainer Model of Supports	Pre-College Engineering Education Division	Poster Session	Vasquez	Eleazar	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
128	27407	Work in Progress: Integrating Sustainability Engineering Education and Design into the K-12 Classroom: A Case Study in Electronics Recycling for Middle-School Youth	Pre-College Engineering Education Division	Poster Session	Wang	Congying	T333	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
129	26258	Girl Scout Engineering Programs' Impact on Middle School Girls'™ Engineering Identities	Student Division	Poster Session	Clark	Abigail	T347	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
130	25452	Engineering Education Collaborations: Exploring '™Ways of Thinking'™ using a Mixed Methods Approach	Student Division	Poster Session	Dalal	Medha	T347	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
131	27054	Methods for Assessing the Impact of Counterfactual Thinking on the Career Motivation of Practicing Women Engineers	Student Division	Poster Session	Desing	Renee	T347	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
132	25730	Documenting Student Perspectives of Learning While on Co-op	Student Division	Poster Session	Ehlert	Katherine	T347	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
133	27257	'™This Seems Reasonable'™: Using Epistemic Cognition and Metacognition to Justify the Reasonableness of Solutions in Senior Design	Student Division	Poster Session	McCord	Rachel	T347	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
134	26341	Methods for Conducting a Scoping Literature Review on Engineering Graduate Student Mental Health (Work in Progress)	Student Division	Poster Session	Tuladhar	Anu	T347	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
135	24862	Reflecting on 20 Years of the Attracting Women into Engineering (AWE) Workshop	Women in Engineering Division	Poster Session	Ahmed	Mahaa	T351	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
136	27363	An Intersectional Perspective to Studying Microaggressions in Engineering Programs	Women in Engineering Division	Poster Session	Berger	Meghan	T351	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall
137	25920	Persistence of Women of Color in Undergraduate Engineering Programs	Women in Engineering Division	Poster Session	Green	Courtney	T351	Tuesday, June 18, 2019	11:30 AM	1:00 PM	Exhibit Hall