All times are MT

Presentation Sessions Thu 4/23/2020

8:30-8:45

Welcome Talk by Dean Christos Christodoulou

ZOOM link 1

Thu 4/23/2020

1st AM Session	Authors	Paper/Presentation Title
9:00-9:12	Vanessa Svihla, Yan Chen, Chen Qiu, Jordan O. James, Amber Gallup and S. Pil Kang	Tools for measuring design problem framing progress
9:12-9:24	Andrea Turcatti and Terrell Bennett	The Effectiveness of Service-Learning Based Projects in Improving the Understanding of the Design Process and the Self-Efficacy of Students in Engineering
9:24-9:36	Alex Nunez-Thompson and Matthew Wettergreen	Implementing Authentic, University-Level Engineering Design Coursework in Pre-College Programs
9:36-9:48	David Ewing	The Effects of Specialized Section Groupings on Success Rates in a Freshman Problem Solving Course
9:48-10:00	Tracy L. Mallette, Madalyn Wilson-Fetrow, Jordan O. James, Vanessa Svihla and Abhaya Datye	Bench-scale Testing Enhances Focus on Feasibility of Design Solutions
10:00-10:12	Roman Taraban, Curtis Craig, Srinivasa Murthy Gunturu and Edward E. Anderson	Machine Analysis of Differences in Statics Problem-Solving Concepts Based on Skill Level

2nd AM Session	Authors	Paper/Presentation Title
10:20-10:32	Ahmed Hussain, Nizar Tayem, Jamal Nayfeh and Samir El-Nakla	Undergraduate Engineering Program Evaluation, Assessment, and Continuous Improvement Process: A Case Study
10:32-10:44	Amir Karimi and Randall Manteufel	Most Recent Updates to ABET-EAC-Criteria 3, 4 and 5
10:44-10:56	Pasha Hammond and Huda Sarraj	Introducing iCM: Leveraging Tableau for Curriculum Mapping

10:56-11:08	Andrei Zagrai, Donghyeon Ryu, Mostafa Hassanalian, Sayavur Bakhtiyarov and Arash Mousavi	Micro Modules for Reshaping Mechanical Engineering Curriculum
11:08-11:20	IKrista Nicklaus Daniel Puneri and Patricia Clayton	Perspectives on a Mentored Engineering Graduate Student Teaching Practicum for Faculty Teaching Preparation
11:20-11:32	Amir Karimi	Instructor Initiated Drop Policy Effect on Student Success

Engineering Education into the Future: What it could look like and the learning spaces needed to support it ZOOM link 2 by P.K. Imbrie

Thu 4/23/2020

1st PM session	Authors	Paper/Presentation Title
12:10-12:22	Julie Ford, Robinson Ford, Dominic Gallegos and Casper Huang	Engineering Outreach: Socorro Middle Schoolers and New Mexico Tech Students Design, Build, and Race Gravity-Powered Cars
12:22-12:34	Abhaya Datye, Jamie Gomez, Marina Miletic, Eva Y. Chi, Sang M. Han, Catherine Anne Hubka, Yan Chen Chen, Vanessa Svihla and Sung Pil Kang	Design Challenges as a Spine to Engineering Courses
12:34-12:46	Roy Issa and Reinhard Puffing	Design of a Hexadrone for Agricultural Spraying - A Collaboration Project between West Texas A&M University and FH JOANNEUM
12:46-12:58	Veronica Mitchell, Benjamin Matheson, Tye Martin, Phuong Nguyen, Vanessa Svihla, Eva Chi and Heather Canavan	Diverse by Design: Increasing the Representation of People with Disabilities in STEM through Community Engagement
12:58-1:10	Ahmed Hasan and Tariq Khraishi	"An Introduction to Modern Mechanical Engineering" A New Course to Introduce Students to the Dynamic and Evolving Mechanical Engineering Disciplines.
1:10-1:22	Matthew Wettergreen	Helping Students Gain Momentum in Prototyping When Transitioning from Low to Medium Fidelity Prototypes

2nd PM session	Authors	Paper/Presentation Title

1:42-1:54	Antonio Garcia, Marcus McClary, Patricia Sullivan, Sandra Way, Edward Pines, Steven Stochaj, Gabe Garcia and Catherine Brewer	Andragogy and Pedagogy Curriculum Planning to Help 1st Generation, Low Income Students Succeed in Engineering	ZOOM link 3
1:54-2:06	Kristine Denman, Joel Robinson and Tariq Khraishi	A Study of the Impact of a NSF Internship and Conference Participation Program on Student Success	
		Development of a one-on-one mentoring model for	
2:06-2:18	Martha Mitchell and Paola Bandini	undergraduate students at a Minority Serving Institution	
2:18-2:30	Madalyn Wilson-Fetrow, Dayra Fallad-Mendoza, Benjamin Fetrow, Christopher Fetrow and Vanessa Svihla	What I Wish My PI Knew: Authentic Mentorships for Success in Undergraduate Research	
2:30-2:42	Olga Lavrova and Satish Ranade	Student Recruitment, Retention and Employment Placement for Future Power Systems Workforce Development at New Mexico State University.	

3rd PM session	Authors	Paper/Presentation Title
	Maryamsadat Shokrekhodaei, Annatoma Arif and	Optimizing Laboratory Curriculum to Enhance Students' Learning
2:50-3:02	Robert Christopher Roberts	Efficiency in Electrical Engineering Department
	Kenneth Leitch and Erick Butler	Collaboration between a civil engineering and environmental
3:02-3:14	Refilletif Leftch and Effek Butler	engineering program: better together
	Andrew Grossfield	A Comparison of Differential Calculus and Differential Geometry in
3:14-3:26	Andrew Grossfield	Two Dimensions
	Ulan Dakeev, Recayi Pecen, Faruk Yildiz and Ali Aljaroudi	A novel Augmented Reality application for a Mobile Renewable
3:26-3:38	Olah Dakeev, Recayl Pecell, Faruk filuiz ahu Ali Aljaroudi	Trailer as an Emergency Response
3:38-3:50	Jalal Rastegary, Patricia Sullivan, Stephanie Lloyd, Jason Dana, Catrina Damrell and Peter Cooke	Efficient Operation of Independent Grocery Stores in New Mexico
3:50-4:02	Matthias Pleil	Foundations in Microsystems Fabrication Course for Engineering Students
4:02-4:14	Aleksandr Sergeyev, John Irwin and Adrienne Minerick	Pioneering Approach for Offering the Convergence MS Degree in Mechatronics and Associate Graduate Certificate

Fri 4/24/2020

1st AM Session	Authors	Paper/Presentation Title	
9:44-9:56	Julia N. Savoy, Mia K. Markey and H. Grady Rylander III	Enhancing Predoctoral Biomedical Engineering Ethics Education	ZOOM link 4
9:56-10:08	Matthew Alexander	Teaching professional skills in chemical engineering courses - critical thinking, creativity, communication, and collaboration skills	
10:08-10:20	Marina Miletic, Vanessa Svihla, Eva Chi, Jamie Gomez, Abhaya Datye, Pil Kang, Yan Chen and Sang Han	The design of digital badges to certify professional skills in engineering	
10:20-10:32	Elsa Castillo, Joel Robinson, Kristine Denman, Anyssa Choy and Tariq Khraishi	Results of a Scholarship Program on Engineering/Computer Science Undergraduate Students Success	
10:32-10:44	Diana de la Rosa-Pohl and Catherine Horn	Endeavour S-STEM: Supporting High-Achieving Underserved Students in STEM	
10:44-10:56	Cody Crosby, Anita Patrick, Margo Cousins, Laura Suggs and Mia Markey	Scientific Skill Acquisition and Identity of Visiting Scholars in a Research Experience for Undergraduates (REU) Site	
10:56-11:08	Tamara Stimatze, Jacqueline Zeiber, Patricia Sullivan, Steven Stochaj and Luis Vázquez	New Mexico PREP Academy: Improve STEM Knowledge for Underrepresented Middle and High School Students	
11:08-11:20	Kenneth Van Treuren	Helping iGen Engineering Students Prepare for the Real World	

2nd AM session	Authors	Paper/Presentation Title	ZOOM link 5
			Plenary
11:30-11:42	Jacqueline El-Sayed	Emergency Response: Shared Best Practices	Presentation
	Yu-Lin Shen	Meeting the Standards for Online Teaching: Some Strategies for	
11:42-11:54	ru-Liii Sileii	"Dry" Engineering Courses	
	Jeff Cunion and Brigitte Barbier	Integrating SAP into an Online Engineering Technology Class:	
11:54-12:06	Jen Cumon and Brightle Barbler	Issues and Outcomes	
12:06-12:18	Chadia Affane Aji and M. Javed Khan	Simulation Technology and Student Engagement	
12:18-12:30	Cynthia Fry and Zachary Steudel	DEVELOPMENT OF A REVERSE SOFTWARE ENGINEERING PROJECT	

		A SOPHOMORE-LEVEL REVERSE SOFTWARE ENGINEERING
12:30-12:42	Cynthia Fry, Gennie Mansi and Kevin Kulda	PROJECT IN COMPUTER SYSTEMS
12:42-12:54	Roli Varma	Indian Perspective on Women in Computing
12:54-1:06	Randall Manteufel and Amir Karimi	Use of phones and online tutors to cheat on engineering exams
1:06-1:18	Roli Varma and Meghna Sabharwal	Asian Indian Engineers on H-1B Visas in the United States

1st PM session	Authors	Paper/Presentation Title	ZOOM link 6
1:50-2:02	Chadia Affane Aji and M. Javed Khan	Effective Instructional Strategies for Deeper Learning	
	Ryan Campbell, Danny Reible, Roman Taraban and	More than a Dream: The Developing Reflective Engineers through	
2:02-2:14	Jeong-Hee Kim	Artful Methods (DREAM) Project	
	Julia N. Savoy, Mia K. Markey and H. Grady Rylander III	Using Reflective Tools to Enhance the Value of Externships for	
2:14-2:26	Julia N. Savoy, ivila K. iviarkey and H. Grady Kylander III	Predoctoral Biomedical Engineering Students	
2:26-2:38	Vanessa Svihla	Making Ideation Authentic and Useful in Course-Based Design	
	Jamie Gomez, Catherine Hubka, Yan Chen, Vanessa	Do I have to teach writing?	
2:38-2:50	Svihla, Eva Chi and Abhaya Datye	Do i nave to teach writing:	
2nd PM session	Authors	Paper/Presentation Title	
	Yan Chen, Marina Miletic, Sang M. Han and Vanessa	Enhancing student learning with a community-based design	
2:50-3:02	Svihla	challenge in a transport course	
	Sheima Khatib, Roman Taraban and William Lawson	Changes in Student Confidence, Strategies, and Reflection in a FE	
3:02-3:14	Sheima Khatib, Koman Taraban and William Lawson	Review Course in Chemical Engineering	
3:14-3:26	M. Javed Khan and Chadia Affane Aji	Development of Engineering Identity	
	John Carrell, Joshua Cruz and Stephanie Kuzmack	Using Humanities as Context for STEM Empathy Development: A	
3:26-3:38	January 2001. 22 and Stephanie Resinant	Discourse Analysis	