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Elaine Harada Teixeira de Oliveira (Universidade Federal do Amazonas, Brazil)
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Erika Nozawa (Instituto Ambiental e Tecnológico da Amazônia, Brazil)
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Rafael Pastor (Universidad Nacional de Educación a Distancia (UNED), Spain)
Daniel Sanchez (Universidad Nacional de Educación a Distancia (UNED), Spain)
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Roberto Hernandez (Universidad Nacional de Educación a Distancia (UNED), Spain)
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Salvador Ros (Universidad Nacional de Educación a Distancia (UNED), Spain)
Gabriel Diaz (Universidad Nacional de Educación a Distancia (UNED), Spain)
Manuel Castro (Universidad Nacional de Educación a Distancia (UNED), Spain)

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Javier Garcia-Zubia (University of Deusto, Spain)

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Special Session: IEEE Real World Engineering Projects: Discovery-Based Curriculum Modules for First-Year Students

Special Session: IEEE Real World Engineering Projects: Discovery-Based Curriculum Modules for First-Year Students

Stephen M Williams (Milwaukee School of Engineering, USA)
Anita Vasavada (Washington State University, USA)
Jacques Nicolas Beneat (Norwich University, USA)
Gregorio Cappuccino (Deis - University of Calabria, Italy)
David Lin (Washington State University, USA)
Warren Rosen (Drexel University, USA)
Eric Carr (Drexel University, USA)
Kirk Reinkens (Washington State University, USA)
Mingrui Zhang (Winona State University, USA)
Francesco Amoroso (University of Calabria, Italy)
Saturday, October 6th

8:00 AM - 9:50 AM

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Special Session: Connecting with Community: Empathy, Experience, and Engineering with Elders
Lynn Andrea Stein (Franklin W. Olin College of Engineering, USA)
Caitrin Lynch (Franklin W. Olin College of Engineering, USA)

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New Pedagogic Challenges in Engineering Education
Michael Auer (Carinthia Tech Institute, Austria)
Danilo Zutin (Carinthia University of Applied Sciences, Austria)

Assessing the application of three theories of conceptual change to interdisciplinary data sets
Devlin Montfort (Washington State University, USA)
Geoffrey Herman (University of Illinois, USA)
Ruth Streveler (Purdue University, USA)
Shane Brown (Washington State University, USA)

The Effect of Interleaving an Alternate Task During Tutoring and Testing
Amruth Kumar (Ramapo College of New Jersey, USA)

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Lisa McNair (Virginia Tech, USA)
Chris Venters (Virginia Tech, USA)

Using practice theory to investigate professional engineers' workplace learning
Donna Rooney (University of Technology, Sydney, Australia)
David Boud (University of Technology, Sydney, Australia)
Ann Reich (The University of Technology, Sydney, Australia)
Terry Fitzgerald (The University of Technology, Sydney, Australia)
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Anne Gardner (University of Technology, Sydney, Australia)

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Robin Adams (Purdue University, USA)
Mel Chua (Purdue University, USA)
Dana Denick (Purdue University, USA)
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Nikitha Sambamurthy (Purdue University, USA)
Junaid Siddiqui (Purdue University, USA)
Linda Vanasupa (California Polytechnic State University, San Luis Obispo, USA)
Roberta Herter (California Polytechnic State University, San Luis Obispo, USA)
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Wanda Dann (Carnegie Mellon University, USA)
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Keith Trahan (University of Pittsburgh, USA)

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Donald DeRosa (Boston University School of Education, USA)
Carol Jenkins (Boston University School of Education, USA)
Andrew Hollins (Boston University School of Education, USA)
Brenda Richardson (Trotter Elementary School, USA)

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Chair: Deborah Trytten (University of Oklahoma, USA)

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Lori Carter (Point Loma Nazarene University, USA)
Ryan Botts (Point Loma Nazarene University, USA)
Catherine Crockett (Point Loma Nazarene University, USA)

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Henrique Cota Freitas (Pontifical Catholic University of Minas Gerais, Brazil)

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Steve Warren (Kansas State University, USA)
Dwight Day (Kansas State University, USA)

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Eric Pappas (James Madison University, USA)
Olga Pierrakos (James Madison University, USA)
Robert Nagel (James Madison University, USA)

Promoting Design Skills in Distributed Systems

Maria Feldgen (Universidad de Buenos Aires, Argentina)
Osvaldo Clua (Universidad de Buenos Aires, Argentina)

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Jon Sticklen (Michigan State University, USA)
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Allison Devlin (University of La Verne, USA)
John Patrick (University of La Verne, USA)
Nate Sexton (University of La Verne, USA)
Jalin Brooks (University of La Verne, USA)
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Rafael Pastor (UNED, Spain)
Miguel Rodriguez-Artacho (UNED, Spain)
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Special Session: CE2004 Revisions (Computer Engineering Curriculum Guidelines) Special Session
Eric Durant (Milwaukee School of Engineering, USA)
John Impagliazzo (Hofstra University, USA)
Susan Conry (Clarkson University, USA)
Andrew McGettrick (University of Strathclyde, United Kingdom)
Mitch Thornton (Southern Methodist University, USA)
Timothy Wilson (Embry-Riddle Aeronautical University, USA)

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Kerrie G. Wilkins (Arizona State University, USA)
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Jennifer Bekki (Arizona State University, USA)
Caroline Harrison (Arizona State University, USA)
Robert Atkinson (Arizona State University, USA)

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Keith Garfield (Embry-Riddle Aeronautical University, USA)

Application of item response theory (IRT) for the generation of adaptive assessments in an introductory course on object-oriented programming

Yehiry Pulido Vega (Universidad Distrital Francisco José de Caldas, Colombia)
Juan Carlos Guevara Bolaños (Universidad Distrital Francisco José de Caldas, Colombia)
Gloria Milena Fernández Nieto (Universidad Distrital Francisco José de Caldas, Colombia)
Silvia Margarita Baldiris Navarro (University of Girona, Spain)

Pedagogical architectures to support the process of teaching and learning of computer programming

Orivaldo Tavares (UFES, Brazil)
Credine Silva de Menezes (Universidade Federal do Rio Grande do Sul, Brazil)
Rosane de Nevado (UFRGS, Brazil)

Work in Progress: Help in Finding Evaluation Instruments for Engineering Education Innovations

Jennifer LeBeau (Washington State University, USA)
Denny Davis (Washington State University, USA)
Michael Trevisan (Washington State University, USA)
Brian French (Washington State University, USA)
Shane Brown (Washington State University, USA)
Howard Davis (Washington State University, USA)
Brian Dorgan (Washington State University, USA)
Sarah J Brooks (Washington State University, USA)

S2C: Gender and Diversity Issues 3
Chair: Amir Zeid (American University of Kuwait, Kuwait)

Work in Progress: First-Year Engineering Women: A Qualitative Investigation of Retention Factors

Jordan Hornback (University of Colorado Boulder, USA)
Daniel Knight (University of Colorado Boulder, USA)
Beverly Louie (University of Colorado Boulder, USA)

Perceptions of Engineering Identity: Diversity and EWB-USA

Kaitlin Litchfield (University of Colorado at Boulder, USA)
Amy Javernick-Will (University of Colorado at Boulder, USA)

Work in Progress: Understanding the Experiences of Women of Color in Engineering

Renata Revelo Alonso (University of Illinois at Urbana-Champaign, USA)

Work in Progress: Critical Questions of Engineering Students by Gender and Ethnicity

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Oladipo Onipede (Penn State Erie, The Behrend College, USA)
Ruth Pflueger (Penn State Erie, The Behrend College, USA)
Andrew Watters (Penn State Erie, The Behrend College, USA)

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Work in Progress: Incorporating an Open-ended Systems Engineering Project in a Minority
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Carl White (Morgan State University, USA)
Clifton Martin (Innovative STEM Foundation (ISF), USA)
Givon Forbes (Innovative STEM Foundation (ISF), USA)

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Jean DeMerit (University of Wisconsin - Madison, USA)
Lauren Aneskavich (University of Wisconsin - Madison, USA)
Kevin Cheng (University of Wisconsin - Madison, USA)
Steve Cramer (University of Wisconsin - Madison, USA)
Susan Hagness (University of Wisconsin - Madison, USA)
Amy Schiebel (Edgewood College, USA)
Kimberly Howard (Boston University, USA)
Work in Progress: A comprehensive approach for mapping student's progress: Assessing student progress in freshman engineering
John Pritchard (Iowa State University, USA)
Mani Mina (Iowa State University, USA)
Anthony Moore (Iowa State University, USA)

Using technology to improve peer review and collaborative conversations to benchmark academic standards
Mark Freeman (The University of Sydney, Australia)
Keith Willey (The University of Technology, Sydney, Australia)
Phil Hancock (The University of Western Australia, Australia)
Bryan Howieson (The University of Adelaide, Australia)
Kim Watty (Deakin University, Australia)
Anne Abraham (The University of Western Sydney, Australia)
Brendan O'Connell (RMIT, Australia)
Paul Delange (RMIT, Australia)

Work in Progress: Engaging Faculty for Program Improvement via EvalTools®: a New Software Model
Mohammed Eltayeb (Frostburg State University, USA)
Fong Mak (Gannon University, USA)
Oguz Soysal (Frostburg State University, USA)

Work in Progress: Building Information Literacy Assessment
Jessica A. Rozzi-Ochs (United States Coast Guard Academy, USA)
Carla Egelhoff (United States Coast Guard Academy, USA)
Hudson Jackson (United States Coast Guard Academy, USA)
Sharon Zelmanowitz (United States Coast Guard Academy, USA)

Managing Student Outcomes in a Totally Asynchronous Learning Environment: Lessons Learned
Larry Richards (University of Virginia, USA)
Susan Donohue (University of Virginia, USA)

Helping engineering students develop skills in content-based problem-solving workshops outside classrooms
Jia-Ling Lin (University of Minnesota Twin Cities, USA)
Jennifer Binzley (University of Wisconsin-Madison, USA)
Manuela Romero (University of Wisconsin-Madison, USA)

Work in Progress: How students use Lecture Notes in an Operating Systems Course
Osvaldo Clua (Universidad de Buenos Aires, Argentina)
Maria Feldgen (Universidad de Buenos Aires, Argentina)

Assessment of Self-regulated Attitudes and Behaviors of Introductory Programming Students
Ana Paula Ambrosio (Federal University of Goias, Brazil)
Scheila Martins (University of Coimbra, Portugal)
Leandro Almeida (University of Minho, Portugal)
Amanda Franco (University of Minho, Portugal)
Fouad Georges (University Salgado de Oliveira, Brazil)
Work in Progress: Analysis of the Relationship between Teaching Contents and Motivation in Programming Education
Hidekuni Tsukamoto (Osaka University of Arts, Japan)
Yasuhiro Takemura (Osaka University of Arts, Japan)
Hideo Nagumo (Niigata Seiryo University, Japan)
Naoya Nitta (Konan University, Japan)

Work in Progress: What Calculus Do Students Learn After Calculus?
Andrew Bennett (Kansas State University, USA)
Todd Moore (Kansas State University, USA)

S2G: Approaches to Student-Centered Education
Chair: Elliot Douglas (University of Florida, USA)

Work in Progress: Video Tutorials that Enhance Laboratory Learning
Veronica Fortino (University of Miami, USA)
Weizhao Zhao (University of Miami, USA)

Categorizing How Students Use Collaborative Technologies in a Globally Distributed Project
Åsa Cajander (Uppsala University, Sweden)
Mats Daniels (Uppsala University, Sweden)
Mats Cullhed (Uppsala University, Sweden)
Tony Clear (Auckland University of Technology, New Zealand)
Roger McDermott (Robert Gordon University, United Kingdom)
Cary Laxer (Rose-Hulman Institute of Technology, USA)

Student and Instructor Experiences in the Inverted Classroom
Michael Herold (The Ohio State University, USA)
Thomas Lynch (The Ohio State University, USA)
Rajiv Ramnath (The Ohio State University, USA)
Jayashree Ramanathan (The Ohio State University, USA)

Lessons Learned Implementing and Optimizing Guided Discovery Modules
Javier Kypuros (The University of Texas-Pan American, USA)
Constantine Tarawneh (The University of Texas-Pan American, USA)
Horacio Vasquez (The University of Texas-Pan American, USA)
Martin Knecht (South Texas College, USA)
Robert Wrinkle (The University of Texas-Pan American, USA)

Work in Progress: Student-Directed Learning: An Approach to Sustainability and Engineering Education
Bhavna Sharma (University of Pittsburgh & Mascaro Center for Sustainable Innovation, USA)
Birdy Reynolds (University of Pittsburgh, USA)
Chris Schunn (University of Pittsburgh, USA)
Effective Teaching of Technical Teamwork to Large Cohorts of Engineering Students in China
Dan Zhang (Queen Mary, University of London & Beijing University of Posts and Telecommunications, Fiji)
Na Yao (Queen Mary, University of London, United Kingdom)
Eleanor M Pritchard (Centre for Socio-Legal Studies, Faculty of Law, University of Oxford & QMUL / BUPT, United Kingdom)
Laurie Cuthbert (Queen Mary, University of London, United Kingdom)
Steve Ketteridge (Queen Mary, University of London, United Kingdom)

Work in Progress: Understanding Professional Competency Formation in a Service-Learning Context from an Alumni Perspective
James Huff (Purdue University, USA)
William Oakes (Purdue University, USA)
Carla Zoltowski (Purdue University, USA)

Characterizing Communication Instruction in Computer Science and Engineering Programs
Janet Burge (Miami University, USA)
Gerald Gannod (Miami University, USA)
Paul Anderson (Elon University, USA)
Kara Rosine (Miami University, USA)
Mladen A Vouk (North Carolina State University, USA)
Michael Carter (North Carolina State University, USA)

Work in Progress: A Case Study of the Types and Frequencies of Conflict in Engineering Design Dyads
Joi-Lynn Mondisa (Purdue University, USA)
Nicholas D Fila (Purdue University, USA)
Emily Dringenberg (Purdue University, USA)
Tasha Zephirin (Purdue University, USA)
Senay Purzer (Purdue University, USA)

Work in Progress: Enhancing Broader Communication among Courses Linked with Prerequisites
Ziliang Zhou (California Baptist University, USA)
Anthony Donaldson (California Baptist University, USA)

A Model for Generating Proactive Context-Aware Recommendations in e-Learning Systems
Daniel Gallego (Universidad Politécnica de Madrid & Escuela Técnica Superior de Ingenieros de Telecomunicación, Spain)
Enrique Barra Arias (Universidad Politécnica de Madrid & Agora Systems S. A., Spain)
Sandra Aguirre Herrera (Universidad Politécnica de Madrid, Spain)
Gabriel Huecas (Universidad Politécnica de Madrid, Spain)

Aural Instruction with Visualization in E-Learning
Fuad Alhosban (Durham University, United Kingdom)
Liz Burd (Durham University, United Kingdom)