



Wednesday, 14 May

8am	Conference Registration <i>KOBL 352 (outside)</i>
8:30am	Light Breakfast <i>ECCS 201 (Outside)</i>
9am	Session 1 <i>ECCS 201</i>
9am	Coding with AI: The Future of Software Development in the Age of Intelligence » Mr. Ivan Portilla
9:05am	Discussing AI: Patterns of Classroom Collaboration » Dr. Katherine Nielsen
9:25am	Methodological Foundations for AI-Driven Survey Question Generation » Mr. Ted Mburu , Ms. Kangxuan Rong , Dr. Campbell McColley , Dr. Alexandra Werth
9:45am	Transcription-Enhanced AI Code Review for Deeper Learning » Mr. Nathan Whittenburg , Mr. Bobby Hodgkinson
9:50am	AI-Driven Concept Assessment Framework and Application in Aerospace Engineering Sophomore Lab » Dr. Chloe Long , Mr. Bobby Hodgkinson
10:10am	Igniting Entrepreneurial Mindsets through AI-Assisted STEAM Content Creation Using Camtasia » Dr. John Santiago
10:30am	Break <i>ECCS 201 (Outside)</i>

10:45am	AI Panel & Q/A Session <i>ECCS 201</i>
12:30pm	Continuing the Conversation with AI Panelists Lunch <i>KOBL 352</i>
2pm	Session 2A <i>KOBL 125</i>
2pm	Communicating AI Use in Your Course: A Policy Design Workshop » Mr. Dillon Gidcumb , Ms. Kayla Kohake , Ms. Feliz Luna
2pm	Session 2B <i>BOLD Center</i>
2pm	Building Community and Student Success Strategies in the BOLD Center » Ms. Amy Moreno Sherwood , Mrs. Marlene Goldman , Ms. Chantal Baca
3:30pm	Break <i>ECCS 201 (Outside)</i>
3:45pm	Session 3 <i>KOBL 352</i>
3:45pm	Accessible AI Tools for Educators and Students with MATLAB » Mr. Jon Loftin
4:45pm	Mixer & Refreshments <i>ECCS 201 (Outside)</i>
5:15pm	Keynote - Rebecca Komarek <i>ECCS 201</i>



Continued from **Wednesday, 14 May**

Engineered to Lead: Integrating Leadership in Engineering Education

» Rebecca Komarek

Thursday, 15 May

8am **Breakfast**
ECCS 201 (Outside)

8am **Posters available for viewing**
KOBL 352 (outside)

8:30am **Conference Welcome - Dr. Keith Molenaar, Dean of Engineering and Applied Sciences, CU Boulder**
ECCS 201

» Keith Molenaar

9am **Keynote - Doug Melton**
ECCS 201

The Quad: Educating Engineers for a World in Flux - Turning Disruption into Direction
» Doug Melton

10:05am **Session 4A**
ECCS 201

10:05am **Instructor Gender Effects on Teamwork Experience Among Female Students in a First Year Engineering Projects Course**
» [Dr. Angela Bielefeldt](#), Dr. Malinda Zarske

10:17am **Mixed Methods Assessment of First-Year Bridge Program at "Western Teaching University"**
» [Dr. Randy Hurd](#), Mr. Sulabh Khadka, Dr. Dustin Grote

10:29am **First-year Engineering Seminars Abroad: Creating community for incoming engineering students**
» [Dr. German Parada](#)

10:41am **Publishing with Teach Engineering: A Guide for Engineering Educators to Share Their Resources**
» [Ms. Ellen Parrish](#), Ms. Jennifer Kracha

10:46am **Bringing Engineering into STEM Classrooms with Teach Engineering**
» [Ms. Ellen Parrish](#), Ms. Jennifer Kracha

10:51am **Using Student Posters to Investigate the Impact of Inquiry-Based STEM Learning on Rural K-12 Students**
» [Mr. Alexander Aronov](#), Dr. Daniel knightdw@colorado.edu, Dr. Angela Bielefeldt, Dr. Joseph Polman, Ms. Fabiola Palomar

11:03am **The Gift of Zero**
» [Ms. Sarah Maud](#)

11:15am **Work In Progress: Engineering Student Success — Key Takeaways from the Lattice Scholars Program**
» [Mr. Abdirahman Abdi](#), Mr. Phil Courey, Dr. Malinda Zarske

11:27am **Beyond Affirmative Action: Can Performance-Based Admissions Boost Diversity in STEM?**
» [Ms. Abigail Rose](#)

10:15am **Session 4D**
KOBL 352



Continued from Thursday, 15 May

10:15am **Creative Learning through Maker Activities**
» [Dr. Pinar Omur-ozbek](#)

10:15am **Session 4B**
KOB 225

10:15am **Using Interactive Visualizations to Enhance Your Lectures and Help Students Overcome Misconceptions**
» [Prof. Susan Reynolds](#), Dr. Dan Baker

10:15am **Session 4C**
KOB 125

10:15am **Curiosity, Connections, and Creating Value: Leveraging the KEEN Framework in Undergraduate Mathematics Teaching**
» [Dr. Wojciech Kossek](#), Dr. Stephanie Salomone

11:35am **Lunch**
ECCS 201 (Outside)

12pm **Keynote - William Kuskin**
ECCS 201

Death and the Printers: Looking to the Past for the Future of Higher Education
» William Kuskin

1:05pm **Session 5A**
ECCS 201

1:05pm **Exploring Circuit Education for Early Learners**
» [Ms. Ruhan Yang](#), [Dr. Ellen Do](#)

1:17pm **Introducing Engineering Design to Fifth Graders: An Interactive Learning Activity**
» [Dr. Pinar Omur-ozbek](#)

1:29pm **Introductory Robotics Workshop Development: Building Critical Skills Across Disciplines**
» [Mr. Whit Whittall](#), Prof. Barbra Sobhani, Mr. Kailen Sammons

1:41pm **Student Insights on an Interdisciplinary Engineering Capstone Project with a Clear Client-Customer Relationship**
» Ms. Abigail Neering, [Mr. Mitchell Keck](#), Ms. Julia Reyna, Ms. Natcin Sorensen, Dr. Travis Price, Dr. Randy Hurd

1:53pm **All of Capstone in a Day Project**
» [Prof. Eric Bogatin](#), Mr. John Lettang

2:05pm **Customized Learning Solution in Capstone Design Project on Plastic Pollution**
» [Prof. Sung Hee Joo](#), Dr. Katrina Knauer, Dr. Bryon Donohoe

2:10pm **A Student Perspective on Learning through UAV Design in an Engineering Capstone Project**
» [Mr. Pedro Cupertino](#), [Mr. Anubhav Pant](#), Mr. Yuto Minami, Ms. Ami Goto, Mr. Kubeshavarsha Kalithasan, Dr. Adam Lynch

2:22pm **Quantum Computing Conceptual Survey: Results from 3 semesters of pilot data collection**
» [Ms. Josephine Meyer](#), Dr. Gina Passante, Dr. Steven Pollock, Dr. Bethany Wilcox

2:34pm **Learning about Ethics and Equity in Engineering: Experience of Early-Career Engineers**
» [Ms. Chika Winnifred Agha](#), Prof. Rebecca Atadero, Dr. Amir Hedayati Mehdiabadi

1:15pm **Session 5B**
KOB 352



Continued from Thursday, 15 May			
1:15pm	Empowering Minds through Photovoice: An Art-based Approach to Cultivating Entrepreneurial Mindset and Shared Values » Dr. Shukufe Rahman , Dr. Bhavana Kotla , Dr. Adam Carberry	3:24pm	Integrating Finite Element Analysis and Computational Fluid Dynamics as Learning Tools in Undergraduate Engineering Courses » Dr. Mike Soltys
1:15pm	Session 5E KOB L 225	3:36pm	Decision Quality for an Electromechanical Startup » Mr. sivaganeshwar subramaniam , Dr. Adam Lynch
1:15pm	Teaching Engineering Students with Different Neurotypes: Strategies for Engaging and Effective Education » Dr. Azadeh Bolhari , Dr. Angela Bielefeldt	3:48pm	Systems Engineering Digital Transformation Plan Using NIST CSF, CISCO and VEE Model » Mr. Ameya Shah , Dr. Adam Lynch , Mr. Duy Bui
1:15pm	Session 5C KOB L 125	4pm	Optimizing Manufacturing Efficiency through 5S Implementation » Mr. Thulana Delana Mudiyansele , Mr. Pedro Cupertino , Dr. Adam Lynch
1:15pm	Empowering Educators: Critical Teaching Behaviors for Teaching Excellence » Dr. Preeti Mahaveer Jagadev	4:12pm	Interdiffusion of Mathematics and Materials Engineering: Co-Teaching with Impact » Dr. Maila Hallare , Dr. Tanjore Jayaraman
1:15pm	Session 5D KOB L 123	4:24pm	Precision in Focus: Navigating Pallet Positioning Challenges in Aerospace Manufacturing » Ms. Rachel Cloud , Mr. Spencer MacLaughlin , Dr. Adam Lynch , Mr. Ridge Towner
1:15pm	Alternative Grading Strategies in Engineering Education » Dr. Jeremy Koch , Dr. Katherine Ramos , Dr. Novella Keeling	3pm	Session 6B KOB L 352
2:45pm	Break ECCS 201 (Outside)	3pm	360 Video: Bring the World into your Classroom » Mr. Pat Clark
3pm	Session 6A ECCS 201	3pm	Session 6C KOB L 125
3pm	Art in Engineering as Open Pedagogy » Prof. Jean Hertzberg	3pm	Disrupting Teacher-Centered STEM Pedagogies to Nurture STEM Identities » Ms. Loraine Glidewell , Mr. Peter Karanevich
3:12pm	Student Intuitions of Torque as Proprioception » Mr. Joseph Coughlin , Dr. David Mays , Dr. Heather Johnson		



Continued from Thursday, 15 May

3pm	Session 6D <i>KOBL 123</i>
3pm	Art & Science and Fun & Learning, All Side by Side » Mx. Vianney Aguilar , Prof. Beth Osnes-Stoedefalke , Dr. Chelsea Hackett
4:45pm	Poster Session <i>KOBL 352 (outside)</i>
	Navigating Ethics and Equity in Engineering: Experiences Shared by Early Career Engineers » Ms. Chika Winnifred Agha , Prof. Rebecca Atadero, Dr. Amir Hedayati Mehdiabadi, Dr. Pinar Omur-ozbek
	Understanding STEM Accessibility: A Comparison of Educator and Student Perspectives » Ms. Adeline Greene , Mr. Seth Vuletich , Mrs. Brianna Buljung
	Integrating AI Ethics into Technical Graduate Education: Assessing Perceptions and Learning Outcomes in a Machine Learning Course » Ms. Indu Varshini Jayapal , Dr. James K.L. Hammerman, Dr. Theodora Chaspari
	Evaluating LLM Completion of Assessments in the CU MS-CS on Coursera Program » Mr. Dustin Hooks , Dr. Eric Keller
	Developing an "Engineering Identity" and Metacognitive Skills that are Critical to Engineering Student Success » Dr. Thomas Connolly
	Teach Engineering: A Resource for Engaging STEM Education » Ms. Jennifer Kracha , Ms. Ellen Parrish

Making an Impact on Calculus for Engineers The BOLD Center

» [Ms. Chantal Baca](#)

A Student-Centered Approach to Statics: A New Open Educational Resource (OER) at Seeing Structures

» [Prof. Susan Reynolds](#)

Source Measure Unit with Multiplexing

» [Ms. Senayt Wolde](#), Ms. Claire Markus, Mx. Alison Brzostowicz, Mr. Mahdi Taher Al-Marhoon, Mr. Owen Hushka, Mr. Dylan Schafer

Environmental Variance Analyzer (EVA) Pod

» Ms. Anika Mathur, [Mr. Eli Wall](#), Ms. Sydney Medina, Ms. Julia DiTomas, Mr. Andrew Morris, [Mr. Shane Mccammon](#)

A Helping Hand

» [Mr. Troy Quintana](#), Mr. Christian Lopez, Mr. Jacob Stewart, Mr. Matthew Cerza, [Mr. Jeerakit Kanokthipphayakun](#), Mr. Zachary Shelton

A Student Perspective on Learning through UAV Design in an Engineering Capstone Project

» [Mr. Pedro Cupertino](#), [Mr. Anubhav Pant](#), Mr. Yuto Minami, Ms. Ami Goto, Mr. Kubeshavarsha Kalithasan, Dr. Adam Lynch

Optimizing Manufacturing Efficiency through 5S Implementation

» [Mr. Pedro Cupertino](#), Mr. Thulana Delana Mudiyansele, Dr. Adam Lynch

Friday, 16 May

8:15am	Breakfast <i>ECCS 201 (Outside)</i>
9am	Keynote - Kathryn Johnson <i>ECCS 201</i>



Continued from Friday, 16 May

Illuminating the Sociotechnical in Engineering Education

» Katie Johnson

10:10am **Session 7A**
ECCS 201

10:10am **Exploring Professor Motivations and Implementations of a Real-World Problem-Solving Project: A Case Study in Preparing Students for the Emerging Building Science Industry**

» [Mr. Benjamin Bruxvoort](#), Dr. Nehemiah Emaikwu, [Dr. Kim Trenbath](#), Mr. Jason Schmidt

10:25am **Mixed Reality in Construction Engineering Management Education**

» [Dr. Steven Ayer](#)

10:30am **Incomplete Workbook Strategy in Civil Engineering Classes**

» [Dr. Pyo-Yoon Hong](#)

10:45am **Engaging Environmental Engineering Students Through a Maker Activity on Mass Balance Concepts**

» [Dr. Pinar Omur-ozbek](#)

11am **New Mastery-Based Process Safety Engineering Course Applies Class Learning to Individual Semester-Long Case Studies**

» [Dr. Wendy Young](#)

11:15am **Can studio-style instruction promote the application of engineering principles in biomedical problem solving. Analysis of type 1 diabetes treatment designs submitted by biomedical engineering students in their sophomore and junior year studio.**

» [Dr. Mridusmita Saikia](#), Dr. Stephanie Fuchs

11:30am **Developing Innovative Projects to Engage Engineering Students in Computing**

» [Prof. Julie Jarzemsky](#)

11:35am **Reframing Engineering & Science Education: A Case Study of CU Boulder's Online Master's Programs on Coursera**

» [Ms. Shane Hua](#), [Ms. Erica Reid](#), [Ms. Carly Morse](#), [Ms. Emily Musumecchi](#), [Ms. Layne Williams](#)

10:15am **Session 7D**
KOB 352

10:15am **Pre-College Environmental Explorations Using NASA-Funded Aerokats and Rover Education Network (AREN) Technology**

» [Ms. Jennifer Taylor](#), [Ms. Keriann Jacobson](#)

10:15am **Session 7B**
KOB 225

10:15am **Fostering Faculty Learning Communities Focused on Teaching**

» [Dr. Katherine Goodman](#), [Ms. Susan Stirrup](#)

10:15am **Session 7C**
KOB 125

10:15am **Workshop: Data-driven pedagogical techniques and resources to increase student engagement and sense of belonging in large courses**

» [Dr. Warren Sconiers](#), Dr. Alexa Clemmons, Dr. Kelly Gildersleeve, Dr. Kalpana Gupta, Dr. Melanie Pepper, Ms. Baylee Edwards, Dr. Maryrose Weatherton

12:05pm **Introduction to Internet of Things: Hands-On Workshop**
KOB 352

12:05pm **Introduction to Internet of Things: Hands-On Workshop**

» [Mr. Jacob George](#), [Mr. Jon Loftin](#), [Mr. Ram Krishnamurthy](#)

1:15pm **ASEE RMS Business Meeting**
KOB 352