Track 1: College Readiness and Support in STEM and Transition to College	Track 2: The STEM Gap: Representation, Access and Retention in STEM	Track 3: Higher Education STEM-Improved Learning though Teaching and Communities	Track 4: Industry & Technology Partnerships Improve STEM Education			
	Break-out Session 1: 10:10 a.m. to 11:00 a.m.					
Student Technology Access in an Urban STEM High School: The Missing Variable Brian L. Sersion, Cincinnati Public Schools and Douglas M. Stevens, University of Cincinnati and Cincinnati Public Schools Paper Presentation	Identification of Strategies that Overcome Barriers to Women and Minorities in STEM A. A. Ilumoka, University of Hartford Paper	Interdisciplinary Service Learning: Two Approaches to Solving One Problem Maleka P. Hashmi and Kitrina M. Carlson, University of Wisconsin- Stout Paper	Industrial and STEM Partnership Creates Engineering Student Leaders Bruce DeRuntz et al Southern Illinois University- Carbondale Paper			
High Performance Math: College Ready and Transition to College Wendy Zinn, San Bernardino Community College District and Craig Reisgen, High Performance Math Paper	A Comparison of Epistemological Beliefs of African American Engineering Students Bethany King Wilkes, Oklahoma State University Paper Presentation	Lyman Briggs College: An Innovative Living-Learning Community for STEM Education Ryan D. Sweeder and Aaron M. McCright, Michigan State University Paper Presentation	Seeing the Forest for the Trees – An Industry & Academic Partnership Michael R. Bowman and Glendali Rodriguez, University of Wisconsin- Stout Paper			





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Break-out Session 2: 11:10 a.m. to 12:00 p.m.					
Inspiring and Engaging the Next Generation in STEM Through PLTW and REAL Cordelia Ontiveros and Elena Alvarez, California State Polytechnic University, Pomona- College of Engineering	Applied Universal Design for Learning in STEM Education Kevin W. Tharp, Renee Howarton, Dean Wirtanen, Glendali Rodriguez and Xuedong (David) Ding, University of Wisconsin-Stout	Organizational Learning in STEM Education Contexts: Analyzing the "Stickiness" of High Impact Practices Jo Ann Oravec et al. University of Wisconsin at Whitewater	Building STEM Partnership Teams in Suburban Districts Christopher Reis, School District of Kettle Moraine (WI)		
Paper Presentation	Paper Presentation	<u>Paper</u>	<u>Paper Presentation</u>		
Using Hands-on Robotics Projects to Engage and Strengthen High School Students Participation in STEM Education Andy S. Zhang et al., New York City College of Technology of CUNY Paper Presentation	Creating a Pipeline: An Analysis of Pre-College Factors of Students in STEM Erica Harwell and Derek A. Houston, University of Illinois at Urbana-Champaign Paper	Improving Mathematics Success Through Enhanced Support Services Alexander Basyrov, Christopher P. Bendel, Seth Dutter and Benjamin F. Jones, University of Wisconsin- Stout Paper	Collaborative Educational Experiences through Higher Education-Industry Partnerships Thomas E. Pinelli, Langley Research Center(NASA) and Cathy Hall, East Carolina U. Paper Presentation		
Luncheon Keynote: Baldrige, STEM Engagement and Learning Communities For Handout, Click HERE					





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	Break-out Session 3: 1:3	35 p.m. to 2:25 p.m.	-
Using Cognitive Acceleration Materials to Develop Preservice Teachers' Reasoning and Pedagogical Expertise Nathan Moore and Dennis Poirier, Winona State University, and Jacqueline O'Donnell, Rochester STEM Academy Paper Leveraging Simple Problems to Introduce Engineering Principles and Ways of Thinking Kenneth Welty and David Stricker, University of Wisconsin-Stout Paper	The STEPS Difference: 16 Years of Attracting Girls to Careers in Science, Technology, Engineering & Mathematics (Includes Tour of STEPS summer program) Brenda S. Puck and Wendy R. Stary, University of Wisconsin-Stout Paper	An ABC Sampler of Best Practices: NSF STEM Scholar Program at UW Platteville Lisa M. Landgraf, Tammy Salmon- Stephens and Irfan Ul- Haq, University of Wisconsin- Platteville Paper Presentation A Philosopher Looks at STEM Quality in Higher Education from a Liberal Arts and Sciences Perspective Jeremy A. Gallegos, Friends University Paper	Service Learning in Non-Majors Biology: Learning Outcomes and Lessons from the Field Amanda M. Little, University of Wisconsin-Stout Paper Presentation STUDENTfacturED: Providing a Way to "STEM" Out from Behind Old School Walls and Into the Real World Workplace Vivian Ngan-Winward, Salt Lake Community College Paper Presentation





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Break-out Session 4: 2:40 p.m. to 3:30 p.m.					
The 4-H Tech Wizards Program: Engaging Underserved Youth in STEM Joanna M. Skluzacek et al., University of Wisconsin- Extension. Paper	Diversity Awareness Education in an Introductory Seminar Course to Promote Social Responsibility Krista C. James and Kitrina Carlson, University of Wisconsin-Stout Paper	Preparing Students for STEM Research at the Lyman Briggs College Ryan D. Sweeder and Philip E. Strong, Michigan State University Paper Presentation	Gesture-Based Software Development with Undergraduate Teams Trudi Miller et al. University of Wisconsin- Stevens Point Paper		
Dual Enrollment: A STEM/Engineering Initiative Tecca Larrick, Kent State University-Tuscarawas Paper		Teaching History of Science and Technology at a Polytechnic Institution David Seim, University of Wisconsin-Stout Paper			



