

SCHEDULE: BREAKOUT SESSIONS					
Room	Session A Tuesday, July 28 1:25 – 2:35	Session B Tuesday, July 28 2:55 – 4:05	Session C Tuesday, July 28 4:15 – 5:25	Session D Wednesday, July 29 9:25 – 10:35	Session E Wednesday, July 29 10:45 – 11:55
Loyalty	A1. Primary Sources and STEM (3-12) Judy Bee	B1. Communication, Collaboration, and Creativity through Computational Thinking (K-5) Todd Lash, Jessica Pitcher, Wendy Maa, Minsoo Park	C1. Five Steps to Integrating Technology Into Your Elementary Classroom (EC-8) Anastasia Hahn	D1. Art and Sustainability (3-12) Jennifer O'Connor	E1. Problem Based Learning Challenges & Working with STEM Mentors (9-12) Allie Barwise
Excellence	A2. YouTube and Hollywood are my best Flippin' TAs (6-12) Eric Snodgrass	B2. The Friday Mystery (3-12) James Sparks	C2. The Friday Mystery (3-12) James Sparks	D2. Engaging Inquiry (3-12) Patricia Braun	E2. Are you Great Lakes Literate? Get Resources to Inspire Students (4-12) Kirsten Hope Walker
Innovation	A3. Engaging Elementary Science and Engineering Labs (EC-5) Joe Muskin	B3. Engaging Middle and High School Science and Engineering Labs (6-12) Joe Muskin	C3. Exploration and Experimentation in Mathematics: Resources and Examples (EC-12) Claire Merriman	D3. NGSS and 3-Dimensional Learning (6-12) Natacia Campbell	E3. Promoting Inquiry Based Learning (EC-5) Brandon Rutherford
Knowledge	A4. Using FIRST Robotics to get students interested in STEM (EC-12) Dan Green	B4. Using Nature to Move Full STEM/STEAM Ahead in Early Learning! (EC-2) Sarah Livesay	C4. STEM Out with Biomimicry (6-12) Sarah Livesay	D4. Mathematics and Sculpture: The Nathan Manilow Sculpture Park at Governors State University (6-12) Dr. Dianna Galante	E4. Windmill for Environmental Study (6-12) Rebecca Wattleworth
Technology	A5. Immediate Student Feedback Without Those Expensive Clickers (K-12) Bob Abrams	B5. Standards-Based Assessment: Grades That Show What Students Know (6-12) Patti Tylka	C5. Writing-to-Learn: Informal Activities that Increase Student Engagement, Understanding, and Communication (6-12) Patti Tylka	D5. Engaging Students with Science Concepts at the Intersection of Literacy, Literature, and Technology (EC-2) Lisa Ferguson and Karla Moller	E5. STEM Careers: Research Park Panel (K-12) Laura Weisskopf Bleill
Leadership	A6. Harry Potter, Imagineering, and Scintillating Simulations Preserve the Fun in Science (5-8) Dr. Alan McCormack (This session will be held in the Chancellor Ballroom.)	B6. Of Dwarf Planets, Eclipses, and Light (K-12) Dave Leake	C6. IC STEM! Ignite Curiosity with STEM! (3-12) Kris Linde and Jill Krynski	D6. Pollinator A-Bee-Cs (K-3) May Berenbaum	E6. Problem-Based Art (3-12) Laura Hetrick