

2017 ISTS Elements of STEM Conference Schedule

Time/Session	Conference A (106)	Conference B (107)	Conference C (108)	Conference D (109)	Conference E (112)	Conference F (113)	Conference G (114)	Conference H (115)	Classroom 208	Classroom 209	Classroom 214	Classroom 215
Opening Session (8:00 – 8:30)	Opening Session											
AM Exhibitor Time	AM Exhibitor Time		AM Exhibitor Time	AM Exhibitor Time	AM Exhibitor Time	AM Exhibitor Time	AM Exhibitor Time	AM Exhibitor Time	AM Exhibitor Time	AM Exhibitor Time	AM Exhibitor Time	AM Exhibitor Time
Breakout #1 (9:00 – 9:45)	Science Expo Connie Courbat & Anne Turner (E) Vonna Watson (E) Yen Verhoeven (E) Mark McDermott & Lillie Durow (E) Mason Kuhn, Dana Atwood-Blaine,	Janis Hall & Randy Olson Earth Science Standards & You (E/MS/HS – St)	Mary Trent STEM Resources – Online & Regional (E/MS/HS – RI, DE)	Peggy Christensen & Kay Neumann Help Your Students SOAR with Real Iowa Data (MS/HS – St, RI, Ar)	Cindy Hall & Will Fett Plant Phenomena (E/MS/HS – St, Ci, CC, RI, 3D)	Maureen Griffin Whole Class Inquiry: Creating Student-centered Classroom Communities (MS/HS – As, CC, RI, EI)	Kris Kilibarda “Phenomenal” Teaching & Learning with Iowa’s New Science Standards (E/MS/HS – St, 3D)	Ernie Schiller Rebuild Nepal Education (E/MS/HS – CI, CC, RI, Pa)	Hannah Haarhues-Casey & Kelly Carr Notebooking in the Science Classroom (E/MS – Ci, CC, DE, Ar)	Denise Krefting & Deborah Cleveland Supporting STEM Students with Personalized Learning (MS/HS – St, CI, RI, EI)	Reagan Boeset & Chelsea Slaba Best Practices in STEM Education: Learn from 2015-17 I.O.W.A. STEM Teacher Recipients (E/MS/HS – Ld, CC, Pa, 3D)	Jesse Wilcox & Dan Chibnall Astronomy that Makes Sense: Helping Students Hear and Feel the Outcomes (E/MS/HS – M, St, Ci)
Breakout #2 (10:00 – 10:45)	Angela Hewitt, Beth VanMeeteren (E) Brenda Kaufmann (E) Eve Halligan & Craig Johnson (MS) Nicole Vick (MS) Cathryn Carney & Melanie Hoffmeyer (HS) Craig Walter (MS/HS) Jody Stone (E) Amy Johannsen & Eric Hillman (E/MS/HS) Tiffany Morgan (MS/HS)		Jeff Weld In Iowa, STEM Starts with Science Teachers: Opportunities to Engage (E/MS/HS – CC, RI, Pa)	Marcy Seavey Exploring Authentic 3D Printing Classroom Ideas (MS/HS – As, RI, DE)	Nadine Weirather Using Research Projects to Meet the Iowa Core Science Standards (NGSS) (MS/HS – St, Ci, RI, Ar)		Gayle Ramaecker & Liz Carpenter Penguins in 3D (E – M, Ci, RI, 3D)	Jenny Boldt & Dawn Posekany Exposing Students to Real World Issues through Literacy (HS – St, RI)	Sara Nelson & Nicole Hanson Supporting Student Investigations through Integrated STEM and Literacy Events (E – Ci)		Alicia Schiller-Haynes & JameySue Smith Incorporating NASA Resources into the STEM Classroom (E/MS/HS – Pa)	Rebekah Domayer & Erna Mahmutovic Field of Streams: A Day in the Life of a SHL Limnologist (MS – CC, RI, Ar)
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Breakout #3 (11:15 – 11:45)			Matthew Hennes & Walker Adams Get Organized: Using Atom Models to Assess Understanding of the Periodic Table (HS - M, St, As)	Bennett Brown & Maurine Neiman Computer Science in Middle School Science (MS – M, Ld)	Jordan Menning How to Integrate Real-world Connections for Student Learning (E/MS/HS – RI, Pa)	Michael Clough Connecting Science and Engineering Practices: A Cautionary Perspective (E/MS/HS – St, DE)	Beth Hochstedler, Erica Larson & Rick Bonar State Hygienic Lab Student Mentorship Program (MS/HS – Ci, RI, Pa)	Nanette Fladung Bullet Journals for Teachers (E/MS/HS – As, Ld, Ei)	Hallie Edgerly, Jaclyn Easter, Sarah Hunt & Rylee Smith Boat Races: Motion, Forces & Engineering Design (MS – St, CC, DE)	Kristina Tank & Michael Dupont What Makes an Effective Elementary Engineering Design Lesson? (E – DE)	Andrea Malek & Ted Neal Using Iowa Data to Implement Standards: A Flexible Curriculum (MS – St, Ci, Ar)	Jason Lang & Meghan Lang Iowa STEM Externships (E/MS/HS – RI, Pa)
Lunch (11:45 – 12:30)	Lunch & Awards Ceremony											
Keynote (12:30 – 1:30)	Keynote – Chad Dorsey “Unlocking the Elements of STEM with Technology”											
PM Exhibitor Time	PM Exhibitor Time		PM Exhibitor Time	PM Exhibitor Time	PM Exhibitor Time	PM Exhibitor Time	PM Exhibitor Time	PM Exhibitor Time	PM Exhibitor Time	PM Exhibitor Time	PM Exhibitor Time	PM Exhibitor Time
Breakout #4 (2:00 – 2:45)	Jacob Pleasants Productive Missteps During Inquiry Science (MS/HS – St, Ci, Ar)	Darin Christenson Reproduction – Breeding Critters – More Traits (MS – M, St, As, CI, CC, RI, 3D)	Erin Hollister & Jaclyn Easter Where Have the Birds Gone? Engineering Solutions to Authentic Problems in Elementary Science Classrooms (E – RI, DE, 3D)	Will Fett & Cindy Hall What’s the Big Deal? Nitrates and Water Quality (MS/HS – St, SI, RI, Ar, 3D)	Yen Verhoeven & Sarah Bappe Puzzling Out the Nature of Science from K-12 (E/MS/HS – St, Ci, CC)	Melinda Higgins An Innovative Approach to STEM Engagement: Driving Equity in Access for All (E/MS/HS – Ei, CC)	Craig Walter & Nick Peters Trouble at Grainly Farms: A 3-dimensional Unit of Instruction (MS/HS – RI, Ar, 3D)	Nicole Vick Next Generation Science Standards: Conceptual Shifts (E/MS/HS – M, St, RI)	Amy Johannsen & Eric Hillman Making Learning 3-dimensional (E/MS/HS – M, CI, 3D)	Dana Atwood-Blaine & Audrey Rule ARIS: Augmented Reality and Interactive Storytelling (MS/HS – As, Ci, CC, 3D)	Kara Hageman Put Me in, Coach! (MS/HS – St, As)	Muhammad Spocter & Kacia Cain Neuroanatomy in an Afternoon (HS – RI, DE, 3D, Pa)
Breakout #5 (3:00 – 3:45)	David Doherty Atomsmith® Classroom Online: Interactive, Dynamic and Physically Accurate Models & Activities with Atoms and Molecules (HS – M, St)	Jolie Pelds Technology Tools Driving Deep Thinking (E/MS – RI, 3D, St)	Jesse Wilcox & Alaina Lake Teaching Nature of Science in Elementary & Middle Grades: Strategies & Resources (E – Ci, RI, 3D)	Colin Reichert Promoting Model Based Reasoning in the Physical Sciences (E/MS/HS – M, As, CI, Ar)	Susanna Ziemer & Ted Neal Iowa Students Engaging in Real Science in their Community: Contextualizing Iowa’s Science Standards through Local Inquiry (E/MS/HS – St, RI, Ar, 3D, Pa)	Dawn Posekany & Miranda Kral Connecting Students with the Community through the Literature of Science (HS – Pa)	Mark McDermott & Katie Weiss Using the ASSIST Approach to Implement the Iowa Science Standards (E/MS/HS – St, Ar, 3D)	Kristine Bullock & Naomi DeWinter Iowa STEM BEST – A Model to Incorporate Businesses to Meet Elementary NGSS Standards (E/MS/HS – St, RI, Pa)				