

# 2019 ICTM Fall Conference

## Program Overview

Updated August 15, 2019

Sunday September 29, 2019						
11:00 AM Registration Begins						
12:00 PM ICTM NEST Awardees Meeting (Grand Ballroom 4 & 5)						
12:30 PM ICTM 101: What You Need to Know to Have a GREAT 1st Conference Diane Rodriguez (Grand Ballroom 4 & 5)						
Room	1:00-1:45	2:00 – 3:00 Equity and Access: Examining Teachers' Conceptions to Effectively Position Students, Christa Jackson. Plenary Session –	3:00 – 3:30 Vendor Walk and Snacks	3:30-4:15	4:30-5:15	5:30-6:15
Salon B	Motivating Similar Triangles using Indirect Measurement Mark Creager (HS)			Factoring Disability into Your Mathematics Classroom Barbara Johnson (HS)	Building Connections and Breaking Down Rules in the Precalculus Classroom Jenny Cox (HS)	Proofiness: Using Justifications and Other Not-Quite-Proofs for Student Understanding and Insight in Calculus Greg Macklem (HS)
Salon C	Reasoning & Proof: Enhancing Student Critical Thinking and Sense-Making in All Mathematics Classes Robin Conti (MS/HS)			A Psychic Octopus?: Using Simulation to Develop Statistical Reasoning about Inference Rick Hudson (MS/HS)	Introduction to Desmos: Free Beautiful Math Ella Hereth (MS/HS)	Spreadsheets as a Tool For Learning and Doing Mathematics Dale Nowlin (MS/HS)
Salon D	Cooperate, Investigate, and Process with Geofix Shapes Don Balka (MS/HS)			Red Rover, Red Rover, Send Coding Right Over Janice Mitchener Deb Nutt (MS/HS)	Navigating Data's Exploding Frontier Patrick Eggleton (MS/HS)	Statistics in Action: Statistics Features on the Desmos Graphing Calculator Pam Lindemer (MS/HS)
Salon E	Transforming Math Lessons into STEM Lessons Emily Bruning Jennifer Jensen (ELEM)			Forget Fact Frenzy Remember Fact Fluency Jeanine Crockett Lynn Rule (ELEM)	Shift Happens: Ideas for Empowering Young Mathematicians in Your Classroom Gina Yoder Enrique Galindo Jinqing Liu Pavneet Kaur Bharaj (ELEM)	Teacher Leadership: Creating a Culture for Collaborative Mathematics Sara Hunter Kali Wheeler Laurie Davies (ELEM)
Salon 1	Math for Chocolate Lovers (Or not) Deborah Mink (ALL)			Using Belief Statements to Guide Professional Development Brian Dinwiddie Jennifer Wheat Courtney Flessner Ryan Flessner (ALL)	Heartbeat of Number Sense Math Fact Fluency Virginia Luce Virginia Smith (ELEM)	How the Effective Mathematics Teaching Practices Turned Me Into a "Math Person" Courtney Flessner (ELEM)
Salon 2	Emphasizing the Process Standards in Calculus Andrew J. Hoffman (HS)			Making Your Students as Smart as Their Phones While Fixing Their Bugs Alan Zollman (ALL)	Flipgrid in the Math Classroom Holly Summers (ALL)	Small Tasks Make a Big Impact Liz Thomas Dana Hartzell (ELEM/MS)

**Sunday September 29, 2019 (Continued)**

<b>Room</b>	<b>1:00-1:45</b>			<b>3:30-4:15</b>	<b>4:30-5:15</b>	<b>5:30-6:15</b>
Salon 6	<u>Celebrate Your Journey: Thriving in the Teaching Profession</u> Jean Lee Olivia Birdsall Carla Milliman Jas'Minque Potter Scott Staley (ALL)			<u>Coaching Your Students to Win a Statistics Prize at the Hoosier Engineering and Science Fair</u> David Fluharty Edward J. Brizendine (ALL)	<u>80's Math Flashback</u> Clay Roan (ALL)	<u>Twitter as a Math Teacher Professional Development Tool</u> Kevin Self Ella Hereth (ALL)
Salon 7	<u>Leveraging Robotics to Teach Mathematics</u> Marian Prince (MS/HS)			<u>Transforming Thinking Through Number Talks: From Thinking Quantitatively to Thinking Algebraically</u> Lori Burch Desiree Ippolito Erik Tillema Olivia Watson (MS/HS)	<u>Poison: A Winning Strategy to Support Algebraic Thinking</u> Lori Burch (MS)	<u>Math and Creativity Are Not Mutually Exclusive</u> Olivia Birsall (ALL)
Salon 8				<u>Transitioning to College: Lessons Learned From our Summer Math Refresher After Five Years</u> Jodi Frost Alison Breiding Patti Dreher (HAMTE/Teacher Ed)	<u>Conceptualizing Teachers' Professional Content Knowledge by Analyzing a Video Lesson</u> Bima Sapkota (HAMTE/Teacher Ed)	<u>HAMTE Business Meeting</u> Hoosier Association of Mathematics Teacher Educators

**Monday September 30, 2019**

Room	8:00-8:45	10:15-11:00	11:15-12:00	1:45 – 2:30	2:45-3:30
Grand Ballroom 4 & 5	<u>From Degrading to De-Grading: Basic Questions About Assessment</u> Alfie Kohn (ALL)	<u>Catalyzing Change in High School Mathematics: Addressing Wicked Problems of Tracking, Acceleration, and Curricular Change</u> Michael Steele (HS)			
Salon B	<u>Using the TI-84 Graphing Calculator to the Utmost</u> Deb Nutt Janice Mitchener (HS)	<u>When Modeling Gets Messy</u> Tricia Chmill (MS/HS)	<u>Teacher Change Is Hard: One Teacher's Implementation of Problem Solving to Teach a Quadratics Unit</u> Ricki McKee (HS)	<u>Transforming your Teaching: Analytical Algebra II</u> Jennifer Jensen (HS)	<u>Practical Methods for Holding Students Accountable for their Conceptual Learning</u> Christy Swartzentruber (MS/HS)
Salon C	<u>Archimedes' Box</u> Don Balka (MS/HS)	<u>Building Our Love for Geometry</u> Yi-Yin Ko (Winnie) Dalton E. Edgecomb Nathan K. Kooi (MS/HS)	<u>Expanding Spatial Reasoning</u> Brooke Max (MS/HS)	<u>Stop, Collaborate, &amp; Reflect: How to Impact Self-Confidence &amp; Content Retention</u> Jessica Markle Alison Breiding (MS/HS)	<u>Breaking the Mold: Transforming the Middle School Math Classroom</u> Mallorie Dill (MS)
Salon D	<u>Effectively Selecting and Sequencing Student Work: Examples from Spatial Reasoning</u> Erik Tillema Jinqing Liu Andrew Gatza Josh Miller (MS/HS)	<u>Are you Moody?</u> Michelle Grooms (MS/HS)	<u>Starting the Transformation From Procedural to Conceptual Fluency</u> Caitlin Zahn Robin Conti (MS/HS)	<u>Factoring - A Short Story at its Roots</u> John Drozd (MS/HS)	<u>Less Is More: Transforming your Teaching Practices to Fuel Curiosity and Invite Discussion</u> Jane Taylor (MS/HS)
Salon E	<u>Developing Fact Fluency from Understanding and Strategic Thinking</u> James Burnett (ELEM)	<u>Connected Learning through Visual Pathways</u> Kara Benson Lindsay McGuire (ELEM)	<u>Transforming Learning by Making the Most of What We Know!</u> James Burnett (ELEM)	<u>Every Operation Tells A Story</u> Lynn Rule (ELEM)	<u>There you Grow!</u> Sarah McClanahan (MS)
Salon 1	<u>Pro-active v. Reactive Mathematics Teaching</u> Ryan Flessner (ELEM)	<u>A Unit for Quadrilaterals Designed to Ensure Effective Instruction</u> Pavneet Kaur Bharaj Dionne Cross Francis (ELEM/MS)	<u>Activities for Deepening Elementary Students' Number Sense</u> Courtney Flessner Ryan Flessner (ELEM)	<u>Using Virtual Manipulatives to Develop Area Formulas for Regular Polygons</u> Andrew Lehman (ELEM)	

9:00 – 10:00 In a Context and For a Purpose: Constructing a Progressive Math Classroom, Alfie Kohn. Plenary Session – Grand Ballroom 4 & 5.

12:00 – 1:30 Taking Action in Mathematics Teacher Education: Effective Teaching and Effective Teacher Learning, Michael Steele. Business Meeting, Plenary Session, and Lunch – Grand Ballroom 4 & 5.

**Monday September 30, 2019 (Continued)**

<b>Room</b>	<b>8:00-8:45</b>		<b>10:15-11:00</b>	<b>11:15-12:00</b>		<b>1:45 – 2:30</b>	<b>2:45-3:30</b>
Salon 2	<u>I have the students' data. Now what?</u> Beth Pierce Dan Helms (ELEM/MS)		<u>pHun With Logs: An Interdisciplinary Approach to Making Connections with Exponents and Logarithms</u> Eric Kaschinske Kyle Jane (HS)	<u>Desmos Activities for Beginners</u> Jennifer Fitch (MS/HS)		<u>"Wordy" Word Problems and How to Help Struggling Students</u> Skyler Gilman (ELEM/MS)	
Salon 6	<u>You Can Do That? Close Reading in Math</u> Alyssa Roberts (ELEM/MS)		<u>Don't Ditch That Tech: Differentiating Math &amp; Science Instruction to Upgrade Student Learning</u> Nate Ridgway Matt Miller Angelia Ridgway (ALL)	<u>Learning Goals = Student Success and Assessment Capable Learners</u> Laurie Ferry (ALL)		<u>The Quantile Framework for Mathematics=Equity in Math</u> Jane Scott (ALL)	<u>Revisiting Liping Ma's Comparison of Math Education between America and China</u> Laurel Drake (ALL)
Salon 7	<u>Creating a Culture of "I CAN" in the Secondary Math Classroom</u> Heidi Downs (MS/HS)		<u>3D Printing in the Math Classroom: Bringing Mathematical Modeling to Life</u> Ella Hereth Kevin Self (MS/HS)	<u>Defining Math Terms Using Problem-Centered Learning</u> Desiree Ippolito (MS)		<u>Addressing Issues of Gender Normativity in Mathematics Curricula</u> Weverton Ataide Pinheiro (MS/HS)	<u>One Cut, Multiple Concepts: A Joyful Approach to Learning Geometry</u> Yi-Yin Ko (Winnie) Jordyn M. Davis Connor Goodwin (MS/HS)
Salon 8	<u>Fostering Identity Development in Preservice Mathematics Teachers</u> Rob Matyska (HAMTE/Teacher Ed)		<u>Teacher Influences on Student's Mindset and Goal Setting in Repeat Courses</u> Alison Breiding Jessica Markle (HAMTE/Teacher Ed)	<u>Examining Shifts in Teachers' Perceptions and Practices: Building Professional Development on Teachers' Needs</u> Enrique Galindo Gina Yoder Pavneet Bharaj Jinqing Liu (HAMTE/Teacher Ed)		<u>Using the Essential Teaching Practices to Transform Pre-service Teachers in Field Experiences and Student Teaching</u> Betsy Berry (HAMTE/Teacher Ed)	<u>Lesson Launch Rehearsals: A Core Practice for Secondary Preservice Mathematics Teacher Preparation</u> Rob Matyska (HAMTE/Teacher Ed)