

PCTM ANNUAL CONFERENCE - WEDNESDAY, JULY 20

	Ballroom A (Gettysburg / Lancaster)	Ballroom B (Carlisle)	Ballroom C (Lebanon / York)
4:00	4:00 to 5:30 Pre-Conference - Dinner and Learn Roundtable Discussion "NCTM Presidents: Past, Present and Future" Diane Briars, Robert Berry, Trena Wilkerson, Kevin Dykema		
4:15			
4:30			
5:00			
5:15			
5:30			
5:45			
6:00			
6:15			
6:30	Ending at 6:30		

PCTM ANNUAL CONFERENCE - THURSDAY, JULY 21

	Ballroom A (Gettysburg / Lancaster)	Ballroom B (Carlisle)	Ballroom C (Lebanon / York)	Breakout Room 1	Breakout Room 2	Breakout Room 3	Breakout Room 4	Breakout Room 5	Breakout Room 6	Breakout Room 7	Breakout Room 8				
8:00	8:00 to 9:00 IGNITE and PCTM AWARDS														
8:15															
8:30															
8:45															
9:00															
9:15				1	2	3	4	5	6	7	8				
9:30				Instructional Routines to Give Grade-Level Access to All Students Dan Kaufman All Grades	Materials Matter: How to Advocate for Quality Curriculum Jonathan Regino All Grades	Unlocking the Mystery of Data Literacy Kristina Fulton All Grades	Manipulatives, Real and Virtual: Effectively Teaching the 4-6 Standards Kevin Dykema Grades 4-6	Spot It - Use Patterns to Attain +/- Fact Fluency Patricia Peffley Grades K-3	5 Digital Tools to Help You Say Goodbye to Grading Sarah Asma Grades 7-9	Exploring the Coordinate Plane with Ozobots Judy Trusz Grades 4-6	Developing Productive Persistence in the Math Classroom Abby Neumeier - Agile Minds Grades 7-9				
10:00				10:00 to 11:00 Keynote: Dr. Kari Kokka											
10:15															
10:30															
10:45															
11:00	11:00 to 11:15 -- PLEASE VISIT OUR VENDORS														
11:15	11:15 - 12:15 -- LUNCH and SHARE														
11:30															
11:45															
12:00															
12:15	12:15 to 12:30 -- PLEASE VISIT OUR VENDORS														
12:30	9	10	11	12	13	14	15	16	17	18	19				
12:45	Let's Debate Math: Increasing Discourse & Argumentation Chris Luzniak All Grades	Leveraging Modeling with Mathematics through Worthwhile Tasks Dr. Reuben S. Asemppapa Grades 4-6	Multiplication for Every Age Shelby Strong and Justin Aion Grades K-12	Mathematics: Magic, Wonder and Mystery Jay Schiffman All Grades	Doing Mathematics with our Hands: Examining Preservice Teachers Conceptual Understanding of Multiplication Seonmi Do and John Elia Grades K-3	Real World Algebra Michael Tori Grades 10-12	Increasing Literacy Skills In the Math Classroom Frank Schorn Grades 7-9	Creative Activities, Strategies, and Technology to Better Prepare Your Students for the SAT and ACT Tom Reardon Grades 10-12	Paper Manipulatives: Why You Should Still Use Them In the Digital Age Jason Turka Grades 7-9	Fun Functions: Interesting Function Activities that Highlight the Mathematical Practices Astrida Lizins - CPM Grades 10-12	TI Tips for Keystone Algebra I Success Dana Morse - TI Grades 7-9				
1:15															
1:30	20	21	22	23	24	25	26	27	28	29	30				
1:45	ENCOURAGING INVESTIGATION AND CONVERSATION WITH THE DESMOS CALCULATOR Bob Lochel Grades 10-12	Successfully Developing Fluency Kevin Dykema Grades K-3	Is a Tuna Melt Actually a Pizza? Fostering Debates and Justifications in the Math Classroom Shelby Strong and Justin Aion Grades 7-9	Building Math Talk in Your Elementary Classroom: "Link" Students' Ideas and "Press" for More Dr. Melissa Boston Grades K-6	Visualizing Ten-Frames to Learn Strategies and Master Addition & Subtraction to 20 Mary Leer Grades K-3	Proportions: So many solutions, so little time Deana Deichert Grades 7-9	Student Learning of Fractions in Dynamic Interactive Environments Xiangquan Yao Grades 4-6	Writing in Mathematics Dr. Megan Clementi - Pennsylvania Department of Education Grades 6-9		Learn the Root Cause of Math Anxiety and How to Eradicate it in Your Students! Bob Sun - First in Math and Math 24 All Grades	Break the Forgetting Cycle with Get More Math! Josh Britton - Get More Math! Grades 7-9				
2:15															
2:30	3:30 to 4:30 Keynote: Crystal Watson			31	32	33	34	35	36	37	38				
2:45				Rethinking Grading in the Math Classroom Alex Herr All Grades	Routines We Can Continue To Utilize From Our Virtual Experience Jay Schiffman All Grades	Engaging Students in Mathematical Discourse & Problem Solving Chris McCaffrey Grades 7-9	Elevating Student Voices & What If Thinking with Desmos Leigh Nataro Grades 10-12	GeoGebra for Student-centered Discovery-based Learning Robert Pontecorvo All Grades	Number Talks to Develop Fluency and Number Sense Dan Kaufman Grades K-3	Power-up your math lessons so ALL students can access grade level material Damon Smerchek - Amplify Education All Grades					
3:00															
3:15															
3:30															
3:45	Ending at 4:30														
4:00															
4:15															
4:30															
	Math Trivia Night -- Federal Tap House														

PCTM ANNUAL CONFERENCE - FRIDAY, JULY 22

	Ballroom A (Gettysburg / Lancaster)	Ballroom B (Carlisle)	Ballroom C (Lebanon / York)	Breakout Room 1	Breakout Room 2	Breakout Room 3	Breakout Room 4	Breakout Room 5	Breakout Room 6	Breakout Room 7	Breakout Room 8									
8:00	8:00 to 9:00 Debate Math									39	40									
8:15																				
8:30																				
8:45																				
9:00																				
9:15										41	42									
9:30																				
9:55																				
10:00																				
10:15																				
10:30	10:00 to 11:00 Keynote: Sara Vanderwerf																			
10:45																				
11:00										11:00 to 11:15 -- PLEASE VISIT OUR VENDORS										
11:15										11:15 - 12:15 -- LUNCH and SHARE										
11:30																				
11:45	12:15 to 12:30 -- PLEASE VISIT OUR VENDORS																			
12:00																				
12:15																				
12:30																				
12:45																				
1:00	12:30 to 1:30 Keynote: Bobson Wong									49	50									
1:15																				
1:30																				
1:45																				
2:00																				
2:15										49	50									
2:30																				
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3:00																				
3:15																				
3:30	Ending at 3:30																			