SESSIONS: Friday, March 15

DON'T MISS: Keynote Address 8:00 a.m.

F = ICTCM Fellow

Pearson

	9:30-10:00 a.m.	10:15-10:45 a.m.	11:00-11:30 a.m.	12:30-1:00 p.m.	1:15-1:45 p.m.	2:00-2:30 p.m.	3:00-3:30 p.m.	3:45-4:15 p.m.
KIERLAND 1A	▲ Math Education/ Teacher Prep	● Beyond Calculus		■ Real World Applications	⬢ Calculus	◆ Pedagogy, Assessment & Research		⬢ Calculus
	Modeling in the Curriculum from 5th Grade Through Calculus Patrice Tiffany & Rosemary Farley *Manhattan College* ★	**The Importance of Modeling in Calculus and Differential Equations Courses** Rosemary Farley & Patrice Tiffany *Manhattan College* ★		**Z(app) the Tedium: Apps and Applications for Liberal Arts Students** Thomas Pirnot *Kutztown University*	**A Simpson Surprise** Eric Schulz *Walla Walla Community College*	**Assessment for Online Statistics with or without Proctoring** Rodica Cazacu & George Cazacu *Georgia College*	**Problem-Based Learning to Enhance Students' Achievement** Lazara Ferrer & Marta Brito-Villani *Miami Dade College*	**Exploring Calculus with Mathematica** Somaya Muiny *Georgia State University*
KIERLAND 1B		● Beyond Calculus						
		College Algebra Early Intervention: Success for Some - Failure for Others Phoebe Rouse, Debra Kopcso & Stephanie Kurtz *Louisiana State University* ★	**Using Geometer's Sketchpad to Solve Challenging Problems** Mary Jane Sterling *Bradley University*	**Geometry Explorations - Discovery At Your Fingertips with Classpad.net** Karen Greenhaus *Drexel University*	**Answering Questions with Educreations Outside the Classroom** Pamela Webster *Texas A&M Commerce*	**Linear Programming: Using Original Software To Enhance Teaching** Timor Sever *Houston Community College*	**Using Excel with Internet Data in an Introduction Quantitative Methods Business Course** Cathleen Zucco-Teveloff *Rider University*	**Flex Your Learning with Mastery Based Algebra** Alison Bonner *Pennsylvania State University*
KIERLAND 1C			⬢ Calculus		● Beyond Calculus	⬢ Calculus	● Beyond Calculus	
			Fostering Classroom Interaction in Calculus Using Student Response Technology Przemyslaw Bogacki *Old Dominion University* ★	**Using Technology to Increase Student Engagement in Online Calculus Courses** Laurie Woodman *University of Southern Maine*	**Discrete Math Resources for Continuous Learning** Andrew Beiderman *Community College of Baltimore County*	**Keeping in Summer Shape (KiSS) in Calculus** Carla VanDeSande *Arizona State University*	**Presenting a Comprehensive Library of GeoGebra Applets for Linear Algebra** James Factor *Alverno College*	**Number Theory + Python = a Perfect Partnering** Irina Shablinsky *Purchase College, SUNY*
KIERLAND 4A	✦ Corequisite			✦ Corequisite				
	Flipping the Corequisite Statistics Course *Corequisite* Michael Sullivan *Joliet Junior College*	**Strategies to Improve Success for Online Math Students** *Corequisite* Fitzroy Farquharson *Valenica College*		**Corequisite Implementation – Bootcamps or Semester Courses?** *Corequisite* Anne Fischer *Tulsa Community College* Jamie Blair *Orange Coast College*	**CALL for a Coreq** *Corequisite* Kimberly Walters *Mississippi State University*	**Accelerated Math Sequences: Methodology and Techniques for Coreqs & Math Jams** *Corequisite* Jennifer Crawford *Normandale Community College* Jamie Blair *Orange Coast College* Anne Fischer *Tulsa Community College*	**Incorporating Mindsets into Corequisite Support Courses** *Corequisite* George Woodbury *College of the Sequoias*	**A Corequisite Pilot – First Semester Results** *Corequisite* Salvador Vera *Northern Arizona University*
KIERLAND 4B	▲ Statistics					▲ Statistics		▲ Statistics
	Perfect Examples in Statistics Marty Triola *Dutchess Community College*	**Random Number Generators, Simulations, and the Central Limit Theorem** Paul Bouthellier *University of Pittsburgh, Titusville*	**Apps in Intro Stat: Where, When and Why** Bernhard Klingenberg *Williams College*	**Using Technology to Foster Students' Conceptual Understanding of Correlation** Melanie Autin *Western Kentucky University* Laura Taylor *Elon University*		**A Final Project Design: Three Phases for Success** Carrie Grant *Flagler College*		**Teaching Data Visualization with Power BI** Maureen Petkewich *University of South Carolina, Darla Moore School of Business*
KIERLAND 4C	✦ MyLab Math					✦ MyLab Math		
	Why Would I Ever Want to Use the Custom Question Builder? Gwen Terwilliger *University of Toledo*	**Jazz Up Your e-Statistics Poster Board with StatCrunch** Lourdes Espana & Maria Alvarez *Miami Dade College*	**Personalizing MyLab Math to Improve Students' Success** Rachid Ait Maalem Lahcen & Ram Mohapatra *University of Central Florida*	**The Publishing World Is NOT Flat** Nathan Ritchey *Kent State University*		**Results of Digital Courseware Project Using Learning Catalytics and Technology** Eric Samansky & Jason Gershman *Nova Southeastern University*	**Coordinator Courses in MyLab Math** William Tschume *Mississippi State University*	**Using Machine Learning to Get More Out of MyLab Math Data** Aaron Smith *Seminole County Public School*
TRAILBLAZER E	◆ Pedagogy, Assessment & Research							
	Document Camera Fun! Thomas Carson *Franklin Classical School*	**Diving Deeper: Does "Success" Mean All Are Succeeding?** Brian Beaudrie & Barbara Boschmans *Northern Arizona University*	**Trying the Trends: Flipped, Hybrid, Online, Video, Clickers, and More** Brian Rickard *University of Arkansas*	**How Technology Can Help Develop Student Writing Skills** Jeffrey Clark *Elon University*	**Learning Assistants in Blended Classrooms - Peer Learning On-site and Online** Margaret Moore *University of Southern Maine*	**The Role of Technology in Inverted Versus Traditional Instruction** Reza Abbasian & John Sieben *Texas Lutheran University*	**The Future Is High Tech - but Success May Be Low Tech** Amy Bell *Central Carolina Technical College*	**Cultivating Technologically Guided Culturally Relevant Mathematics** Bathi Kasturiarachi *Kent State University, Stark*

Before Calculus · Beyond Calculus · Calculus · Corequisite · Fellow · Math Education / Teacher Prep · MyLab Math · Pedagogy, Assessment & Research · Real World Applications · Statistics

SESSIONS: Saturday, March 16

DON'T MISS: Keynote Panel 8:00 a.m.

(F) = ICTCM Fellow

Pearson

	9:00-9:30 a.m.	9:45-10:15 a.m.	10:30-11:00 a.m.	11:15-11:45 a.m.	12:45-1:15 p.m.	1:30-2:00 p.m.	2:15-2:45 p.m.	3:00-3:30 p.m.	3:45-4:15 p.m.
TRAILBLAZER C		**✦ Corequisite** **FEATURED SESSION: A Corequisite College Algebra Course** Michael Sullivan, *Joliet Junior College*, Jessica Bernards, *Portland Community College* and Wendy Fresh, *Portland Community College*							
KIERLAND 1A	**⬟ Before Calculus**								
	Is It Magic? No, It's Mathematics Terry Krieger *Rochester Community and Technical College*	**Spreadsheets for Quantitative Reasoning: An Excel-lent Way to Engage Your Students with Mathematics** Eric Gaze *Bowdoin College*	**Quantitative Literacy for the Masses!** Rachael Lund *Michigan State University*	**Sequences, Discrete Functions, and Series Using Technology in College Algebra** Lisa Yocco *East Georgia State College*	**Assessing the Impact of the Emporium Model on Student Performance** Kathy Cousins-Cooper, Dominic Clemence, Nicholas Luke, Seongtae Kim & Katrina Nelson *North Carolina A&T State University*	**Trials and Triumphs at the MALL (Math Active Learning Lab)** Michele Iiams, Tim Prescott & Gwennie Byron *University of North Dakota*	**Inject Some Life into Your Classroom with Technology and Humor** Kory Swart *Kirkwood Community College*	**Animation and Simulation for Mathematics Courses** *Before Calculus* Richard Herbst *Montgomery County Community College*	**An Alternative Method for Solving Rational Inequalities** *Before Calculus* Timor Sever *Houston Community College*
KIERLAND 1B	**⬢ Calculus**	**● Beyond Calculus**	**⬢ Calculus**		**● Beyond Calculus**	**⬢ Calculus**	**● Beyond Calculus**	**⬢ Calculus**	
	A Continuing Look into Calculus Placement Robert Banik *Mississippi State University*	**Designing a 3D Video Game with P5.js** Paul Bouthellier *University of Pittsburgh, Titusville*	**Graphing Polar Curves Using Excel** Nadeem Aslam *Florida International University*	**Creating Interactive Documents for Mathematics Education** Daniel Skoog *Maplesoft*	**A Catapult Course in OpenScad for 3D printing** Knarik Tunyan *Purchase College, SUNY*	**Defeating Ambiguity: Modeling Problems with Calculus** Andrew Plucker & William Corson *United States Military Academy*	**Evolution of Solitons via Excel** Jay Villanueva *Florida Memorial University*	**Is Bread the Most Efficient Shape?** Dwight Horan *Wentworth Institute of Technology*	**Multivariable Calculus Visualizations in GeoGebra and Virtual Reality** Piotr Runge *Utah State University*
KIERLAND 1C	**▬ Math Education / Teacher Prep**								
	Service Learning in a Mathematics Education Course Nikita Patterson & Kimberly Bennekin *Georgia State University, Perimeter College*	**GAISE-based Statistics for the Elementary Teacher - Comparison of Students' Learning in Online and Face-to-Face Classes** Cynthia Stenger *University of North Alabama*		**Math and Reading Goes Hand-in-Hand** Shannon Solis & Tonia Garrett *San Jacinto College*	**Game Technology for the Active Learning Classroom** Frank Ives, *University of La Verne*	**Enhancing the Geometry Classroom with GeoGebra Projects** Violeta Vasilevska *Utah Valley University*	**Improving Preservice Teachers' Noticing Expertise Through Technology-Integrated Mathematics Content Courses** Mi Yeon Lee *Arizona State University*	**Fostering Imagination and Creativity with GeoGebra in Mathematics Teacher Education** Dr. Joseph Furner *Florida Atlantic University*	
KIERLAND 4A	**◆ Pedagogy, Assessment & Research**								
	The Pros and Cons of the Flipped Model Classroom Using IBL Caroline Caswell *Rhode Island College* Gail St. Jacques *Johnson & Wales University*	**Cognitive Ease and STEM Courses ... Are we Helping Too Much?** Jill Whealon *University of Maryland, University College*	**Striving for Gains: Implementing Growth Mindset in a Calculus Classroom** William Corson & Andrew Plucker *United States Military Academy*	**Supporting Students Online Through Web Conferencing** Christina Holdiness *University of California, Riverside*	**Using PowerPoint to Create Videos for Teaching Mathematics** Thomas Klein *Marshall University*	**Making Calculus Videos and Incorporating Them into Calculus Courses** Debra Carney *Colorado School of Mines*	**Designing an Effective Mathematics Placement Test** Jacob Dasinger *University of South Alabama*	**Socrative App for Active Student Responses** Vicki Ingalls *Tiffin University*	**Integrating Parallel Notes Delivery and Study Sets** Rachid Ait Maalem Lahcen & Ram Mohapatra *University of Central Florida*
KIERLAND 4B	**■ Real World Applications**							**■ Real World Applications**	
	Using Real World Data Means Math Solves Real World Problems Jason Gregersen *Michigan Technological University*							**Understanding Differences Between American and Mediterranean Diets** Azar Raiszadeh *Chattanooga State Community College*	
KIERLAND 4C	**▲ Statistics**					**▲ Statistics**			
	A Graphical Interface for R and Python; Data Desk and Data Science Paul Velleman *Cornell University*	**Goodbye Chalkboard! Hello Mobility!** Iva Ballard *Mississippi State University*	**Simulations via StatCrunch Applets** George Bratton *University of Central Arkansas*	**Simulation Tools for Introductory Statistics** Barbara Bennie *University of Wisconsin, La Crosse* Erick Hofacker *University of Wisconsin, River Falls*		**Activities for Introductory Statistics** Carla Hill *Marist College*	**Is There Room for Data Science in an Introductory Statistics Class?** Robert Gould *University of California, Los Angeles*		
TRAILBLAZER E		**◆ Pedagogy, Assessment & Research**		**⬢ Calculus**		**⬟ Before Calculus**			
	The Mathematics of the Movie Gifted Marv Bittinger *Indiana University - Purdue University Indianapolis*	**Effective Use of Technology in Teaching Collegiate Math Courses** Kuppalapalle Vajravelu *University of Central Florida*	**An Interactive, Activity-based, Technology-driven College Algebra Classroom – Will You Survive?** Ralph Bertelle *Columbia-Greene Community College* Ernie Danforth *Corning Community College* Roy Cameron, *SUNY Cobleskill* Trish Shuart, *Polk State College*	**GeoGebra Tools for Visualizing Integration (with Mapping Diagrams)** Martin Flashman *Humboldt State University*	**Using CalcPlot3D to Create Dynamic Figures for OER Textbooks and to 3D Print Surfaces for Multivariable Calculus and Beyond** Paul Seeburger *Monroe Community College*	**Quantitative Reasoning Explorations** Sarah Mabrouk *Framingham State University* ★	**Using Technology in GroupActivities in Co-Requisite College Algebra Courses** Barbara Johnson *Indiana University* Judith Beecher *Purdue University Indianapolis*		

⬟ Before Calculus ● Beyond Calculus ⬢ Calculus ✦ Corequisite ★ Fellow ▬ Math Education / Teacher Prep ✦ MyLab Math ◆ Pedagogy, Assessment & Research ■ Real World Applications ▲ Statistics

Pearson

PRE-CONFERENCE WORKSHOPS: Thursday, March 14

MyLab Math and MyLab Statistics Workshops*

	8:00-9:45 a.m.	10:00-11:45 a.m.	1:00-2:45 p.m.	3:00-4:45 p.m.
MERRIAM	**Teaching Successful Online Math Courses** Calandra Davis *Pearson*	**Creating a Course: Results by Design** Calandra Davis *Pearson*	**Teaching Corequisite Courses with MyLab Math & MyLab Statistics** Stephanie Walker *Pearson*	**Creating a Course: Results by Design** Stephanie Walker *Pearson*
LOWELL	**Using MyLab Statistics and StatCrunch** Diane Hollister *Pearson*	**Using Learning Catalytics** Diane Hollister *Pearson*	**Custom Question Builder - The Basics** Diane Hollister *Pearson*	**Best Practices for Managing Assignments** Diane Hollister *Pearson*

*Participants of the MyLab Math™ and MyLab Statistics™ pre-conference, hands-on workshops can earn Continuing Education Units.
*Thursday workshops and pre-conference sessions require additional fees. Registered participants will receive breakfast and lunch as part of the registration fee.

MINI-COURSES Friday, March 15

DON'T MISS: Breakfast & Keynote Address 8:00 a.m.

	10:00-11:30 a.m.	12:30-2:00 p.m.	2:15-3:45 p.m.
MERRIAM	**Before Calculus** **Graphing with GeoGebra** David Ray *University of Tennessee, Martin*	**Real World Applications** **Assessment: From a Silent Killer of Learning to an Active Driver of Deeper Learning** Kristin Arney, Kayla Blyman, Lisa Bromberg, Scott Lynch, Scott Warnke & Frank Wattenberg *United States Military Academy* ★	**Drones, Climate Science, Hot Cars, Personal and Public Health Policy and Math** Bryan Adams, Diana Thomas & Frank Wattenberg *United States Military Academy*
LOWELL	**Before Calculus** **Modeling with Spreadsheets** Eric Gaze *Bowdoin College*	**Real World Applications** **Welcome to Mathematica®** Jason Gregersen *Michigan Technological University*	**Calculus** **Enhance Your Mathematics Classroom Using Active Learning and Technology** Angie Hodge, *Northern Arizona University* Cindy York, *Northern Illinois University*
TRAILBLAZER A		**Calculus** **Maple for the Classroom: Tips, Tricks, and Techniques** Douglas Meade *University of South Carolina* Phillip Yasskin *Texas A&M University* ★	**Teaching Math Online** **Camtasia: Beginnings** Sarah Mabrouk *Framingham State University* ★

MINI-COURSES Saturday, March 16

DON'T MISS: Breakfast & Keynote Address 8:00 a.m.

	9:00-10:30 a.m.	10:45 a.m.-12:15 p.m.	12:45-2:15 p.m.	2:30-4:00 p.m.
MERRIAM	**Calculus** **Visualizing Multivariable Calculus & Differential Equations Using CalcPlot3D** Paul Seeburger *Monroe Community College*	**Corequisite** **Designing an Effective Corequisite Program, Including Algebra and Statistics Activities** Jay Lehmann *College of San Mateo*		
LOWELL	**Beyond Calculus** **Using a Comprehensive Library of GeoGebra Applets for Linear Algebra** James Factor, *Alverno College* Susan Pustejovsky *Alverno College*	**Teaching Math Online** **Camtasia: Video Editing** Sarah Mabrouk *Framingham State University* ★	**Pedagogy, Assessment & Research** **Mobile Apps for Encouraging Student Interaction in Math Classes** Revathi Narasimhan *Kean University*	**Math Education/ Teacher Prep** **Using Desmos to Encourage Mathematical Discourse and Reasoning** Erick Hofacker *University of Wisconsin, River Falls*
TRAILBLAZER A		**Math Education/Teacher Prep** **Proofs without Words Demonstrated in Active Videos** John Diamantopoulos *Northeastern State University* ★	**GeoGebra Tools for Creating Mapping Diagrams: From Worksheets to Books** Martin Flashman *Humboldt State University*	**Statistics** **Teaching an Online Statistics Course Using MyLab Math** *Statistics* Sam Zhang *Union County College*
TRAILBLAZER B	**Teaching Successful Online Math Courses** Calandra Davis *Pearson*	**Creating a Course: Results by Design** Calandra Davis *Pearson*	**Personalizing the Student Learning Experience** Stephanie Walker *Pearson*	**Teaching Corequisite Courses with MyLab Math & MyLab Statistics** Stephanie Walker, *Pearson*
MAPMAKER B	**Custom Question Builder – The Basics** Diane Hollister, *Pearson*	**Using Learning Catalytics** Diane Hollister *Pearson*		

Before Calculus · Beyond Calculus · Calculus · Corequisite · Fellow · Math Education / Teacher Prep · Pedagogy, Assessment & Research · Real World Applications · Statistics · Teaching Math Online