SESSIONS: Friday, March 15

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

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	⬟ Calculus	■ Real World Applications	⬟ Calculus	◆ Pedagogy, Assessment & Research		⬟ Calculus
	Modeling in the Curriculum from 5th Grade Through Differential Equations Patrice Tiffany & Rosemary Farley *Manhattan College* ★	**The Importance of Modeling in Calculus and Differential Equations Courses** Rosemary Farley & Patrice Tiffany *Manhattan College* ★	**Making Calculus Relevant** Sharon Sledge *San Jacinto 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	⬟ Before Calculus							
	A Classroom Model for Increasing Learning and Success in Liberal Arts Math Scott Demsky *Broward College*	**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	
	The Design and Evolution of theKeeping in School Shape (KiSS) Program Carla VanDeSande & Kayla Lock *Arizona State University*	**Flipping Calculus - An Integrated Approach** Darin Kapanjie *Temple University*	**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 & Kayla Lock *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 Michael Sullivan *Joliet Junior College*	**Strategies to Improve Success for Online Math Students** Fitzroy Farquharson *Valenica College*		**Corequisite Implementation – Bootcamps or Semester Courses?** Anne Fischer *Tulsa Community College* Jamie Blair *Orange Coast College*	**CALL for a Coreq** Kimberly Walters *Mississippi State University*	**Accelerated Math Sequences: Methodology and Techniques for Coreqs & Math Jams** Jennifer Crawford *Normandale Community College* Jamie Blair *Orange Coast College* Anne Fischer *Tulsa Community College*	**Incorporating Mindsets into Corequisite Support Courses** George Woodbury *College of the Sequoias*	**A Corequisite Pilot – First Semester Results** Salvador Vera *Northern Arizona University*
KIERLAND 4B	▲ Statistics				◆ Pedagogy, Assessment & Research	▲ Statistics	✦ MyLab Math & 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 New Approach to the Flipped Classroom** Wendy Fresh & Jessica Bernards *Portland Community College*	**A Final Project Design: Three Phases for Success** Carrie Grant *Flagler College*	**Leveraging "Just in Time" Tutoring Support to Increase Student Success and Retention in Your Course** Kindra Merrill *Smarthinking*	**Teaching Data Visualization with Power BI** Maureen Petkewich *University of South Carolina, Darla Moore School of Business*
KIERLAND 4C	✦ MyLab Math & Statistics			■ Real World Applications	✦ MyLab Math & Statistics			
	Why Would I Ever Want to Use the Custom Question Builder? Diane Hollister *Pearson*	**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*	**Using Parking Lot Data Collection to Study Climate Science and Hot Cars in Introductory Math and Stats** Bryan Adams *United States Military Academy, West Point*	**ADA and Your MyLab Math & Statistics Course** Diane Hollister & Greta Swanson *Pearson*	**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*	
TRAILBLAZER E		◆ Pedagogy, Assessment & Research						
		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 & Statistics ◆ Pedagogy, Assessment & Research ■ Real World Applications ▲ Statistics

SESSIONS: Saturday, March 16

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

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 & 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*		**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** Richard Herbst *Montgomery County Community College*	**An Alternative Method for Solving Rational Inequalities** Timor Sever *Houston Community College*
KIERLAND 1B	**⬟ Calculus**	**● Beyond Calculus**	**⬟ Calculus**		**● Beyond Calculus**	**◆ Pedagogy, Assessment & Research**	**● 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*	**Assessing Modeling Meaningfully in a Freshman-Level Mathematical Modeling Course through Discovery Learning Assessments** David Del Cuadro-Zimmerman *United States Military Academy, West Point*	**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**			**▬ Math Education / Teacher Prep**					
	Service Learning in a Mathematics Education Course Nikita Patterson *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 Go 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*	**Achieve a 97% Success Rate in Math: Teach Students to Show Up, Work Hard, and Stay Positive!** Callie J. Daniels *St. Charles Community College*	**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*	**Changing Assessment from Silent Killers of Learning to Vibrant Learning Experiences with Examples** Kristin Arney & Frank Wattenberg *United States Military Academy, West Point* ★	**Engaging Students by Using Math and Stats to Inform Controversial Public Policy Decisions with Examples** Kristin Arney & Frank Wattenberg *United States Military Academy, West Point* ★	**Opioid Addition: Modeling the Opioid Epidemic in the United States** Kayla Blyman *United States Military Academy, West Point*	**Turtle Power: Longitudinal Modeling Project in the Undergraduate Classroom** Scott Lynch & Kayla Blyman *United States Military Academy, West Point*		**Modeling with Student Centered Data in a Calculus Classroom** Scott Warnke & Kristin Arney *United States Military Academy, West Point*	**Understanding Differences Between American and Mediterranean Diets** Azar Raiszadeh *Chattanooga State Community College*	
KIERLAND 4C		**▲ Statistics**			**■ Real World Applications**	**▲ Statistics**			
		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*	**Using Parking Lot Data Collection to Study Climate Science and Hot Cars in Introductory Math and Stats** Bryan Adams *United States Military Academy, West Point*	**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	**⬟ Before Calculus**	**◆ Pedagogy, Assessment & Research**		**⬟ Calculus**		**⬟ Before Calculus**	**✦ Corequisite**		
	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 Developmental Algebra Classroom - Will You Survive?** Ralph Bertelle *Columbia-Greene Community College* Ernie Danforth *Corning Community College* 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*		

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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	✦ MyLab Math & Statistics			
	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	✦ MyLab Math & Statistics			
	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*
MAPMAKERS	**The Teaching and Learning of "M" in STEM using Robotics Activities** Frank Wattenberg , *United States Military Academy* | Harry Cheng, *University of California, Davis* Daniel Ryan, *University of California, Davis* | Sharon Sledge, *San Jacinto College* 8:30 a.m.-3:30 p.m. ★			

*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	■ Real World Applications	
	Graphing with GeoGebra David Ray *University of Tennessee, Martin*	**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	■ Real World Applications	⬢ Calculus
	Modeling with Spreadsheets Eric Gaze *Bowdoin College*	**Welcome to Mathematica®** Jason Gregersen *Michigan Technological University*	**Enhance Your Mathematics Classroom Using Active Learning and Technology** Angie Hodge, *Northern Arizona University* Cindy York, *Northern Illinois University*
TRAILBLAZER A	▲ Statistics	⬢ Calculus	𝙸 Teaching Math Online
	Rguroo: Toward an Ideal Statistical Software for Teaching Introductory Statistics and Beyond Mortaza (Mori) Jamshidian *California State University, Fullerton*	**Maple for the Classroom: Tips,Tricks, and Techniques** Douglas Meade *University of South Carolina* Phillip Yasskin *Texas A&M University* ★	**Camtasia: Beginnings** Sarah Mabrouk *Framingham State University* ★
TRAILBLAZER B	✦ Corequisite		
	Corequisite Support MyLab Math Modules: Flexible Material to Build Your Support Courses The Corequisite Support Faculty Team led by George Woodbury *College of the Sequoias* 10:00-11:00 a.m.	**Teaching Corequisite Courses with MyLab Math & MyLab Statistics** Stephanie Walker *Pearson*	**Online Learning Programs and Developmental Math Students – Making a Marriage that Works** Elayn Martin-Gay *University of New Orleans* 2:15-3:15 p.m.

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	✦ Corequisite		
	Visualizing Multivariable Calculus & Differential Equations Using CalcPlot3D Paul Seeburger *Monroe Community College*	**Designing an Effective Corequisite Program, Including Algebra and Statistics Activities** Jay Lehmann *College of San Mateo*		
LOWELL	⬢ Beyond Calculus	𝙸 Teaching Math Online	◆ Pedagogy, Assessment & Research	▬ Math Education/ Teacher Prep
	Using a Comprehensive Library of GeoGebra Applets for Linear Algebra James Factor, *Alverno College* Susan Pustejovsky *Alverno College*	**Camtasia: Video Editing** Sarah Mabrouk *Framingham State University* ★	**Mobile Apps for Encouraging Student Interaction in Math Classes** Revathi Narasimhan *Kean University*	**Using Desmos to Encourage Mathematical Discourse and Reasoning** Erick Hofacker *University of Wisconsin, River Falls*
TRAILBLAZER A		▬ Math Education/Teacher Prep		▲ Statistics
		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*	**Teaching an Online Statistics Course Using MyLab Math** *Statistics* Sam Zhang *Union County College*
TRAILBLAZER B	✦ MyLab Math & Statistics			
	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*
MAPMAKERS	✦ MyLab Math & Statistics			
	Custom Question Builder – The Basics Diane Hollister, *Pearson*	**Using Learning Catalytics** Diane Hollister *Pearson*		

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