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Pre-Conference Session | Thursday, March 15

	8:00 a.m.-4:30 p.m.
MONUMENT	**Teaching Mathematics in 3D** (F) Douglas Meade *University of South Carolina* Lila F. Roberts *Clayton State University*

Professional Development Workshop Thursday, March 15

	11:15 a.m.-12:45 p.m.
TREASURY	**Factoring Coreq Support into Pathway Courses for Higher Retention** Sara Tyler *Hawkes Learning*

MyLab Math Workshops | Thursday, March 15

	8:00-11:30 a.m.	1:00-4:30 p.m.
CAPITOL	**Results by Design** Calandra Davis *Pearson*	**Learning Catalytics** Diane Hollister *Pearson*
CONGRESS	**Adaptive Learning** Stephanie Walker *Pearson*	**Adaptive Learning** Stephanie Walker *Pearson*
MINT	**Custom Question Builder** Gwen Terwilliger *Emeritus University of Toledo*	**Custom Question Builder** Gwen Terwilliger *Emeritus University of Toledo*
TREASURY	**MyLab Stats & StatCrunch** Diane Hollister *Pearson*	**Teaching Online** Calandra Davis *Pearson*

MINI-COURSES Friday, March 16

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

	9:30-11:00 a.m.	11:15 a.m.-12:45 p.m.	1:00-2:30 p.m.	3:30-5:00 p.m.
CAPITOL	**An Introduction to GeoGebra and Dynamic Worksheets** David Ray, *University of Tennessee at Martin*	**Camtasia®: Creating SCORM Content Packages** (F) Sarah Mabrouk *Framingham State University*	**Desmos and Geogebra: Teaching Calculus Conceptually** Michael McConnell and Marcella McConnell *Clarion University*	**Linear Algebra Activities: Simplest to Most Difficult Concepts Using GeoGebra** James Factor and Susan Pustejovsky *Alverno College*
CONGRESS	**Creating Interactive Learning Experiences for Any Course Format** Michael Sullivan *Joliet Junior College* George Woodbury *College of Sequoias*	**Welcome to Mathematica®** Jason Gregersen *Michigan Technological University*	**Show Me the Data - Getting Started with StatCrunch™** Sharleen McCarroll *American River College*	**Desmos: A Free Online Graphing Tool for Developing Classroom Activities** Katie Pridemore *Valencia College*
MINT	**iPad® Notability Mini-Course** Jay Sharritt, Matthew Mogensen, and Michael Seminelli *United States Military Academy*	**Assessment: From a Silent Killer of Learning to an Active Booster of Better Learning** (F) Kristin Arney, Kayla Blyman, Lisa Bromberg, David Delcuadro-Zimmerman, David Harness, Scott Warnke, Frank Wattenberg (Fellow), and Sarah Wolberg *United States Military Academy*	**Versatile Solutions to Develop Online Videos** Julia Ledet and Michaela Stone *Louisiana State University* Reena Kothari *Normandale Community College*	**Get Down and Dirty with Doceri...and Amaze Your Students with Your Responses!** John Diamantopoulos *Northeastern State University*

MINI-COURSES Saturday, March 17

DON'T MISS: Keynote Panel 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.
CAPITOL	**3D Printing in Calculus with Mathematica®** Jason Gregersen *Michigan Technological University*	**Spreadsheets for Quantitative Reasoning: An Excel-lent Way to Engage Your Students with Mathematics** Eric Gaze *Bowdoin College*	**Camtasia®: An Introduction** (F) Sarah Mabrouk *Framingham State University*	**Visualizing Multivariable Calculus & Differential Equations Using CalcPlot3D™** Paul Seeburger *Monroe Community College*
CONGRESS	**Lights, Camera, Action! Recording and Editing Videos in Camtasia® 9** Rose Jenkins *Midlands Technical College*	**Using EDpuzzle to Flip a Class** Debra Pharo *Northwestern Michigan College*	**Creating Mathematics Tutorial Videos Using an iPad Pro and Explain Everything** Cathy Frey *Norwich University*	**Teaching with Interactive Figures** Eric Schulz *Walla Walla Community College*
MINT	**Introduction to Visualizing Mathematics: GeoGebra and Desmos** Mike May *Saint Louis University*	**Math With an Assist: Coding in Grades 2-12** Jerome Caldwell *University of Wisconsin, River Falls*	**All-Time Mathematically Rich Geometry Through Precalculus Activities, Individualized with Solutions** (F) Tom Reardon *Youngstown State University*	**The Use of Maple™ Software in a Calculus Course** Matthew Westerhoff *Northern Virginia Community College*
TREASURY	**Jazz Up Your Presentation with Learning Catalytics™** Lourdes España, Victoria Livinski, and Erika Zjevik *Miami Dade College*	**Show Your Work: Explicating Students' Thinking Using Online Assessment Tools** Caree Pinder and Ruthmae Sears *University of South Florida*	**Update Your Online STATus** Maureen Petkewich *University of South Carolina*	
MONUMENT	**Teaching Successful Online Math Courses** Calandra Davis *Pearson*	**Adaptive Learning: Making it Personal** Stephanie Walker *Pearson*	**Results by Design** Calandra Davis *Pearson*	**Using MyLab Stats and StatCrunch** Diane Hollister *Pearson*

MINI-COURSES Sunday, March 18

	8:00-9:30 a.m.	9:45 a.m.-11:15 a.m.
MONUMENT	**Custom Question Builder – The Basics** Diane Hollister *Pearson*	**Adaptive Learning: Making it Personal** Diane Hollister *Pearson*

SESSIONS: Friday, March 16

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

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	10:30-11:00 a.m.	11:15-11:45 a.m.	12:00-12:30 p.m.	12:45-1:15 p.m.	1:30-2:00 p.m.	3:00-3:30 p.m.	3:45-4:15 p.m.	4:30-5:00 p.m.
ARCHIVES	**Growth Mindset or GRIT, this Movement is Showing Promise in Mathematics Education** *Before Calculus* Elayn Martin-Gay *University of New Orleans*	**Applying New Research to Increase Success in Math** *Before Calculus* Gary Rockswold *Minnesota State Univeristy, Mankato* Terry Krieger *Rochester Technical and Community College*	**Extending Pathways: Using Pathways to Bridge to College Mathematics** *Before Calculus* Kathleen Almy and Heather Foes *Rock Valley College*	**Geometric Conjectures in Dynamic Geometry Environments** *Before Calculus* Arsalan Wares *Valdosta State University*	**Corequisite as a 3-hour Course** *Before Calculus* Anne Fischer *Tulsa Community College*		**PreTeXt: Write Once, Read Anywhere** (F) *Teaching Math Online* Bruce Yoshiwara (Fellow) *Los Angeles Pierce College*	**A Co-Requisite Pilot – Year Two. How's It Going?** *Pedagogy* Randy Gallaher & Kevin Bodden *Lewis & Clark Community College*
MONUMENT	**"Learning Catalytics™: An Effective Technology Tool to Promote Student Engagement and Interaction** *MyLab Math* Adam Chekour *University of Cincinnati - Blue Ash*	**Flipping (any) Mathematics Class Using Instructor Created Questions in MyLab™ Math** *MyLab Math* Terry Barron *Georgia Gwinnett College* Peggy Slavik *Baldwin Wallace University*	**Using Custom "Common Errors" MyLab Math Questions for "High Risk" Calculus Students** *MyLab Math* Robert Strozak *Old Dominion University*	**Online Tools for Assignments in Hybrid Courses: To Use or Not to Use** *MyLab Math* Rodica Cazacu *Georgia College*	**Effective Use of MyLab™ Math (MyLabsPlus) for Positive Long-term Effects** *MyLab Math* Rachid Ait Maalem Lahcen, Alina Stefanov, and Ram Mohapatra *University of Central Florida*	**What Can Direct Digital Access and MyLabsPlus™ Do for You?** *MyLab Math* Melissa Reid, Terri McKnight, and Leanne Dixon *Rowan-Cabarrus Community College*	**Teaching Finite Mathematics Online - A Course Coordinator's Perspective** *MyLab Math* Jacob Dasinger *University of South Alabama*	**Using MyLab™ Math to Reduce Test Anxiety** *MyLab Math* Betty Berbari *SUNY College at Old Westbury*
SALON A	**Investing the Pedagogy of R Versus Minitab® in Teaching Statistics** *Statistics* Reza Abbasian and John Sieben *Texas Lutheran University*	**Statistics: What's Hot and What's Not?** *Statistics* Marty Triola *Dutchess Community College*	**Engaging Statistics Projects Using StatCrunch™ and Excel** *Statistics* Wendy Pogoda *Hillsborough Community College*	**Using Technology to Foster Students' Conceptual Understanding of Confidence Intervals** *Statistics* Melanie Autin *Western Kentucky University*	**Using Simulation to Enhance Statistical Concepts** *Statistics* Michael Sullivan III *Joliet Junior College*	**Statistics and the Media** *Statistics* Maureen Petkewich and Gail Ward-Besser *University of South Carolina*	**Introductory Statistics in the Cloud via Web Apps** *Statistics* Bernhard Klingenberg *Williams College*	
SALON B	**Motivating College Algebra Students Using Internet Data** *Before Calculus* Cathleen Zucco-Teveloff *Rider University*	**"Show Me" - An Interactive Email Response** *MathEd/TeacherPrep* Becky Moening *Ivy Tech Community College*	**Remember: Who, What, Where, When, How, If...** (F) *Pedagogy* David R. Hill *Temple University*	**Mastery-based, Modular Learning for Developmental Mathematics: A Fingerprint on Learning** *Before Calculus* Lee Ann Roberts, Alvina Atkinson, and Sarah Park *Georgia Gwinnett College*	**Common Cents - Using Low Cost Materials in Your Classroom** *Before Calculus* Glenn Newman *Embry Riddle Aeronautical University*	**Bootcamps & Corequisites: Moving Students Through Their Math Sequence Faster** *Before Calculus* Jamie Blair *Orange Coast College* Anne Fischer *Tulsa Community College*	**Flipping the Hybrid College Algebra Classroom using MyLab™ Math** *Before Calculus* Violeta Vasilevska *Utah Valley University*	**The Mathematics Behind Bitcoin** *Before Calculus* Alicia Collins *Mesa Community College*
SALON C	**Spreadsheets for Quantitative Reasoning: An Excel-lent Way to Engage Your Students with Mathematics** *Quantitative Reasoning* Eric Gaze *Bowdoin College*	**Mathematics in Action: Projects for Engaging Quantitative Reasoning Students** *Quantitative Reasoning* Alvina Atkinson, LeeAnn Roberts, and Sarah Park *Georgia Gwinnett College*	**Ensuring Transfer of Quantitative Reasoning and Gen Ed Math Courses** *Quantitative Reasoning* Connie Richardson *Charles A. Dana Center*	**What About the "M" in STEM?** (F) *STEM* Sharon Sledge *San Jacinto College*	**Do You Kahoot!™?** *STEM* Carla Hill *Marist College*	**Pathways to Understanding: Dynamic Mathematics Technology as Driver** (F) *STEM* Wade Ellis (Fellow) *West Valley College* Thomas Dick *Oregon State University* William Bauldry *Appalachian State University*	**Prepare Tomorrow's Students Today by Creatively Integrating Pedagogy, STEM, and Globalization** (F) *STEM* Tom Reardon *Youngstown State University*	**Visualizing Mathematics with Graphs & Computations without The Learning Curve** *Before Calculus* Ana Gowribalan Vamadeva *University of Cincinnati – Blue Ash College*
SALON G	**Creating User-friendly Problems** *Calculus* Mary Jane Sterling *Bradley University*	**Mathematical Modeling: Creating a Video Game** *Beyond Calculus* Paul Bouthellier *University of Pittsburgh-Titusville*	**Using Geogebra as a Theoretical Framework for Learning Quadric Surfaces** *Calculus* Mohammad Ganjizadeh *Tarrant County College*	**Don't Be Afraid of the F-word: Flipping is Better** *Calculus* Darin Kapanjie *Temple University*	**Who Says You Can't Do Calculus in Excel?** *Calculus* Michael Seminelli and Andrew Plucker *United States Military Academy*	**Tools of Modern Mathematics: An Introduction to Experimental Mathematics** *Beyond Calculus* Debra Hydorn *University of Mary Washington*	**Using 3D Drawing and Technology to Conceptually Understand Volumes of Revolution in Calculus** *Calculus* John King *Perimeter College at Georgia State University*	**IguanaTex: LaTeX Add-in for PowerPoint™ Greatly Simplifies Creating Mathematical Slides** *Calculus* David Schweitzer *Liberty University*
SALON H	**Engaging Students by Using Learning Catalytics™** *Pedagogy* Lazara Ferrer and Marta Brito-Villani *Miami Dade College*	**Online Examination for Online Courses – Reduce Student Dishonesty** *Teaching Math Online* Oscar Macedo, Alexandra Macedo, and Gabriel Mendoza *El Paso Community College*	**Math in an Instant Feedback World 2.0** *Pedagogy* Jessica Bernards and Wendy Fresh *Portland Community College*	**Using the Emporium Model to Improve Student Performance** *Research* Kathy Cousins-Cooper and Katrina Nelson *North Carolina A&T State University*	**Multimedia Design Principles of Animations: An Example for Piecewise Functions** *Research* Alicia Serfaty de Markus *Miami Dade College*	**Online Versus Face-to-Face** *Teaching Math Online* Jing Chang *College of Saint Mary*	**Engaging Statistics Students with Clickers** *Statistics* Gabi Booth *Daytona State College*	
SALON N	**Preparing New Faculty to Serve Effectively in Your Department** *Real World Applications* John Bacon, David Harness and Michael Yankovich *United States Military Academy*	**Z(app) the Tedium: Apps and Applications for Liberal Arts Students** *Real-World Applications* Tom Pirnot *Kutztown University*	**Global Numeracy, Global Change** *Real-World Applications* Kurt Kreith *University of California at Davis*	**Using Shiny from RStudio to Teach, Motivate, and Evaluate a Classroom Created Social Network** *Real-World Applications* Bryan Adams *United States Military Academy*	**Mathematics, Science, and Reality** *Real-World Applications* Gary Rockswold *Minnesota State University, Mankato*	**Solar Energy and Trigonometry** *Real-World Applications* James Cliber *Iowa State University*	**OK, Take Out Your Cell Phones** *Real-World Applications* Lasse Savola *SUNY - Fashion Institute of Technology*	**Real-World Applications Data Science Applications for Intelligence Analysis** *Real-World Applications* Donald Koban *United States Military Academy*
SALON O	**Document Camera Fun** *Pedagogy* Thomas Carson *Franklin Classical School*	**Cell Phones on a Test? I Say Yes** *Pedagogy* Denise Nunley *Scottsdale Community College*	**A College Algebra Corequisite Pilot at the University of Idaho** *Pedagogy* Kirk Trigsted *University of Idaho*	**Have Your "Pi" and Eat It "Two": Integrating College Functions** (F) *Pedagogy* Phoebe Rouse *Louisiana State University*	**Blended Learning with OER Platforms in Undergraduate Mathematics** *Pedagogy* Minsu Kim *University of North Georgia*	**Flipping Your Classroom with MyLab™ Math and Interactive Statistics** *Pedagogy* George Woodbury *College of the Sequoias*	**Interactive Corequisites in College Algebra** *Pedagogy* Kevin Bodden and Randy Gallaher *Lewis and Clark Community College*	**Tips for Managing Discussion Forums in Online Math Courses** *Pedagogy* Kelly Weems *Georgia Military College*

SESSIONS: Saturday, March 17

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

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ARCHIVES	**The Importance of Adopting Evolving Technological Tools to Expand Content Knowledge to 3D** (F) *Calculus* Wei-Chi Yang *Radford University*	**The Turing Bombe and its Role in Breaking Enigma** *Beyond Calculus* Neil Sigmon *Radford University*	**Exploring Calculus with Mathematica** *Calculus* Somaya Muiny *Georgia State University*	**3D Printing: Making It Real** *Calculus* Nora Strasser *Friend University*	**"Where Am I Going to Use That?"** *Before Calculus* Rusandica Manole *Georgia State University* *Perimeter College*		**Using Maplesoft Maple to Create Professional Quality Images for Use in Teaching** *Pedagogy* Davorin Dujmovic *Suffolk County Community College*	**Teaching Millennium Students with Techniques** *Calculus* Dynechia Jones and Imarlena Batiste *Baton Rouge Community College*	
SALON A	**Free Online Tools for Teaching Introductory Statistics** *Statistics* Paul Velleman *Cornell University*	**Students Analyzing Real Polling Data: Enhancing Your Statistics Course** *Statistics* Jason Gershman *Nova Southeastern University*	**Statistical Investigations: You Might Already Be Teaching Data Science** *Statistics* Robert Gould *University of California Los Angeles*	**How Twitter, Pocket, and Padlet Changed My Statistics Course** *Statistics* Rebecca Wong *West Valley College*	**The Mathematics of Video Poker** *Statistics* Paul Bouthellier *University of Pittsburgh-Titusville*	**Simulations: From Playing Cards to StatCrunch™ and Beyond** (F) *Statistics* Carrie Grant *Flagler College*	**Interactive Tools for learning R and Python: Preparation for Statistics Projects** *Statistics* Marsha Davis, Garrett Dancik, and Roland DePratti *Eastern Connecticut State University*	**New Approach to Statistics by Using Learning Objective** *Statistics* Wendiann Sethi *Seton Hall University*	**Creating Shiny Apps for in Class Activities** *Statistics* Ryne VanKrevelen and Laura Taylor *Elon University*
SALON B	**Pre-statistics: Acceleration and New Hope for Non-STEM Majors** *Before Calculus* Jay Lehmann *College of San Mateo*	**The Hybrid Classroom: Best of Both Worlds** *Before Calculus* Gabi Booth and Ethan Repyneck *Daytona State College*		**Using Original Software to Enhance Teaching in Math for Business and Social Sciences** *Before Calculus* Timor Sever *Houston Community College*	**Volumetric Measurement of Tumors: Mathematical Models, Assumptions, and Errors** *Before Calculus* Scott Sinex and Ted Chambers *Prince George's Community College*	**Nontrivial Motivational Case Studies for College Introductory Courses in Mathematics** *Before Calculus* Vladimir Riabov *Rivier University*	**Using Open Educational Resources in Precalculus** *Before Calculus* Robert Strozak *Old Dominion University*		**Integrate Various Technologies to Enhance Student Learning Using Best Practices** *Before Calculus* Mickey Nakagome *Maricopa Community Colleges*
SALON C	**Using Instructor Created Videos to Teach Mathematics in Elementary School** *MathEd/TeacherPrep* Thomas Klein *Marshall University*	**Technology Usage to Promote Mathematical Thinkers** *MathEd/TeacherPrep* Marcella McConnell *Clarion University*	**Service Learning in an Online Math Course** *MathEd/TeacherPrep* Kimberly Bennekin *Perimeter College at Georgia State University*	**Using Geometer's Sketchpad® to Teach Geometric Thinking** *MathEd/TeacherPrep* Shafia Abdulrahman *Emirates College for Advanced Education* Lilla Adulyasas *Yala Rajbahat University*		**Transform Your Students' Thinking about Geometry** *MathEd/TeacherPrep* Nikita Patterson *Georgia State University*	**The Development of Technological, Pedagogical, and School Mathematics** *MathEd/TeacherPrep* Reda Abu Elwan *Sultan Qaboos University*		
SALON G	**Elliptic Integrals and Some Applications** *Beyond Calculus* Jay Villanueva *Florida Memorial University*	**3D Printing Lessons in Multivariable Calculus** *Calculus* Kristen Schreck *Saint Xavier University*	**Teaching with Interactive Figures** *Calculus* Eric Schulz *Walla Walla Community College*	**Linear Algebra: Simplest to Most Difficult Concepts using GeoGebra** *Beyond Calculus* James Factor *Alverno College*	**A Team Based Collaboration Model Using MURAL** *Calculus* John Ehrke *Abilene Christian University*	**Creating Video Tutorials for Pearson's Interactive Figures - Lessons Learned** *Calculus* Marc Renault *Shippensburg University*	**Departmental Final Exams - Experiments, Failures, and Successes** *Calculus* Mozhgan Mirani *Tennessee State University*	**Know Your Customer: Driving Course Design Through Student Data** *Calculus* Andrew Plucker and Michael Seminelli *United States Military Academy*	**Using Mathematica in the Teaching of Calculus-Based Probability** *Calculus* Jeff Clark *Elon University*
SALON H	**Software and Resource Considerations for Teaching Online and Hybrid Courses** (F) *Pedagogy* Sarah Mabrouk *Framingham State University*	**The Funny Thing About Math...Volume II** *Pedagogy* Terry Krieger *Rochester Community and Technical College*	**To Compute or Not to Compute, That is The Question** *Statistics* Keisha Brown *Perimeter College at Georgia State University*	**Statistics Activities: Utilizing the Features of StatCrunch™** *Statistics* Peggy Slavik *Baldwin Wallace University* Terry Barron *Georgia Gwinnett College*	**Undergraduate Research Seminar in Applied Mathematics – A Success Story** *Pedagogy* Kuppalapalle Vajravelu *University of Central Florida*	**Placement Testing for Calculus** *Pedagogy* Robert Banik *Mississippi State University*	**Designing Successful Corequisite Programs: Structures, Content, and Pedagogy** *Pedagogy* Markus Pomper *Roane State Community College* Connie Richardson *Charles A. Dana Center*	**Communicating Math So It Matters** *Real-World Applications* Heather Seminelli *United States Military Academy*	
SALON N	**Modeling Important Social Issues with Data: Opioid Overdose Deaths** (F) *Real-World Applications* Tom Reardon *Youngstown State University*	**World Population, Demographics, Equity, and Murder** (F) *Real-World Applications* G Donald Allen *Texas A&M University*	**Using Technology to Facilitate the Implementation of Problem Based Learning in Calculus** *Real-World Applications* Rabia Shahbaz, Jamye Curry, and Nathasha Brewly *Georgia Gwinnett College*	**Transforming Assessment from a Silent Killer of Learning to an Active Boost** (F) *Real-World Applications* Kristin Arney and Frank Wattenberg (Fellow) *United States Military Academy*	**Engaging Exams, Evaluating Evaluations: An Alternate Approach Assessed** *Real-World Applications* Kayla Blyman and David Delcuadro-Zimmerman *United States Military Academy*	**Alternative Assessments: The Good, The Bad, the Ugly, and What to Do in the Future** *Real-World Applications* David Harness and Scott Warnke *United States Military Academy*	**Power Creep and the Collapse of the Roman Republic: Using Math as an Interdisciplinary Lens to Understand History** *Real-World Applications* Jordan Slavik *University of Maryland*	**Teaching Functions by Collecting Data with Vernier Sensors** *Real-World Applications* Suzanne Sumner *University of Mary Washington* Preston Ailor *University of Mary Washington*	**How (NOT) to Make and Grade Discovery-Learning Assessments** *Real-World Applications* Kristin Arney, Lisa Bromberg and Sarah Wohlberg *United States Military Academy*
SALON O	**Improving Learning Outcomes with Math Based Courseware Technology** *Pedagogy* Andrew Rourke *Maplesoft*	**Readiness Programs: Preparing Students for College in High School** *Pedagogy* John Squires *Southern Regional Education Board*		**Using Interactive Songs to Increase Student Engagement and Learn Statistics** *Research* John Weber *Perimeter College at Georgia State University*	**Creating Accessible Online Mathematics Lessons for Blind Students** *Pedagogy* Scott Randby *The University of Akron*	**Interactive Applets with Shiny from RStudio®** *Pedagogy* Matthew Mogensen *United States Army*	**GeoGebra, Photography, and Picture Books: A Means to End Math Anxiety** *Pedagogy* Joseph Furner *Florida Atlantic University*	**CALL for an Alternative to Corequisite Models** *Pedagogy* Kim Walters *Mississippi State University*	**Using Office Mix™ for Success in Online Courses** *Pedagogy* William Tschume *Mississippi State University*