

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

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

Pre-Conference Session
Thursday, March 15

8:00 a.m.-4:30 p.m.	
MONUMENT	Teaching Mathematics in 3D Douglas Meade <i>University of South Carolina</i> Lila F. Roberts <i>Clayton State University</i>

MyLab Math Workshops
Thursday, March 15

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

MINI-COURSES Friday, March 16

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

DON'T MISS: Keynote Address 8:00 a.m.
MINI-COURSES Saturday, March 17

	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 <i>Michigan Technological University</i>	Spreadsheets for Quantitative Reasoning: An Excel-lent Way to Engage Your Students with Mathematics Eric Gaze <i>Bowdoin College</i>	Camtasia®: An Introduction Sarah Mabrouk <i>Framingham State University</i>	Visualizing Multivariable Calculus & Differential Equations Using CalcPlot3D™ Paul Seeburger <i>Monroe Community College</i>
CONGRESS	Lights, Camera, Action! Recording and Editing Videos in Camtasia® 9 Rose Jenkins <i>Midlands Technical College</i>	Using EDpuzzle to Flip a Class Debra Pharo <i>Northwestern Michigan College</i>	Creating Mathematics Tutorial Videos Using an iPad Pro and Explain Everything Cathy Frey <i>Norwich University</i>	Calculus with Interactive Figures Eric Schulz <i>Walla Walla Community College</i>
MINT	Introduction to Visualizing Mathematics: GeoGebra and Desmos Mike May <i>Saint Louis University</i>	Math With an Assist: Coding in Grades 2-12 Jerome Caldwell <i>University of Wisconsin, River Falls</i>	All-Time Mathematically Rich Geometry Through Precalculus Activities, Individualized with Solutions Tom Reardon <i>Youngstown State University</i>	The Use of Maple™ Software in a Calculus Course Matthew Westerhoff <i>Northern Virginia Community College</i>
TREASURY	Jazz Up Your Presentation with Learning Catalytics™ Lourdes España, Victoria Livinski, and Erika Zjevik <i>Miami Dade College</i>	Show Your Work: Explicating Students' Thinking Using Online Assessment Tools Caree Pinder and Ruthmae Sears <i>University of South Florida</i>	Update Your Online STATus Maureen Petkewich <i>University of South Carolina</i>	
MONUMENT	Teaching Successful Online Math Courses Calandra Davis <i>Pearson</i>	Adaptive Learning: Making it Personal Stephanie Walker <i>Pearson</i>	Results by Design Calandra Davis <i>Pearson</i>	Using MyLab Stats and StatCrunch Diane Hollister <i>Pearson</i>

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 <i>Pearson</i>	Adaptive Learning: Making it Personal Diane Hollister <i>Pearson</i>