

Friday, November 30, 2018 – Preliminary Program (Subject to Change)

- 1 First Timer's Session** 7:45 AM-8:00 AM
Charlene Atkins (catkins@ucmo.edu) General
University of Central Missouri Windsor I
If this is your first MCTM Fall Conference, you'll want to attend this session. You'll learn about MCTM and receive great tips on how to gain maximum benefits from the Conference.
- 2 Create a Digital Breakout with Google Sites, Forms, and more** 8:15 AM-9:45 AM
Sharon Moehle (smoehle@camdentonschools.org) General
Camdenton R3 Expo Center
One of the new trending topics in educational technology is the Digital Breakout EDU. Come to learn how to create a digital breakout using Google Sites, Forms, and more. Digital Breakouts bring the 4s together for a fun and engaging environment for students. Participants will engage in a variety of already created breakouts and begin the process to create a digital breakout for their content area. Participants will need a device and able to access Google Suite for Education. This session would be for an intermediate technology learner.
Additional Speaker(s): Heather DeLaurent
- 3 Math Games for All Ages** 8:15 AM-9:45 AM
Kevin Hopkins (khopkins@sbuniv.edu) General
Southwest Baptist University Parliament I
Many games require critical thinking and math ideas. Come learn about Set, KenKen, Shikaku, and binary puzzles. Hear some ideas on how games can be used to teach students the value of clear definitions, perseverance, constructing and critiquing arguments.
- 4 Power-Up Learning: Teach Like a Video Game** 8:15 AM-9:45 AM
Brian Swink (bswink@nwmissouri.edu) K-2
Northwest Missouri State University Parliament II
Game designers create ingenious games that engage students for hours. We take these same concepts and apply them to teaching. Students take control as they learn through collaborative problem-solving to achieve the next level of learning. Additional Speaker(s): Lincoln Katsion

- 5 MOCSM Making the Practices Routine** 8:15 AM-9:45 AM
Ann McCoy (mccoy@ucmo.edu) General
University of Central Missouri Parliament III
Our classrooms are full of routines-for lining up, collecting papers, taking attendance. Although routines are usually associated with organization, they may also be used for instruction. This session will illustrate routines that enhance content knowledge and mathematical practice.
Additional Speaker(s): Joann Barnett, Emily Combs
- 6 Patterns, Patterns, and More Patterns** 8:15 AM-9:45 AM
Kevin Voepel (kvoepel@fergflor.org) General
Ferguson-Florissant Polo
Discovering, extending, describing and using patterns is a core part of mathematics. We will look for opportunities to find patterns in geometric figures and extend these patterns using our knowledge of algebra. Come collaborate and engage in productive struggle.
Additional Speaker(s): Tammy Voepel
- 7 K.I.S.S. - Keep It Simple but Stimulating!** 8:15 AM-9:45 AM
Marilyn Meals (meals.m.253@gmail.com) 3-5
Fair Grove Schools Windsor I
Simple games with low preparation time, few manipulatives, but high interest and engagement. Games will be played by participants, then discussed for adaptations to different grade levels, topics, and understandings.
- 8 Yikes, They Still Can't Add, Subtract, Multiply or Divide Integers!** 8:15 AM-9:45 AM
Cheryl Krafka (cherylkrafka@cpm.org) 6-8
CPM Windsor II
Do your students struggle with simple computations? Come and experience how to use Integer Tiles to develop conceptual understanding of addition, subtraction, multiplication, and division of integers. We will also use the AREA model to multiply whole numbers, mixed numerals, and decimals.

9 G-Suite Tools to Differentiate Instruction 10:00 AM-11:30 AM
Constance Hallemeier (constancehallemeier@wsdr4.org) General
Wentzville Liberty High School Parliament I
Not all students learn at the same pace or from the same format.
Technology can help to make learning accessible to students where they are and lead them to where you need them to be. G-Suite tools like Google Forms, Google Docs and Google Slides can be combined with web tools like Quizlet, Quizalize, Quizizz, Wizer, Classkick and GoFormative to help students advance from where they are in their learning to where you want them to be. This session will allow participants to complete the activities as a student, demonstrate how to set up the activities and provide examples of activities.

10 Setting a Record for Math Engagement 10:00 AM-11:30 AM
Meredith Beggs (mbeggs@ucmo.edu) 3-5
University of Central Missouri Parliament II
How tall is the world's largest dog? Kids love world records, so why not use them to create high quality math tasks? Before you leave, you will create your own world record task to challenge your students on Monday!

11 MoCSM: Math Leader Coaching Tools: Mediating Thinking to Advance Math Learning 10:00 AM-11:30 AM
Marilyn Cannon (marilyn.cannon@raytownschools.org) General
MoCSM/Raytown/UCM Parliament III
Highlighting the Leading for Mathematical Proficiency Framework, this session will focus on tools and resources to equip leaders in shifting teacher instructional practices in researched, informed ways to advance student mathematics learning.

12 Fold Some Geometry 10:00 AM-11:30 AM
Tammy Voepel (tvoepel@siue.edu) 6-8
Southern IL University Edwardsville Polo
Participants will fold everyday items to investigate geometric concepts. Come prepared to participate. Handouts and materials will be provided.
Additional Speaker(s): Kevin Voepel

13 Fun Tech Tools for Formative Assessment 10:00 AM-11:30 AM
Heather DeLaurent (hdelaurent@camdentonschools.org) General
Camdenton R3 Windsor I
Experience a variety of fun technology tools to enhance the learning environment and increase student engagement for meaningful outcomes. Participants will need to bring a device.
Additional Speaker(s): Sharon Moehle

14 Building a Growth Mindset in Your Students Through Engaging Them in the Mathematical Practices 10:00 AM-11:30 AM
Patrick Sullivan (patricksullivan@missouristate.edu) 9-12
Missouri State University Windsor II
How do we engage our students in the mathematical practices while at the same time building a growth mindset? Participants will leave with activities and easy-to-implement strategies to get students asking questions, making conjectures, and noticing structure.
Additional Speaker(s): Gay Ragan

15 Lunch /Annual Meeting (Your nametag is your ticket!)
11:30 AM-1:15 PM
Expo Center
Buffet begins at 11:30 a.m. and ends promptly at 12:00 p.m.
Business Meeting begins at 12:00 p.m.
Keynote Speaker begins at 12:30 p.m.

Stacey Robinett – Republic Middle School

“Math: Behind the scenes of the "fun and games"...and then some.”
Some math games are clear, they are all about learning math and doing math. What about some of the most popular games of all-time...that don't even seem mathematical? There is so much math in hidden places, even where you and your students might least expect it. Let's explore some of that together and experience a few mathematical games as well. This is a time for exploration and discovery...let's see what we can find.

16 What's Working in Missouri Teacher Education - MAT^2 1:30 PM-2:30 PM
 Adam Harbaugh (aharbaugh@missouristate.edu) Higher Education
 Missouri State University Parliament I
 Teacher educators of Missouri are doing great work in their programs. We grow collectively by sharing innovative and successful practices of individuals across the state. In this session, teacher educators from around Missouri will share what's working in their programs.
 Additional Speaker(s): Jeanine Haistings

17 Make and Take Math Activities 1:30 PM-2:30 PM
 Lori Breyfogle (breyfogle@foxc6.org) 3-5
 Fox C-6 School District Parliament II
 Who has time to search for independent small group math activities? Our go-to activities can be tailor made for several skills students work on throughout the year. Leave with your own set of activities and digital templates for printable activities.
 Additional Speaker(s): Angie Schreckenburger

18 Best 30 Minutes of Your Day 1:30 PM-2:30 PM
 Kelly Sickle (kelly_sickle@isdsschools.org) K-2
 Independence School District Parliament III
 Participants will gather ideas that can be used for a daily math talk. Specific activities may include number talks, subitizing, etc. that can be used during this 10 minutes. They will learn how a daily word problem looks and sounds, and the different types of word problems. They will leave with ways to implement a running record, what to do with the data, and how to set up a 10 minute fluency station. Participants will leave the session with three effective ways to reach all students.

19 Creating a Virtual Manipulative to Remediate Fraction Comparison 1:30 PM-2:30 PM
 William McNeary (wwmcneary@semo.edu) 6-8
 Southeast Missouri State University Polo
 Understanding fraction magnitude aids understanding fraction operations. Session demonstrates use and development of a virtual manipulative (written in Scratch) that converts circle models to bar models and then number line positions. It could easily be adapted for early fraction learning.

20 The Right Question Changes Everything 1:30 PM-2:30 PM
 Cindy Bryant (cindybryant@gocsdmo.org) General
 Greater Ozarks Cooperating School Districts Windsor I
 Anyone who's ever sat in a classroom knows that teachers ask lots of questions. In this session we'll look at how the types of questions we ask can maximize students' thinking, reasoning about, and understanding of mathematics.

21 Math Facts: Memorization vs. Understanding 1:30 PM-2:30 PM
 Lee Ann Ewert (Lewert@hannibal60.com) K-2
 A.D. Stowell Elementary Windsor II
 Do you dread using worksheets and flash cards to help students memorize math facts? Attendees will learn a specific progression to support students' understanding needed to master basic addition/subtraction facts. Fun activities, games, and other resources will be provided.
 Additional Speaker(s): J'Lynne Schafer

22 Linking College and Elementary Students Through a Tutoring Experience 2:45 PM-3:45 PM
 Jamie Fugitt (fugitt@cofo.edu) 3-5
 College of the Ozarks Expo Center
 Preservice teachers, a high school teacher, and a college professor will discuss lessons learned through a math enrichment program where college students met weekly with elementary children. Participants will engage in math games and activities utilized during the tutoring sessions.
 Additional Speaker(s): Andrea Martin

23 Let Me Count the Ways! 2:45 PM-3:45 PM
 Natalie Moon (nataliemoon@ozarktigers.org) K-2, 3-5
 Ozark R-VI Parliament I
 During this workshop you will experience counting collections as well as choral counting. K-5 students need counting experiences because counting provides a foundation for understanding numbers and computational skills.

- 24 Developing Conceptual Understanding Through Visual Learning Technology** 2:45 PM-3:45 PM
 Sheunghyun Yeo (syhw6@mail.missouri.edu) 3-5
 University of Missouri-Columbia Parliament II
 Inclusion of mathematical technology in the classroom enhances student engagement, conceptual understanding, and mathematical proficiency. Participants will explore benefits and limitations of a visual learning technology (ST Math) and will investigate how to foster discourse and to build conceptual understanding.
- 25 MOCSM Mining the Gap** 2:45 PM-3:45 PM
 Myra Collins (mcollins@truman.edu) General
 Northeast RPDC Parliament III
 In this interactive session participants will look at quality tasks to diagnose what we see and what to do as our next steps to support student learning.
- 26 Teach Me How to Google in Math Class** 2:45 PM-3:45 PM
 Dee Leible (dleible@stpauljackson.com) General
 St Paul Lutheran Polo
 Empowering students to stretch their thinking and creativity while they collaborate, explore, and learn in math. Create relative interactive lessons that bring math to life for your students, spend less time grading, more time interacting with the students, and improve your lessons to meet each students needs. Educators will be able to see ways to help their students develop critical thinking skills and apply the concepts to their world around them. Educators will be able to use Google Tools to make math relevant for the students.
- 27 MATH: It's All Fun and Games, Until you write for the MAP or EOC Tests** 2:45 PM-3:45 PM
 Pamela Yarick (pyarick@humer8.k12.mo.us) 6-8
 Hume R-8 Windsor I
 This session will discuss the process of the Standardized Test generation process. It will start with the Writing of Questions and what some of the training involves for Item Writers. Next is what is involved in the Content and Bias Review step. The final step is Standard Setting. These steps are performed by Missouri teachers. Come and join to gain some of the experiences other Missouri teachers have experienced during the test development process. This will assist you with your own classroom test generation.
- 28 Strategies to Promote Student Engagement in the Mathematical Practices** 2:45 PM-3:45 PM
 Whitney Evans (whitneyevans@willardschools.net) 9-12
 Willard Community School District Windsor II
 Teachers are being challenged to promote student engagement in the mathematical practices, but there are barriers to successfully engaging students in these practices. We will illuminate a few common challenges with video clips and share strategies to overcome those challenges. Additional Speaker(s): Patrick Sullivan
- 29 Math - It IS all fun and games!** 4:00 PM-5:00 PM
 Leslie Reinke (leslie.reinke@taneyville.k12.mo.us) 6-8
 Taneyville School Expo Center
 Math IS fun! In this workshop you will get to participate in several hands-on math games and activities that are aligned with the MLS for middle school math. In addition you will receive a list of resources to help you find appropriate fun learning games for your own math classroom.
- 30 Integrating Daily Math Routines in a Primary Classroom** 4:00 PM-5:00 PM
 Judi Privitt (jprivitt@cpsk12.org) K-2
 Columbia Public Schools Parliament I
 When used strategically, daily math routines have the potential to contribute to classrooms where students are engaged in rich mathematical communication and problem-solving. This session will explore how educators use daily routines to improve mathematics learning and teaching in K-2 classrooms. Strategies used to support students' thinking in the classroom will be shared. Additional Speaker(s): Lindsey Ragsdale, Emily Vogelweid
- 31 Children's Literature Provides Meaningful Contexts to Promote Access and Equity** 4:00 PM-5:00 PM
 Stefanie Livers (stefanielivers@missouristate.edu) 3-5
 Missouri State University Parliament II
 This session highlights the rich opportunities that children's literature brings to mathematics instruction. This session identifies the necessity for equity and access in mathematics, connects literature to essential mathematics standards, and provides sample activities for meaningful mathematics for all students.

- 32 MOCSM Engage in/ Experience High Quality Tasks & Characteristics of High Quality Tasks** 4:00 PM-5:00 PM
 Chip Sharp (chip.sharp@dese.mo.gov) General
 DESE Parliament III
 This interactive session will involve participants in looking at and considering the quality of mathematical tasks and determine the level of rigor as well as how to maintain intended rigor.
- 33 Probabilistic Games for the Middle and Secondary Grades** 4:00 PM-5:00 PM
 Bill McGalliard (mcgalliard@ucmo.edu) 6-8
 University of Central Missouri Polo
 This session will introduce participants to games of chance that they can have their middle school or high school students play and how these games can be directly connected to the probabilistic and statistical concepts that underlie them.
- 34 Connecting Math Models in 6th-Algebra** 4:00 PM-5:00 PM
 Amanda Schweissguth 6-8
 (amanda.schweissguth@washington.k12.mo.us)
 School District of Washington Windsor I
 Students are exposed to new strategies and visual models in the elementary grades. Use that prior knowledge to your advantage! Come explore common models and the connection to 6th - Algebra content and leave with ideas that will empower your students.
- 35 Mathematics Teachers' Grouping Strategies: Implications for Equity** 4:00 PM-5:00 PM
 Cara Haines (carahaines@mail.missouri.edu) General
 University of Missouri Windsor II
 Participants will reflect on their strategies for equitably organizing students for small-group work. Then we'll share the results of an interview-based investigation of mathematics teachers' perspectives on equitable grouping strategies and their rationales for those strategies and discuss equity implications. Additional Speaker(s): Charles Munter
- 36 Understanding of Variables in Algebra** 5:15 PM-6:15 PM
 Zandra de Araujo (dearaujoz@missouri.edu) General
 University of Missouri Expo Center
 In this session, we will discuss the complexity of variables, the different ways they are used throughout mathematics, and common assumptions students make about variables so we can support students in developing a more robust understanding.
 Additional Speaker(s): Jaepil Han, Samuel Otten
- 37 Graph paper \$3.99, New math book \$47. More time to teach: Priceless!** 5:15 PM-6:15 PM
 Debbe Bingaman (dbdbing9@gmail.com) General
 St. Louis Community Support for Students Parliament I
 Would you like more time to teach? Educators lose 5-9 hours per week instruction time on lower level discipline issues. Participants will learn effective behavior management that will increase academics, decrease discipline challenges, and empower all educators!
- 38 Algebra Activities You Can Make Yourself** 5:15 PM-6:15 PM
 Debbie Veatch (dveatch@charter.net) Secondary
 Parkway South High School Parliament II
 Explore Algebra activities you can make to liven up your class as great alternatives to more worksheets. These fun activities also work well in other math classes. Walk away with sample activities to use with students as practice or review.
- 39 Making the Math Fun Go On and On: Modifying Favorite Games for Different Skills** 5:15 PM-6:15 PM
 Tara Jones (tjones@kingsville.k12.mo.us) 3-5
 Kingsville R-1 Parliament III
 Games are a fun, low-stress way to practice math. But so often we teach new games for new skills. I will offer quick and effortless ideas to modify games for new skills, and share some student favorite math games!

40 FAME Grant: Funds for the Advancement of Mathematics Education 5:15 PM-6:15 PM
Joann Barnett (joannbarnett@missouristate.edu) General
Missouri State University Polo
MCTM supports its membership through FAME, Funds for the Advancement of Mathematics Education, by awarding up to 8 grants each year (maximum of \$1250 per grant). This session will share application guidelines and successes of previously awarded grants.

41 Reception for the State Presidential Awardees 6:30 PM-7:30 PM
Charlene Atkins (catkins@ucmo.edu) Open to All-Reception
Windsor I & Windsor II
Everyone is invited to attend this reception to recognize and honor our MCTM Outstanding Educators and the PAEMST Nominees. Your name tag is your ticket!

Saturday, December 1, 2018

42 Breakfast and Door Prizes 7:30 AM-8:30 AM
Expo Center
Buffet begins at 7:30 a.m. and ends promptly at 8:15 a.m.
Your name tag is your ticket!

43 MCTM Series K-2 8:45 AM-12:15 PM
Alice Buckner, Myra Collins, Marsha Tischler
Parliament I
This session is designed for teachers who were enrolled in the Empowering Teachers and Students in the Mathematics Classroom summer series for grades K-2. Please see the registration desk for more information.

44 MCTM Series 3-5 8:45 AM-12:15 PM
Natalie Moon, Amanda Schweissguth, Tammy Stine
Parliament II
This session is designed for teachers who were enrolled in the Empowering Teachers and Students in the Mathematics Classroom summer series for grades 3-5. Please see the registration desk for more information.

45 MCTM Series 6-8 8:45 AM-12:15 PM
Adam Harbaugh, Stacey Robinett, Maida Russell
Parliament III
This session is designed for teachers who were enrolled in the Empowering Teachers and Students in the Mathematics Classroom summer series for grades 6-8. Please see the registration desk for more information.

46 MCTM Series 9-12 8:45 AM-12:15 PM
Bob Glasgow, Carrie Stone
Polo
This session is designed for teachers who were enrolled in the Empowering Teachers and Students in the Mathematics Classroom summer series for grades 9-12. Please see the registration desk for more information.

47 TI-Rover: A Robot that Moves by Programming Your Calculator 8:45 AM-9:45 AM
Ann Schlemper (aschlemper@ccis.edu) 9-12
Columbia College Windsor I
Participants will learn to program TI-84 to move the TI-Rover. We will move the car to draw geometric figures, like turtle math from long ago. We will also learn to start and stop the car based on color readings.

- 48 Teacher Desmos? - It is not just a graphing calculator tool but much, much more!** 8:45 AM-9:45 AM
Sandy Branstetter (sbranstetter@osceola.k12.mo.us) 9-12
Osceola Jr-Sr High School Windsor II
Desmos is not just a graphing calculator tool - come check out the Bundles (conics, exponential, expressions, functions, inequalities, linear, linear systems, modeling, quadratic, transformations) and teacher created activities. Bring your laptop or chromebook. We'll look at how to integrate with Google Classroom too. Plan to come play and interact with the activities!
- 49 Good Tasks Then What? Supporting Student Engagement During Task Implementation** 10:00 AM-11:00 AM
Amber Candela (candela@umsl.edu) General
University of Missouri-St. Louis Expo Center
Participants will learn how the rubrics of the Instructional Quality Assessment support the implementation of cognitively challenging tasks. Participants will engage in using the rubrics and discuss the rubrics support access and equity of all students in high quality mathematics..
- 50 Engagement Through Technology** 10:00 AM-11:00 AM
Alisha Schutz (alisha.schutz@harrisonvilleschools.org) General
Harrisonville School District Windsor I
Are your students bored with math? Are you looking for a way to motivate your students? Through technology we can make learning math fun again. In this presentation, you will learn to use different tools to keep your students on task and willing to learn. We will run through online programs like Nearpod, Edulastic, and GoFormative that can be used to informally or formally assess your students. We will also run through online game sites like Kahoot, Quizizz, and Quizlet to bring some competition and fun back to your classroom.
- 51 Back Away from that Butterfly! Delaying Procedures with Lessons that Develop Fraction Fluency** 10:00 AM-11:30 AM
Joann Barnett (JoannBarnett@missouristate.edu) 3-5
Missouri State University Windsor II
Research on fraction instruction says to delay procedures. As a classroom teacher, I say, "Okay, but delay procedures with what?" This workshop shares some of that "what" with an introduction to fraction notation and the development of fraction comparison strategies.
- 52 Gamify and Amplify** 11:15 AM-12:15 PM
Lisa Broadbent (lisabroadbent@ozarktigers.org) 6-8
Ozark Expo Center
Student approved tech tools that embrace gaming and amplify learning! Please bring your own electronic device.
- 53 Making Algebra 3_D Real** 11:15 AM-12:15 PM
David Ewing (ewing@ucmo.edu) 3-5
University of Central Missouri Windsor I
Participate in and develop activities helping students problem solve in making connections between algebraic equations, graphs, and the world. Activities include: "Bungee Barbie" & "Springing Forth" (Experiment-Graph-Model-Verify); "Trout Pond"(Proportions of Samples to predict Populations); and "Walking the Walk" & "Fill It Up" (Slopes/Shapes of Graphs to 3-D velocity and accelerations).