

Continuing Professional Development Credit for Teachers
Request to Offer Through Eastern Illinois University

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Affiliation/Agency/Group: ICTM / DEPT. OF MATH and COMP. SCI.

Event Requesting Approval: 63RD ANNUAL CONF. ON THE TEACHING OF MATHEMATICS

Number of Professional Development Hours Requesting (Contact Hours) 4

Brief Description of Event (Draft Brochure of Event if available): See attached draft of brochure

Outcome(s) for the Professional Development from approved ISBE list (Mark all that apply):

- increase the knowledge and skills of school and district leaders who guide continuous professional development;
- improve the learning of students;
- organize adults into learning communities whose goals are aligned with those of the school and district;
- deepen educator's content knowledge;
- provide educators with research-based instructional strategies to assist students in meeting rigorous academic standards;
- prepare educators to appropriately use various types of classroom assessments;
- use learning strategies appropriate to the intended goals;
- provide educators with the knowledge and skills to collaborate
- prepare educators to apply research to decision-making.

Type of Professional Development from approved ISBE list (Mark all that apply):

- Engage participants over a sustained period of time allowing for analysis, discovery, and application as they relate to student learning, social or emotional achievement, or well-being;
- Align to the licensee's performance (evaluation);
- Include outcomes that relate to student growth or district improvement;
- Align to State-approved standards;

Rationale-Describe how this event aligns with the approved ISBE Outcomes and Type of Professional Development identified above (add pages if needed)

See attached.

Requestor: MARSHALL LASSAK
Printed Name


Signature

1-7-15
Date

Date Approved by COTE: _____

Opening Session

Title: Latest PARCC News and Updates

Speaker: Heather Brown

Learn the latest information on the when, what and how of the PARCC assessments from the Illinois representative to the PARCC Math Operational Working Group. You will be able to see what the current news is and what is forthcoming. Time will be provided for a question and answer period.

Session 1 breakout sessions (there may be one more to add)

Title: Get Your K-5 Ducks in a Row – Aligning the K-5 Math Curriculum

Speaker: Joyce Bishop

How do the pieces of the K-5 math curriculum puzzle fit together? Learn how to determine where adjustments are needed to meet fluency requirements and prepare each student for the next grade. Locate resources that help you deepen focus, strengthen coherence, and increase rigor.

Title: Actively Embracing Alg 1 with Statistics, Will You Join Me?

Speaker: Kara Leaman

Tap into the power of technology to model some of the tough-to-grasp topics in statistics. Let's explore some ready to use activities that will help you get your students above the norm. Residuals? Standard deviation? Two-way tables? If you are feeling overwhelmed by the statistics standards, stop in and leave ready to get at it.

Title: Seven Billion People: Meaningful Measurement for the Common Core

Speaker: Jackie Murawska

The Seven Billion People Problem focuses of an exploration in problem solving with measurement, and will highlight how the Common Core Standards for Mathematical Practice can be integrated immediately into your classroom. Our discussion will include how to choose meaningful tasks that lend themselves to increasing mathematical communication between our students.

Title: Providing Opportunities for Students to Employ the CCSS Mathematical Practices in the High School Mathematics Classroom

Speaker: Jennifer Wilson

In order to communicate their understanding of mathematics effectively, students must be free to ask questions and willing to share what they are thinking. Technology often provides the means for students to begin thinking "what happens when ...". We will (a) explore tasks from geometry and algebra that provide opportunities for students to employ the CCSS Mathematical Practices, (b) look at leveled learning progressions for the Math Practices that make them accessible to all students, (c) work through the tasks to anticipate student responses and (d) examine student work to think about how to have students present their work in a whole class discussion.

Title: Math Workshop: A Differentiated Approach to K-5 Math Instruction

Speaker: Lisa Schertz

Learn how to use the math workshop as a means of differentiating and individualizing math instruction for maximum student success. Research-driven, practical strategies, tips for organizing instruction, and ideas for activities, minilessons and independent practice will be provided. Ideas for using math workshop with a mandated textbook or without will be given as well.

Session 2 breakout sessions (there may be one more to add)

Title: Refocusing the 5-8 Math Curriculum – Opportunities and Challenges

Speaker: Joyce Bishop

What common threads run through the 5-8 math curriculum? Attention to how big ideas develop across the grades can improve alignment and highlight areas for emphasis. Locate resources that help you deepen focus, strengthen coherence, and increase rigor.

Title: Actively Embracing Alg 2 with Statistics, Will You Join Me?

Speaker: Kara Leaman

Tap into the power of technology to model some of the tough-to-grasp topics in statistics. Let's explore some ready to use activities that will help you get your students above the norm. Simulation? Normal Distributions? If you are feeling overwhelmed by the statistics standards, stop in and leave ready to get at it.

Title: Choosing Tasks for Productive Struggle, not Frustration

Speaker: Jackie Murawska

Identifying cognitively demanding real-world tasks is the first step toward promoting productive struggle in mathematics. Explore how to choose worthwhile tasks for productive struggle, how to effectively implement them while keeping frustration in check, and how these experiences can shape students' mathematical dispositions.

Title: Transforming How We Make Sense of Congruence and Similarity

Speaker: Jennifer Wilson

How can we show that two figures are congruent and/or similar to each other? We will use rigid motions, dilations, and several interesting tasks to explore and deepen student understanding of the congruence and similarity of figures. Our focus will be on two Math Practices: look for and make use of structure and use appropriate tools strategically. Using dynamic geometry software we will explore, make conjectures, and deepen our understanding of the congruence and similarity of figures.

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Lunch Session

Title: TBD

Speaker: Diane Briars

Rationale

The 63rd annual conference on the teaching of mathematics will provide attendees the opportunity to engage ISBE experts and leading educators in mathematics education. All sessions focus on Common Core related content and practice standards. Many session facilitators will share classroom tested and award winning techniques, methods, and ideas for engaging students in the mathematics classroom. Additionally, nearly all sessions will include samples of student work, as well as problems that attendees can take back to their respective classrooms.

Sessions will address mathematical ideas from early elementary through secondary school.

Highlights-

- One session will share the latest information and results relating to the PARCC assessment
- Four sessions focus specifically on the integration of statistics into the core high school mathematics curriculum.
- Two sessions focus on specific ways to instruct using the mathematical practices, as well as strategies for helping student build in proficient on the practices.
- A closing session will feature the current president of NCTM who will share her insights into the teaching of mathematics in the Common Core era.