

Notes to Speakers

The Program Committee will review hundreds of proposals to build a balanced program that meets the various needs of teachers of mathematics.

The theme, **Orchestrating the Common Core Classroom**, expects that we as a conference provide for teachers some answers to the following questions:

- **What does Orchestrating the Common Core Classroom look like?**

A speaker might provide:

- Video examples showing students engage in high cognitive tasks using the math practices.
- Sample lessons that embed the Standards for Mathematical Practice with the presenter illustrating/demonstrating ways to implement.
- Exemplars showing or explaining how deep understanding of content standards is orchestrated.
- Finding coherence in the content progressions to bring CCSSM to fruition.
- Balancing conceptual understanding, problem solving and procedural knowledge.
- Engaging real world performance tasks where students apply mathematics, develop sense making, and transfer knowledge to unfamiliar tasks.

- **How does a participant adjust or enhance their teaching to orchestrate the common core classroom?**

A speaker might address:

- Shifts: from “coverage” to “understanding” from “teacher-lead instruction” to “student-lead instruction”
- Increasing teacher content knowledge to deepen student understanding and content progressions
- Hot topics of content: transformational geometry, probability and statistics, fraction on a number line, functional thinking, proportional reasoning, calculus
- Teachers collaborating effectively about student understanding
- Carefully designed lesson planning and CCSS based focused units of study
- Backward planning to design purposeful learning experiences for student understanding
- Strategies that go beyond gimmicks and mnemonics and deepen students' understanding of the Big Ideas and use them to solve problems.

- **Where do I find resources to orchestrate learning in the classroom?**

A speaker might show, demonstrate, provide or engage participants:

- Print, internet, video, and people resources.
- Technology that is an integral part of the lesson to support classroom instruction and student understanding.
- Web sites and networks for sharing resources.
- Using the current textbook as a resource.