

Please, Please, Please: Do not arrive at the Rock Eagle campus before 2 PM!

Registration will not be open, and there are no food/lodging services available.

Thank you for providing the conference volunteers time to be ready to serve you beginning at 2:00 PM.

If your travels are more efficient than expected...
take Hwy 441 north of Interstate 20 for three miles into downtown Madison.
Lots of great food and shopping available!

2:00 – 7:00 PM	Registration and Lodging	International Paper
3:00 – 5:00 PM	Pre-Conference Sessions	Wildlife Ecology
5:30 – 6:45 PM	Dinner	Dining Hall A-B
7:15 PM	Opening Session	Auditorium
8:45 PM	Trivia Night	Senior Pavilion
9:00 – 9:30 PM	Registration and Lodging	International Paper

Wildlife Ecology 1

3 – 4 PM **Building Conceptual Understanding in Mathematics** (Grades K – 5)

Rebecca Tiffin, Daniell MS

How does a teacher alter her/his instruction to start focusing on conceptual understanding? What does it look like in the classroom? This workshop aims to address these very questions by provide teachers with a student-like experience of how concepts can be developed in elementary classrooms. While the content focus will be on number sense and operations, teachers will come to recognize that they are in fact building the core foundations for later mathematical learning.

4 – 5 PM **Challenging Our Gifted Students with Rich Mathematical Problems** (Grades K – 5)

Rebecca Tiffin, Daniell MS

Some of the best mathematical problems for any student are those that can be solved in multiple ways. This is especially true for gifted students, where a deep dialogue about the various approaches can ensure strong conceptual understanding rather than just rapid procedural fluency. The participants in this session will work together as teacher and learner to scaffold questions that will deepen the mathematical content knowledge of the student. Bring your problem solving powers and get ready for some great discussion.

Wildlife Ecology 2

3 – 4 PM **Using a Calculator as a Tool for Exploring Mathematics** (Grades 2 – 5)

Tracey Zak-Johnson, CASIO

This session will be filled with hands on activities that will help students learn the relationship between different numerical representations. Teachers will walk away with several lessons that will benefit students' understanding of improper fractions, mixed numbers and decimals.

4 – 5 PM **Using a Scientific Calculator to Ease the Pain of Quadratics and Systems of Equations**
(Grades 9 – College)

Tracey Zak-Johnson, CASIO

This session will be filled with many different ways to help students' understanding of quadratics using a scientific calculator. Simplifying radicals and systems of equations will also be covered. This is a great session for anyone teaching Algebra I/II and Pre-Calculus.

This is a tentative session listing and is subject to change.

Please pick up the final conference program when you check in at Registration!

Updated 9/15/14

Wildlife Ecology 3

3 – 4 PM **Making Middle School Math Conceptual**

Jenise Sexton, Grace Snell MS

In this session we will explore implementing instructional practices and tasks that will help teachers avoid tricks and teaching rules without understanding.

4 – 5 PM **Project-Based Learning Activities for Middle School STEM Teachers**

Alesia Mickle, Georgia State University

Middle school STEM teachers share their project-based learning activities, such as *Polynomiography: A Visualization of Polynomial Equations*, used in their classrooms to enhance students' motivation and computational thinking skills. Participants will learn how to promote students' skills to solve open-ended real world problems, engage in scientific thinking by constructing and using different project-based models, and increase the scope of scientific and mathematical knowledge using hands-on exploration tools.

Wildlife Ecology 4

3 – 5 PM **SMART Board Math Workshop for Intermediate Users** (Grades 9 – College)

Allen Wolmer, Technology Based Educational Support

In this workshop, targeted at experienced but not necessarily expert SMART Board users, math teachers will learn more advanced techniques to make their Algebra, Precalculus, and Calculus lessons even more effective, while at the same time making them more EFFICIENT! Bring your laptops, loaded with any version of SMART Notebook!

Opening Session
Auditorium 7:15 PM

Decreasing the Achievement Gap with STEM

Cindy Moss, Discovery Education

This presentation will provide examples of ways teachers/schools/districts have used STEM and real world problems to engage all types of learners in rigorous science and math. Defining STEM as “Students and Teachers Energizing Minds” and incorporating real world careers and problems will be the focus. Participants will leave with strategies to use in their classrooms with all types of learners.

Immediately following the keynote address will be the GCTM business meeting.

It will conclude with door prizes.

Following the meeting, you are invited to the Senior Pavilion for refreshments and Trivia Night!