

**TO Take Charge
Make Change**



**WISCONSIN MATHEMATICS COUNCIL
42ND ANNUAL CONFERENCE**

PRELIMINARY SCHEDULE

Thursday, May 6, 2010

**Keynotes,
Sectionals & Workshops**



Preliminary Schedule • Thursday, May 6, 2010

8:00-9:30 AM • 8:00-9:00 AM

Thursday, May 6, 2010
8:00-9:30 AM • 90 Minute Workshops

101	RWI - Mahaney (40)	Grades 4-8
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Don't Slow Me Down with that Calculator

Learn to master a multitude of little-known, super-shortcut techniques and strategies involving addition, subtraction, fractions, squaring and multiplication that will leave your calculator-dependent friends in the dust.
Cliff Petrak, *Brother Rice High School, Chicago, IL*

102	Kern - Boehr (50)	Grades 4-12
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Inductive and Deductive Reasoning: Warm-Up Activities that Develop Both

We often ask students to do "warm-up activities" at the beginning of class, but do we realize that this is a great opportunity to promote two kinds of reasoning that are important to the development of mathematical knowledge? In this workshop, participants will work in teams on both deductive and inductive reasoning tasks, and experience how learners use both to develop mathematical knowledge. We will all share tasks that we give to our students and analyze them for their type of mathematical reasoning. Everyone will leave the workshop with the ability to analyze and choose warm-up tasks that promote beneficial mathematical reasoning skills.
Alan J. Hackbarth, *UW-Madison, Madison, WI*

103	Kern - Cary (32)	Grades 6-12
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More than Just Right Answers: A Math Assessment that Works

Come and explore a formative strategy for assessing any written work in your math course (including tests). Instead of assigning a number to a test based strictly on a percent of right answers correct, this assessment provides feedback to you and your students about the quality of their notation, communication, numerical and graphing skills, and comprehension. Come and see examples of some of the extraordinary work my students have produced.
Douglas Guyette, *Manitowoc Lincoln High School, Manitowoc, WI*

104	Bauer - Boddie (24)	Grades 6-12
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Chaotic Engagement Doing Game Design in Game Maker

This session is an introduction of Game Maker into a middle or high school curriculum to engage CS students in CS concepts. Flash drives provided will contain Game Maker and resources (both game and camp information). Participants will spend 1 1/2 hours building a game. Instructor has successfully implemented 6 winter/summer camps for middle and high school students with TV and newspaper coverage. (Bring a flash drive or recordable CD if you want to take home a copy of the Game Maker resources or \$10 to keep the flash drive that will be provided.)
Mark S. Hall, *UWMC, Wausau, WI*

105	Bauer - La Due (24)	Grades 6-12
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The "Real Power" of PowerPoint in the Math Classroom
 Come see and be an active part of the "real power" of PowerPoint in the math classroom. Participants will have the opportunity to develop a number of PowerPoint presentations for their secondary math class that are learner-focused, engaging, interactive, authentic and that encourage critical thinking, diversify instruction and deepen understanding of all students.

Jeff Schuetz, *Clinton High School, Clinton, WI*

106	Youth Center - Oliver DeWolf Cummings (80)	Grades 6-12 Vendor
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Using Effective Study Teams in the Mathematics Classroom Part 1

Come learn strategies that you can use in your classroom to help teams (groups) of students work together effectively and value each other. We will look at the why, when, how and what of using teams along with specific strategies.
Melissa Thomley, *CPM Educational Program, Verona, WI*

Thursday, 8:00-9:00 AM
Keynote

107	Bauer - Morehouse B/C (200)	Grades PK-4
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Meet Children's Book Author Amy Axelrod

Amy Axelrod, children's author of the *Pigs Will be Pigs* series and self-proclaimed math phobic, will describe how she created a math-based series of picture books for the elementary classroom. Tips and teaching strategies will be offered on how to incorporate the titles into the curriculum. Amy will also share anecdotes on how students have taught her how to speak the language of mathematics.
Amy Axelrod, *Author, Hurley, NY*
Wisconsin State Standards K-12 Overview

Thursday, May 6, 2010
8:00-9:00 AM • 60 Minute Sectionals

108	Bauer - Morehouse A (100)	Grades PK-12
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The Revised *Wisconsin Model Academic Standards (WMAS) for Mathematics PK-12* were introduced last year and have been in draft form posted on the DPI website. During this session participants will be provided an update on the status of the revised PK-12 WMAS for Mathematics and how they fit the vision of the Common Core State Standards Initiative.
Wisconsin Standards Design Team Members

Check out www.wismath.org for updates & complete conference information.

Preliminary Schedule • Thursday, May 6, 2010

8:00 AM-9:00 AM

110	Lawson - MLK, Jr. (24)	Grades PK-12
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Have You Ever Seen a Completed PDP?

Come see an approved, completed PDP and learn about licensing under PI-34. Initial educators should come to learn how to put theory into practice. Professional educators on the six credit system should come discover a better, cheaper and more rewarding licensing process. We will walk through the entire process, from forming the goal, picking standards, finding artifacts and transforming your teaching.

Kent Wedemeyer, *Sun Prairie High School, Sun Prairie, WI*

111	Kern - Stansbury (32)	Grades PK-16
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Charged to Change Issues, Policies, and Positions

Your Wisconsin Mathematics Council has an Issues and Positions Committee. Find out about current issues such as highly effective mathematics teachers, mathematics intervention specialists, RtI, and revised standards. You can become involved and help change policy and position statements.

Mary Walz, *WMC Issues & Positions Committee Chair, Sauk Prairie, WI*

112	Pillsbury - Pacific Southwest (50)	Grades 2-8 Vendor
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Are Your Students Struggling with Basic Math Facts & Fractions? Learn How Adaptive Technology Can Help

Two innovative programs can help you efficiently support RtI initiatives and deliver fraction and math fact fluency to all your students in Grades 2 and up. In this session, you will hear about the proven effective and research-validated program FASTT Math, which helps all students develop fluency with basic math facts in just 10 minutes a day. You will discover how FASTT Math automatically differentiates instruction based on each student's individual fluency level so that each student is appropriately challenged. In addition, you will be introduced to the new and engaging program Fraction Nation, which tackles some of the most difficult concepts to teach and learn — fractions and decimals. You will learn how this program was carefully designed to deliver fraction fluency through explicit instruction, extensive practice, and ongoing assessments — all in 15-minute lessons.

Jon Dary, *Scholastic, Bloomingdale, IL*

113	Kern - Hanson (50)	Grades 2-16
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Sketch-Up: Easy (and FREE!) 3D Modeling Software

This presentation will showcase basic use of Google's free design program, Sketch-Up. Using this software, we'll look at how students and teachers alike can model 3 dimensional objects as well as how to use it to make simple 3D pictures for classroom use.

Paige Prichard, *Rufus King High School, Milwaukee, WI*

114	Bauer - Beaty (50)	Grades 6-8 Vendor
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Math Gaming and Online Support to Engage Your Students

Participants will see the latest in gaming, online intervention

and remediation that engages students while providing math review and support. Come and see online videos that provide concept development and homework support.

Margaret Thomas, *Pearson Education, Glenview, IL*

115	RWI - Mahaney (40)	Grades 6-12
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Encouraging Mathematical Thinking: Making Review Count

Come to discuss strategies that might help your students develop higher order thinking skills and increase their problem-solving abilities by encouraging them to classify problems.

Marta Magiera, *Marquette University, Milwaukee, WI*

116	Kern - Brayton-Case A (64)	Grades 6-12
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Developing Habits of Mind: Seeking Regularity in Repeated Calculations

Imagine if students could read word problems and be able to reason about what the equation might look like. Imagine if students could write the equation for a line from two points by reasoning about what it might look like without the agony of struggling to memorize slope-intercept or point-slope form of the equation of a line. In this session, participants will learn how helping students develop the mathematical habit of mind, Seeking Regularity in Repeated Calculations, can help students reason about writing equations.

Annette Roskam, *Chicago Public Schools, Chicago, IL*

117	RWI - Crystal (64)	Grades 6-16
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More Green Data

In this session, I will use real world data to understand functions. I will use data from climate change studies in the presentation. Bring your graphing calculators.

Claudia Giamati, *UW-Eau Claire, Eau Claire, WI*

118	Kern - Brown (50)	Grades 9-12
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Struggles & Insights: A Novice's Attempt at Teaching Mathematics for Social Justice

What happens when a mathematics educator attempts to teach content through a problem context experienced by his students? This presentation will describe this attempt at teaching mathematics for social justice, which will include the struggles encountered and the insights revealed.

Joel Amidon, *UW-Madison, Madison, WI*

119	RWI - McGarvey (40)	Grades 9-12
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Trig-Star: A Practical Application

Find out about the National Trig-Star Contest. Trigonometry problems will be related to a career in land surveying. Practical use of law of sines and cosines will be demonstrated.

Allen Schneider, *Wisconsin Society of Surveyors, Madison, WI*
Rodney Key, *Wisconsin Society of Surveyors, Madison, WI*

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8:00-9:00 AM • 9:30-10:30 AM

120	Bauer - Lightbody (32)	Grades 9-12
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Perplexing Probability Problems

Enjoy a variety of interesting problems that can be used as an enrichment unit in your classes.

Joe Griesbach, *Marquette University High School, Milwaukee, WI*

121	Kern - Brayton-Case B (64)	Grades 9-16
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Tubing Down the River of Calculus: A Hands-on Activity

Come take part in an activity that can be used with Calculus students when working on volumes of revolution. This is a great activity that has students taking physical measurements, modeling real world objects with algebraic equations, and writing and evaluating integrals as they work to estimate the volume of an inner tube.

Mike Zittlow, *Southern Door High School, Brussels, WI*

122	Kern - Johnson (50)	Grades 13-16
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Teaching Mathematics Online: Scaffolding Strategies for Success

In this interactive session, a variety of resources and strategies for teaching mathematics in an online environment will be shared and discussed. The presenter will offer candid "tough lessons" learned over a decade of teaching mathematics online and will present an easy-to-implement scaffolding technique that has helped many fledgling mathematics students achieve success online.

Betsy Banner, *Lake Region State College, Devils Lake, WI*

Thursday, 9:30-10:30 AM

Keynote

123	Bauer - Morehouse B/ C (200)	Grades 6-12
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Some Lessons Learned from Research on Students' Reasoning about Sampling Distributions

This presentation will share some research tasks and student responses to those tasks that investigated the Development of Middle and Secondary Students' Conceptions of Variability. Students in grades 6 – 12 (age 11 – 18) were asked to reason about sampling distributions that were generated from populations in which the population proportion was either known, or unknown. One of the principal findings in this work is the emergence of a possible trajectory for the development of student thinking about distributions.

J. Michael Shaughnessy, *Portland State University, Portland, OR*

For more information about the conference, to download a registration form or register online, for directions to the Green Lake Conference Center and a schedule of events and meetings, go to www.wismath.org.

Thursday, May 6, 2010
9:30-10:30 AM • 60 Minute Sectionals

124	Kern - Brayton-Case A (64)	Grades PK-1
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A SMART Start in Math

This presentation will demonstrate math lessons and activities for PK and Kindergarten classrooms. The presenter will provide links for lessons and ways to connect them to the math curriculum standards as well as ideas for creating your own.

Jan Jubert, *Lac du Flambeau Public Schools, Lac du Flambeau, WI*

125	Kern - Stansbury (32)	Grades PK-3
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What is 7? (Seven, IIIIII, 2+5, 10-3)

During this interactive session, participants will explore activities that support the development of a strong foundation in number. Participants will engage in games (based on a reform math program) that help to deepen number sense. Participants will leave with activities that they will be able to implement on Monday!

Kathy Koscielniak, *School District of South Milwaukee, South Milwaukee, WI*

Diane Carrier, *School District of South Milwaukee, South Milwaukee, WI*

Laurie Nicholson, *School District of South Milwaukee, South Milwaukee, WI*

Brenda Osell, *School District of South Milwaukee, South Milwaukee, WI*

126	RWI - Crystal (64)	Grades PK-3
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Make-It-Take-It: Mathematics Activities

This session will focus on math activities and games that you will "play" as well as "make" for your classroom. All Make-It-Take-It materials will be geared towards PK-3rd grade and can be adjusted to fit the needs of your students. Come and have fun while you learn!

Pandora Bedford, *Milwaukee Public Schools, Milwaukee, WI*

Jeanne DeHaro, *Milwaukee Public Schools, Milwaukee, WI*

Amy Schuldt, *Siefert Elementary School, Milwaukee, WI*

127	Lawson - MLK, Jr. (24)	Grades PK-6
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Making Measurement Motivating and Meaningful!

Are your students struggling with time, area/perimeter, length or volume? Come see how to make measurement meaningful and motivating by developing and strengthening their skills with engaging, hands-on activities.

Kevin Dykema, *Mattawan Middle School, Mattawan, MI*

Preliminary Schedule • Thursday, May 6, 2010

9:30 AM-10:30 AM

128	Kern - Johnson (50)	Grades 2-8
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Connecting Children's Literature and Mathematics

Using a children's book can be an exciting way to engage students in doing mathematics. This session will explore how to expand a student's conceptual understanding, procedural facility, and productive disposition through literature. Participants will also examine a draft of a book that connects Hmong culture and mathematics.

Maggie McHugh, *UW-La Crosse, La Crosse, WI*
Jennifer Kosiak, *UW-La Crosse, La Crosse, WI*

129	Pillsbury - Pacific Southwest (50)	Grades 4-8 Vendor
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How to Simplify Teaching Fractions

Students who learn fractions with a linear model find fractions easy to understand. The linear model, similar to a number line, provides the big picture right from the start. Learn how comparing, adding, subtracting, and simplifying fractions with this model can be almost intuitive for all ages.

Joan Cotter, *Activities for Learning, Hutchinson, MN*

130	Bauer - Beaty (50)	Grades 4-12
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Making the Most of Moodle: The Quick, Easy and FREE Way to Create a Virtual Learning Environment

Come and learn the easiest way we have found to create and maintain a course website. From basic assignment and lesson content posting to creating chats, blogs, wikis, forums, quizzes and more...come and see if Moodle is for you!

Carrie Ketchem, *Beaver Dam High School, Beaver Dam, WI*
Todd Butterworth, *Beaver Dam High School, Beaver Dam, WI*

131	RWI - Veranda A (48)	Grades 6-8
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Making Middle School Math Work – Updated for Standards-Based Grading

Ideas and tricks of the trade that are organizational, structural and motivational in nature. Make sure you and your students get the most out of their time in math class and most importantly, have fun doing it!

Don White, *Black Hawk Middle School, Madison, WI*

132	Youth Center - Huber- Evans (80)	Grades 6-12
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The 10 Things All Future Mathematicians and Scientists Must Know (But are Rarely Taught)

Mathematicians and scientists have been closely tied to many famous disasters. The Challenger explosion, the failure of the Mars Explorer, and the Kansas City Hyatt Regency walkway collapse all involved thinking errors. Future mathematicians and scientists must know how to prevent these tragedies from occurring. Because science and mathematics instruction is often dominated by facts and calculations, children are rarely exposed to these important concepts.

Ed Zaccaro, *Bellevue, IA*

133	RWI - McGarvey (40)	Grades 9-12
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We're Back! Update: Single Gender Classrooms — It's Worth It

Update on single gender class results from 2008-2009. How did the implementation year conclude, and what effect did it have on our approach to 2009-2010? We will discuss techniques we are implementing this year to improve student and parent engagement in low performing math classes.

Elizabeth Cherney, *Park High School, Racine, WI*
Richard Miles, *Park High School, Racine, WI*

134	RWI - Veranda C (48)	Grades 9-12
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Mathematics of Financial Literacy

This presentation will explore the mathematics of Financial Literacy. Topics will include simple and compound interest earnings, annuities, and the consumer loan formula. Participants will receive ideas and ready to use materials. Information on the Wisconsin Personal Financial Literacy Standards will also be given.

Bill Martinson, *Tomah High School, Tomah, WI*

135	Kern - Hanson (50)	Grades 9-12
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Resources for Teaching AP Calculus

In this session we will look at some free online resources to aid in teaching AP Calculus AB and BC. We will also discuss other tips and teaching strategies to help you prepare students for the AP test. Be ready to share ideas that work for you.

Monica Gantner, *Homestead High School, Mequon, WI*

136	Bauer - Lightbody (32)	Grades 9-12
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Do I Really Need to Teach Reading and Vocabulary in My Math Class?

Come see how South Milwaukee High School math teachers use reading and vocabulary strategies to enhance their math classes.

Joe Giera, *South Milwaukee High School, South Milwaukee, WI*

Gerry Shinnors, *South Milwaukee High School, South Milwaukee, WI*

137	Kern - Brown (50)	Grades 13-16
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Lessons Learned from Using "Lesson Study" with Pre-service Teachers

This session will describe the lesson study circle and its use with 6-12 grade pre-service teachers in a mathematics methods course. Highlights and results from a lesson study project will be shared.

Christopher Hlas, *UW-Eau Claire, Eau Claire, WI*

Preliminary Schedule • Thursday, May 6, 2010

9:30-11:00 AM • 10:00-11:00 AM • 10:00-11:30 AM

Thursday, May 6, 2010
9:30-11:00 AM • 90 Minute Workshops

138	Bauer - Morehouse A (100)	Grades 6-12 Vendor
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How Can I Solve It?

Come participate in sample lessons and problems that we use manipulatives (Algebra Tiles) to build a deeper understanding of negatives, zero, no solution...as well as a deeper understanding of solving equations. Teachers will receive lessons they can use in their own Algebra classrooms.

Tracy Frank, *CPM Educational Program, Deerfield, WI*

Thursday, May 6, 2010
10:00-11:00 AM • 60 Minute Sectionals

139	Bauer - Boddie (24)	Grades PK-3 Vendor
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Handheld Computer-Based Formative Assessment for K-3 Math

Math formative assessment has become commonplace in elementary classrooms across the country. But in order to fully understand a student's progress and skill needs, educators must know not only what students know, but how they know it. In this informative session, participants will discuss how technology is helping educators all over the country to screen and diagnose students' early math skills. Join us as we discuss all necessary elements to a successful early math program, including:

- screening measures of skill proficiency
- diagnostic interviews for probing students' mathematical thinking
- progress monitoring tools
- extensive instructional guidance linked to results
- continuous professional development for teachers

Jill Freking, *Wireless Generation, Brooklyn, NY*

Thursday, May 6, 2010
10:00-11:30 AM • 90 Minute Workshops

140	Bauer - La Due (24)	Grades PK-16
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Feeling Isolated? Join an Online Professional Learning Network!

Where do you go to learn about the newest teaching techniques? Teachers often feel isolated from other professionals as we work in our various departments and schools. By becoming part of an online learning network, teachers can tap into the knowledge bank of an unlimited amount of professionals anytime, anywhere and anyplace. Join us for this interactive session where we will talk about how to set up a personal learning network using tools such as Blogs, Google

Reader, Twitter, and Ning. No previous technology experience is necessary.

Tammy Lind, *South Milwaukee Public Schools, South Milwaukee, WI*

Melinda MacLeish, *South Milwaukee Public Schools, South Milwaukee, WI*

141	Kern - Brayton-Case B (64)	Grades 4-8
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Problems Without Figures

A little over 100 years ago, an interesting book of problems was published in Milwaukee. A few of these problems will be worked on. They are word problems without numbers so students have to explain how to solve them.

Richard Askey, *UW-Madison, Madison, WI*

142	Kern - Boehr (50)	Grades 6-12
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More Powerful Mathematics Teaching

This session will describe and show video of our classroom using literacy practices that enhance the learning of mathematics content and are used at a variety of times in the lesson, address a broad range of learning styles, increase involvement of each student, enhance retention, provide formative assessment of students' thinking and as a result, promote more powerful learning than whole class discussion or lecture.

Amy Krolow, *Clintonville High School, Clintonville, WI*

Robert Arkens, *Clintonville Middle School, Clintonville, WI*

143	Youth Center - Oliver DeWolf Cummings (80)	Grades 6-12 Vendor
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Using Effective Study Teams in the Mathematics Classroom Part 2

This is a continuation of Part 1. Come learn strategies that you can use in your classroom to help teams (groups) of students work together effectively and value each other. We will look at the why, when, how and what of using teams, along with specific strategies. If you missed Part 1, you are still welcome to join us!

Melissa Thomley, *CPM Educational Program, Verona, WI*

144	RWI - Mahaney (40)	Grades 9-12
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Making Sense of Statistical Studies

This workshop will focus on activities from *Making Sense of Statistical Studies* from the American Statistical Association (ASA). We will explore questions like, "Are hot dogs unhealthy?", "Is Oostburg a magic town?" and "Would most teens return the money they received in incorrect change?". The investigations were developed by schools trying to incorporate an introduction to statistics in their courses.

Patrick Hopfensperger, *UW-Milwaukee, Milwaukee, WI*

Henry Kranendonk, *UW-Milwaukee, Milwaukee, WI*

Preliminary Schedule • Thursday, May 6, 2010

11:00 AM-12:00 PM

Thursday, 11:00 AM - 12:00 PM

Keynote

145	Bauer - Morehouse B/ C (200)	Grades PK-4
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The Pigs Will Be Pigs Series and the Wisconsin State Standards

Join children's author Amy Axelrod, and learn how to incorporate the *Pigs Will Be Pigs* math series books into the elementary classroom. Specific teaching strategies, lesson plans and games – all designed to reinforce the Wisconsin State Standards – will be shared,
Amy Axelrod, Author, Hurley, NY

149	Kern - Stansbury (50)	Grades PK-16
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Leading Effective and Collaborative Teams of Mathematics Teachers

A National Council of Supervisors of Mathematics position paper sparks a discussion, which leads to an action plan, and it all can start with just one teacher leader. We will explore the building of collaborative teacher teams and have time to reflect on how they could be formed in your school, district or region.

Grant Goettl, Madison Metropolitan School District, Madison, WI

Thursday, May 6, 2010
11:00 AM -12:00 PM • 60 Minute Sectionals

146	Bauer - Lightbody (32)	Grades PK-3
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The Power of the Patterns

How in the world do you teach patterns to younger students? Come to hear some fun and interesting ways to teach Algebra to younger students.

Toya Jenkins-Glenn, Milwaukee Public Schools, Milwaukee, WI

150	RWI - Veranda A (48)	Grades 4-8
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Math Challengers: A School-Wide System for Improving Results in Constructed Response Questions

This session will demonstrate a highly motivational method for getting your students to write their own story problems, improve their ability to answer story problems, use rubrics for scoring and provide descriptive feedback to their peers. Come and see how one school gave ownership of classroom -based assessments to students!

James McLure, Zablocki Elementary School, Milwaukee, WI

147	Kern - Hanson (50)	Grades PK-1, 4-6
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Math Buddies that Work

If you haven't been using math buddies, you don't know what you've been missing! This session will explore many activities we have used to make the pairing of older students with younger learners a breeze while covering many of the NCTM standards.

Lisa Foster, Manitowoc Public School District, Manitowoc, WI
Ellen Feller, Manitowoc Public School District, Manitowoc, WI

151	RWI - Crystal (64)	Grades 4-8
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From Skip Counting to Linearity: How Do We Get There?

In this session the journey from skip counting to linearity will be explored through the mathematical idea of recursion. Algebraic thinking throughout the grades provides the connections necessary for a deep understanding of mathematics. Participants will experience hands on activities that make this transition accessible for all students.

Astrid Fossum, Milwaukee Public Schools, Milwaukee, WI
Mary Mooney, Milwaukee Public Schools, Milwaukee, WI

148	Kern-Brayton-Case A (64)	Grades PK-8
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Using Technology to Teach a Very Dense Symbol System in a Meaningful Way

There are five major variables used in each lesson: estimation, the creation of word problems, the use of a variety of strategies, the use of everyday knowledge and the use of manipulatives or drawings. These five variables can be organized efficiently through the use of technology.

Eileen Quinn Knight, Saint Xavier University, Chicago, IL

152	RWI - Veranda C (48)	Grades 6-8
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Math - Not Just Another Four Letter Word

This session features games, activities and projects that will get students excited about doing math. Math can and should be fun! This hands-on course will provide educators with a multitude of activities that address the Wisconsin Model Academic Standards in various hands-on methods. In addition to high-paced games, participants will be provided warm-up activities and higher level thinking projects.

Beth Trochil, Chequamegon Middle School, Glidden, WI
Jane Armstrong, Greenfield Middle School, Greenfield, WI

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153	Youth Center - Huber-Evans (80)	Grades 6-12
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How People Lie, Cheat and Steal with Statistics

Because statistics are based on mathematics, they are very appealing to our evidence-based culture. Unfortunately, they are often employed to sensationalize, confuse and make false assertions seem true. In this session you will not only learn several fascinating techniques that are used to manipulate statistics, but you will also learn the power of honest statistics and how they have saved millions of lives.

Ed Zaccaro, *Bellevue, IA*,

154	Bauer-Beaty (50)	Grades 6-12
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Using a SMART Board in the Mathematics Classroom

In this session participants will explore the many ways that a SMART Board, Notebook software, and other SMART hardware can be used in a mathematics classroom. We will learn topics ranging from making interactive lessons to using online resources to recording lessons and tutorials.

Dave Ebert, *Oregon High School, Oregon, WI*

155	Kern - Cary (32)	Grades 6-12
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Collaboration and Common Assessment

Bring your colleagues and learn how to integrate real strategies that will allow you to collaborate and write common assessments.

Nick Zweifel, *DeForest High School, DeForest, WI*

Mark Ray, *DeForest High School, DeForest, WI*

Bruce Brusoe, *DeForest High School, DeForest, WI*

156	Kern - Brown (50)	Grades 9-12
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Come See How Geometer's Sketchpad Can Improve Mathematical Learning and Teaching in Any Math Class

Geometer's Sketchpad is a software program that can be used in all math classes for presentations or hands-on discovery learning. Come see how to use this awesome tool. It is very effective with a SMART Board. *Note: Both version 4 and 5 will be discussed.*

Mike Tamblyn, *Whitewater High School, Whitewater, WI*

157	Lawson - MLK, Jr. (24)	Grades 9-12
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Tell Me a Story...

Everyone loves a story. Come hear about the adventures of the greatest philosopher of all time - Socrates and his pupil Amphibianes. Join Sigma the square in a search for higher dimensions. Reacquaint yourself with the *Cat in the Hat*. Groan to the forced rhymes of fill in the blank poems. Experience the joy of the creative side of mathematics. We'll even sing a song or two.

Dane Camp, *New Trier High School, Winnetka, IL*

158	RWI - McGarvey (40)	Grades 9-16
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Transitions to College Math

In this session we'll describe a project in progress at the University of Wisconsin-Platteville involving UWP math students, high school math teachers, and UWP math teachers. The ultimate goal of the project is to ease students' transitions from high school math to college math.

Julia McDonald, *UW-Platteville, Platteville, WI*

Tim Deis, *UW-Platteville, Platteville, WI*

Jason Thurn, *UW-Platteville, Platteville, WI*

159	Kern - Johnson (50)	Grades 9-16
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MCPASD - Math and Computer Science

This session will explore teaching computer programming and math "hybrid" using Moodle as an online vehicle.

Lori Hunt, *Middleton-Cross Plains High School, Middleton, WI*

Thursday, May 6, 2010
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201	Bauer - Lightbody (32)	Grades PK-1
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Making Our Thinking Visible: Metacognition Within the Mathematics Workshops

Participants will learn how to help students become more aware of their "inner conversation" while solving mathematical tasks. This metacognitive mathematical thinking will result in students gaining a conceptual understanding of mathematics. Teachers will learn practical ways to enhance metacognition within the mathematics workshop.

Kelly Pitzen, *Oshkosh Area School District, Oshkosh, WI*

Melissa Bowman, *Oaklawn Elementary School, Oshkosh, WI*

202	Kern - Boehr (50)	Grades PK-8
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Active Learning with ActivBoards

Moving instruction into the 21st Century can be a challenging experience. Learn how to use Promethean technology to make every math lesson interactive and engaging. You will see how ActivExpressions (interactive student response system) are used to give immediate feedback on the effectiveness of instruction. In addition, learn how ActivBoards help teachers facilitate motivating lessons.

Dana Goe, *Glendale/River Hills School District, Glendale, WI*

203	Kern - Hanson (50)	Grades PK-8 Vendor
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Learning in the 21st Century. The Promethean Interactive Classroom

From the market-leading Interactive whiteboards to the award winning educational software and cutting edge learner

Preliminary Schedule • Thursday, May 6, 2010

12:30-2:00 PM • 1:00-2:00 PM

response systems, Promethean's Solutions are designed by educators to interact seamlessly. They will refresh your approach to teaching and unlock your students' potential to learn. Promethean is truly in a class of it's own!

Nick White, *The Professional Group, Novi, MI*

204	Bauer - Boddie (24)	Grades 2-6
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A Triune Function for Math Teaching and Learning

In this session, participants will have an opportunity to develop a small mathematical project by organizing three functional aspects – math content, mathematical habits of mind, and the SMART Board. The SMART Board is an excellent tool for supporting interactive and integrated functions for learning. It has been used to develop students' mathematical habits of mind, which are powerful depositions to help students to conceptualize their ideas in mathematical learning.

Hsing-Wen Hu, *UW-River Falls, River Falls, WI*

205	RWI - Veranda C (48)	Grades 2-8
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Problem Solving with Tangrams and Pentominoes: Geometric Thinking (Level 3-8)

In this hands-on workshop, participants will use tangrams and pentominoes to make problem solving FUN! Strategies, perseverance, and Geometry vocabulary will be a focus.

Sharon Rak, *Roosevelt University, Chicago, IL*

Barbara Jo Evans, *Roosevelt University, Chicago, IL*

206	RWI - Crystal (64)	Grades 6-8
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What is This Thing Called Intervention?

The presenters spent the 2007-2008 school year researching, synthesizing, and writing a nine-part series for the NCTM News Bulletin about "this thing called intervention." In this session they will share their journey, their learning, and the implications for us as mathematics educators and assist participants in experiencing a differentiated lesson.

Nancy Berkas, *EdSights, LLC, Fort Atkinson, WI*

Cynthia Pattison, *EdSights, LLC, Fort Atkinson, WI*

207	Pillsbury - Pacific Southwest (50)	Grades 6-8 Vendor
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Game Time (Middle School)

Games provide engaging opportunities for middle school students to practice and reinforce math skills and concepts. Join us for this interactive session.

Dave Kowal, *Houghton-Mifflin Harcourt, Delafield, WI*

208	Youth Center - Oliver DeWolf Cummings (80)	Grades 6-8
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Hands-on Sierpinski's Triangle for Middle School

Come and learn ways you can introduce your students to this famous fractal. We'll fold it, draw it, color it, analyze it and build it.

Cathy Williams, *Alverno College, Milwaukee, WI*

209	Kern - Brayton-Case B (64)	Grades 6-12
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Developing Quality Assessments for Middle and High School Mathematics Courses

This session focuses on developing your own quality, focused assessments using the learning targets for your class to both measure student learning and promote students' reflection on their own learning. Bring your best assessment(s) and ideas as well as an assessment you need to work on for this interactive, collaborative work session.

Annette Roskam, *Chicago Public Schools, Chicago, IL*

210	Kern - Brayton-Case A (64)	Grades 9-12
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Stimulating & Motivating Activities for Teachers

Teachers will be engaged in a variety of strategies using the SMART Board to enhance learning in the classroom. This session will knock you off your seat! Come learn while having a blast and see what the SMART Board can do for you!

Bridget Schock, *Bradely Tech High School, Milwaukee, WI*

Rachel Strutz, *Bradley Tech High School, Milwaukee, WI*

211	Kern - Cary (32)	Grades 9-12
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Extraordinary Activities for Extraordinary Precalculus Students

This session will demonstrate some precalculus graphing activities, including regression modeling from data, parametric graphing, and writing transformation equations from graphs or pictures. Games such as *Polar Battlestar* and *Plinko*, original design projects for polar graphing and transformations, and other fun activities will be shared.

Wendy Meyer, *Edgerton High School, Edgerton, WI*

212	Bauer - La Due (24)	Grades 2-16
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Logo Turtle Programming with a Twist

Let's together explore another free programming environment designed to lower the barrier to entry for programming and to entice more young people into programming. StarLogo TNG (The Next Generation) is an agent-based graphical programming environment designed for students and teachers to study and create 3D games, models and simulations. Come join us in the workshop and discussion.

Joe Knoch, *Milwaukee Public School, Milwaukee, WI*

Thursday, 1:00-2:00 PM

Keynote

213	Bauer - Morehouse B/ C (200)	Grades PK-12
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Focus on Student Reasoning and Sense Making in Statistics: A Data Analysis Exploration

Attendees will participate in a data analysis investigation based on one of the episodes of student reasoning from the new NCTM publication *Focus on Reasoning and Sense*

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1:00-2:00 PM

Making: Statistics. Participants will be given a data set and asked to put on their "data detective hats" as they share "notices and wonders" about the data. They will then construct graphical representations of the data and make predictions based on the data. The investigations in this new series of *Focus on Reasoning* books from NCTM are specifically designed to elicit and encourage students to share and build on one another's reasoning. All are welcome.

J. Michael Shaughnessy, *Portland State University, Portland, OR*

214	Kern - Stansbury (32)	Grades PK-3
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Bridging the Gap to the 21st Century Math Learners

From limited technology to high technology, participants will look at applications to activate kinesthetic, hands-on learning opportunities for today's students to build solid tomorrows.

Colleen McCarthy, *Pearson Education, Glenview, IL*

Thursday, May 6, 2010
1:00-2:00 PM • 60 Minute Sectionals

215	RWI - Veranda A (48)	Grades PK-3
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Small Group Instruction: It's All About the Numbers

This session will provide information and strategies for effective use of math centers in the classroom. Learn how to set up and implement activities and maintain materials while increasing student learning. Examples of center materials and ideas will be shared.

Wendy Novak, *Fairview Charter School, Milwaukee, WI*

Laura Yale, *Fairview Charter School, Milwaukee, WI*

216	Bauer - Morehouse A (100)	Grades PK-6 Vendor
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Practice SMART! Differentiate SMART!

Britannica SmartMath!

Participants will engage in lively and interactive web-based practice and assessment for elementary students. Move students toward computational fluency while using tools that allow teachers to differentiate, assess, track and evaluate in real-time. Students enjoy doing math at home or in the classroom.

Becky Carroll, *Britannica Digital Learning, Chicago, IL*

Jim Carroll, *Britannica Digital Learning, Chicago, IL*

217	Bauer - Beaty (50)	Grades PK-16
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NBPTS — Professional Development that Matters!

National Board Certification is a rigorous and worthwhile process designed to recognize teachers who impact student learning. NBC is a vehicle with which to bring about national education reform based on its five core propositions. Come explore ways to become part of this exciting initiative and what the Wisconsin National Board Network has to offer you.

Kelly Jansen, *Kimberly High School, Kimberly, WI*

Jody King, *Kimberly High School, Kimberly, WI*

218	RWI - Mahaney (40)	Grades 6-8 Vendor
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Questioning in the Math Classroom

Learn to use questioning with confidence to allow for discussion and exchange of ideas. Encourage students to use thinking and reasoning to answer the "what ifs" in the mathematics classroom.

Denise McDowell, *Big Ideas Learning, LLC, Erie, PA*

219	Kern - Johnson (50)	Grades 9-12
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Wisconsin State Standards - High School

The Revised *Wisconsin Model Academic Standards for Mathematics PK-12* were introduced last year and have been in draft form posted on the DPI website. During this session participants will be updated on the status of the standards written for high school and the connection they have to the K-12 Common Core State Standards and the College and Career Readiness Standards.

Wisconsin Standards Design Team Members

220	Kern - Brown (50)	Grades 9-16
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Student Reports of Affective Variables While Completing Electronic Homework (Maple TA)

Maple TA is web-based software that creates and grades student homework. This technology is relatively new so little is known about student interactions with it. This study will report on students' ratings of affective variables based on intrinsic motivation and flow theory.

Christopher Hlas, *UW-Eau Claire, Eau Claire, WI*

221	RWI - McGarvey (40)	Grades 9-16
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A Mixed Mishmash of Mathematics

A small collection of interesting facts, figures and proofs, etc. from the world of mathematics will be presented.

Jason Thrun, *UW-Platteville, Platteville, WI*

Tim Deis, *UW-Platteville, Platteville, WI, WI*

222	Lawson - MLK, Jr. (24)	Grades 9-16
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The Problem with the "Snack Food Problem"

Surprising challenges can arise when we try to solve a system of linear equations using real data. In this presentation, we will investigate a seemingly straightforward class activity that evolves into an exploration of some deep issues that can arise with linear systems. Some facility with solving systems of equations using technology will be helpful, but not necessary. Snacks will be provided!

Stephen Szydluk, *UW-Oshkosh, Oshkosh, WI*

Check out www.wismath.org for updates & complete conference information.

Preliminary Schedule • Thursday, May 6, 2010

2:00-3:00 PM • 2:30-4:00 PM

Thursday, May 6, 2010
2:00-3:00 PM • 60 Minute Sectional

223	Kraft – Mitchell Dining Room (50)	Grades PK-12
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“got PDP?” A Look at Professional Development Planning for Math Educators

Step up to the challenge of putting mathematics at the center of your professional development plan (PDP). Whether you are an Initial Educator creating or working on verification for your first PDP of a Professional Educator considering how a PDP might fit in with your future license renewal, this session will provide information and resources to develop a rich and meaning-filled PDP.

Karen Reiss, *Germantown School District, Germantown, WI*

Thursday, May 6, 2010
2:30-4:00 PM • 90 Minute Workshops

224	Kern - Boehr (50)	Grades PK-2
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Building Foundations of Critical Numeracy: Assessment and Interventions PK-2

Participants will be introduced to a formative assessment tool, the Critical Numeracy Checklist (CNC), and shown how it can be used in conjunction with Response to Intervention (Rtl) models. Results from a validation study will be shared and field tested interventions will be demonstrated.

Britta Cook, *UW-Eau Claire, Eau Claire, WI*
Joseph Morin, Ed.D., *UW-Eau Claire, Eau Claire, WI*

225	Pillsbury - Pacific Southwest (50)	Grades PK-1 Vendor
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Building Connections with Young Learners

Young children can often count by ones and even tens in a sing-song manner. What meaning does this counting have for them? Is it strictly rote, or can they connect counting numbers with numerals, quantity and relationships among numbers? Explore activities to assess children's understanding and help students make these connections.

Cheryl Wozniak, *Exponential Learning, Grafton, WI*

For more information about the conference, to download a registration form or register online, for directions to the Green Lake Conference Center and a schedule of events and meetings, go to www.wismath.org.

226	Kern - Brayton-Case A (64)	Grades PK-8
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Mathematics and Literacy: A Social Justice Connection

In this workshop you will hear about teaching mathematics for social justice using children's literature. We will share strategies for identifying social justice themes embedded in literature that connects to issues children face in their classrooms and communities. The session will include an exploration of books and development of lesson plans appropriate for grades K-8.

Dana Hagerman, *UW-Madison, Madison, WI*
Anita Wager, *UW-Madison, Madison, WI*

227	RWI - Veranda A (48)	Grades PK-16
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Making Connections through Lesson Study

Learn how Lesson Study is meeting the needs of 24 math teachers from grades K-12, representing 13 diverse districts throughout Northwestern Wisconsin. This unique professional development model combines face-to-face summer meetings, active online communication through "Moodle," extensive team-building activities and six release days during the school year for joint public lessons. Come and share your Lesson Study experiences and/or learn how the process can be adapted in your district.

Michelle Parks, *CESA 10, Chippewa Falls, WI*
Diane Masarik, *UW-Eau Claire, Eau Claire, WI*
Lorna Vazquez, *Granton High School, Granton, WI*
Christopher Hlas, *UW-Eau Claire, Eau Claire, WI*

228	Kern - Stansbury (32)	Grades 6-8
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Improving Student Achievement in Math through Formative Assessment

Want to know how to improve student achievement in your classroom in a practical way and at the same time hold students accountable for their learning? Come study Stiggins' formative assessment principles and start changing the way you and your students view achievement.

Shunda Allen, *Audobon Technology Communication Center, Milwaukee, WI*

229	Youth Center - Huber-Evans (80)	Grades 6-12
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Using Demonstrations to Bring Algebra to Life

In this workshop we will explore inquiry-based lessons for middle and high school algebra classes. Since mathematics is the language of physics, we will use simple, easy-to-design physics demonstrations to help students grasp algebraic equations and concepts.

Ella Braden, *UW-Madison, Madison, WI*

Preliminary Schedule • Thursday, May 6, 2010

2:30-4:00 PM • 2:30-3:30 PM

230	Bauer - Boddie (24)	Grades 6-16
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Computer Programming: Learn How to Program Using Alice!

Alice is an excellent introductory programming language that allows students to create and manipulate 3-D worlds. Alice is intended to be a first stop in teaching students about the basics of a computer language, but it is so much more than that! It's perfect for a high school Computer Science 1 course or a middle school exploration course. It can even be used as a differentiation technique for advanced upper-level elementary students! Come and find out what Alice is and how you can use it in your classroom to teach computer programming and problem solving!

Dean Johnson, Fort Atkinson High School, Fort Atkinson, WI

231	RWI - Veranda C (48)	Grades 9-12
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Foldables in the High School Classroom and Other Good Stuff

I always thought of foldables being only for young elementary students. Last spring and summer, I found ways to use them in high school. My students LOVE them and use them as study and reference tools. No tech!

Christine Fransen, Senn High School, Chicago, IL

Thursday, 2:30-3:30 PM

Keynote

232	Bauer - Morehouse B/ C (200)	Grades PK-16
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Becoming a Teacher of Influence: The Six Secrets to Inspiration!

This motivational and humorous session will examine the research on student motivation and the ways teachers can positively influence vital student behavior and actions. Surprisingly, the number one way we influence vital student behavior is through our verbal words - which often fails. "You need to do your homework" does not necessarily motivate a student to perform this vital behavior. So what does? Come find out!

Timothy Kanold, Author, Chicago, IL

Thursday, May 6, 2010
2:30-3:30 PM • 60 Minute Sectionals

233	Kern - Johnson (50)	Grades 6-8
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Wisconsin State Standards - Middle School

The Revised Wisconsin Model Academic Standards for Mathematics PK-12 were introduced last year and have been in draft form posted on the DPI website. During this session participants will be provided an update on the status of the revised standards for grades 6-8 and how they fit into the vision of the K-12 Common Core State Standards.

Wisconsin Standards Design Team Members

234	Lawson - MLK, Jr. (24)	Grades PK-6
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The Missing Link: Making Connections to Develop Conceptual Understanding

Connecting manipulatives with algorithms, via visual representations, proof drawings, and communication – the process standards of representation and communication – is often the missing link in developing conceptual understanding of algorithms. Teachers may use this technique as a formative assessment to gain insight into student thinking and understanding. It also provides students with tools to explain their thinking on constructed response items on the WKCE-CRT. This session will provide teachers with an opportunity to express this process and tools to use with their students next week.

Mary Richards, New London Schools, New London, WI

235	Bauer - Beaty (50)	Grades PK-8
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Being Mathematically Together!

The School District of Osceola is using staff leadership to create staff development opportunities during regularly scheduled staff meetings to increase mathematical thinking among staff and students. Come see how a little bit of initiative made the test scores and teacher knowledge grow.

Abby Jensen, School District of Osceola, Osceola, WI

Tony Thielke, School District of Osceola, Osceola, WI

Janet Anderson, School District of Osceola, Osceola, WI

Kim Roemhild, School District of Osceola, Osceola, WI

Kent Lundholm, School District of Osceola, Osceola, WI

Amy Gillespie, School District of Osceola, Osceola, WI

236	RWI - Crystal (64)	Grades PK-12
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Need a Change? Take Charge & Make the Difference!

A panel of teachers from three different schools share how they implemented teaching strategies to help students at all grade levels prepare and achieve success for higher levels of mathematical learning.

Jan Wickboldt, Clayton School, Clayton, WI

Terri Manuson, Clayton School District, Clayton, WI

Heidi Johnson, Clayton School District, Clayton, WI

Dean Roush, Clayton School District, Clayton, WI

Amy Bartylla, Clayton School District, Clayton, WI

Rene Lechman, Clayton School District, Clayton, WI

237	Bauer - La Due (24)	Grades PK-16
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Is it Time for a Statewide Computer Science/ Information Technology Teacher Organization?

Let's talk about establishing a statewide teach group to engage and support teachers of computing - those who teach CS and IT or both either in units of instruction or as courses. At least 60 Wisconsin teachers have come to the Annual Conference in recent years who teach computing. The result could be a viable statewide group of CSTA Computer Science Teachers Association.

Joe Knoch, Milwaukee Public Schools, Milwaukee, WI

Preliminary Schedule • Thursday, May 6, 2010

2:30-3:30 PM

238	Youth Center – Oliver DeWolf Cummings (80)	Grades 4-8
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Numb3rs in N8ture: Environmental Education to Enhance Your Lesson Plans

Numbers are out there...everywhere! Discover how to use the natural world as a tool to teach mathematics using a variety of fun, hands-on teaching techniques. Participants will experience activities from the award-winning national environmental education programs Project WILD, Project WET, and Project Learning Tree. In this informational session, you'll be introduced to the three different activity guides, discover how activities can be selected for specific grade levels or subjects, and experience an exciting math-related activity from each program. No matter what grade you teach, these teacher-tested programs will enhance and diversify your teaching while meeting academic standards and helping students connect with the outdoor world. We hope to inspire you to attend a Project WILD, Project WET, or Project Learning Tree workshop in the future and bring n8ture into your classroom.

Amalia Baldwin, *Wisconsin Dept. of Natural Resources, Madison, WI*

239	Bauer - Lightbody (32)	Grades 6-12
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How Can Reading be Taught During Math Class?

Learn what "reading mathematics" means by participating in a variety of activities and learning some strategies that can be implemented in your classroom.

Sue Hanson-Otis, *Franklin Public Schools, Franklin, WI*

240	Kern - Brown (50)	Grades 6-12
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Risky Business: Classroom Techniques to Produce Active Learners

Do you feel as though when you are teaching there is a little voice telling you, "They're not listening -- you know they aren't!". Well, it is time to take a risk! Come learn discussion techniques to keep students engaged, increasing fast, formative feedback. Learn how to effectively utilize an interactive whiteboard, further accentuating these practices. Leave with techniques you can implement in your lessons NOW!

Peggy Hartwig, *Marshfield High School, Marshfield, WI*

241	Kern - Hanson (50)	Grades 6-12
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Math Curriculum Integration with Project Lead the Way Pre-engineering Program

The Project Lead the Way pre-engineering program integrates math, science, language arts and technology with team work, problem solving, and communication skills to engage and challenge students in real world problem solving. Learn how your school can get started with this dynamic program.

Terri Schulz, *Project Lead the Way, Clifton Park, NY*

Steve Salter, *Milwaukee School of Engineering, Milwaukee, WI*

242	Kern - Brayton-Case B (64)	Grades 6-12
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Can We Go Outside? Geo-caching in Your Classroom

Create and solve geo-caching math-tivities using GPS coordinates. We will use our solutions to find hidden treasures. Bring a hand-held GPS unit if possible and an umbrella.

Jim Zillmer, *West De Pere High School, De Pere, WI*

243	RWI - McGarvey (40)	Grades 6-12
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Overview of the TI-84 Graphing Calculator

We will explore all aspects of the graphing calculator including statistical plots, regression, playing guess my rule, piece wise functions, and some simple programming.

Tony Pickar, *DC Everest Senior High School, Weston, WI*

244	Bauer-Morehouse A (100)	Grades 6-12
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Using the Features of the New SMART Notebook Math Software

SMART Notebook Math is a powerful new add-on to SMART Notebook software. This software was just released this year. Come to this session to find out about all of the new features of SMART Notebook Math and how you can use it in your classroom.

Dave Ebert, *Oregon High School, Oregon, WI*

245	RWI - Mahaney (40)	Grades 9-12
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Reasoning and Sense Making in Statistics and Probability — The Initial Stages

How do you initiate understanding statistics and probability for high school students? Explore and discuss how students with limited experiences prior to high school can be challenged to reason with data that develops the key elements and habits of mind for further work with statistics, probability, and data analysis.

Henry Kranendonk, *UW-Milwaukee, Milwaukee, WI*

246	Kern - Cary (32)	Grades 9-16
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Building Digital Learning Objects to Enhance Learning in Pre-Calculus

In this session, participants will explore a collection of over 50 digital learning objects that can be used for teaching Pre-Calculus and Calculus. Each learning object is focused on a mathematical question and includes a video podcast of the solution, supplementary self-check problems, and tutorials for students to examine. Participants will also learn how to use free technologies to create their own mathematical learning objects.

Bob Hoar, *UW-La Crosse, La Crosse, WI*

Jennifer Kosiak, *UW-La Crosse, La Crosse, WI*

Jon Hasenbank, *UW-La Crosse, La Crosse, WI*

**Preliminary Schedule • Thursday, May 6, 2010
3:00-4:00 PM**

**Thursday, May 6, 2010
3:00-4:00 PM • 60 Minute Sectionals**

247	Kraft-Tower Dining Room (84)	Grades 6-12 Vendor
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College Preparatory Mathematics (CPM)

Roundtable Share Session

If you are a veteran CPM teacher, a new CPM teacher or interested in learning more about CPM, please join us for a sharing session. Bring an idea to share with others and learn about the support CPM can offer you.

Tracy Frank, *CPM Educational Program, Deerfield, WI*