

# Quality Mathematics for All Students

Pulling It All Together

Teacher Knowledge

Teaching Pedagogy

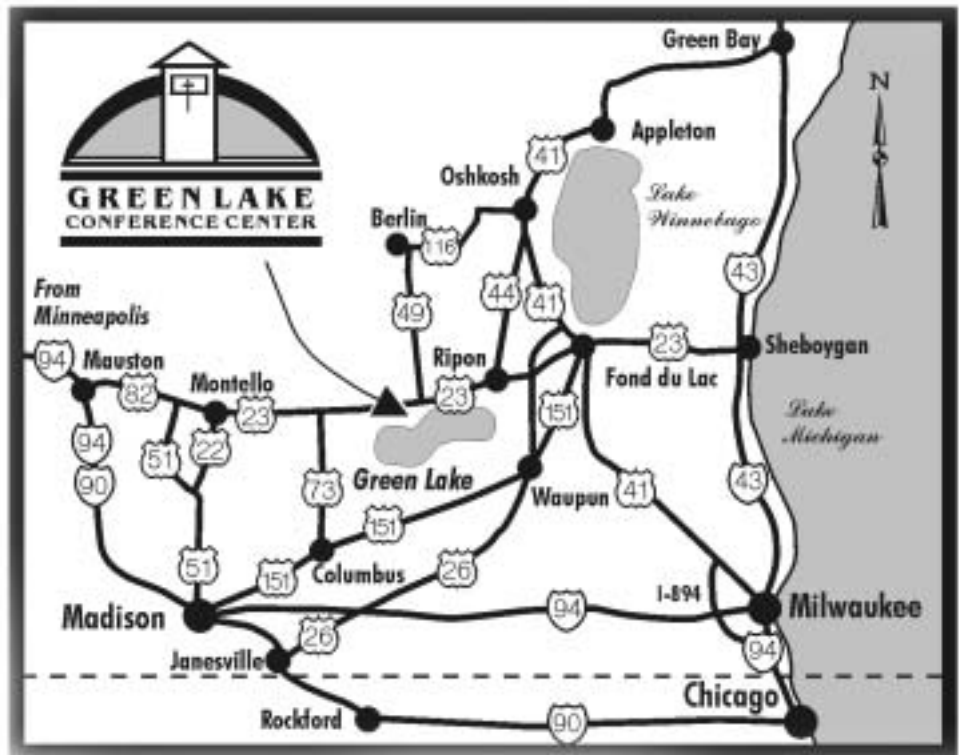
Student Learning



Wisconsin Mathematics Council Inc.

Pre-conference: May 5, 2004  
May 6 -May 7, 2004





The Green Lake Conference Center is west of the village of Green Lake on Highway 23 between Ripon and Princeton. It is located on the south side of Hwy. 23 on the north side of the lake. Call the Conference Center at (800) 558-8898 with questions.

See their web site at [www.greenlake-aba.org](http://www.greenlake-aba.org)

## Directions:

**From Milwaukee:** Drive north on Hwy. 41 to Hwy. 23 at Fond du Lac. Travel west on Hwy. 23 for about 30 miles to the Conference Center.

**From Madison:** Drive north on Hwy. 51 to Hwy. 23. Travel east on Hwy. 23 for about 30 miles to the Conference Center.

**From Oshkosh:** Drive south on Hwy. 44 to Ripon. Travel west on Hwy. 23 for about 10 miles to the Conference.

**From Eau Claire:** Drive south on I-94 to Mauston. Travel east on Hwy. 82 for about 39 miles to Montello. Continue east on Hwy. 23 for about 19 miles to the Conference Center.

## To Royal Ridges of Ripon:

Turn right (east) on Hwy 23 when leaving the Green Lake Conference Center grounds. The facility is on the south side of Highway 23 and sits back from the road.

Directions to Green Lake Conference Center and Royal Ridges.....inside cover

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## WELCOME!



Marge Wilsman, WMC President 2003-2004

Warmest welcome to everyone—speakers, first-timers, and returning attendees. The Wisconsin Mathematics Council is proud to present the 36th Annual Green Lake Conference and even prouder that you have chosen to attend. We hope that you find many sessions filled with new ideas and inspiration for your own professional growth.

Many of Wisconsin's best mathematics teachers are on the program and we thank them for their continued commitment to offering high quality curriculum and lessons so that ALL students are successful with worthwhile mathematics. We welcome some of the nation's top mathematics educators to the conference. We cherish each of you for your contributions to the whole.

Wisconsin mathematics teachers value one another. We learn together—listening carefully to what our state master teachers and national leaders are saying in 2004. We hope that each of you will contribute to the professional conversations that dominate this Green Lake Conference—in the Pillsbury dining hall, under the food tent, in the sessions, in the lodging rooms, at the banquet, or in the car as you drive home again. Talk about quality mathematics education—it's our goal to keep the conversation vibrant and professional. Join us!

A special thank you to Mary Rosin and each member on the Conference Committees. We realize that you worked diligently for the past year to put together this 36th Annual Green Lake conference. My deepest gratitude to each of you for your effort, commitment and caring to offer us a high quality program that is filled with outstanding speakers and topics. Thank you also to all the Committee members who continue to work during the conference and make everything run smoothly. You each deserve a Special Award!

Mary Rosin, 2004 Green Lake Conference Chair  
WMC President Elect

The Wisconsin Mathematics Council continues the tradition of providing top-quality professional development for mathematics educators at all levels with the 36th Annual Green Lake Conference. This year's theme, *Quality Mathematics for All Students: Putting It All Together*, emphasizes three inter-related strands: Teacher Knowledge, Teaching Pedagogy and Student Learning.

Our nationally recognized keynoters, Jerry Mills and Steve Leinwand, will educate, motivate and inspire us to be innovative and adventurous in trying new strategies and techniques to reach all students in our classrooms. Our showcase of successful classroom strategies and activities, presented by both national experts and your colleagues from across the state, means you will come away with ideas to put to work in your classroom Monday morning!

Back by popular demand is the all-day Pre-conference on Wednesday, May 5, devoted to fostering mathematics leaders. We have put together an impressive slate of experts to provide insights, strategies and techniques that support powerful leadership in mathematics education.

Whether you are able to attend for only one day, or for all three, we are confident this year's conference will be a valuable professional development experience!



## Conference Registration

Located in the Pillsbury Lobby, just outside the Exhibit Hall.

Services include:

- Conference Folders
- DPI Equivalency Clock Hours Paperwork (*for more information, see paragraph at right*)
- On-site Registration
- Tickets for WMC Annual Banquet
- General Information

## Conference Registration Hours

Wednesday, May 5  
6:00 pm to 10:00 pm

Thursday, May 6  
7:00 am to 4:30 pm

Friday, May 7  
7:00 am to 3:00 pm

## Conference Folder

You may pick up your folder at several locations throughout the conference center:

- Conference Registration (Pillsbury Lobby)
- Kern Lobby
- Bauer Lobby

The folders contain valuable information about membership, program changes, and the conference evaluation form.

## Exhibit Hall Hours

(located in Pillsbury Hall)

Thursday, May 6  
8:00 am to 4:00 pm

Friday, May 7  
8:00 am to 1:00 pm

## DPI Clock Hours

The Wisconsin Department of Public Instruction has approved the conference for equivalency clock hours. Clock hours paperwork will be available at the following times and locations:

Wednesday Bauer Lobby 3:30–4:00 pm  
(for Wednesday Pre-conference only)

Thursday Pillsbury Lobby 3:00–4:30 pm

Friday Pillsbury Lobby 1:00–4:45 pm

## Information About the Green Lake Conference Center

We are pleased and privileged to hold our annual conference once again at the beautiful Green Lake Conference Center. To make your lodging reservation at the Green Lake Conference Center, please see the information and forms on page 52-54.

This general information applies to everyone attending the conference.

## Alcohol/Smoking

No alcohol is permitted on the Green Lake Conference Center grounds. There is a No Smoking policy in all meeting rooms, lodging rooms, and dining rooms.

## Emergency Number

If someone needs to get in touch with you while you are attending the conference, they can call the Green Lake Conference Center at (920) 294-3323.

## First Aid

In case of emergency, go to the nearest phone and dial 9-911. Also dial 0 to inform the Green Lake Conference Center staff about the emergency. To reach Green Lake Security, dial 0 to reach an operator on the Green Lake grounds.

## Shuttle Bus

Shuttle buses will be available to transport participants between the conference center, outlying parking areas, and the Youth Center on Thursday and Friday.

## Evaluations

Conference evaluation forms are found in the conference folder. Please help us to meet your needs in the future by completing the evaluation form and dropping it in the designated boxes in the RWI Lobby, Kern Lobby, Bauer Lobby, and Pillsbury Lobby.

Session evaluations will be distributed by the presenters. Please complete the evaluations before you leave the session. Return the evaluations to the presenter.

## Meals

Meals on the Green Lake grounds are served in the Lakeview Dining Room which is located in Pillsbury Hall. Tickets (which are reserved at the time you make your lodging reservations, see page 53) are required for all meals eaten in the Lakeview Dining Room.

In addition to the cafeteria style lunch served in the Dining Room (ticket required), box lunches will be available in the Big Top Tent (Thursday and Friday) for cash or meal tickets. You are encouraged to use meal tickets, even in the tent, to reduce long waiting lines.

## Meal Hours

Breakfast (Thurs. & Fri.)	7:00 to 9:00 am
Lunch	11:00 am to 1:30 pm
Dinner (Wed. only)	5:30 to 6:30 pm

**Concession stands** will be open Thursday and Friday. Information on specific times and locations will be included in your Conference folder.

**WMC Annual Banquet** will be Thursday evening starting at 5:30 pm at the Royal Ridges of Ripon. Tickets to the Annual Banquet are complimentary for all conference participants, but you must check the appropriate box on your Conference Registration form.

The **Green Lake Conference Center** is west of the village of Green Lake on Highway 23 between Ripon and Princeton. It is located on the south side of Hwy. 23 on the north side of the lake. Call the Conference Center at (800) 558-8898 with questions.

See their web site at [www.greenlake-aba.org](http://www.greenlake-aba.org)  
For directions, see the inside cover.

# GREEN LAKE 2004 CHAIRS, COMMITTEES, AND MEMBERS

## Conference Chair

Mary Rosin, *Lincoln High School, Wisconsin Rapids*

## Conference Committees and Members

### Building Support

Jim Briselden (Chair), *Retired, St. Francis High School, St. Francis*

Chris Bamberg, *Robinson Middle School, Milwaukee*

Nancy Beck Bamberg, *Webster Middle School, Milwaukee*

### Calculators

Mike Tamblyn, *Whitewater High School, Whitewater*

### Computers

Mike King (Chair), *St. Francis High School, St. Francis*

Butch Bretzel, *St. Francis High School, St. Francis*

### Cover Design

Austin O'Brien, *Student, Lincoln High School, Wisconsin Rapids*

### Folders

Chris Bamberg, *Robinson Middle School, Milwaukee*

Nancy Beck Bamberg, *Webster Middle School, Milwaukee*

### NCTM Materials

Mary Rosin, *Lincoln High School, Wisconsin Rapids*

### Pages

Phil Makurat, *UW-Whitewater, Whitewater*

Melissa Freiberg, *UW-Whitewater, Whitewater*

Susan Kidd, *UW-Whitewater, Whitewater*

Julie Rabideau, *Green Bay School District, Green Bay*

### Pre-conference

Susan Hanson-Otis, *K-12 Mathematics Resource Teacher and Coordinator for Franklin Public Schools, Franklin*

### Program

*See committee listing at right*

### WMC Booth

Barb Meyers, *Phillips Elementary School, Phillips*

### WMC Marketing and Promotions

Jane Fazio, *Waunakee Middle School, Waunakee*

## Program Chair

Mary Rosin, *Lincoln High School, Wisconsin Rapids*

## Program Committee and Members

### Elementary School

Barb Borgwardt, *Galesville Elementary, Galesville*

Karen Falkner, *Mathematics Resource Teacher, Madison Metropolitan School District, Madison*

Carol Otto, *Math Resource Teacher, Wausau School District, Wausau*

Lori Williams, *Jackson Elementary School, Manitowoc*

Elaine Zarcone, *Westfield School District, Oxford*

### Middle School

Vicky Hay, *Mosinee Middle School, Mosinee*

Missy Henneman, *East Junior High, Wisconsin Rapids*

Jane Patterson, *Greendale Middle School, Greendale*

Tony Pickar, *Math Curriculum Coordinator, DC Everest Schools*

### High School

Barb Bredel, *Crandon High School, Crandon*

Donna Burrell, *Washington High School, Milwaukee*

Pete Dignan, *De Pere High School, De Pere*

Angela Ford, *Milwaukee Urban Systemic Initiative, Milwaukee*

Susan Hanson-Otis, *K-12 Math Resource Teacher and Coordinator for Franklin Public Schools, Franklin*

Karen Reiss Wilcox, *Germantown School District, Germantown*

### Post Secondary

Judy Jones, *Madison Area Technical College, Madison*

Jo Ingle, *UW-Eau Claire, Eau Claire*

Marty Schuh, *UW-Manitowoc, Manitowoc*

### Mathematics Leadership

Susan Hanson-Otis, *K-12 Math Resource Teacher and Coordinator for Franklin Public Schools, Franklin*

Diana Kasbaum, *Wisconsin Department of Public Instruction, Madison*

### WMC Past President

Marty Schuh, *UW-Manitowoc, Manitowoc*

### Scheduling

Jim Briselden, *Retired, St. Francis High School, St. Francis*

WMC Executive Services, *Thiensville*

### Building Support Committee

Located in the Bauer, Carroll Youth Center, Kern, and Roger Williams Inn lobbies, committee members will aid conference attendees having questions and needing directions. There are no “Ticketed Sessions” this year. Committee members will place “Session Full” signs at session entrances and aid participants in finding alternative sessions. They will also confer with speakers and collect evaluations.

### Meet and Greet at WMC Booth

The Wisconsin Mathematics Council booth, located in the Pillsbury Hall lobby, will be the official welcome and information center for this year’s conference. Members of the WMC Board of Directors, Membership and Marketing committee, and dedicated member volunteers will be on hand to welcome you to Green Lake and answer your conference questions.

### Door prize drawings throughout the conference!

Many of our exhibitors have generously donated door prizes to be given away at the conference. Every few hours we will draw winners’ names and post them at the WMC Booth. Door prizes can be picked up in the exhibit hall before 1 pm on Friday. Check back frequently to see if you are among the lucky winners!

You will also be able to purchase WMC logo items at the booth including: denim shirts, CD cases, insulated lunch sacks, T-Shirts, Tumblers and more. In addition, you will find membership applications, summer workshop registration materials, and more.

### Two Special Events

The Green Lake experience would not be complete without plenty of opportunity for informal networking. All conference participants are invited to join us at two socials. You won’t want to miss these two evenings of friends, food and fun. Please plan to attend!

#### Welcoming Social

Wednesday, May 5, 2004, from 7:00 pm to 9:00 pm

Morehouse C, Bauer Lodge

Join us for an informal gathering to catch up with old friends, meet some new people and enjoy a wide variety of finger food. The evening’s entertainment will feature Eric Schluter’s presentation of the WMC 25-year awards. Eric’s presentation includes “Name That Tune” and a nostalgic look back at where we were 25 years ago. It is a favorite Green Lake tradition you won’t want to miss!

#### WMC Annual Banquet

(featuring ComedySportz)

Thursday, May 6, 2004

Royal Ridges of Ripon

Doors open at 5:30 pm for drinks and socializing

Sit-down dinner served at 6:30 pm

ComedySportz at 8:00 pm

Thursday night’s annual banquet at the Royal Ridges of Ripon is a perfect opportunity to enjoy a lovely dinner in the company of friends and colleagues, honor and recognize the achievements of mathematics educators and students throughout the state, and let our hair down as we “get into the act” of a special ComedySportz presentation.

The banquet will be emceed by Mike Weidner. We will recognize our three scholarship recipients, the Distinguished Math Educator Award recipients and Wisconsin’s Presidential Awardees.

Our entertainment will be provided by Milwaukee’s ComedySportz—an improv group that promises to present fun and games with a distinctive “math teacher” twist. Audience participation is encouraged! Please plan to join us!

# Enhancing Leadership Effectiveness in Mathematics Education

Participants must enroll for the day. Drop-ins for various parts will not be possible.

## Presenters



Margaret Schwan Smith is an Associate Professor in the Department of Instruction and Learning in the School of Education at the University of Pittsburgh. Dr. Smith has authored several books including, *Practice-Based Professional Development for Teachers of Mathematics* (NCTM, 2001), which explores a particular type of professional development that connects the on-going professional development of teachers to the actual work of teaching. Dr. Smith's primary interest as a mathematics teacher educator is in the professional education of teachers of mathematics. In this work she takes seriously issues of teacher learning in an effort to add to the knowledge base of what good professional development is and how one does it. As such, her work lies on the boundary between research and practice where she both conducts research and uses the findings of research both as the basis for improved practices in teacher education and for new research. Dr. Smith was recently appointed to serve as a member of the National Council of Teachers of Mathematics Professional Development Services Committee (2003-2005).

Gary Appel serves as Senior Professional Development Associate with the North Central Eisenhower Mathematics and Science Consortium at Learning Point Associates (LPA) in Naperville, Illinois. Appel leads LPA's Lesson Study activities and is working with Lesson Study facilitators and teacher teams in Columbus, Ohio, northern Michigan, and Detroit. He has provided professional development on Lesson Study to numerous school districts as well as at several national and state conferences. Appel is co-author of *The Growing Classroom* (Pearson Learning, 2001), lead author of *Teacher to Teacher: Reshaping Instruction Through Lesson Study* (NCREL, 2002) and co-principal investigator in the creation of the K-5 curriculum series *Life Lab Science* (Videodiscovery, 1992).



DeAnn Huinker directs the Center for Mathematics and Science Education Research at the University of Wisconsin-Milwaukee and is an Associate Professor of mathematics education in the Department of Curriculum and Instruction. She has been at UWM since 1990 after receiving her doctorate in mathematics education from the University of Michigan and her master's degree at the University of Northern Iowa. DeAnn has chaired the editorial panel for *Teaching Children Mathematics* and is currently editor of a new journal department on "Supporting Teacher Learning." She is a member of the *Assessment Sampler Task Force* for the National Council of Teachers of Mathematics and is chairing the Pre-K-2 writing group. DeAnn was a core advisor to the Annenberg *Teaching Math* video library project and more recently an advisor and case studies developer for the Annenberg *Learning Math* video- and web-based course development project.

Janis Freckmann is a Mathematics Teaching Specialist for the Milwaukee Mathematics Partnership grant in the Milwaukee Public Schools. Janis is a district specialist and trainer in Cognitive Coaching for equipping teachers and administrators with skills that promote mathematical conversations in regards to the teaching and learning of mathematics. She has been a mentor teacher for beginning teachers, a math/science resource teacher for the NSF Milwaukee Urban Systemic Initiative, an elementary school teacher, and a school implementor. Janis is also a member of the national advisory board for the Investigations Revisions project directed by Susan Jo Russell at TERC and is currently managing a pilot of the revised curriculum at several sites in the Milwaukee Public Schools. Her latest article, "Focusing Conversations to Promote Teacher Thinking" is published in *Teaching Children Mathematics*.





The 2004 Green Lake Pre-conference is designed to bring Wisconsin leaders in mathematics education together for growth and development. The goal for the day is to provide staff development to equip teachers to return to their districts with knowledge that can help them grow professionally as teachers and leaders of mathematics.

### Who Should Attend the Pre-conference?

- Mathematics leaders and coordinators
- High-school mathematics department chairs
- Grade-level team leaders
- Classroom teacher leaders
- Chairs of mathematics committees
- Potential mathematics leaders
- Mathematics Resource Teachers
- Principals, Curriculum and Instruction Directors with the responsibility for mathematics
- Professional Development staff

Throughout the state of Wisconsin, more and more teachers are adopting leadership roles at the school or district level. Often these new roles are the result of movement toward a more standards-based mathematics program. The Wisconsin Mathematics Council in its ongoing attempt to meet the needs of K-12 mathematics teachers has worked with the Wisconsin Mathematics Leadership Council to plan this day. This pre-conference will provide teacher leaders with skills and knowledge that will support their growth as leaders.

The Wisconsin Mathematics Leadership Council developed from the loosely structured Mathematics Coordinators group. This group has historically supported teacher leaders. This pre-conference is an effort to formalize that support and create momentum for future actions.

## PRE-CONFERENCE SCHEDULE

7:30 REGISTRATION

8:00 CONTINENTAL BREAKFAST

8:30 **Welcome and Vision for the Day**

Marge Wilsman, *University of Wisconsin, Madison, WI*  
2003-2004 WMC President

8:45 **Using the Practice of Teaching as a Basis for the Professional Development of Teachers: Tasks that Promote Learning and Reflection**

Margaret Schwan Smith, *Associate Professor, Department of Instruction and Learning, University of Pittsburgh, Pittsburgh, PA*

This session will focus on an approach to the professional education of mathematics teachers that situates teacher learning “in practice.” In this view, materials that depict the work of teaching (e.g., student work, mathematics instructional tasks, and classroom episodes) are used as sites for critique, inquiry, and investigation. Professional learning tasks which draw on practiced-based materials will be explored.

11:45 Lunch

1:00 **Choice Sessions: Choose one.**

1. **The Lesson Study: Understand Students’ Thinking, Improve Students’ Learning**

Gary Appel, *Senior Professional Development Associate, Learning Point Associates, Naperville, IL*

Lesson Study has been at the core of Japanese teachers’ professional growth for decades. In Lesson Study, small groups of teachers work together to plan, teach, observe, refine, and re-teach a single lesson on a concept that is challenging to teach or hard for their students to understand. The Lesson Study process creates an opportunity for in-depth study of teaching, learning, and student thinking embedded in the participating teachers own classrooms. Come and learn about Lesson Study and how it can enrich your professional life and that of your colleagues while supporting student learning. This session will be highly interactive.

2. **Cognitive Coaching: Tools and Frameworks for Building Effective Coaching Conversations**

DeAnn Huinker, *Department of Curriculum and Instruction, UW-Milwaukee, Milwaukee, WI*

Janis Freckmann, *Milwaukee Public Schools, Milwaukee, WI*

What is the mathematics children are learning in the lesson? How will you know students are learning mathematics? Why use this lesson for this learning goal? Drawing from the work of *Cognitive Coaching*<sup>SM</sup> (Costa & Garmston, 2002) and *Content-Focused Coaching*<sup>SM</sup> (West & Straub, 2003), participants will learn coaching strategies as a professional development model. These strategies promote collegial conversations to guide teacher decision-making about student learning in the planning of and reflecting on math lessons.

This session will address developing the tools of effective questioning and paraphrasing and learning frameworks for structuring conversations.

4:00 ADJOURN

## SPECIAL MEETINGS

### Wisconsin Mathematics Leadership Council

(Formerly the Wisconsin Mathematics Coordinators)

Wednesday, May 5 ■ 6:00 pm to 7:30 pm

RWI-Veranda Dining Room

Anyone serving in a leadership capacity in your district or school (Math Coordinator, District/Building Math Curriculum Leaders, Math Department Chairs) is invited to attend. You may pick up your dinner from the Pillsbury Hall Lakeview Dining Room (ticket required) or bring your own and come to the Roger Williams Inn Veranda Dining Room. Enter the Veranda Dining Room via the Crystal Room entrance.

### First Timers' Welcome/Orientation

Thursday, May 6 and Friday, May 7  
(same program repeated on both days)

7:00 am to 7:45 am

Pillsbury Hall-Lakeview Dining Room

Come and get acquainted with the conference and meet new friends. We will look over the program together, help you get started selecting appropriate sessions, and answer questions. Look for the table signs telling you where to bring your breakfast.

### CALCNET-WI Reunion

Thursday, May 6 ■ 7:00 am to 7:45 am

RWI-Veranda Dining Room

CALCNET-WI Reunion will be held during breakfast. Pick up your breakfast in the Lakeview Dining Room (ticket required) or bring your own. Enter the Veranda Dining Room via the Crystal Room entrance.

### WMC Presidents' Luncheon

Thursday, May 6 ■ 12:00 pm to 1:30 pm

RWI-Veranda Dining Room

This is a luncheon for all past, present and elected future presidents of the Wisconsin Mathematics Council, Inc. Pick up your meal in the Lakeview Dining Room (ticket required), in the tent (ticket or cash), or bring your own, and come to the RWI-Veranda Dining Room. Enter the Veranda Dining Room via the Crystal Room entrance. Come and meet old friends. Bring your ideas for future directions for the Wisconsin Mathematics Council. Discussion will start at 12:30 pm.

### Wisconsin Mathematics Council, Inc., Annual Meeting

Thursday, May 6 ■ 4:45 pm to 5:30 pm

Bauer-Morehouse B/C

This is the annual meeting of all Wisconsin Mathematics Council, Inc., members. Join us and become a more active member in our organization.

### NPRIME Breakfast

Friday, May 7 ■ 7:00 am to 9:00 am

RWI-Crystal Room

Join us for breakfast with Gail Burrill, Michigan State University, East Lansing, MI. Following breakfast there will be a presentation by Gail on the work on the Texas Instruments publication: *Handheld Graphing Technology in Secondary Mathematics: Research Findings and Implications for Classroom Practice*. Gail was director of the project that prepared this report.



She will share with us the framework used to synthesize the peer-reviewed, published research that addressed questions related to the use of handheld graphing technology in teaching and learning secondary mathematics. She will share the findings related to how this technology can be used to make a difference in student achievement. The findings, culled from an international search, have implications for classroom practice that should be considered by teachers who use hand-held graphing technology in their classrooms.

Make your breakfast reservations by contacting Anne Frihart, NPRIME Project Assistant at 608-644-9244, or online at [afrihart@wasdinet.org](mailto:afrihart@wasdinet.org).

NPRIME participants do not need to purchase a ticket from the Green Lake Conference for this meal.

All Keynote presentations will be held in Bauer-Morehouse B/C



Jerry Mills

**Jerry Mills** is an internationally acclaimed educator, singer/songwriter and motivational trainer who shares an intensely personal look at the challenges faced by youth. As a child, he experienced the “failures, fears and frustrations” of some nameless problem. These experiences led him to pursue a career as a teacher. It was as a teacher that Jerry discovered the real cause of his lifelong struggles with learning—a discovery that would change his life. Today, Jerry has become a leader in an effort to train and educate teachers, parents, and anyone struggling with youth. Presenting educational workshops and training full time, he is regularly featured at a wide range of state and national conferences. A talented and prolific songwriter and storyteller, his work vividly captures a broad range of human experience and emotional encounters with the challenges of life.

Don't Doubt the Dream	Session 125	Thursday, 10:00–11:30 am
Repeated as	Session 201	Thursday, 1:00–2:30 pm

**Steve Leinwand** recently joined AIR's Assessment Program. Previously he served as mathematics supervisor with the Connecticut Department of Education, where he was responsible for various activities, including curriculum development, professional development, program evaluation, and student and teacher assessment, as they relate to the improvement of school mathematics. He served in this position for 22 years. For the past year he has worked as an independent contractor to the National Council of Teachers of Mathematics (NCTM), serving as project director for the NCTM/Duke Energy “Reflections” Professional Development Web-site project.



Steve Leinwand

Steve has served in a number of leadership positions for national organizations and most recently completed a three-year term on the NCTM Board of Directors. He is also a senior author of Scott Foresman Addison Wesley's K-8 mathematics program. He has written numerous articles, and recently published a new book, *Sensible Mathematics: A Guide for School Leaders*. Among his interests are alternative assessments, reform strategies, development and support of change agents, and leadership strategies for overcoming obstacles to change.

Ten Practical Instructional Strategies for Boosting Learning and Test Scores	Session 329	Friday, 10:00–11:30 am
Repeated as	Session 402	Friday, 1:00–2:30 pm



**Wisconsin  
Mathematics  
Council**

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**Marge Wilsman**  
*University of Wisconsin  
Madison*

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*Lincoln High School  
Wisconsin Rapids*

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*UW-Manitowoc  
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*Waunakee Middle School  
Waunakee*

**Pat Madsen**  
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Augusta*

**High School Representatives**

**Barb Bredel**  
*Crandon High School  
Crandon*

**John Janty**  
*Waunakee High School  
Waunakee*

**K-12 Supervisor**

**Sue Hanson-Otis**  
*Franklin School District  
Franklin*

**College/University  
Representative**

**Linda Uselmann**  
*Edgewood College  
Madison*

**WTCS Representative**

**Judy Jones**  
*Madison Area Technical College  
Madison*

**Statewide Representatives**

**Butch Bretzel**  
*St. Francis High School  
St. Francis*

**Pete Dignan**  
*De Pere High School  
De Pere*

**Ex officio**

**Bill Breisch**  
*Monona Grove School District  
Monona Grove*

**Diana Kasbaum**  
*WI Department of Public Instruction  
Madison*

**Beth Schefelker**  
*H.D. Thoreau Elementary School  
Milwaukee*

**Cory Anshus**  
*WMC Executive Services  
Thiensville*

## SCHEDULE OVERVIEW

### Wednesday ■ May 5, 2004

- 7:30 am Pre-conference Registration
- 8:00 am Continental Breakfast
- 8:30 am Pre-conference Begins
- 11:45 am Lunch
- 12:00–10:00 pm Exhibitor Set Up
- 3:30–4:00 pm DPI Clock Hours Forms Available (for Pre-conference only)
- 5:30–6:30 pm Dinner
- 6:00–10:00 pm Conference Registration
- 6:00–7:30 pm Mathematics Leadership Council Meeting
- 7:00–9:00 pm Welcoming Social

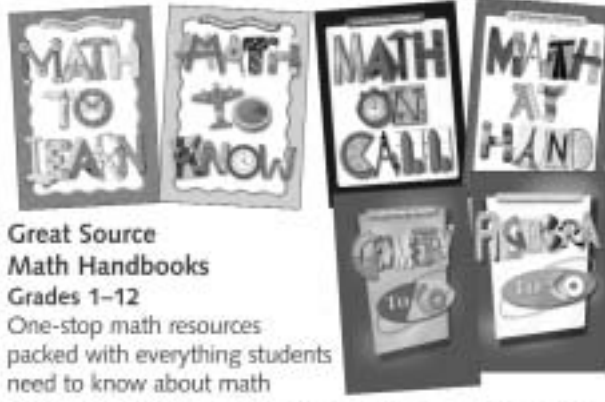
### Thursday ■ May 6, 2004

- 7:00 am–4:30 pm Conference Registration
- 7:00–7:45 am First Timers' Orientation
- 7:00–7:45 am CALCNET-WI Reunion
- 7:00–9:00 am Breakfast
- 8:00 am–4:00 pm Exhibits
- 11:00–1:30 pm Lunch
- 12:00–1:30 pm WMC Presidents' Luncheon
- 3:00–4:30 pm DPI Clock Hours Forms Available
- 4:45–5:30 pm WMC Annual Meeting
- 5:30–9:30 pm WMC Annual Banquet (featuring ComedySportz) at Royal Ridges of Ripon

### Friday ■ May 7, 2004


- 7:00 am–3:00 pm Conference Registration
- 7:00–7:45 am First Timers' Orientation
- 7:00–9:00 am Breakfast
- 7:00–9:00 am NPRIME Breakfast
- 8:00 am–1:00 pm Exhibits
- 11:00 am–1:30 pm Lunch
- 1:00–4:45 pm DPI Clock Hours Forms Available

### Effective Economical Math Resources




**Great Source Math Handbooks**  
Grades 1–12  
One-stop math resources packed with everything students need to know about math

**Ideal companions to the math handbooks—**



**Math Problem Solving Books**  
Grades 3–8  
Engaging, meaningful math activities to build students' word problem solving skills



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## Take note of it!

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# Math

**The right math,  
the right way,  
the right results**




McDougal Littell invites you to explore math activities with national math consultant Tim Trapp. Discover a whole collection of activities to help motivate your students during Tim Trapp's presentation, "Notetaking for Success."

*For more information, contact*

**Greg Slook**  
South Wisconsin  
414.766.0648  
greg\_slook@hmco.com

**Kent Berger**  
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**McDougal Littell**  
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800-323-5435  
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**BREAKFAST MEETINGS**

**THURSDAY**

7:00-9:00 am

Pillsbury-Lakeview  
Dining Room

**Breakfast**

Please arrange for meal tickets with the Green Lake Conference Center. You may use the form on page 53.

7:00-7:45 am

Pillsbury-Lakeview  
Dining Room

**First Timers' Welcome/Orientation**

Come and get acquainted with the conference and meet new friends. We will look over the program together, help you get started selecting appropriate sessions, and answer questions.

7:00-7:45 am

RWI-Veranda  
Dining Room

**CALCNET-WI Reunion**

Pick up your breakfast in the Lakeview Dining Room or bring your own. Enter the Veranda Dining Room via the Crystal Room entrance.

**90 MINUTE WORKSHOPS**

**THURSDAY**

100 8:00-9:30 am  
Youth Center- Huber/Evans  
Grades PK-16

**Leave No Educator Behind—Wisconsin Directions in Mathematics Assessment**

Diana Kasbaum, *Department of Public Instruction, Madison, WI*

The rigors and frequency of assessment in mathematics are changing due to the mandates of No Child Left Behind. Beginning the fall of 2005, Wisconsin students in grades 3-8 and 10 will be assessed yearly in mathematics. This workshop is an informative and interactive opportunity to become more knowledgeable about Wisconsin's assessment development process and changes that will be implemented, as well as available electronic resources.

101 8:00-9:30 am  
RWI-Crystal Room  
Grades 3-5

**Mathematics for All**

Lori Williams, *Manitowoc Public Schools, Manitowoc, WI*

Varied levels of readiness, varied interests, and varied learning profiles—students in our mathematics classes have many diverse needs, yet it is our job to challenge each child appropriately and help all students to continue to grow in their understanding of mathematical concepts and in fluency of skills. Participants will be introduced to strategies for differentiating instruction including varied questions, flexible grouping, and compacting in order to meet the diverse needs of students in heterogeneously-grouped classrooms.

102 8:00-9:30 am  
RWI-Veranda Room  
Grades 3-6

**All These Parts Make a WHOLE!**

Janis Freckmann, *Milwaukee Public Schools, Milwaukee, WI*

Connie Laughlin, *Mequon Thiensville School District, Mequon, WI*

Learn games and activities that can be used to deepen children's understanding of fractions: visual images, equivalence and operations of addition and subtraction.

## 90 MINUTE WORKSHOPS

THURSDAY

103 8:00-9:30 am  
Lawson-Martin  
Luther King, Jr.  
Grades 3-8

## Meeting the Needs of the Mathematically Gifted Child

Ed Zaccaro, *Dubuque Schools, Dubuque, IA*

Are you finding it difficult to meet the needs of children who are mathematically gifted in the typical classroom setting? Even in schools that group by ability, the pace is often too slow and acceleration isn't always the answer. This session will show teachers, parents and administrators a way to not only challenge mathematically gifted children, but also to show them a wonderful and exciting side of math and science. This approach, which integrates astronomy, biology, and physics, can be used in tandem with a standard math curriculum or can be used by a math mentor or resource teacher for pull-out programs.

104 8:00-9:30 am  
Kern-Brown  
Grades 6-8

## Don't Just Teach 'em, Reach 'em

Laurie Smock, *Holt, Rinehart and Winston, Austin, TX*

Learn to use multiple representations in your classroom to reach your students. Walk away with more than 30 activities you can use tomorrow.

105 8:00-9:30 am  
Kern-Cary  
Grades 6-16

## Secrets of the Ancients

Robert Kleckner, *Two Rivers High School, Two Rivers, WI*

Have you ever wondered how the great mathematicians of the past were able to do complex mathematical processes so easily, while in modern times we seem to struggle to achieve enlightenment? This presentation will address this question by using brain-based techniques to reveal just a few of the secrets that can help us to understand very complex mathematical concepts with the same ease as ancient mathematicians. Modern technology (graphers and computers) will be incorporated whenever appropriate to enhance brain understanding.

106 8:00-9:30 am  
Bauer-Beaty  
Grades 9-12

## Appssolutely Stupendous!

Judy Hicks, *Ralston Valley High School, Arvada, CO*

Come see the greatest show on earth and experience some of the applications available on the TI-83+.

107 8:00-9:30 am  
Youth Center-  
Oliver DeWolf Cummings  
Grades 9-12

## Calculator Robot Cars: Put Your TI-Calculator on Wheels

Robert Hillestad, *Appleton North High School, Appleton, WI*

Tammy Gleason, *Appleton North High School, Appleton, WI*

Participants will learn how to use their TI-calculators to "drive" robot cars made by Morland Research. The workshop presenters use these "robot-cars" with students in the areas of algebra, geometry, and problem solving.

90 MINUTE WORKSHOPS

THURSDAY

108 8:00-9:30 am  
Bauer-Morehouse A  
Grades 9-12

### Developing a Rich Mathematics Class

Beth Ritsema, *Western Michigan University, Kalamazoo, MI*

Participants will consider the characteristics of a “rich” mathematics class and discuss selected video clips of a class studying the *Core-Plus* mathematics curriculum to consider ways to promote student thinking.

109 8:00-9:30 am  
Bauer-Lightbody  
Grades 9-16

### Sketching “Area Functions” in AP Calculus

Bruce MacMillan, *University of Colorado at Denver, Denver, CO*

Functions defined as definite integrals are an important topic in the AP Calculus curriculum. We will look at these functions geometrically and also see some of their applications.

60 MINUTE SESSIONS

THURSDAY

110 8:00-9:00 am  
RWI-Mahaney  
Grades PK-2

### Patterns are Everywhere

Porter Coggins, *UW-Stevens Point, Stevens Point, WI*

Pattern searching and pattern making are innate abilities that allow us to speak, write, and appreciate life in many forms. Prior to number competency children are expert pattern makers. We will look at examples of pattern making that will support children’s natural pattern processing abilities and provide a foundation for developing number sense.

111 8:00-9:00 am  
Kern-Hanson  
Grades PK-5

### Good Read, But What’s the Math?

Becky Pagel, *Hawthorn Hills Elementary, Wausau, WI*

In recent years there has been an explosion of children’s books published with a math theme. How do you find the ones with meaningful mathematical content and how do you use them effectively in your classroom? This session will offer suggestions.

112 8:00-9:00 am  
Bauer-LaDue  
Grades 6-8

### Cooperative Learning Strategies for Your Classroom

Joan Unmacht, *Hamilton Middle School, Madison, WI*

Janet Pliner, *Hamilton Middle School, Madison, WI*

Come and get many practical ideas for implementing cooperative learning in a *Connected Math Project* (CMP) classroom. Presenters will share proven strategies that will help students to work together effectively and maximize their learning.



60 MINUTE SESSIONS

THURSDAY

113 8:00-9:00 am  
Kern-Boehr  
Grades 6-12

## Math and Language! Implementation of Oral Assessments in the Middle/Secondary Classroom

Laura Moranchek, *School District of Waukesha, Waukesha, WI*

Jim Truszynski, *School District of Waukesha, Waukesha, WI*

Looking for something different? Come and see how “Oral Assessments” in mathematics are being implemented at the middle/secondary level. Find out how this form of assessment is currently being used to encourage higher level thinking and to promote creative problem solving. Student self assessment, rubrics and feedback forms will be shared.

114 8:00-9:00 am  
Kern-Johnson  
Grades 6-12

## Increasing Academic Achievement Through Goal Setting and Self Monitoring

Lucia Rowley, *Madison Metropolitan School District, Madison, WI*

This presentation will provide you with a four-step process which includes goal setting, self monitoring and accountability to parents.

115 8:00-9:00 am  
RWI-McGarvey  
Grades 6-12

## Get in Line

Mike Weidner, *Nicolet High School, Glendale, WI*

We will cover one standard problem (shoe size vs. height) using a TI-83 graphing calculator. As time allows, we will discuss other class activities for the graphing calculator and overhead unit. This session will be beneficial for graphing calculator novices. (This is a repeat of the session Mike gave last year at Green Lake.)

116 8:00-9:00 am  
Bauer-Boddie  
Grades 9-12

## Lies My Graphing Calculator Told Me

Ron Larson, Ph.D., *Penn State University, Erie, PA*

Graphing calculators are wonderful tools for teaching and learning mathematics. But, they can give pictures that are deceiving. This presentation gives several examples of deceiving pictures that students can encounter with a graphing calculator. The presentation stresses the importance of combining analytic techniques with graphical techniques when interpreting the graphs displayed by a graphing calculator.

3 HOUR EXTENDED WORKSHOPS

THURSDAY

117 8:30-11:30 am  
Kern-Stansbury  
Grades PK-5

## Implementing CGI in the Classroom

Christopher Weinhold, *Wisconsin Rapids Public Schools, Wisconsin Rapids, WI*

Jacque Weinhold, *Wisconsin Rapids Public Schools, Wisconsin Rapids, WI*

An introduction to Cognitively Guided Instruction (CGI) will be provided along with a discussion on implementing it in the classroom. Information presented will be from the perspective of a kindergarten and 4th grade teacher.

3 HOUR EXTENDED WORKSHOPS

THURSDAY

118 8:30-11:30 am  
Kern-Brayton Case B  
Grades 3-12

## Friendly Spreadsheets for Visual Learning

Jeff Horney, *Oregon School District, Oregon, WI*

Learn to create Excel or Appleworks spreadsheets that provide colorful, user-friendly methods for illustrating mathematical concepts for your students. This visual learning tool combines calculator functions with instant graphs to illustrate numerical results. You will see examples from teachers' classrooms and be able to create your own from scratch. See <http://elit.oregon.k12.wi.us/lessons.html> for examples.

119 8:30-11:30 am  
Kern-Brayton Case A  
Grades 9-12

## The Many Uses of TI Interactive! Software

Lauren Jensen, *Wisconsin Heights High School, Mazomanie, WI*

Laura Bakken, *Wisconsin Heights High School, Mazomanie, WI*

Come join us in finding out the many uses of *TI Interactive!* Participants will have hands-on experience with how to use the software for creating tests, inserting graphs and equations, creating web-quests with hyperlinks, inserting sliders for student exploration of functions and much more...

90 MINUTE WORKSHOPS

THURSDAY

120 9:30-11:00 am  
Kern-Hanson  
Grades PK-2

## Building the Base: Number Sense for Primary Grade Students

Carrie Valentine, *Madison Metropolitan School District, Madison, WI*

This presentation will provide an overview of the research behind the *Number Worlds* program and provide examples of what happens in a *Number Worlds* classroom.

60 MINUTE SESSIONS

THURSDAY

121 9:30-10:30 am  
Kern-Boehr  
Grades PK-12

## Up for a Challenge? Consider National Board Certification!

Missy Henneman, *Wisconsin Rapids School District, Wisconsin Rapids, WI*

Tina Wallner, *Wisconsin Rapids School District, Wisconsin Rapids, WI*

Two National Board Certified teachers (one middle childhood certified and one early adolescent math certified) will share their experiences. Participants will access the National Board web site and time will be allocated for questions.

122 9:30-10:30 am  
Bauer-LaDue  
Grades PK-12

## How Effective Is Your Math Program?

Harlan Weber, *Sheboygan Area School District, Sheboygan, WI*

The two-year review process (timeline, surveys, documentation, external team visit) used by the Sheboygan Area School District to evaluate the effectiveness of its EC-12 mathematics program will be shared with participants.

123 9:30-10:30 am  
RWI-Mahaney  
Grades PK-8

## Math and Literature: Making the Connection

Mary Lou Harris-Manske, *Stevens Point Schools, Stevens Point, WI*

This presentation will share current and classic children's literature that will enhance the math curriculum. Surefire books to spark students enthusiasm connecting math concepts and stories.

## 60 MINUTE SESSIONS

THURSDAY

124 9:30-10:30 am  
Kern-Johnson  
Grades 9-12

## Engagement—More than Just “Feel Good” Mathematics

Henry Kranendonk, *Milwaukee Public Schools, Milwaukee, WI*

*Adding It Up* calls it “productive disposition.” Many teachers simply refer to the ultimate goal in reaching their students as “engagement.” Engagement is not just having fun with mathematics, nor is it just a well-behaved class. Engagement describes the connection a student has made with the content of mathematics. How can engagement be part of a teacher’s planning? How do we know when it is achieved? Can mathematics really be engaging for all students? Reactions and a sharing of ideas to these questions and more will be the focus of this session. Examples will be provided specifically for the difficult to reach high school student.

## 90 MINUTE WORKSHOPS

THURSDAY

125 10:00-11:30 am  
Bauer-Morehouse B/C  
Grades PK-16  
KEYNOTE

## Don’t Doubt the Dream... Reaching and Teaching ALL Young People

Jerry Mills, *Educator/Motivator, Marquette, MI*

Hang onto your chair...and your heart!

Audiences know from the very first song that this training is unlike anything they have ever experienced. The opening song, *What You See*, strikes an indelible chord, setting the stage for a thought provoking discussion about perspective, perception and attitude. Jerry draws audiences into an unforgettable experience of research, stories and songs illustrating the tremendous struggle kids undergo and the many problems that arise in trying to meet those needs.

(Repeated as session 201)



126 10:00-11:30 am  
Youth Center-  
Huber/Evans Room  
Grades PK-12

## Foldables Workshop with Dinah Zike

Dinah Zike, *Dinah-Might Adventures, LP, San Antonio, TX*

Macmillan and Glencoe are proud to present nationally recognized author/speaker Dinah Zike in one of her fabulous “Foldables” workshops! Foldables are interactive 3-D study organizers. Students create these quick effective study tools. They help your students organize concepts, review, and remember information. They allow for students to use their visual and kinesthetic talents while reinforcing important thinking and communication skills. This is a hands-on session, your chance to be a kid again! Join us, and take home activities for Monday.

127 10:00-11:30 am  
RWI-Crystal Room  
Grades PK-5

## Mathematics Games: Why, What, When, Where, How?

Janice Gratch, *Madison Metropolitan School District, Madison, WI*

During this workshop participants will play and evaluate a variety of math games to determine the important mathematical ideas and understandings the games promote. We will also talk about the value of games, when to use games, and possible modifications.

90 MINUTE WORKSHOPS

THURSDAY

128 10:00-11:30 am  
Bauer-Morehouse A  
Grades PK-2

## Exploring Data in the Primary Classroom

David Whitin, *Wayne State University, Detroit, MI*

Phyllis Whitin, *Wayne State University, Detroit, MI*

Gathering, representing and interpreting data are crucial skills in today's information world. The speakers will share strategies for supporting children to represent data in their own way, and to engage in critical conversations about this data with their classmates. Samples of children's work and a classroom video will help to highlight some of these major points.

129 10:00-11:30 am  
Kern-Brown  
Grades 3-5

## Chances Are...

Elaine Zarcone, *Westfield School District, Oxford, WI*

Hands-on, practical activities will help your students appreciate the importance of this strand of mathematics. Become more comfortable with the vocabulary and use dice, tiles, spinners and cards to connect probability to real life situations.

130 10:00-11:30 am  
Kern-Cary  
Grades 8-12

## Beyond Mean, Median, and Mode

Corey Andreasen, *Kiel High School, Kiel, WI*

Sarah Mooren, *Kiel High School, Kiel, WI*

Joan Radue, *Kiel High School, Kiel, WI*

Kristi Koshuta, *Kiel High School, Kiel, WI*

Activities from the IMP Curriculum that develop statistical reasoning. Bring a graphing calculator!

131 10:00-11:30 am  
Bauer-Beaty  
Grades 9-12

## Data Collection Labs: Just Getting Started? We Can Help!

Jeff Bruggink, *Wausau West High School, Wausau, WI*

Karen Hill, *Wausau West High School, Wausau, WI*

This session will provide a hands-on introduction to using data collection labs in your math classroom. Collecting data, graphing on the TI-83, building an equation of best fit, and predicting future trends increases student understanding as well as their interest in math class. We will share a series of labs appropriate for all levels of secondary math classes.

132 10:00-11:30 am  
RWI-McGarvey  
Grades 9-12

## Ideas to Reduce Failure with At-Risk Populations

Tracy Frank, *Middleton Cross Plains Area Schools, Middleton, WI*

Participants will consider a variety of case studies of disinterested, unconfident, at-risk students. We will discuss interventions and ways to support these students and ideas for your own students.

90 MINUTE WORKSHOPS

THURSDAY

133 10:00-11:30 am  
Bauer-Lightbody  
Grades 9-12

## When Are We Gonna Do Something Fun? Right Now!

Laurie Schroeder, *Pacelli High School, Stevens Point, WI*

Projects and activities for Trigonometry, Advanced Math and AP Calculus. Find Circumference of Earth, Probability Carnival, Mission Maximization, Wasted Can Size Or Not? Come find your Suck Power of a Tootsie Pop....and much more!

134 10:00-11:30 am  
Bauer-Boddie  
Grades 9-16

## When Will We Even Use This? All the Time!

Clare Hemenway, *UW-Marathon, Wausau, WI*

Richard Oakland, *UW-Fox Valley, Menasha, WI*

Marty Schuh, *UW-Manitowoc, Manitowoc, WI*

For the last six years, the UW Colleges have offered Quantitative Reasoning, an applications-oriented mathematics course in which the students take real world problems and solve them using mathematical concepts such as exponential growth, logarithms, geometry and trigonometry. Come see and participate in some of the activities.

60 MINUTE SESSIONS

THURSDAY

135 10:00-11:00 am  
RWI-Veranda Room  
Grades PK-5

## Number and Operation Sense: Crucial Basic Skills

Bill Sparks, *UW-Eau Claire, Eau Claire, WI*

Making sense of all we do with numbers and operations will lead to understanding throughout mathematical development. Lesson design and activities that lead to sense making will be shared.

LUNCH

THURSDAY

11:30 am-1:30 pm  
Pillsbury-Lakeview Dining  
Room or Big Top Tent

## Lunch

Please arrange for meal tickets with the Green Lake Conference Center. You may use the form on page 53. Lunch in the Big Top Tent is available with a meal ticket or cash. Lunch in the dining room requires a meal ticket.

60 MINUTE SESSIONS

THURSDAY

136 11:00 am-12:00 pm  
Kern-Johnson  
Grades PK-2

## Read a Book...Do Some Math!

Sheryl Brown, *Sandburg Elementary School, Madison, WI*

Jude Bremer, *Sandburg Elementary School, Madison, WI*

A kindergarten and a second grade teacher will present books/read-alouds they use in teaching math lessons and concepts.

137 11:00 am-12:00 pm  
Lawson-Martin  
Luther King, Jr.  
Grades PK-5

## Factual Play In "Sense"iful Ways

Margaret Jensen, *Madison Metropolitan School District, Madison, WI*

Competence and fluency with basic addition and subtraction facts is best achieved when a student has a firm understanding of number relationships and the deep structure of the number system. We will examine ways to build number sense and fact fluency. You'll take home lots of examples of fact practice based on using one's understanding of number relationships.

138 11:00 am-12:00 pm  
Youth Center-  
Oliver DeWolf Cummings  
Grades 3-12

## The Ten Things All Future Mathematicians and Scientists Must Know (But Are Rarely Taught)

Ed Zaccaro, *Dubuque Schools, Dubuque, IA*

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. This session will present the ten things our future mathematicians and scientists must know to prevent these kinds of tragedies from occurring. Because science and mathematics instruction is often dominated by facts and calculations, children are rarely exposed to these important concepts. You will leave this session with many high interest stories and activities that will fascinate your students and show them the strong connections between math and science and the world we live in.

139 11:00 am-12:00 pm  
Bauer-LaDue  
Grades 6-8

## Meet the Standards! For Sure!

Connie Laughlin, *Mequon Thiensville School District, Mequon, WI*

Learn how *MathThematics* meets the NCTM standards and why this is a successful way to teach mathematics.

140 11:00 am-12:00 pm  
RWI-Mahaney  
Grades 9-12

## Sharing Ideas to Help Students Learn and Understand Geometric Proofs

Carey A.W. Schmid, *Reedsburg School District, Reedsburg, WI*

Lesson plans will be presented that help introduce proofs through the study of logic and statements of logic. Some of the lesson plans are applications of NCTM's 13th yearbook, *The Nature of Proof*. There should also be time for some group discussion.

141 11:00 am-12:00 pm  
Kern-Boehr  
Grades 9-16

## Mathematical Modeling in Teaching Algebraic Ideas

Ken Jewell, *Edgewood College, Madison, WI*

We now use an approach in college algebra which emphasizes real world phenomena. Examples will be given that have been used successfully.

LUNCH/MEETING

THURSDAY

12:00-1:30 pm  
RWI-Veranda Dining Room

### WMC Presidents' Luncheon

This is a luncheon for all past, present and future presidents of the Wisconsin Mathematics Council. Pick up your meal in the Lakeview Dining Room (ticket required), in the Big Top Tent (ticket or cash), or bring your own and come over to the RWI-Veranda Dining Room via the Crystal Room entrance. Come and meet old friends. Bring your ideas for future directions for the Wisconsin Mathematics Council. Discussion will begin at 12:30 pm.

3 HOUR EXTENDED WORKSHOPS

THURSDAY

200 1:00-4:00 pm  
Kern-Brown  
Grades 1-4

### Using the Tools of Reading and Writing to Learn Mathematics

Patricia Chase, *Chase/Pheifer & Associates, Thiensville, WI*

Children need direction in implementing strategic reading and writing behaviors when they are engaged in mathematics. Participants will be engaging in activities that adapt the tools of reading and writing to mathematical situations. The NCTM Process Standards of communication and representation will be the focus of the session.

90 MINUTE WORKSHOPS

THURSDAY

201 1:00-2:30 pm  
Bauer-Morehouse B/C  
Grades PK-16  
KEYNOTE

### Don't Doubt the Dream... Reaching and Teaching ALL Young People

Jerry Mills, *Educator/Motivator, Marquette, MI*

Hang onto your chair...and your heart!

Audiences know from the very first song that this training is unlike anything they have ever experienced. The opening song, *What You See*, strikes an indelible chord, setting the stage for a thought provoking discussion about perspective, perception and attitude. Jerry draws audiences into an unforgettable experience of research, stories and songs illustrating the tremendous struggle kids undergo and the many problems that arise in trying to meet those needs. (Repeat of session 125)



202 1:00-2:30 pm  
RWI-McGarvey  
Grades K-2

### How Do You Measure Up?

Janice Gratch, *Madison Metropolitan School District, Madison, WI*

Laura Huber, *Madison Metropolitan School District, Madison, WI*

We will look at the Big Ideas in measurement and explore activities that foster understanding of important measurement concepts in grades K-2.

203 1:00-2:30 pm  
RWI-Veranda Room  
Grades PK-5

## Family Fun with Math

Barb Borgwardt, *Gale-Etrick-Trempealeau School District, Galesville, WI*

Linda Remus, *Gale-Etrick-Trempealeau School District, Galesville, WI*

Dave Erickson, *Gale-Etrick-Trempealeau School District, Galesville, WI*

John Bergum, *Gale-Etrick-Trempealeau School District, Galesville, WI*

Come and get ideas to use for a Math Family Fun Night that will help get parents involved and increase support of your math curriculum. Ideas shared can also be used as classroom and home activities.

204 1:00-2:30 pm  
Bauer-Morehouse A  
Grades 3-5

## Children's Thinking About Equal Folding Problems

Susan B. Empson, *University of Texas at Austin, Austin, TX*

Tasks that involve folding to create equal portions offer opportunities to connect multiplication and fractions. In this session we will examine first, third and fifth graders' strategies for solving equal folding problems.

205 1:00-2:30 pm  
Kern-Brayton Case B  
Grades 3-5

## Geo-Logo

Lori Williams, *Manitowoc Public Schools, Manitowoc, WI*

Participants in this session will be introduced to the variety of activities supported by the *Geo-Logo* software which accompanies the geometry units in the Investigations curriculum. Teachers will also discuss management of computer activities using single computers or small clusters of computers in the classroom and computer labs.

206 1:00-2:30 pm  
Kern-Boehr  
Grades 6-8

## Math is a Scream!: The Math and Science of Model Roller Coaster Design for the Middle School Classroom

Janel Bedor, *Tigerton School District, Tigerton, WI*

Wanda Minniecheske, *Tigerton School District, Tigerton, WI*

Learn about exciting ways to integrate math, science and fun in an awesome roller coaster project. The project focuses on experiential learning, community collaboration, technology and the Wisconsin academic standards. Get project ideas, lesson plans, finding new ideas, tips and real world examples during this seminar.

207 1:00-2:30 pm  
Kern-Cary  
Grades 6-8

## Middle School Mathematics Activities

Larry Brahan, *Farnsworth Middle School, Sheboygan, WI*

Participants will explore TI-73 programs and applications that reinforce concepts and introduce new ideas. Each participant will also receive a copy of a PowerPoint Jeopardy game.



## 90 MINUTE WORKSHOPS

THURSDAY

208 1:00-2:30 pm  
Youth Center-Huber/Evans  
Grades 6-8

## A Middle Grades Discussion: NSF Supported Curricula

Diana Datka, *School District of Janesville, Janesville, WI*

Teri Hedges, *Huegel Elementary School, Madison, WI*

Rosann Hollinger, *Fritsche Middle School, Milwaukee, WI*

Connie Laughlin, *Mequon Thiensville Schools, Mequon, WI*

This session will be conducted in a panel format. Each of the middle grades NSF mathematics programs (*Connected Mathematics Project, Mathematics in Context, Math Scope* and *MathThematics*) will be represented. The panel members will respond to a series of questions describing the trials and tribulations of implementing a reform mathematics curriculum and will be available at the end of the session to answer additional questions.

209 1:00-2:30 pm  
Youth Center-Oliver DeWolf  
Cummings  
Grades 6-16

## Reforming Curriculum, Reforming Teaching

Doug Dalman, *School District of Beloit, Beloit, WI*

Ken DeForest Davis, *School District of Beloit, Beloit, WI*

Reforming mathematics from a “traditional” curriculum requires more than just changing the curriculum. Reforming curriculum means reforming what we teach, how we teach, and how we assess. While some students appear to succeed with a traditional curriculum, many of those students are highly school compliant, and in seeking further approval, are willing to work under traditional conditions. For those students, teachers and parents conditioned to a traditional format, the adjustment will require time and effort. Even students who have been most successful under traditional mathematics, will do better if teachers improve their teaching style. Reform curriculums enable better teaching styles. We will quickly examine what is really needed to reform mathematics in curriculum, pedagogy and assessment practices.

210 1:00-2:30 pm  
Kern-Brayton Case A  
Grades 6-16

## Introductory *Sketchpad* will Enhance Every Math Course

Michael Tamblyn, *Whitewater High School, Whitewater, WI*

Hands-on learning at its best. Learn to use this software in all courses to promote mathematics learning. It is so much more than a graphing calculator. This is a hands-on workshop in a computer lab. Topics will range from pre-algebra through calculus including fractals, animation and much more.

211 1:00-2:30 pm  
Bauer-Beaty  
Grades 9-12

## Mathematical Modeling in Algebra and Beyond

Jack Burrill, *retired educator, Hales Corners, WI*

Modeling a mathematical relationship for a real problem can begin in middle school and extend to pre-calculus. Using real data and technology makes this activity motivating and helps students understand the modeling process. The goal of this workshop is to enable the participants to use mathematical modeling to help students to understand the application of inverse and composite functions.

90 MINUTE WORKSHOPS

THURSDAY

212 1:00-2:30 pm  
Bauer-LaDue  
Grades 9-12

### Some Nifty Student Projects!

Christine Lucas, *Whitefish Bay High School, Whitefish Bay, WI*

Come relax and view some informative as well as entertaining student-designed and delivered calculus projects. Non-calculus teachers, don't let the topic of calculus keep you away; there are good ideas for all secondary math teachers. We'll watch some videos of students applying some of their mathematical prowess to other subjects and current events. Then we can share other ideas folks may have for post AP exam weeks. Who's bringing the popcorn?

213 1:00-2:30 pm  
Bauer-Lightbody  
Grades 9-12

### Mathematics for All Students of the 21st Century

Larry Olsen, *MATH Connections Implementation Center, Rocky Hill, CT*

Participants will engage in real-world activities that can be taken back to the classroom. The mathematics, complemented by technology and real-world situations, of *MATH Connections*, a NSF-funded, standards-based secondary core curriculum prepares students for higher education and the world of work.

214 1:00-2:30 pm  
RWI-Crystal Room  
Grades 9-12

### Moving the Lower 50% Towards Math Standards: A Visual, Hands-on Approach

Tom Strauss, *AMME Inc, Fond du Lac, WI*

Paul Weisse, *AMME Inc, Fond du Lac, WI*

Lower achieving students need concrete activities and meaningful connections to remember and understand how to use mathematics. Participants will be engaging in activities which focus on showing students that algebra is logical, not magical.

60 MINUTE SESSIONS

THURSDAY

215 1:00-2:00 pm  
RWI-Mahaney  
Grades PK-2

### Latino Families: Making Home-School Connections

Carrie Johnson, *Franklin Elementary, Madison, WI*

This presentation will show how one teacher involved Latino families in math education for primary students. Examples of math games and activities will be provided as well as a summary of research related to the project.

216 1:00-2:00 pm  
Bauer-Boddie  
Grades 6-8

### Problem Solving, Teamwork and Fun

Terri Bonertz, *Seton Catholic Middle School, Menasha, WI*

*MATHCOUNTS* is a national program which encourages students, grades 6-8, to use their problem solving skills to compete with other Mathletes in their region, state, and country. *MATHCOUNTS* can also be used as an enrichment component of the regular math classroom.

217 1:00-2:00 pm  
Kern-Johnson  
Grades 6-12

### Aspect Ratios and Algebra

Kali Kocmoud, *New Richmond High School, New Richmond, WI*

Come see a lesson that combines algebra, geometry, and statistics using television aspect ratios.

60 MINUTE SESSIONS

THURSDAY

218 1:00-2:00 pm  
Kern-Stansbury  
Grades 6-16

### Student Reasoning-What a Challenge!

Linda Uselmann, *Edgewood College, Madison, WI*

Come and challenge yourself to understand, explain, and counter erroneous (and often clever) mathematical explanations; these problems are ones we use in teacher education courses.

219 1:00-2:00 pm  
Lawson-Martin  
Luther King, Jr.  
Grades 9-12

### Do You Have Anything I Can Do for Extra Credit?

Gary Luck, *Greendale High School, Greendale, WI*

Here are some suggestions of books related to math that I have students read (for extra credit!). My goal is to enable students to broaden their understanding of mathematics. Bring titles of your own to share.

220 1:00-2:00 pm  
Kern-Hanson  
Grades 9-16

### Do Your Students Ask, "Why Should I Stay in Math if I'm Going to a Technical College?" Here's the Answer!

Judy Jones, *Madison Area Technical College, Madison, WI*

MATC has started a Mandatory Assessment, Advising, and Placement process whereby all incoming students will be assessed in Math and English. Those not meeting the level required by the degree program they want to enter, will be placed into developmental courses. What does this mean for your students?

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Gary Eliason, Sales Representative, 800-292-6043  
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60 MINUTE SESSIONS

THURSDAY

221 2:30-3:30 pm  
Lawson-Martin  
Luther King, Jr.  
Grades PK-16

## Creative Demonstrations for the Visualization of Mathematical Concepts

Frances Borman, *UW-Baraboo/Sauk County, Baraboo, WI*

This session will involve an exploration of interesting activities that engages the whole class and allows students to think about mathematical concepts in nontraditional ways, as well as, bring understanding to traditionally difficult topics. These activities can be tailored to any age group. In fact, the younger the better!

222 2:30-3:30 pm  
Bauer-Boddie  
Grades PK-16

## WMC Has Restructured! What is New and How Can You Become a Part of This Dynamic Organization?

John Janty, *Waunakee High School, Waunakee, WI*

This session will give you the opportunity to learn about the restructured Wisconsin Mathematics Council, including the new mission statement and goals of the Council, the new board structure, and the committee opportunities. Participants will see how they can become involved in a dynamic professional organization.

(Repeated on Friday as session 409.)

90 MINUTE WORKSHOPS

THURSDAY

223 3:00-4:30 pm  
RWI-Veranda Room  
Grades PK-5

## I NEVER WAS ANY GOOD AT MATH: An Alternative to What We Have Always Done From the Perspective of Teacher as Learner

Sue Chmielinski, *Wauwatosa School District, Wauwatosa, WI*

Mary Freytag, *Math Matters and MATC, Madison, WI*

Karyl Zahorik, *Ripon School District (retired), Ripon, WI*

Have you ever wondered why your value gets bigger when you divide by a fraction? Or why multiplying two negative numbers equals a positive number? Join us to see how a research and inquiry-based program, *Everyday Math*, builds mathematical understanding from PK through Grade 6. This hands-on, minds-on workshop will get you thinking.

224 3:00-4:30 pm  
RWI-McGarvey  
Grades PK-5

## Managing Differentiation!

Mary C. Gifford, *Merrill Public Schools, Merrill, WI*

We will explore strategies of differentiation to deliver different levels of math instruction to a variety of learners. Student products and examples will be used to demonstrate classroom activities.

## 90 MINUTE WORKSHOPS

THURSDAY

225 3:00-4:30 pm  
Youth Center-Oliver DeWolf  
Cummings  
Grades K-5

## Simultaneous Math Understanding and Skill Development K-5

Mary Jo Hustoles, *Wright Group-McGraw Hill, Chicago, IL*

Research and extensive field testing have proven *Growing with Math* rapidly improves children's performance and learning in mathematics. See for yourself as we explore the philosophy, content, and organization of this new program.

226 3:00-4:30 pm  
Kern-Johnson  
Grades PK-5

## Games that Really Teach and How to Effectively Use Them

Becky Pagel, *Wausau School District, Wausau, WI*

June Wilhelm, *Wausau School District, Wausau, WI*

Games are a vehicle for engaging students in important mathematical ideas. This session will offer you the opportunity to discover (and play) great math games for your classroom—some you can buy at your local stores and some you can construct yourself. Also, tips will be given on how to effectively use games in your classroom with diverse groups.

227 3:00-4:30 pm  
RWI-Crystal Room  
Grades 2-5

## Learning Geometry through the Ancient Art Form of Origami

Mazie Jenkins, *Madison Metropolitan School District, Madison, WI*

Elizabeth Mehlberg, *Madison Metropolitan School District, Madison, WI*

Begin to explore geometric concepts as you learn to create basic 3D shapes. Learn how students develop geometric vocabulary in a meaningful way as they learn to fold shapes. This session will be geared to beginners.

228 3:00-4:30 pm  
Kern-Stansbury  
Grades 5-8

## Learning to Understand a Student Perspective

Bertha A. Martinez, *Lake Geneva Joint School District #1, Lake Geneva, WI*

This presentation will share instructional strategies that enhance student understanding of mathematics. It will also share 5th graders' perspectives on what helps them understand math.

229 3:00-4:30 pm  
Bauer-LaDue  
Grades 6-8

## Brain Based Learning in the Middle School Classroom

Denise Goetter, *Wisconsin Rapids Public Schools, Wisconsin Rapids, WI*

Kathi Stebbins-Hintz, *Wisconsin Rapids Public Schools, Wisconsin Rapids, WI*

We will present an integrated math lesson and explain how it relates to brain-based theory and strategies.

90 MINUTE WORKSHOPS

THURSDAY

230 3:00-4:30 pm  
Bauer-Lightbody  
Grades 6-12

## Exploring an “Exemplary” Mathematics Curriculum

Lonnie A. Bellman, *CPM Education Program, Sacramento, CA*

Participants will explore a student-centered, teacher-written, standards-based curriculum designated “exemplary” by US Department of Education.

231 3:00-4:30 pm  
Bauer-Morehouse A  
Grades 6-12

## Dynamic Geometry for Your TI-83+

Charles Vonder Embse, *Central Michigan University, Mt. Pleasant, MI*

Get a hands-on look at *Cabri Junior*, the new dynamic geometry application for the TI-83+ graphing calculator. This new application is free so bring your own TI-83+ to take it home for your classroom. We will investigate classroom use of this new software for middle school and high school settings.

(Repeated Friday as session 333.)

232 3:00-4:30 pm  
Kern-Hanson  
Grades 8-13

## Problems and Projects for Students in Advanced Mathematics

Dennis Kostac, *West De Pere, De Pere, WI*

A hands-on approach to learning in higher levels of math where students are assigned a variety of long and short-term problems and projects. This supplemental approach addresses all learning styles and incorporates the use of modern technology.

60 MINUTE SESSIONS

THURSDAY

233 3:00-4:00 pm  
Youth Center-Huber/Evans  
Grades 6-8

## Improving Teaching After Your First Year of Implementing a New Program

Diana Datka, *School District of Janesville, Janesville, WI*

Teachers of McDougal Littell’s *MathThematics* program will share ideas about what makes this a successful NSF math program. Ideas on how to make various activities manageable to all students will be shared. Participants should plan to bring ideas and copies to share.

234 3:00-4:00 pm  
Bauer-Beaty  
Grades 6-8

## Implementing a Successful Mathematics Program in Middle School

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

Two years after implementing the *Connected Mathematics Project (CMP)*, our test scores jumped more than any other middle school in Madison (and they continue to climb). Here are some ideas to help make CMP work in your middle school.

235 3:00-4:00 pm  
RWI-Mahaney  
Grades 9-12

## Folding Paper, Acting Out, Telling Stories

Mary O. Cotherman, *Ashland High School, Ashland, WI*

Help all learners communicate in mathematics with active “tool kits” about important ideas.

60 MINUTE SESSIONS

THURSDAY

236 3:00-4:00 pm  
Kern-Cary  
Grades 9-12

### What A Reform Curriculum Has to Offer

Kris Holzhter, *Stoughton High School, Stoughton, WI*  
Rami Hoaglin, *Stoughton High School, Stoughton, WI*  
Chris Schultz, *Stoughton High School, Stoughton, WI*  
Eric Smith, *Stoughton High School, Stoughton, WI*

We will show/demonstrate what *Interactive Mathematics Program (IMP)* has to offer students and teachers.

237 3:00-4:00 pm  
Kern-Boehr  
Grades 10-14

### Help for Choke Points in Pre-Calculus

Marty Schuh, *UW-Manitowoc, Manitowoc, WI*  
Robert Hoar, *UW-LaCrosse, LaCrosse, WI*

What's available on the Internet that would be helpful in getting students past areas that are problematic in pre-calculus? Faculty from UW-La Crosse and the UW Colleges received an NSF grant to look at what's out there, and to use those resources to create shareable content that is easy to access. Come hear what they've found and how you can take advantage.

MEETING

THURSDAY

4:45-5:30 pm  
Bauer-Morehouse B/C

### Wisconsin Mathematics Council Annual Meeting

This is the annual meeting of the Wisconsin Mathematics Council open to all members. Join us and become a more active member in your organization.

BANQUET

THURSDAY

5:30 pm  
Royal Ridges of Ripon

### WMC Annual Banquet (featuring ComedySportz)

Our annual banquet at the Royal Ridges of Ripon is a perfect opportunity to enjoy a lovely dinner in the company of friends and colleagues, honor and recognize the achievements of mathematics educators and students throughout the state, and let our hair down as we "get into the act" of a special ComedySportz presentation.

Doors will open at 5:30 pm; a sit-down dinner will be served at 6:30 pm. We will recognize our three scholarship recipients, the Distinguished Math Educator Award recipients and Wisconsin's Presidential Awardees.

Our entertainment will be provided by Milwaukee's ComedySportz—an improv group that promises to present fun and games with a distinctive "math teacher" twist.

Audience participation is encouraged! Please plan to join us!

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## BREAKFAST/MEETINGS

FRIDAY

7:00-9:00 am

Pillsbury-Lakeview  
Dining Room**Breakfast**

Please arrange for meal tickets with the Green Lake Conference center. You may use the form on page 53.

7:00-7:45 am

Pillsbury-Lakeview Dining  
Room**First Timers' Welcome/Orientation**

Come and get acquainted with the conference and meet new friends. We will look over the program together, help you get started selecting appropriate sessions, and answer questions.

7:00-9:00 am

RWI-Crystal Room

**NPRIME Breakfast**

Join us for breakfast with Gail Burrill, Michigan State University, East Lansing, MI. Following breakfast there will be a presentation by Gail on the work on the Texas Instruments publication: *Handheld Graphing Technology in Secondary Mathematics: Research Findings and Implications for Classroom Practice*. Gail was director of the project that prepared this report. She will share with us the framework used to synthesize the peer-reviewed, published research that addressed questions related to the use of handheld graphing technology in teaching and learning secondary mathematics. She will share the findings related to how this technology can be used to make a difference in student achievement. The findings, culled from an international search, have implications for classroom practice that should be considered by teachers who use hand-held graphing technology in their classrooms.



Make your breakfast reservations by contacting Anne Frihart, NPRIME Project Assistant at 608-644-9244, or online at [afrihart@wasdinet.org](mailto:afrihart@wasdinet.org). You do not need to purchase a ticket from the Green Lake Conference for this meal.

## 90 MINUTE WORKSHOPS

FRIDAY

300 8:00-9:30 am

Bauer-Lightbody  
Grades PK-2**The Stages of Math Learning with Symmetry**

Marla Mastin, *Minnesota State University Mankato, Mankato, MN*

Just as it takes stages to make a butterfly, it takes stages of math learning to make a symmetrical butterfly.

301 8:00-9:30 am

Kern-Stansbury  
Grades 3-5**Questioning as a Vehicle for Developing the Processes of Mathematics**

Patricia Chase, *Chase/Pheifer & Associates, Thiensville, WI*

Participants will engage in activities that support asking questions as a tool for encouraging thinking and responding. Questions will also be explored from the student's perspective and be used as a tool for prompting written responses in mathematics.

302 8:00-9:30 am  
Lawson-Martin  
Luther King, Jr.  
Grades 3-5

## Fluid Functional Facts for Multiplication and Division

Laura Huber, *Madison Metropolitan School District, Madison, WI*

Using algebraic reasoning we will explore the connections between facts as a vehicle for assisting with recall.

303 8:00-9:30 am  
Bauer-Morehouse A  
Grades 6-12

## Teaching Algebra: Leave No Child Behind by Discovering Algebra

Bettye Forte, *Key Curriculum Press, Emeryville, CA*

This session will focus on algebra activities that will motivate all learners. The activities will be hands-on, concrete, verbal, numerical, graphical, and symbolic.

304 8:00-9:30 am  
Kern-Brayton Case A  
Grades 6-12

## Exploring Statistical Topics at PBS Teacher Source

Jo Ingle, *UW-Eau Claire, Eau Claire, WI*

This workshop will provide a guided tour of PBS Teacher Source and other web sites that support the teaching of statistical topics. Participants will also have time to explore their own interests.

305 8:00-9:30 am  
Bauer-LaDue  
Grades 7-9

## Algebra for All!

Michelle Parks, *Northstar Middle School, Eau Claire, WI*

Algebraic experiences at the middle school can and should be engaging for all students. Through the *Connected Math Project* (CMP) students are actively engaged through real-world problem situations. Therefore, a course that has been traditionally reserved for our higher ability students is now accessible to all students. In this workshop, participants will be actively involved with activities from the *Connected Math Project* to help support the belief that all students can learn algebra!

306 8:00-9:30 am  
Youth Center-  
Huber/Evans Room  
Grades 9-12

## Enhancing the Understanding of Trigonometry Using Technology

Daniel R. Hackbarth, *Greendale High School, Greendale, WI*

Classroom activities centering around the unit circle, trig functions and sinusoids will be explored and discussed. The STATLIST, STATPLOT and Parametric MODE of the TI-83+ will be integrated into this hands-on session.

## 60 MINUTE SESSIONS

FRIDAY

307 8:00-9:00 am  
RWI-Crystal Room  
Grades PK-16

## Handheld Graphing Technology in Secondary Mathematics: Research Findings and Implications for Classroom Practice

Gail Burrill, *Michigan State University, East Lansing, MI*

Gail Burrill served as the director of the project that prepared the Texas Instruments publication: *Handheld Graphing Technology in Secondary Mathematics: Research Findings and Implications for Classroom Practice*. She will share with us the framework used to synthesize the peer-reviewed, published research that addressed questions related to the use of handheld graphing technology in teaching and learning secondary mathematics. She will share the findings related to how this technology can be used to make a difference in student achievement. The findings, culled from an international search, have implications for classroom practice that should be considered by teachers who use hand-held graphing technology in their classrooms.



308 8:00-9:00 am  
Bauer-Morehouse B/C  
Grades PK-12

## ESEA and the Mathematics Teacher

Jack Kean, *Department of Public Instruction, Madison, WI*

Update on No Child Left Behind, teacher qualifications, revised WKCE and implications for curriculum.

309 8:00-9:00 am  
RWI-Veranda Room  
Grades K-8

## The Professor Numbers Mathemagic Show

Raymond Blum, *Madison, WI*

Raymond Blum, a.k.a. Professor Numbers, was a Madison middle school teacher for 32 years, has authored four children's books, and was 1994 Wisconsin Middle School Teacher of the Year. Now he performs his 45-minute number-magic show for elementary and middle school children around the state. The Professor shows them the magical, fun side of mathematics with his mathemagic and arithmetricks. In this sectional, Professor Numbers will perform his mathemagic show in its entirety, so come prepared to enjoy the show and have a great time.

310 8:00-9:00 am  
Kern-Johnson  
Grades 3-5

## Applying Reading Strategies that Work to Math

Marie Adee, *Sheboygan Area School District, Sheboygan, WI*

Sharon Reilly, *Sheboygan Area School District, Sheboygan, WI*

Participants who attend this workshop will learn to incorporate best reading practices in their math instructional plan. Workshop presenters will focus on using literature within the math content area. Math activities that correlate to the literature books will be presented.

311 8:00-9:00 am  
Bauer-Boddie  
Grades 3-8

## Math Games in the Classroom

Connie Kolander, *NASCO, Fort Atkinson, WI*

The workshop participants will learn a variety of math games by actually playing them. Games will include *Mancala*, *Krypto*, and *Mental Math*.

312 8:00-9:00 am  
Kern-Hanson  
Grades 6-8

## Games and Activities

Jim Jarvis, *James Williams Jr. High, Rhinelander, WI*

Math games and activities for the day before a vacation or anytime.

313 8:00-9:00 am  
Kern-Cary  
Grades 6-16

## Recursion: Problem Solving, Witchcraft or Both?

Jim Kasum, *Cardinal Stritch University, Milwaukee, WI*

Recursion is a problem-solving technique which often provides solutions to problems in mathematics or computing which are truly elegant—but which may be greeted with cries of “that can’t possibly work!” Come and see this fascinating technique applied to searching, sorting, tree climbing and game playing.

314 8:00-9:00 am  
Kern-Brown  
Grades 9-12

## Making Algebra 1 Accessible to All Students

Dawn Nonn, *LaFollette High School, Madison, WI*

Corine Schieldt, *LaFollette High School, Madison, WI*

Stefan Houff, *LaFollette High School, Madison, WI*

We will share our successes and challenges in working in a team teaching environment with the goal of all students passing Algebra 1 in 9th grade.

315 8:00-9:00 am  
Kern-Boehr  
Grades 9-16

## Results of a Web-Based Hybrid Intermediate Algebra Course

Paul A. Martin, *UW-Colleges-Marathon County, Wausau, WI*

Chris Capista, *UW-Colleges-Marathon County, Wausau, WI*

We will present an overview of how ~50% of the material in our intermediate algebra course was provided through the interactive materials we developed.

316 8:00-9:00 am  
RWI-McGarvey  
Grades 9-16

## MATC Getting Together with Local High Schools

Kevin Mirus, *Madison Area Technical College, Madison, WI*

John Janty, *Waunakee High School, Waunakee, WI*

Last summer we had a "Dialogue of Mathematics Educators" from the Madison area. What did we do? Who was involved? How did it go? What are our next steps? We're anxious to have a dialogue with YOU, sharing some of our thoughts and hearing ideas from you.

317 8:00-9:00 am  
RWI-Mahaney  
Grades 11-12

## Using Taxes and Investments in Mathematics

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

When are we ever gonna have to use this? “I won’t need math for my life.” This presentation will consider these questions and other questions about life and math. We will look at some of the mathematics used in the money world involving tax returns and basic investments. Participants will receive ideas and ready-to-use materials.

## 3 HOUR EXTENDED WORKSHOPS

FRIDAY

318 8:30-11:30 am  
Bauer-Beaty  
Grades 3-5

**3R + I = S (Success!)**

Debra Wood, *Wisconsin Rapids Public Schools, Wisconsin Rapids, WI*

Janet Alekna, *Wisconsin Rapids Public Schools, Wisconsin Rapids, WI*

Reading, writing and 'rithmetic used to be separate subjects...not anymore! Come to this workshop and see how an integrated approach can save you time and raise student achievement. We'll share books, reading strategies, and writing ideas to use in your math class. Help your students to make meaningful connections throughout the day.

319 8:30-11:30 am  
Youth Center-Oliver DeWolf  
Cummings  
Grades 3-8

**It's in the Mix**

Jaime Malwitz, *Polymer Ambassador, Fond du Lac, WI*

Teachers will be actively engaged in this science-math connection while measuring length, width, perimeter, and area of plastics before and after they are shrunk. Creating "magic tubes" will include the science of density with a volume of mathematics. Building flinkers (they neither FLoat or sINK—they FLINK!) will allow participants to form ratios while using graduated cylinders and measurement skills. This make-and-take session follows national standards of science and math and includes handouts.

320 8:30-11:30 am  
Kern-Brayton Case B  
Grades 6-8

**Computer Connections to Standards-based Math Programs**

Karen Corlyn, *NBCT, John Burroughs Middle School, Milwaukee, WI*

Nancy Jo Grochowski, *Lincoln Center of the Arts Middle School, Milwaukee, WI*

In this session participants will have the opportunity to personally experience computer programs that directly align with grades 6-8. Some of the programs we will experience are: *Green Globes, Turtle Math, Tic-Tac 4, Product Game, Factor Game, Math MatchUp, Ratio Running, SuccessMaker, and Appleworks.*

## 60 MINUTE SESSIONS

FRIDAY

321 9:30-10:30 am  
RWI-Mahaney  
Grades PK-2

**Assessment—Instruction—Learning**

Carol Otto, *Wausau School District, Wausau, WI*

Diane Poirier, *Wausau School District, Wausau, WI*

Kathy Richardson says "Children learn more when they work at the edge of their understanding and level of competence." Good assessment tasks are needed so teachers can direct their instruction to appropriate levels. In this session, some ideas about effective assessment will be presented, including samples from Kathy Richardson's new assessment materials. Work samples will be presented to illustrate the steps a child moves through in developing a strong mathematical foundation.

322 9:30-10:30 am  
Kern-Cary  
Grades 6-8

**Effective Parent Communication in a Reform Math Classroom**

Becki Mischnick, *West Junior High School, Wisconsin Rapids, WI*

Candace Bubolz, *West Junior High School, Wisconsin Rapids, WI*

This workshop will give practical suggestions for ways to inform parents about their child's math class and involve them in their child's math education. Sample letters, presentations and parent involvement activities will be shared.

323 9:30-10:30 am  
RWI-Veranda Room  
Grades 6-12

## Learning Target—A Practical Way to Make Sense of the Wisconsin Model Academic Standards

Angela Ford, *Milwaukee Public Schools, Milwaukee, WI*

Henry Kranendonk, *Milwaukee Public Schools, Milwaukee, WI*

As a framework in aligning the mathematics curriculum, Milwaukee Public Schools designed Learning Targets to guide what every child should achieve. These grade level lists of targets were used to complete the steps in making the curriculum alignment work within all classrooms. The targets became the focus in developing assessments to guide teachers in providing quality and equitable instruction for all students. In addition, Learning Targets provided direction to teachers as to what to teach and how to teach the essential components of mathematics.

324 9:30-10:30 am  
Bauer-Boddie  
Grades 9-12

## Reaching All Students Including At-Risk Students in an Urban School

Donna Burrell, *Washington High School, Milwaukee, WI*

This session will elaborate on different strategies to help reach the students who don't believe they can understand and achieve the goals to be proficient in mathematics.

325 9:30-10:30 am  
Kern-Hanson  
Grades 9-12

## Setting the Standards for a K-12 Curriculum

Donna Davis, *Glencoe Consultant, Baltimore, MD*

The newest of the Reform Programs "Sets the Bar" for the others.

An informational workshop discussion of the uniqueness of the *Everyday Math / IMPACT Math / Core Plus* K-12 scope and sequence. The major focus of this session will be on the high school level.

326 9:30-10:30 am  
Kern-Johnson  
Grades 9-12

## Statistics in Your Classroom

Shannon Matott, *Lincoln High School, Wisconsin Rapids, WI*

Whether you teach AP Stats, or weave statistics into your other classes, come and get some fresh ideas for things you can do with your students to make data come alive.

327 9:30-10:30 am  
RWI-McGarvey  
Grades 9-14

## Top Ten List: What Should Incoming University Students Know?

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

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

Julie McDonald, *UW-Platteville, Platteville, WI*

What do these university mathematics faculty think are the most important abilities for incoming students to have? Come, listen, and then respond.

## 60 MINUTE SESSIONS

FRIDAY

328 9:30-10:30 am  
RWI-Crystal Room  
Grades 13-16

## Using Your WKCE and Other “High Stakes” Data: Summarizing, Interpreting, Decision Making, and Communicating—Next Steps

Henry S. Kepner, Jr., *UW-Milwaukee, Milwaukee, WI*

Janis Freckmann, *Milwaukee Public Schools, Milwaukee, WI*

Cindy Walker, *UW-Milwaukee, Milwaukee, WI*

How can we make sense of the data? What are its strengths and limitations—both as reported scores and as information for instruction? What decisions can we make using this data? How can we communicate our findings?

## 90 MINUTE WORKSHOPS

FRIDAY

329 10:00-11:30 am  
Bauer-Morehouse B/C  
Grades PK-16  
KEYNOTE

## Ten Practical Instructional Strategies for Boosting Learning and Test Scores

Steven Leinwand, *AIR Assessment Program, Washington, DC*

We'll look at a set of research-based, easy-to-adapt strategies that allow us to be more productive in our daily math instruction.

(Repeated as session 402.)



330 10:00-11:30 am  
Lawson-Martin  
Luther King, Jr.  
Grades PK-2

## Best Practices, What Exactly Are They?

Shelly R. Long, *Southern Bluffs Elementary School, La Crosse, WI*

Tracy Taylor-Johnson, *Summit Elementary School, La Crosse, WI*

Let's have some fun by engaging in discussion and activities that reflect best practices. Yes, math can come alive with a combination of teacher knowledge, teaching pedagogy and student learning.

331 10:00-11:30 am  
Kern-Stansbury  
Grades PK-2

## Mathematics for All

Lori Williams, *Manitowoc Public Schools, Manitowoc, WI*

Varied levels of readiness, varied interests, and varied learning profiles—students in our mathematics classes have many diverse needs, yet it is our job to challenge each child appropriately and help all students to continue to grow in their understanding of mathematical concepts and in fluency of skills. Participants will be introduced to strategies for differentiating instruction including varied questions, flexible grouping, and compacting in order to meet the diverse needs of students in heterogeneously-grouped classrooms.

332 10:00-11:30 am  
Kern-Brown  
Grades 6-8

## 3-D Spatial Visualization: Beyond Rectangular Prisms

Vicki L. Hay, *Mosinee Middle School, Mosinee, WI*

This session will provide activities and strategies for helping students move from the concrete models to the printed pictures, to verbal descriptions of geometric solids.

333 10:00-11:30 am  
Bauer-Morehouse A  
Grades 6-12

## Dynamic Geometry for Your TI-83+

Charles Vonder Embse, *Central Michigan University, Mt. Pleasant, MI*

Get a hands-on look at *Cabri Junior*, the new dynamic geometry application for the TI-83+ graphing calculator. This new application is free so bring your own TI-83+ to take it home for your classroom. We will investigate classroom use of this new software for middle school and high school settings.

(Repeat of Thursday's session 231.)

334 10:00-11:30 am  
Kern-Brayton Case A  
Grades 6-16

## ALEKS

Shubhangi S. Stalder, *UW-Waukesha, Waukesha, WI*

Alexei Krioukov, *UW-Waukesha, Waukesha, WI*

ALEKS is a web-interfaced computerized system for the assessment and learning of mathematical skills. More information can be found at the website [www.highedmath.aleks.com](http://www.highedmath.aleks.com). Our presentation will talk about our experiences with this software and how it has revolutionized Intermediate and College Algebra classes at our campus. We will leave time for questions, as well as have participants go on-line to get a flavor of how things work.

335 10:00-11:30 am  
Youth Center- Huber/Evans  
Grades 9-12

## Let's Go Fly a Kite!

Mike Flory, *Beloit Memorial High School, Beloit, WI*

Designing and flying kites can launch the study of trigonometric applications.

Participants will build a kite to take with them and learn to connect it to trig topics.

336 10:00-11:30 am  
Kern-Boehr  
Grades 9-12

## AP Calculus: A Study of Approximating Functions

Vic Levine, *James Madison Memorial High School, Madison, WI*

The AP Calculus AB and BC curricula—the standard first and second semester introductory calculus courses—can be viewed as a course in approximating functions. From local linearity to power series, the student is learning how to use polynomials to approximate values and behaviors of more esoteric functions. This workshop will look at AP Calculus and the AP exam from this perspective. Please bring your graphing calculator. We will be using the TI-89 during the workshop, but we will also show how to do everything on the TI-83 series.

337 10:00-11:30 am  
Bauer-LaDue  
Grades 9-12

## Brain-Based Learning in the High School Math Classroom

Stacy Moyer, *Lincoln High School, Wisconsin Rapids, WI*

Kathi Stebbins-Hintz, *Wisconsin Rapids Public Schools, Wisconsin Rapids, WI*

We will present an integrated math lesson and explain how it relates to brain-based theory and strategies.



## 90 MINUTE WORKSHOPS

FRIDAY

338 10:00-11:30 am  
Bauer-Lightbody  
Grades 9-12

## Interacting in a TI Navigation Classroom

Bernard C. Turner, *Texas Instruments, Dallas, TX*

Lauren Jensen, *Wisconsin Heights High School, Mazomanie, WI*

Participants will receive, complete and submit activities using TI Navigator and graphing handhelds wirelessly. We'll explore uses of this technology in secondary classrooms.

## LUNCH

FRIDAY

11:30-1:30 pm  
Pillsbury-Lakeview Dining  
Room or Big Top Tent

## Lunch

Please arrange for meal tickets with the Green Lake Conference Center. You may use the form on page 53. Lunch in the Big Top Tent is available with a meal ticket or cash. Lunch in the dining room requires a meal ticket.

## 60 MINUTE SESSIONS

FRIDAY

339 11:00 am-12:00 pm  
RWI-Mahaney  
Grades PK-2

## Deepening Student Understanding of the Number System through Physical Manipulation = Powerful Mathematics!

Judy Keller, *Digi-Block, Inc. Oregon, WI*

The philosophy of the Digi-Block System is based on physical manipulation and interaction with Digi-Blocks, allowing students to discover the powerful math embedded in our numerical code.

340 11:00 am-12:00 pm  
Kern-Johnson  
Grades PK-5

## Math Strategies for Struggling Learners

Sarah McClendon, *Milwaukee Sign Language, Milwaukee, WI*

Andrea Naton, *Alexander Graham Bell Middle School, Milwaukee, WI*

Participants will learn a variety of strategies to use with struggling learners in the areas of addition, subtraction, and multiplication.

341 11:00 am-12:00 pm  
RWI-Veranda Room  
Grades PK-5

## New Visions for Linking Literature and Mathematics

David Whitin, *Wayne State University, Detroit, MI*

Phyllis Whitin, *Wayne State University, Detroit, MI*

The presenters will share a range of recently-published children's books that are relevant to the mathematics classroom. They will also discuss some effective ways to use those books with students.

342 11:00 am-12:00 pm  
Bauer-Boddie  
Grades 3-5

## What is a Shape?

Mary Ringelstetter, *Hawthorne Elementary School, Madison, WI*

Using questioning and activities to develop conjectures and properties of shape.

343 11:00 am-12:00 pm  
Kern-Hanson  
Grades 7-10

## Rainy Day Activities: Enrichment Activities for Algebra and Geometry

Wendy Harris, *Sun Prairie High School, Sun Prairie, WI*

Karen Terhune, *Sun Prairie High School, Sun Prairie, WI*

Enrichment activities for days before long breaks or those days when a change in routine is needed will be presented. This workshop will provide several examples that help promote interdependent learning communities, provide for adaptive reasoning and use technology to build class discussions. Bring your graphing calculator.

344 11:00 am-12:00 pm  
Kern-Cary  
Grades 9-12

## Integrating Literacy Strategies

Sherrie Akinsanya, *Custer High School, Milwaukee, WI*

Students in the *I Can Learn* classroom learn note taking strategies, graphic organizers for mathematical terms, presentation and research writing strategies and concept formation.

345 11:00 am-12:00 pm  
RWI-McGarvey  
Grades 9-12

## University of Wisconsin Mathematics Placement Exam

James Wollack, *UW-Madison, Madison, WI*

Chad Scott, *UW-Superior, Superior, WI*

Find out the latest information on the UW Mathematics Placement Exam.

346 11:00 am-12:00 pm  
RWI-Crystal Room  
Grades 13-16

## Addressing the Challenge of the Mathematics Teacher's Need to Know: The Milwaukee Mathematics Partnership

Henry S. Kepner, Jr., *UW-Milwaukee, Milwaukee, WI*

DeAnn Huinker, *UW-Milwaukee, Milwaukee, WI*

Henry Kranendonk, *Milwaukee Public Schools, Milwaukee, WI*

Richard O'Malley, *UW-Milwaukee, Milwaukee, WI*

Tom Geil, *Milwaukee Area Technical College, Milwaukee, WI*

Mathematicians, mathematics educators, teachers, and staff from UW-Milwaukee, Milwaukee Public Schools, Milwaukee Area Technical College, and others have formed a collaboration to work together to promote a consistent approach to comprehensive mathematics learning. Come hear about what they are doing, how they are doing it, and how you might be able to get involved in this or a similar initiative.

## 3 HOUR EXTENDED WORKSHOPS

FRIDAY

400 1:00-4:00 pm  
Bauer-LaDue  
Grades 3-5

## Learning Geometry through Quilting

Mazie Jenkins, *Madison Metropolitan School District, Madison, WI*

Mathew Felton, *Wisconsin Center for Education Research, University of Wisconsin-Madison, Madison, WI*

Use hands-on paper quilts to explore geometric properties such as symmetry, flips and turns, larger patterns, and their relation to algebra. Learn how to help your students develop and prove conjectures about geometry by using quilting. This unit has been developed through careful work with a diverse group of teachers and students.

401 1:00-4:00 pm  
Kern-Brayton Case A  
Grades 6-16

## Advanced Sketchpad will Enhance Every Math Course

Michael Tamblyn, *Whitewater High School, Whitewater, WI*

Hands-on learning at its best. Learn to use this software in all courses to promote mathematics learning. It is so much more than a graphing calculator. This is a hands-on workshop in a computer lab. Topics will range from pre algebra through calculus including fractals, animation and much more.

## 90 MINUTE WORKSHOPS

FRIDAY

402 1:00-2:30 pm  
Bauer-Morehouse B/C  
Grades PK-16  
KEYNOTE

## Ten Practical Instructional Strategies for Boosting Learning and Test Scores

Steven Leinwand, *AIR Assessment Program, Washington, DC*

We'll look at a set of research-based, easy-to-adapt strategies that allow us to be more productive in our daily math instruction. (Repeat of session 329.)



403 1:00-2:30 pm  
Youth Center-Oliver DeWolf  
Cummings  
Grades PK-8

## The Craft of Shrinking Math

Jaime Malwitz, *Polymer Ambassador, Fond du Lac, WI*

Teachers will be actively engaged in this science-math connection while measuring length, width, perimeter and area of plastics before and after they are shrunk. Measuring before and after the plastics shrink, allows students to explore proportional reasoning. Participants will have the opportunity to make math manipulatives and craft projects while exploring the properties of shrinking plastics.

404 1:00-2:30 pm  
Bauer-Morehouse A  
Grades 6-8

## Sharing Best Practices

Rosann Hollinger, *Fritsche Middle School, Milwaukee, WI*

Jane Patterson Mlenar, *Greendale Middle School, Greendale, WI*

The two Presidential Awardees will share their knowledge and pedagogy as they pertain to the *Connected Math Project (CMP)* and student learning. Participants are encouraged to share their best practices. Those new to CMP or new to teaching mathematics will find ideas and conversations stimulating!

## 90 MINUTE WORKSHOPS

FRIDAY

405 1:00-2:30 pm  
Youth Center- Huber/Evans  
Grades 9-12

## Accelerating Learning in Algebra

Anna Grosgalvis, *Milwaukee Public Schools, Milwaukee, WI*

Teaching and learning algebra can be accelerated with technology and activities and strategies that involve and motivate students to use time fully and efficiently for intensive learning. An introduction to Princeton's *I CAN Learn Algebra* program will be included. Improve your students' algebra passing rate.

406 1:00-2:30 pm  
RWI-Veranda Room  
Grades 9-12

## A Year of Algebra Activities for the Reluctant Student

Mike Weidner, *Nicolet High School, Glendale, WI*

The motivation level of beginning and/or remedial algebra students will increase as teachers apply these tips, activities and strategies to their classes. As students are better able to relate algebra to "their world" they will see mathematics as more relevant and more real. (This is a repeat of the session Mike did last year at Green Lake.)

407 1:00-2:30 pm  
RWI-Crystal Room  
Grades 9-16

## Integration of Fractal Applications for Advanced Algebraic Competencies

Margaret (Peggy) Hartwig, *Marshfield High School, Marshfield, WI*

Teachers who would like to have interesting, effective applications of algebraic concepts through fractal relations will be given quality lessons which demonstrate Fractal Integration while supporting algebraic objectives. Fractal Integration will be discussed for geometric, algebraic, and complex iteration, followed by analysis of complex iteration behavior within the 'Mandelbrot Set.' Fractal Integration for sequences and series will also be discussed, followed by analysis of Sierpinski's Triangle and Tetrahedron.

## 60 MINUTE SESSIONS

FRIDAY

408 1:00-2:00 pm  
Kern-Stansbury  
Grades PK-16

## National Board for Professional Teaching Standards Informational Meeting

Karen Corlyn, *NBCT, John Burroughs Middle School, Milwaukee, WI*

This meeting is for teachers who are interested in finding out about National Board Certification or for teachers currently going through the certification process. Meet some of Wisconsin's NBCT's. This will be an opportunity to network, get your questions answered or find a mentor to assist you in the process. Share your insights and your concerns.

## 60 MINUTE SESSIONS

FRIDAY

409 1:00-2:00 pm  
Bauer-Boddie  
Grades PK-16

## WMC Has Restructured! What is New and How Can You Become a Part of This Dynamic Organization?

John Janty, *Waunakee High School, Waunakee, WI*

This session will give you the opportunity to learn about the restructured Wisconsin Mathematics Council, including the new mission statement and goals of the Council, the new board structure, and the committee opportunities. Participants will see how they can become involved in a dynamic professional organization.

(Repeat of Thursday's session 222.)

410 1:00-2:00 pm  
Lawson-Martin  
Luther King, Jr.  
Grades PK-2

## Basic Facts are Back

Mary Ndiaye, *Fifty-Third Street School, Milwaukee, WI*

Elizabeth Rogo, *Fifty-Third Street School, Milwaukee, WI*

We will present multiple strategies for teaching basic facts. These strategies are both teacher/student friendly. They greatly increase problem solving speed, accuracy, and fluency.

411 1:00-2:00 pm  
Kern-Hanson  
Grade PK-5

## Teaching Mathematics to Students with Special Needs

Elizabeth Cason, *UW-La Crosse, La Crosse, WI*

Carol Angell, *UW-La Crosse, La Crosse, WI*

This session will discuss various instructional methods to accommodate specific learning needs.

412 1:00-2:00 pm  
Kern-Boehr  
Grades K-16

## Standards, Research, and the Current State of Affairs

Gail Burrill, *Michigan State University, East Lansing, MI*

The NCTM Principles and Standards suggest a vision of mathematics teaching and learning for all students. States are creating standards and aligning them to assessments to meet the requirements of No Child Left Behind. Where are we in the task of providing quality mathematics education for all students, and what do we know that might help us move forward in productive ways?

413 1:00-2:00 pm  
Kern-Brayton Case B  
Grades 3-5

## Illuminations: What's in it for me?

Linda Uselmann, *Edgewood College, Madison, WI*

Want a guided tour of the Illuminations and E-examples website? This is it! Ideas for how to use the website at various levels will also be presented.

414 1:00-2:00 pm  
RWI-Mahaney  
Grades 3-8

## Including Differentiated Daily Practice in an Investigation Based Curriculum: A Worksheet Free Approach to Improving and Maintaining Core Mathematics Skills

Lisa Friend-Kalupa, *Glendale Elementary School, Madison, WI*

Does your current math curriculum lack daily practice opportunities for the skills your students are acquiring? Do you have students in your classroom whose skills are far below grade level, as well as students whose skills are significantly advanced? Are you looking to ensure that your students are maintaining and improving their skills, without relying on folders full of worksheets? Tic-tac-toe your way to a solution! This presentation will provide effective strategies that address student practice needs in a quick engaging way. Best of all, it's easy to carry out and allows teachers to spend their planning time planning: not waiting in line at the copier!

415 1:00-2:00 pm  
Kern-Cary  
Grades 6-8

## Using Student Portfolios in Math Class

Missy Henneman, *Wisconsin Rapids Public Schools, Wisconsin Rapids, WI*

Jody Pankratz, *Waupaca Middle School, Waupaca, WI*

Participants will take home a variety of ways to get students to reflect on their work and their mathematical thinking.

416 1:00-2:00 pm  
Kern-Johnson  
Grades 6-12

## Is Barbie Really Mathematically Perfect? Are You?

Gaila H. Olsen, *Madison Area Technical College, Madison, WI*

Mary Bartheolomew, *Madison Area Technical College, Madison, WI*

In today's society teenagers often believe that the ideal female figure should emulate Barbie's. With the help of Donald Duck, Pythagorus, DaVinci, the pentagram, Pi and the golden ratio, it's time to check on how "mathematically" perfect Barbie really is. Let's do it!

417 1:00-2:00 pm  
Kern-Brown  
Grades 9-12

## Assessment in Mathematics

Jack Burrill, *Retired Educator, Hales Corners, WI*

A discussion and examples of assessment items from multiple choice, short response, and extended response. Participants discuss how one form of an item can be transformed into another.

418 1:00-2:00 pm  
Bauer-Lightbody  
Grades 9-16

## A New Look at Fibonacci Numbers

Richard Askey, *University of Wisconsin (retired), Madison, WI*

Fibonacci numbers satisfy many identities such as  $F(n+1)F(n-1) - F(n)^2 = (-1)^n$ . Five other identities involving Fibonacci and Lucas numbers exist, and can be extended to include two more parameters. Those will be explained.

## 60 MINUTE SESSIONS

FRIDAY

419 1:00-2:00 pm  
Bauer-Beaty  
Grades 9-16

## Coping with Math Anxiety

Don K. Haussler, *UW-Sheboygan, Sheboygan, WI*

Methods for determining a personal level of math anxiety will be presented, as well as ways of coping with it and becoming a more successful student.

420 1:00-2:00 pm  
RWI-McGarvey  
Grades 9-16

## Geometric Constructions for Love and Money

Kevin Mirus, *Madison Area Technical College, Madison, WI*

Geometric constructions are sometimes skimmed over or omitted in geometry classes, but they can be a great instructional tool. In addition, a lot of constructions are just fun to do (the Love part) and applicable to real-life situations (the Money part). This presentation will provide a quick overview of some basic constructions, examine a couple of more complicated but pretty constructions, and then conclude with some examples that are useful in the architectural office, construction site and metal shop.

## 90 MINUTE WORKSHOPS

FRIDAY

421 2:30-4:00 pm  
RWI-Mahaney  
Grades PK-2

## Learning Activities, Games, and Centers that Engage Students and Focus on the K-3 Math Standards

Andrea Fossum-Grall, *Waupaca Learning Center, Waupaca, WI*

Mary Richards, *Waupaca Learning Center, Waupaca, WI*

How do you find time to do it all? We will share learning activities, games, and centers that provide students opportunities to explore, practice, and enrich math concepts-individually, in small groups, and with the whole class. Methods of finding time to free up the teacher to work with flexible groups will be discussed. Handouts, centers, and video clips will be shared with participants.

422 2:30-4:00 pm  
Kern-Stansbury  
Grades 3-5

## Learning from Students' Algorithms

Linda Uselmann, *Edgewood College, Madison, WI*

If you missed it last year, come and see how various algorithms challenge us and our students in our understandings of mathematics. Discussion includes standard, alternative, and student invented algorithms.

423 2:30-4:00 pm  
Bauer-Lightbody  
Grades 6-12

## Making Secondary Mathematics More Visual: Using Algebra Tiles from Integers to Factoring

Lonnie A. Bellman, *CPM Education Program, Sacramento, CA*

Participants will be actively engaged in using algebra tiles. Operations on polynomials will be explored all the way from integer concepts through factoring and completing the square.

## 90 MINUTE WORKSHOPS

FRIDAY

424 2:30-4:00 pm  
Kern-Brayton Case B  
Grades 6-16

**Web Page Workshop**

Jim Kasum, *Cardinal Stritch University, Milwaukee, WI*

Creating a web site using Hypertext Markup Language (HTML) can be an exciting and enjoyable problem solving experience for students at a variety of levels. Come and experience first hand this creative activity which lends itself well to projects of all kinds.

## 60 MINUTE SESSIONS

FRIDAY

425 2:30-3:30 pm  
Bauer-Beaty  
Grades 3-5

**What's RATIONAL About RATIONAL Numbers?**

Kathi Snyder, *Southern Bluffs Elementary, La Crosse, WI*

Participants in this session will explore activities that help students and their teachers move from feeling "irrational" to feeling "rational" about rational numbers!

426 2:30-3:30 pm  
Lawson-Martin  
Luther King, Jr.  
Grades 3-12

**Improved Student Performance through Aligning Curriculum, Standards, and Assessment**

Norman Webb, *University of Wisconsin, Madison, WI*

Techniques will be described for analyzing the alignment of curriculum, standards, and assessment to ensure students receive the appropriate emphasis at the level needed to do well on assessment.

427 2:30-3:30 pm  
Kern-Hanson  
Grades 6-8

**Setting the Standards for a K-12 Curriculum**

Donna Davis, *Glencoe McGraw-Hill, Baltimore, MD*

The newest of the reform programs "sets the bar" for the others. An informational workshop discussion of the uniqueness of the *Everyday Math / IMPACT Math / Core Plus* K-12 scope and sequence. The major focus of this session will be on the middle school level, IMPACT Mathematics.

428 2:30-3:30 pm  
Bauer-Boddie  
Grades 6-16

**Discovering Learning Styles**

Don K. Haussler, *UW-Sheboygan, Sheboygan, WI*

Instruments readily available to everyone will be shared which can be used to determine learning styles of students.

429 2:30-3:30 pm  
Kern-Boehr  
Grades 9-12

**Geometry on a Smart Board**

Kate Hulett, *Greendale High School, Greendale, WI*

See a variety of geometry activities with dynamic construction software, the Internet and Inspiration that foster student inquiry and understanding.



## 60 MINUTE SESSIONS

FRIDAY

430 2:30-3:30 pm  
Kern-Johnson  
Grades 9-16

## Math Cookies!

Betsy J. Banner, *Alverno College, Milwaukee, WI*

In this hands-on, entertaining session, learn how everyone's favorite after school treat can be used IN the classroom as a fabulous teaching tool! Sample cookies as you explore exercises in algebra, fen systems, and more!

431 2:30-3:30 pm  
Kern-Cary  
Grades 9-16

## A Constructivist Experiment with Closure in the Classroom

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

The presenter discusses a successful method of allowing students to provide closure in a constructivist classroom. This is an innovative way to incorporate writing in your class.

432 2:30-3:30 pm  
Kern-Brown  
Grades 9-12

## Making Noise in Trigonometry

Michael Cullen, *Cedarburg High School, Cedarburg, WI*

In this presentation, participants will use microphones and a CBL/LapPro to input sound waves to a graphing calculator. We will analyze the graphs of the sounds produced by single and multiple tuning forks. From the graphs, we will determine the frequencies of the tuning fork

## 60 MINUTE SESSIONS

FRIDAY

433 3:00-4:00 pm  
RWI-Crystal Room  
Grades 9-16

## Advanced Algebraic Card Tricks

Margaret (Peggy) Hartwig, *Marshfield High School, Marshfield, WI*

Algebraic Card Tricks are a fun and useful tool to introduce, apply, or review basic algebraic reasoning skills. The use of card tricks to represent values and bases to represent variables gives the learner tangible evidence for application of algebraic reasoning. Kinesthetic learners also benefit from the active involvement in the lesson.

434 3:00-4:00 pm  
RWI-Veranda Room  
Grades PK-8

## How to Beef Up Your Math Program In Non-Adoption Years

Mary Freytag, *Independent Educational Consultant, Sun Prairie, WI*

Good ideas abound in this hands-on, minds-on presentation to help you pinpoint where your curriculum and/or student weaknesses lie, and how you can maximize resources and beef it up. Mary will draw from supplements from *Creative Publications*, *Everyday Math* and *Growing with Math*.



The Wisconsin Mathematics Council gratefully acknowledges the support of its corporate sponsors. Their generosity helps to make the Green Lake Conference a success!

Please visit the exhibitors in Pillsbury Hall to review what's new in products and resources for your classroom.

**Exhibit Hall Hours**

**Thursday**  
8:00 am–4:00 pm

**Friday**  
8:00 am–1:00 pm

**The companies registered to exhibit at press time include:**

- |  |                              |  |
|--|------------------------------|--|
| AGS Publishing                             | Great Source Education Group | NASCO  |
| AMSCO School Publications, Inc.            | Growing with Math            | Pearson Learning Group-Dale Seymour Publications |
| Book Look                                  | Harcourt School Publishers   | Plato Learning, Inc.                             |
| Curriculum Associates/Options Publications | Hickory Grove Press          | Pearson Scott Foresman                           |
| Delta X Industries                         | Holt, Rinehart and Winston   | Prentice Hall                                    |
| Everyday Math                              | Houghton Mifflin             | Professor Numbers Mathemagic Show                |
| Glencoe/McGraw-Hill                        | Innovative Education         | Saxon Publishers                                 |
|  | Kendall/Hunt Publishing      | Rosen Real Math                                  |
|  | Knowledge Emporium Company   | Texas Instruments                                |
|  | Learning Multi-Systems       | The Science Teacher                              |
|  | Macmillan/McGraw-Hill        | Thomson/Brooks Cole                              |
|  | McDougal Littell             | Whole Movement Geometry                          |
|  | Museum Apparel               | Wisconsin Retired Educators Association          |

**Dinah Zike's Teaching Mathematics with FOLDABLES™**

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**Reading Tool**  
**Study Tool**  
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- 3-D, interactive graphic organizers
- Hands-on manipulatives
- Reading and study-skill strategies
- Makes mathematics accessible to all students

*Acceptance as an exhibitor at Wisconsin Mathematics Council conferences should not be construed as an endorsement of textbooks or products exhibited or sold by companies exhibiting.*

**Special Thanks to:**

- Prentice Hall for underwriting the conference bags.
- Texas Instruments for providing all the calculators for the conference.
- NASCO for underwriting the table favors at the WMC Annual Banquet.
- Thomson/Brooks Cole for underwriting the flowers at the WMC Annual Banquet.
- Everyday Math for underwriting the T-shirts for the student pages.

## CONFERENCE REGISTRATION INFORMATION

*Everyone who will be attending must register.*

*This includes speakers, pages, committee members, and participants.*

*Please indicate on the form which days you will be attending.*

### Important Dates

In order to receive your confirmation letter and banquet ticket by mail, you must register by April 15, 2004. After this date, you can still register, but you will be assessed a late fee and you will need to pick up your materials on-site.

### Register by Mail

Wisconsin Mathematics Council  
142 North Main Street  
Thiensville, WI 53092

### Fax

(262) 242-1862

or

### Online

at [www.wismath.org](http://www.wismath.org)

### Payment

You can pay with Mastercard, Visa, a check, or purchase order.

Payment must accompany registration forms.

### Meals

Reserve your Thursday evening banquet ticket(s) on the Conference Registration Form. There is no charge for conference participants, \$20 for guests. **You must reserve a ticket if you plan to attend.**

All other meal tickets can be reserved on the Lodging and Meal Ticket Form (page 53) which **must be** mailed directly to the Green Lake Conference Center.

### Guests

All guests must be registered per Green Lake Conference Center policy. If you are bringing a guest please call (262) 242-9418 or email us at [wismath@execpc.com](mailto:wismath@execpc.com) and we will send you a guest registration form. The daily guest fee is \$5. Guest tickets to the banquet are \$20 each.

### Cancellations

Fees include a \$25 non-refundable processing fee. All cancellations must be made in writing (fax or email is acceptable). Refunds will be issued (minus the processing fee) for cancellations received through April 30. No registration fees will be refunded after April 30, 2004.

Wisconsin Mathematics Council  
142 North Main Street  
Thiensville, WI 53092

Tel: (262) 242-9418

Fax: (262) 242-1862

Email: [wismath@execpc.com](mailto:wismath@execpc.com)

### On-site Registration

On-site Registration will take place at the Green Lake Conference Center as follows:

#### Wednesday, May 5

Pillsbury Lobby 6:00 pm to 10:00 pm

#### Thursday, May 6

Pillsbury Lobby 7:00 am to 4:30 pm

#### Friday, May 7

Pillsbury Lobby 7:00 am to 3:00 pm

# 36th Annual Green Lake Conference Registration Form

May 6-7, 2004, All-day Pre-conference May 5  
Green Lake Conference Center, Green Lake, WI

**Important:** No materials will be mailed for registrations received *after April 15*.  
After that date, you must pick up materials on-site.

Registration Information—Only one registrant per form.



Name (as you wish it to appear on your badge)

Home address City, State, ZIP

School/Organization

School/Organization Address City, State, Zip

Phone Fax Email

Home phone

**REGISTRATION:**  
(check all that apply)

- I will be attending **Wednesday**  
Choose one afternoon session:  
 Lesson Study  
 Cognitive Coaching

- I will be attending **Thursday**  
 I will be attending **Friday**

**GUESTS**

All guests must be registered per Green Lake Conference Center policy. If you are bringing a guest, please call us at (262) 242-9418 or email us at [wismath@execpc.com](mailto:wismath@execpc.com) and we will send you a guest registration form.

FEES	MEMBERS		NONMEMBERS		UNDERGRAD STUDENT MEMBER	UNDERGRAD STUDENT NON-MEMBER
	1-day	\$80	\$120	Free	\$15	
2-days	\$140	\$180	\$10	\$25		
3-days	\$200	\$240	\$20	\$35		

Fees include \$25 non-refundable processing charge. No registration fees will be refunded for cancellations made after April 30, 2004.

**METHOD OF PAYMENT**

Check enclosed Check # \_\_\_\_\_  
(Make checks payable to *Wisconsin Mathematics Council*)

P.O. #: \_\_\_\_\_

Charge my:  Mastercard  Visa

Acct #: \_\_\_\_\_

Exp. date \_\_\_\_\_

Signature \_\_\_\_\_

Check here if this is your **FIRST Green Lake Conference**

I will attend the **FIRST TIMERS' WELCOME/ORIENTATION BREAKFAST:**  
 on Thursday  
 on Friday

**BANQUET, Thursday evening at the Ridges of Ripon**  
 I plan to attend  
 I do not plan to attend

**AMOUNT OF PAYMENT**

\$ \_\_\_\_\_ **Registration Fees**  
(see chart at left)

\$ \_\_\_\_\_ **Membership Fee:**  
New/Renewal (\$35)  
Student (\$10)  
Retired (\$10)

\$ **30** **Late Fee**  
(if registering after 4/15/04)

\$ \_\_\_\_\_ **Total**

Send or fax registration forms, with the check, purchase order, or credit card information to:	Wisconsin Mathematics Council		email: <a href="mailto:wismath@execpc.com">wismath@execpc.com</a>
	142 North Main Street	Tel: (262) 242-9418	Register online at
	Thiensville, WI 53092	Fax: (262) 242-1862	<b><a href="http://www.wismath.org">www.wismath.org</a></b>

## LODGING RESERVATIONS AND MEALS

Reservations for lodging and meal tickets are separate from conference registration.

If you plan to stay at the Green Lake Conference Center you must make arrangements directly with the Center. If you plan to eat at the Conference Center, you should reserve your meal tickets ahead of time from the Center. Lunch on Thursday and Friday will be available for cash in the Big Top Tent.

### To make a lodging reservation:

1. Complete the Lodging and Reservation Meal Tickets Form on page 53.
2. **Mail or fax the form directly to the Green Lake Conference Center.** Phone or e-mail reservations will not be accepted. Note the Green Lake cancellation policy at the bottom of the Lodging Reservation Form.
3. Direct any questions regarding lodging directly to the Green Lake Conference Reservations desk at (800) 558-8898.

### Important

**Do not send lodging reservations or meal ticket requests to the Wisconsin Mathematics Council.**

They will be returned to you.

They will not be forwarded to the Green Lake Conference Center.

Accommodations at the Green Lake Conference Center range from new to rustic, from private suites to dorm-like facilities. The lodging options, with descriptions, are located on the back of the Lodging and Meal Ticket Reservation Form. Note that there are no TVs in the rooms and some rooms may not have phones and/or alarm clocks.

### No Smoking/No Alcohol

Green Lake Conference Center has a no smoking policy in all meeting, lodging, and dining rooms. There is no alcohol permitted on the Green Lake Conference Center grounds.

### Off-site Lodging

If you wish to arrange overnight accommodations outside the Green Lake Conference Center Grounds, many options are available. Contact the Green Lake Chamber of Commerce at (920) 294-3231 for information.

### Meals

Meals on the Green Lake grounds are served in the Lakeview Dining Room which is located in Pillsbury Hall. To obtain tickets, check the appropriate places on the Lodging and Meal Ticket Reservation form (page 53) that is returned directly to the Green Lake Conference Center.

In addition to the cafeteria style lunch served in the Dining Room (ticket required), box lunches will be available in the Big Top Tent for cash or meal tickets. You are encouraged to use meal tickets, even in the tent, to reduce long waiting lines.

Note that there is no food service at the Green Lake Conference Center on Thursday night. The WMC Banquet will be held Thursday night at the Royal Ridges of Ripon. Reserve your Banquet ticket on the Wisconsin Mathematics Council Green Lake Conference Registration Form, on page 51.

### Meal Hours

#### Breakfast

(Thurs. & Fri.) 7:00 am to 9:00 am

Lunch 11:00 am to 1:30 pm

#### Dinner

(Wed. only) 5:30 pm to 6:30 pm

# LODGING AND MEAL TICKET RESERVATION

Wisconsin Mathematics Council, Inc. Green Lake Conference Center  
Please make 2004 Reservations by mail or fax only.

Lodging and Meal Ticket reservations are sent directly to Green Lake and require separate payment from Conference Registration

For Information: 1-800-558-8898

Send To: Guest Services, Green Lake Conference Center  
W2511 Highway 23, Green Lake, WI 54941

Fax To: 1-920-294-3686

LAST NAME:		FIRST NAME:	
Daytime phone:			
Address:			
City:		State:	Zip:
Arrival Date:		Departure Date:	
<input type="checkbox"/> I plan to room with:	1.	2.	
	3.	4.	
**Roommates must send reservation sheets together in same envelope.**			
<input type="checkbox"/> I desire single occupancy. (If not checked, roommate may be assigned. G.L.C.C. is not liable for assigned roomates.)			

**2004 Room Rate:** Price Listed Is Per Room. All rooms are on a first come, first served basis.

Lodging Choices ( See Reverse Side Of Sheet)	Single/Db1	Triple	Quad	Five Persons	Six
Roger Williams Inn, Kern, Bauer	\$1.00	91.00	101.00	111.00	N/A
Lawson Lodge Mini Suites	\$6.00	N/A	N/A	N/A	N/A
Bauer Lodge Suites	101.00	111.00	121.00	131.00	141.00
Robbins Student Centers	47.00	57.00	N/A	N/A	N/A
Homes and Cabins	Two night minimum. See reverse side for prices.				

<b>Lodging Preference:</b>	<input type="checkbox"/> Check this box if you wish to be called if your preferred lodging is <i>not</i> available. If not checked, lodging will be assigned
First Choice:	
Second Choice:	
Third Choice:	
Deposit: Rooms and Suites - 1 night's room rate      Homes and Cabins - 1/2 total rental      Camping - full payment	

## Meal Ticket Reservation

Wednesday	<input type="checkbox"/> \$8.25 Lunch	<input type="checkbox"/> \$10.25 Dinner
Thursday	<input type="checkbox"/> \$6.50 Breakfast	<input type="checkbox"/> \$8.25 Lunch
Friday	<input type="checkbox"/> \$6.50 Breakfast	<input type="checkbox"/> \$8.25 Lunch

<b>Payment Options:</b> You will receive a confirmation card upon receipt of deposit.	
<input type="checkbox"/> Credit Card	<input type="checkbox"/> Visa <input type="checkbox"/> Master Card <input type="checkbox"/> Amex <input type="checkbox"/> Discover Card # _____ Exp. Date: _____ Signature _____
<input type="checkbox"/> Check	Make check payable to Green Lake Conference Center
<input type="checkbox"/> Purchase Order	PO # _____ School District _____

**GRAND TOTAL: Room \_\_\_\_\_ + Meals \_\_\_\_\_ = \_\_\_\_\_**

**Cancellation Policy**

Rooms: Cancellation of reservation 30 days prior to arrival will result in a full refund of the deposit. Cancellation 29 days to 72 hours prior to arrival will result in a 50% refund in the form of a gift certificate. Cancellation after 72 hours prior to arrival will result in loss of entire deposit. Houses, Cabins & Camping: 60 days prior to arrival, 50% refund; within 60 days of arrival, no refund.

## Lodging Descriptions

**\*Bauer Lodge:** Completed in May of 1998, Bauer is a sixty-four room hotel. Rooms can accommodate up to four people with two queen beds or one queen and two single beds.

**\*Bauer Lodge Suites:** These suites have a sitting area with lounge chairs and a coffee table. Also includes a small refrigerator, sink, coffee maker and microwave. Suites have a queen sofa bed and two queen beds or one queen and a single.

**\*Kern Lodge:** A modern hotel with 57 guest rooms overlooking Green Lake. Rooms can accommodate up to four people with two queen beds or one queen and two single beds.

**\*Roger Williams Inn:** A lakeside hotel with old time charm and modern day comfort. Rooms can accommodate one to four persons. Queen beds and single beds available.

**\*Lawson Lodge Mini Suites:** A quaint ten room lodge on the lakeshore. Each room has a capacity of two with a queen bed. Each room has a microwave, coffee pot and refrigerator.

**Robbins Student Centers:** These rustic accommodations are the most affordable. In these two centers, two rooms share a bathroom. Each room has a single bed and a bunk bed.

**Homes & Cabins:** Call Green Lake for descriptions.

**\*Located in main conference area.**

Home Capacities & Prices		
Home	Capacity	Nightly Rate
Barbour House	10	\$115.00
Bruce Kinney Lodge	16	\$298.00
Conwell House	8	\$102.00
Christian Writing Center	20	\$590.25
Christian Writing Center	4	\$166.75
Dawson House	11	\$248.00
Del Mar Milner House	18	\$590.25
Hobley Cottage	9	\$207.00
Montgomery Shaw	12	\$459.00

Home Capacities & Prices (Con't)		
Home	Capacity	Nightly Rate
Oncken House	15	\$419.00
Robbins House	14	\$522.00
Stambaugh House	14	\$419.00
White House	12	\$206.00

Cabin Capacities & Prices		
Cabin	Capacity	Nightly Rate
Sunshine Cabin	9	\$122.00
Albert IV, Wilson, Moore &	6	\$105.00
Howell, Kilian, Tompkins &	5	\$105.00
Anderson Leader Cabin	8	\$73.00
St Louis I & IV Cabins	8	\$73.00
St Louis II & III	4	\$80.00
Anderson Cabins (8)	6	\$73.00



## Extend Your Learning from the Conference at WMC's Summer Workshops

In response to survey data received from teachers—WMC is pleased to offer a slate of two-day summer workshops! The inter-related strands of the conference—Teacher Knowledge, Teaching Pedagogy and Student Learning—are carried through in these workshops. Many of our summer presenters are also presenting at Green Lake. So you can extend your learning from the conference at a more in-depth two-day workshop in June!

Registration materials have been mailed to all WMC members and are available at our website [www.wismath.org](http://www.wismath.org)

No need for release time! No need for substitutes! You won't want to miss these exceptional opportunities!

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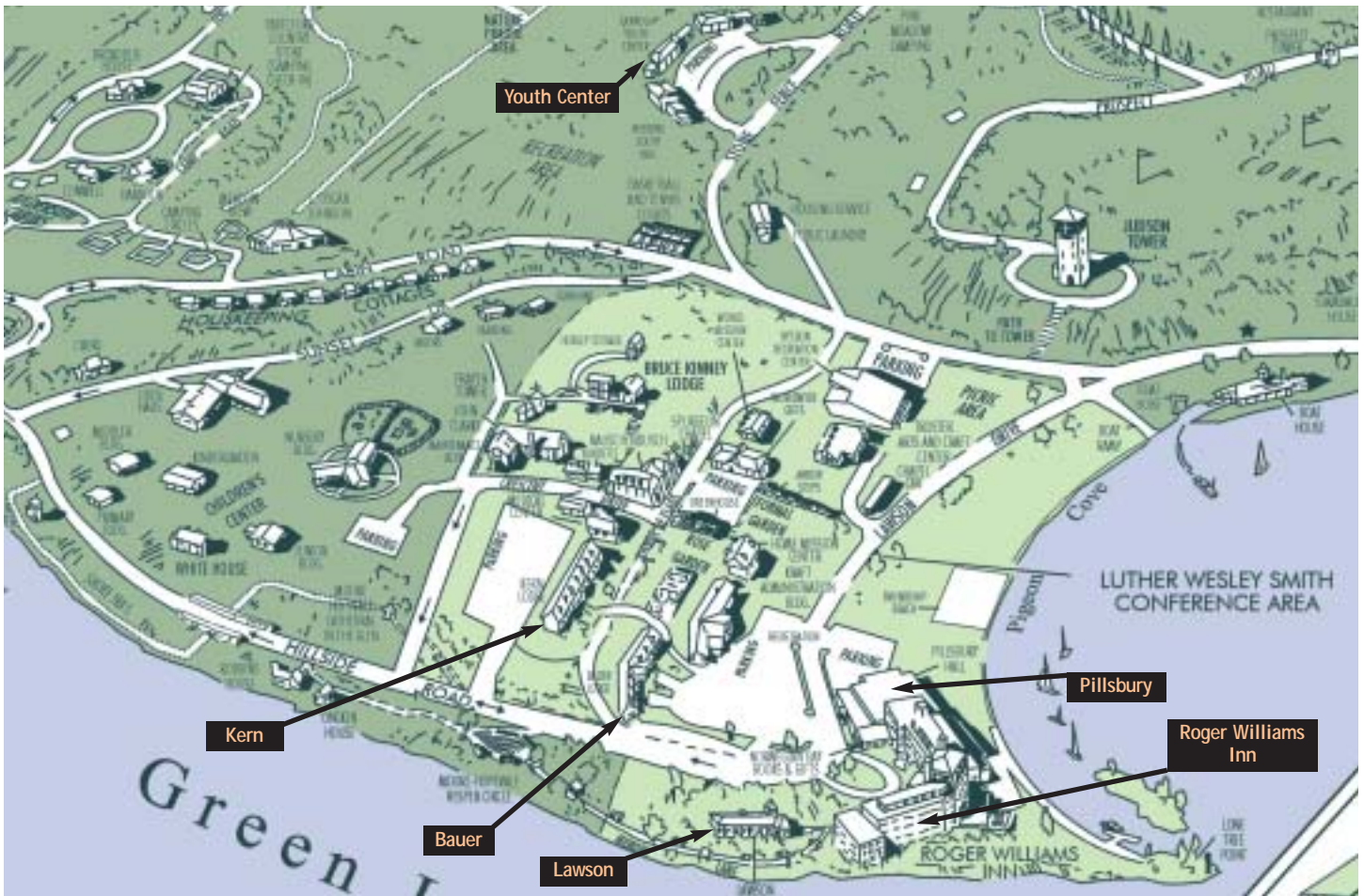
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