

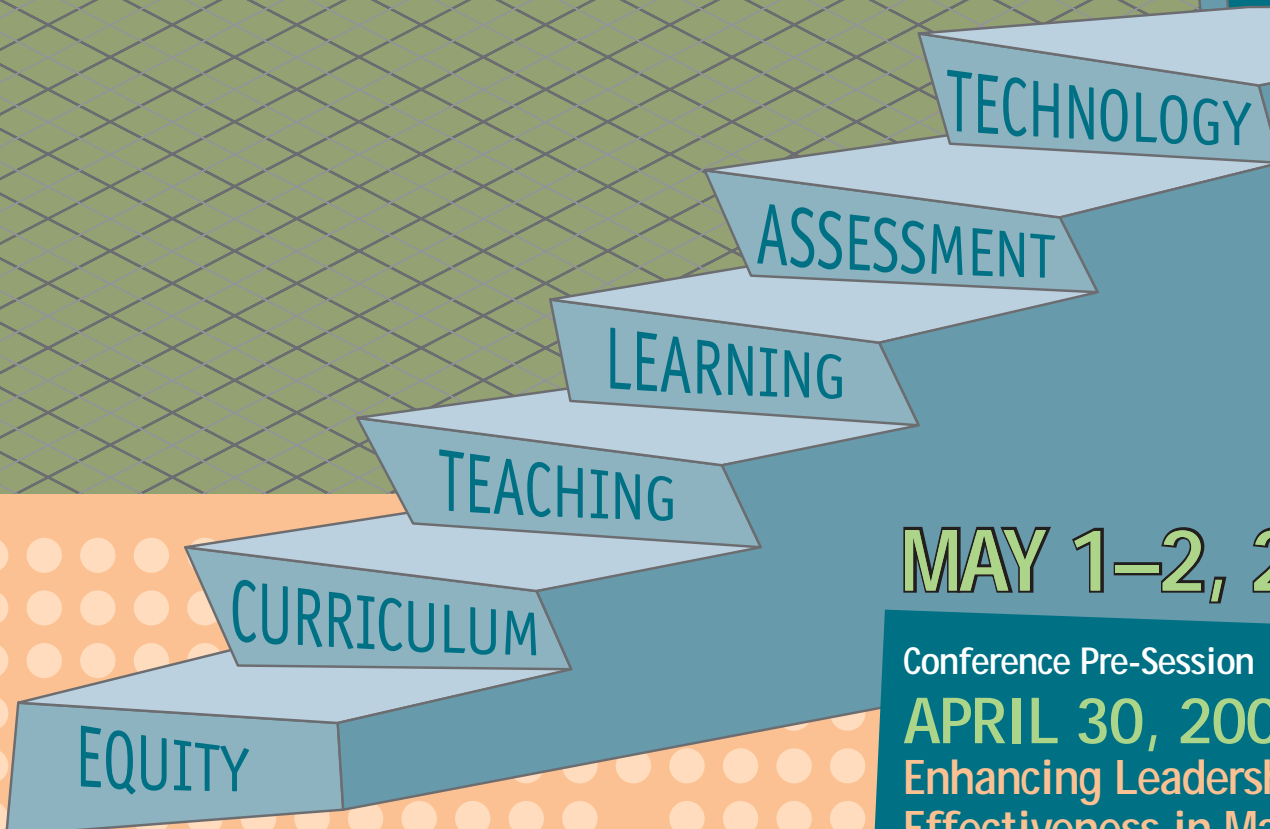
Wisconsin Mathematics Council, Inc.



35th ANNUAL GREEN LAKE CONFERENCE

A PRINCIPLED APPROACH TO MATHEMATICS PK-16

MATHEMATICS

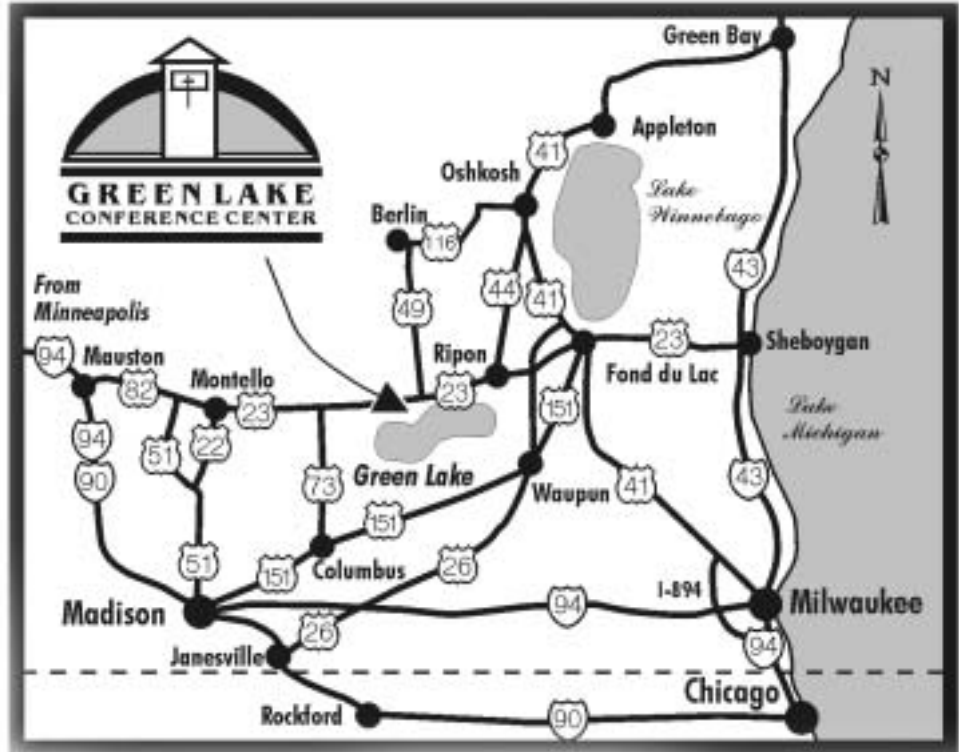


MAY 1-2, 2003

Conference Pre-Session

APRIL 30, 2003

Enhancing Leadership
Effectiveness in Mathematics



To Green Lake from:

Milwaukee	90 miles	Green Bay	80 miles
Chicago	180 miles	Oshkosh	30 miles
Madison	65 miles	Appleton	50 miles
Minneapolis	270 miles	Columbus, WI	40 miles

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.

TABLE OF CONTENTS

Welcome Messages	2
Conference and Site Information	3
Green Lake Conference 2003 Chairs, Committees and Members	4
New in 2003	5
Pre-Session	6-7
Conference Keynote Speakers (on the six principles)	8-9
Grade-Band Special Speakers	10-11
Special Meetings	12
Conference Features	13
Schedule Overview	14
WMC Board of Directors	15
Thursday Schedule	16
Friday Schedule	35
Exhibitors and Supporters	53
Presenter Index	59
GL Conference Center Map	back cover

WELCOME!



Marty Schuh
WMC President 2002-03

On behalf of the Wisconsin Mathematics Council, Inc., welcome to the 35th Annual Green Lake Conference. President-Elect Marge Wilsman and the Program Committee (chaired by Linda McQuillen) have worked hard to bring you a very special program built around the six principles from the 2000 NCTM *Principles and Standards for School Mathematics*. It's a great opportunity to get informed and excited about implementing the standards, investigate a variety of resources, and learn more about mathematics education research. It's also a chance to connect with old and new friends and colleagues. Enjoy!

Marge Wilsman, WMC President-Elect
and Green Lake 2003 Conference Chair

Linda McQuillen, Conference Program Chair,
Green Lake 2002 and 2003



This year's conference, *A Principled Approach to Mathematics*, is organized around the six principles for school mathematics: Equity, Curriculum, Teaching, Learning, Assessment, and Technology. These six principles serve as the link to all of the conference sessions.

Highlighting the theme are six keynote speakers, nationally recognized mathematics education experts, each addressing one of the principles. For each of the grade bands there are major speakers who are experts on issues related to mathematics education at the respective levels. Many high quality Wisconsin practitioners are sharing their expertise and illustrating the link between the principles and classroom practice.

The all-day Pre-Session on Wednesday, **April 30**, is packed with experiences for district mathematics leaders. The program focuses on how the NCTM principles serve as a framework for mathematics program reform and for professional development. Speakers and workshop leaders will be sharing strategies and ideas that foster more powerful leadership in mathematics education.

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*)
- Onsite Registration
- Tickets for WMC Celebration Dinner
- General Information

Conference Registration Hours

Wednesday, April 30
6:00 am to 10:00 pm

Thursday, May 1
7:00 am to 4:30 pm

Friday, May 2
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 1
9:00 am to 4:00 pm

Friday, May 2
9:00 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	2:00–4:00 pm
Kern Lobby (for Wednesday Pre-Session only)	
Thursday	3:00–4:30 pm
Pillsbury Lobby	
Friday	1:00–3:00 pm
Pillsbury Lobby	

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 Kern Lobby, Bauer Lobby, and Pillsbury Lobby. You may also mail or fax your evaluations to Wisconsin Mathematics Council, 142 North Main Street, Thiensville, WI 53092. Fax: 262-242-1862.

Session evaluations will be distributed by the presenters. Please complete the evaluations before you leave the session. Return the evaluations to the presenter. These evaluations provide valuable information for the presenters and the program committee. Your cooperation is appreciated!

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 56-58.

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.

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 57) 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 for cash or meal tickets. You are encouraged to use meal tickets, even in the tent, to reduce long waiting lines.

Meal Hours

Breakfast	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 folder at the conference.

WMC Celebration Dinner will be Thursday evening starting at 5:30 p.m. at the Royal Ridges of Ripon. Tickets to the celebration dinner are complimentary for all conference participants, but you must check the appropriate box on your Conference Registration form. To get to the 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.

GREEN LAKE 2003 CHAIRS, COMMITTEES AND MEMBERS

Conference Chair

Marge Wilsman, *Wisconsin Educational Communications Board, Madison*

Conference Committees and Members

Building Support

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

Calculators

Mike Tamblyn, *Whitewater High School, Whitewater*

Computers

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

Mike King, *St. Francis High School, St. Francis*

Andrew McIntosh, *Wisconsin Educational Communications Board, Madison*

Folders

Chris Bamberg, *Robinson Middle School, Milwaukee*

Nancy Beck Bamberg, *Webster Middle School, Milwaukee*

NCTM Materials

Connie Laughlin, *Steffen Middle School, Mequon*

Pages

Marc Goulet, *University of Wisconsin-Eau Claire, Eau Claire*

Pre-Session

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

Program

Linda McQuillen, *Mathematics Resource Teacher, Madison Metropolitan School District, Madison*

Special Events

Pete Dignan, *DePere High School, DePere*

Rae Gutschow, *Valders High School, Valders*

Welcome/Information

Donna Wagner Backus, *North High School, Eau Claire*

WMC Marketing and Promotions

Jane Fazio, *Waunakee Middle School, Waunakee*

Rick Melcher, *Lodi High School, Lodi*

Program Chair

Linda McQuillen, *Mathematics Resource Teacher, Madison Metropolitan School District, Madison*

Program Committees and Members

Elementary

Barb Borgwardt, *Galesville Elementary, Galesville*

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

Lori Williams, *Jackson Elementary School, Manitowoc*

Middle School

Rosann Hollinger, *Fritsche Middle School, Milwaukee Public Schools, Milwaukee*

Jane Patterson, *Greendale Middle School, Greendale*

High School

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

Lauren Jensen, *Wisconsin Heights High School, Mazomanie*

Pre-Session

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

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

2004 Green Lake Conference Chair

Mary Rosin, *Lincoln High School, Wisconsin Rapids*

Scheduling

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

WMC Executive Services, *Thiensville*

Evaluations

Lorna Vazquez, *Granton High School, Granton*

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 on easels and aid participants in finding alternative sessions. They will also confer with speakers and collect evaluations.

WMC Booth in Exhibit Hall—Visit Us!

Inaugurate a first for the Wisconsin Mathematics Council with a visit to its new booth in the Exhibit Hall. WMC logo items will be for sale: denim shirts, CD holders, lunch sacks, tumblers, and more. These WMC logo items replace the traditional Green Lake Conference sweatshirts/t-shirts.

WMC is getting into the sale of logo items on a gradual basis. If the logo items sell out early, you still have the option of purchasing whatever your math-centric heart desires and having it delivered to your door. Samples will be available for ordering.

You can also find WMC Membership materials and Board Members to answer your membership questions.

Also watch for the door prize drawing at the WMC Booth—prizes contributed by the Exhibit Hall Vendors.

Two Special Events

The Special Events are for absolutely everyone and we hope that everyone will attend!

Warm-Up Social

Wednesday, April 30, 2003, from 7:00 pm to 9:00 pm
Roger Williams, Inn Crystal Room

For everyone attending Green Lake 2003. An informal evening of friends, food, and fun! Rendezvous with old friends and meet new ones. There will be snacks and refreshments to enjoy—those that are good for you and some which are just very good. Try your luck at the raffle of new WMC logo items. Games will also be available to enjoy. Join us!

WMC Celebration Dinner

Thursday, May 1, 2003, from 5:30 pm to 8:00 pm
Doors open at 5:30 pm for drinks and socializing
Buffet serving begins at 6:00 pm

Royal Ridges is the place to be for a mouth-watering buffet, recognitions and awards, and entertainment—a more formal celebration than the Warm-Up Social. Tickets are free for conference registrants. A limited number of guest tickets are available. See Conference Registration Area for information.

A Master of Ceremonies will orchestrate the events, beginning with the presentation of awards: three Scholarship Awards (named for Arne Engebretsen, Ethel A. Neijhar, and Sister Mary Petronia Van Straten), the 25-year Awards, Mathematics Team Awards, and the Distinguished Mathematics Educator Awards. The Presidential Awardees will also be recognized.

Entertainment will begin with Eric Schluter, Washington High School, Milwaukee, providing a 1978 musical “Name That Tune” review in honor of the 25-Year Awardees.

Then “Musical Staff” will be performed by Wavelength—an improvisational acting troupe from Chicago that was conceived in 1979 by a former high school English teacher. Wavelength’s goal is to provide a humorous perspective to the issues and challenges within education. *Teacher Magazine* said a Wavelength show is “like an edition of Saturday Night Live” written especially for educators. Wavelength have performed for more than one million people in educational organizations worldwide.

“Musical Staff” is a bonanza of musical parodies, *a la* “The Capitol Steps,” that skewers the current educational climate. Audience favorites include: “Hello, W” (a Barbara Streisandesque salute to President Bush); “Summer’s Coming” (a take-off of Grease’s “Summer Lovin”); and “Don’t Cry To Me Whiney Students” (Evita’s “Don’t Cry for Me Argentina”).

Enhancing Leadership Effectiveness in Mathematics Education

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

Keynote Speakers



Glenda Lappan, University Distinguished Professor, Department of Mathematics, Michigan State University, has published over 100 scholarly papers and numerous books for middle grade students and teachers. Her research and development interests are in the connected areas of students' learning of mathematics and mathematics teachers' professional growth and change at the middle and secondary levels. She has served as the Program Director for Teacher Preparation at the NSF; as the chair of the grades 5-8 writing group for the NCTM *Curriculum and Evaluation Standards for School Mathematics* (1989); as chair of the NCTM Commission on Teaching Standards for School Mathematics (that published *Professional Standards for Teaching Mathematics* in 1991); as President of the NCTM during the development and release of the *Principles and Standards for School Mathematics* (2000), and is currently the co-director of the *Connected Mathematics Project II*.

Timothy D. Kanold received his Ph.D. in Educational Leadership and Counseling Psychology from Loyola University. Tim is currently Superintendent at Adlai Stevenson High School District 125 in Lincolnshire, Illinois, where for 17 years he served as Director of Mathematics. Tim is co-author of 27 mathematics textbooks for grades 6–12, written for Houghton Mifflin/McDougal Littell and Glencoe Publishing Companies from 1988 to the present. He continues to write and present for the National Council of Teachers of Mathematics on the *Principles and Standards for School Mathematics*, as well as for the American Association of School Administrators and the National Association of Secondary School Principals. Tim has presented more than 500 talks and seminars nationally and internationally over the past decade with the primary focus on the creation of equitable learning experiences for all children.



John (Jack) Moyer received his Ph.D. from Northwestern University in mathematics education. He has been a professor of mathematics at Marquette University for the past 28 years, teaching mathematics and mathematics education courses. He has written numerous mathematics education articles and chapters in mathematics education yearbooks. He was the co-principal investigator of the Linked Learning in Mathematics Project. He has been an investigator/director of more than 30 private- and government-funded projects, most of which have furthered the professional development of Milwaukee-area middle school teachers and the mathematics development of their students. Recent projects have investigated the development of proportional reasoning (QUASAR, Ford Foundation, 1990-97) on algebraic thinking (Leadership for Urban Mathematics Reform, NSF, 1994-97; Preparing for Algebra Through Community Engagement, HUD, 1995-96; Linked Learning in Mathematics Project, NSF, 1997-2000) in teachers and their students.

The 2003 Green Lake Conference Pre-Session 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-Session?

- 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 put together this day. This pre-session 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-session is an effort to formalize that support and create momentum for future actions.

CONFERENCE PRE-SESSION SCHEDULE

7:30 REGISTRATION

8:00 CONTINENTAL BREAKFAST

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

Marge Wilsman, *Wisconsin Educational Communications Board, Madison, WI*
WMC President-Elect and 2003 Green Lake Conference Chair

8:45 **Using Principles and Standards for School Mathematics (PSSM) in Mathematics Leadership**

Glenda Lappan, *Professor of Mathematics, Michigan State University, East Lansing, MI*

Why teacher leaders need to know and use the PSSM, how they define the areas of change for teacher leaders to address, and how the framework of the PSSM helps teacher leaders connect this work to issues of equity.

9:45 BREAK

10:00 **Exemplary Leadership**

Timothy D. Kanold, *Superintendent, District 125, Lincolnshire, IL*

Key practices in mathematics leadership that lead to school-wide commitment to equity and access for all students.

11:00 **Choice Sessions: Choose one.**

1. Panel: **Getting Reform Started** (Kern-Brown)

Linda McQuillen, *Mathematics Resource Teacher, Madison Metropolitan School District, Panel Chair*. Phillips School District: Barb Meyers, *Phillips Elementary, Phillips, WI* and Julie Olson, *Catawba Middle School, Catawba, WI*. Germantown School District: Karen Reiss Wilcox, *K-12 Curriculum Specialist, Germantown High School, Germantown, WI*. Milwaukee Public Schools: Henry Kranendonk, *Acting Curriculum Specialist for K-12 Mathematics*, Janis Freckmann, *Elementary Mathematics Coordinator* and Lois Womack, *Elementary Mathematics Support Teacher, Milwaukee Public Schools, Milwaukee, WI*

Hear how three different size districts began the reform process.

2. Presentation: **Maximize Professional Development Opportunities** (Kern-Boehr)

Susan Hanson-Otis, *K-12 Mathematics Resource Teacher and Coordinator, Franklin Public Schools, Franklin, WI* and Sue Chmielinski, *Elementary Mathematics Coordinator, Wauwatosa School District, Wauwatosa, WI*

Learn about the components of an effective professional development plan and how to select strategies that meet the goals of the plan.

3. Presentation: **Bring Parents Along with the Reform** (Kern-Hanson)

Faye Hilgart, *Mathematics Resource Teacher, Madison Metropolitan School District, Madison, WI* and Robert Wiedholz, *Hamilton Middle School, Madison, WI*

Learn some strategies for helping parents understand standards-based curriculum.

4. Share Session: **Issues for New Mathematics Leaders** (Kern-Johnson)

Diana Kasbaum, *Title 1 Consultant, Department of Public Instruction, Madison WI* and Kathi Snyder, *Southern Bluffs Elementary School, La Crosse, WI*

Share concerns, ask questions, and discuss issues unique to new mathematics leaders.

12:00 LUNCH

With your registration you can purchase a ticket and eat lunch in the Lakeview Dining Hall, Pillsbury Hall, on the Green Lake Conference campus.

1:00 **Using Case Studies in Professional Development**

Jack Moyer, *Professor of Mathematics, Marquette University, Milwaukee, WI*

Representative samples of case studies will be presented to help mathematics leaders learn how to use them to help teachers understand how children learn mathematics, how to teach mathematics, and how to choose the mathematics to teach.

3:30 **Next Steps**

Marge Wilsman, *Wisconsin Educational Communications Board, Madison, WI*
WMC President-Elect and 2003 Green Lake Conference Chair

4:00 ADJOURN

CONFERENCE KEYNOTE SPEAKERS

All Keynote presentations will be held in Kern-Brayton Case A & B



Walter Secada

Walter Secada, Professor of Curriculum and Instruction in the School of Education at the University of Wisconsin-Madison, directs Diversity in Mathematics Education, an NSF-funded center for learning and teaching. He has directed an OESE-funded Comprehensive Center for Region VI and the Hispanic Dropout Project, was senior author of its final report, *No More Excuses*, and just completed a term as editor of the AERA journal *Review of Research in Education*. Currently, he is writing a research synthesis on the teaching of mathematics to minority language students, completing a study on opportunity to learn mathematics among Peru's indigenous highland peoples, studying highly effective urban schools for the teaching of school mathematics, and helping secondary mathematics teachers to develop classrooms that promote student understanding.

The Equity Principle Session 124 Thursday, 9:30 am–10:30 am

Glenda Lappan, University Distinguished Professor, Department of Mathematics, Michigan State University, has published over 100 scholarly papers and numerous books for middle grade students and teachers. Her research and development interests are in the connected areas of students' learning of mathematics and mathematics teachers' professional growth and change at the middle and secondary levels. She has served as the Program Director for Teacher Preparation at the NSF, as the Chair of the grades 5-8 writing group for the NCTM *Curriculum and Evaluation Standards for School Mathematics* (1989); as chair of the NCTM Commission on Teaching Standards for School Mathematics (that published *Professional Standards for Teaching Mathematics* in 1991); as President of the NCTM during the development and release of the *Principles and Standards for School Mathematics* (2000), and is currently the Co-Director of the Connected Mathematics Project II.



Glenda Lappan

The Curriculum Principle Session 139 Thursday, 11:00 am–noon



Gail Burrill

Gail Burrill, Michigan State University, earned degrees in mathematics at Marquette University and Loyola. She was a secondary teacher and department chair in suburban Milwaukee and an associate researcher at the University of Wisconsin—Madison. She served as President of the NCTM and as Director of the Mathematical Sciences Education Board. As an instructor for Teachers Teaching with Technology she does workshops around the country on using technology in the classroom. Her honors include the Presidential Award for Excellence in Teaching Mathematics and the Wisconsin Distinguished Educator Award. She was on the National Board for Professional Teaching Standards, is currently a member of the Advisory Board of the Woodrow Wilson National Fellowship Foundation, and director of the senior high school component of the Park City Mathematics Institute.

The Teaching Principle Session 215 Thursday, 1:00 pm–2:00 pm

CONFERENCE KEYNOTE SPEAKERS

Carol Malloy, Associate Professor in Mathematics Education in the School of Education at the University of North Carolina at Chapel Hill, is the coordinator of the MAT secondary certification program, and teaches secondary mathematics methods courses, mathematics courses for middle and elementary students, and Ph.D. courses in curriculum and foundations. She was on the NCTM Board of Directors, the NCTM Standards 2000 writing team, and served as the President of the Benjamin Banneker Association. Her research interests are mathematics learning, the influence of culture on cognitive development of African American students as it relates to mathematics learning, and teacher/student interactions that lead to understanding in mathematics. She is currently working on a major NSF grant to study students' development as mathematical learners in reform oriented classrooms.



Carol Malloy

The Learning Principle Session 338 Friday, 11:00 am–noon



Jeremy
Kilpatrick

Jeremy Kilpatrick, Regents Professor, Mathematics Education, Department of Education at the University of Georgia in Athens, holds degrees from Stanford University and the University of California at Berkeley. He taught courses in mathematics education at several European and Latin American universities; received Fulbright awards for work in New Zealand, Spain, Colombia, and Sweden; was a charter member of the U.S. Mathematical Sciences Education Board; and served as Vice President of the International Commission on Mathematical Instruction. In addition to publishing many books and articles, he has done extensive editorial work, including a volume on the research accompanying the 2000 NCTM *Principles and Standards for School Mathematics*. He chaired a committee of the National Research Council to review the research on mathematics learning from grades K-8 and edited the committee publication *Adding It Up*.

The Assessment Principle Session 413 Friday, 1:00–2:00 pm

Allan Bellman was a high school teacher for 32 years before taking a position with the University of California. During his mathematics teaching career he has worked on ways to use technology effectively in the teaching and learning of mathematics. His particular area of interest is to expand on the opportunity that both handheld and computer-based technologies have created to allow mathematics teachers and students to work with “real-world” and “hands-on” mathematics. He is an author of numerous secondary textbooks and is a frequent speaker on topics dealing with the use of technology in the teaching of mathematics. He is currently on the faculty of the School of Education of the University of California at Davis.



Allan Bellman

The Technology Principle Session 322 Friday, 9:30 am–10:30 am

ELEMENTARY



Angela Giglio Andrews has an M.Ed in Early Childhood Education from National Louis University where she is an associate adjunct in the Mathematics and Early Childhood Departments. She has taught preschool and kindergarten and is currently working in Naperville, Illinois, as a remedial and accelerated mathematics teacher for grades 1-5. She has served on local, state, and national mathematics committees and has written articles on early childhood mathematics. She edited the Early Childhood Corner for the NCTM *Teaching Children Mathematics* and served on the editorial panel of that journal. She was a member of the PreK-2 writing team for the NCTM *Principles and Standards for School Mathematics* (2000), and co-authored *Little Kids: Powerful Problem Solvers*.

Session 310, **Little Kids—Powerful Problem Solvers**, Friday 8:00–9:00 am, RWI-Crystal Room repeated as Session 420, **Little Kids—Powerful Problem Solvers**, Friday 2:30–3:30 pm, Kern-Brown

MIDDLE



Elizabeth Difanis Phillips is a Senior Academic Specialist, Department of Mathematics, at Michigan State University where she teaches mathematics courses and mathematics methods courses for elementary and secondary teachers. She has been the director or principal investigator of several teacher enhancement, curriculum development, and research grants in mathematics education at the middle and high school levels. She has chaired and edited multiple NCTM committees and publications, including the Algebra Working Group. She is co-author of *The Connected Mathematics Project* and director of the CMP satellite for the Show-Me-Center for dissemination of NSF-funded middle school projects. She is also a principal investigator of the NSF grant to revise the CMP curriculum and develop professional development materials for CMP. Her on-going interests are in the teaching and learning of mathematics.

Session 132, **CMP—A Coherent Mathematics Curriculum for the Middle Grades**, Thursday 10:00–11:30 am, Kern-Boehr/Cary

SECONDARY



Christian Hirsch is a Professor in the Department of Mathematics at Western Michigan University in Kalamazoo, Michigan. He currently teaches courses in mathematics for teachers in Mathematics Education. He was a member of the National Council of Teachers of Mathematics first Commission on the Standards for School Mathematics, and chaired the Curriculum Working Group for grades 9-12. Since 1992, he has been Director of the Core-Plus Mathematics Project.

Session 219, **A Principled Analysis and Evaluation of the Core-Plus Mathematics Program**, Thursday 1:00–2:00 pm, Bauer-Morehouse C

ELEMENTARY

Susan B. Empson is an Assistant Professor of Mathematics Education at the University of Texas at Austin. She studies teacher-student interactions in elementary mathematics in urban schools, with a focus on how interactions build on students' invented strategies. She earned her Ph.D. in Mathematics Education at the University of Wisconsin-Madison while working on the Cognitively Guided Instruction project. Before attending graduate school, she taught high school mathematics in Harlem, New York City, and in the Peace Corps in Morocco. She has published articles in *Cognition and Instruction*, *Journal for Research in Mathematics Education*, *Journal of Mathematics Teacher Education*, *Journal of Curriculum Studies*, and in *Teaching Children Mathematics*.

Session 145, **Cultivating Understanding and Identity in Classroom Interactions: The Case of Low-Performing Students**, Thursday 11:00 am–noon, Kern-Stansbury repeated as Session 220, **Cultivating Understanding and Identity in Classroom Interactions: The Case of Low-Performing Students**, Thursday 2:30–3:30 pm, Kern-Brayton Case A & B



MIDDLE

Susan Friel is Associate Professor in Mathematics Education at the University of North Carolina at Chapel Hill. She works extensively with pre-service and in-service teachers at the middle and elementary levels. She is one of the authors of the Connected Mathematics Project materials and is also serving as the editor for the Grades 6-8 *Navigations* series being published by the National Council of Teachers of Mathematics.

Session 106, **Teaching and Learning in a Connected Mathematics Classroom**, Thursday 8:00–9:30 am, Kern-Boehr/Cary
 Session 341, **New Directions in Statistics Education Using Tinkerplots**, Friday 11:00 am–noon, RWI-Crystal Room



SECONDARY

Laurie Boswell is currently a member of the NCTM Board of Directors; a mathematics teacher, mathematics coordinator, and computer coordinator at the Profile Junior/Senior High School in Bethlehem, New Hampshire, and the Program Chair for the 2003 NCTM annual conference in San Antonio. She has been a college and university Lecturer, Instructor and Adjunct Professor as well as an NSF Institute Lead Teacher. She has had multiple mathematics teacher leadership roles in New Hampshire and in the nation and has served as President of the Council of Presidential Awardees in Mathematics. In addition, she has co-authored multiple algebra and geometry texts and professional journal articles.

Session 201, **Algebra Activities: Disguise the Practice and Engage ALL Students**, Thursday, 1:00–4:00 pm, RWI-Crystal Room
 Session 333, **Geometry Projects: Directions, samples, and Rubrics**, Friday, 10:00–11:30 am, Bauer-LaDue



SPECIAL MEETINGS

Wisconsin Mathematics Leadership Council

(Formerly the Wisconsin Mathematics Coordinators)

Wednesday, April 30 ■ 6:00 pm to 7:30 pm

RWI-Veranda Dining Room

Anyone serving in a leadership capacity in your district or school (Mathematics Coordinator, District/Building Mathematics Curriculum Leaders, Mathematics Department Chairs) is invited to attend. You may pick up your dinner in 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. We will adjourn to attend the Warm-up Social that starts at 7:00 pm in the adjacent Crystal Room.

First Timers' Welcome/Orientation

Thursday, May 1 and Friday, May 2
(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.

National Board Certification

Thursday, May 1 ■ 7:00 am to 7:45 am

Pillsbury Hall-Lakeview Dining Room

National Board Certification? Who has done it? What do you do? When does it happen? Why do it? If you are interested in finding out more about the process, join us... Karen Kahn Corlyn, Burroughs Middle School, Milwaukee Public Schools; Jane Patterson Mlenar, Greendale Middle School and Andy Kuemmel, Brookfield Central High School as well as other NBPTS Certified Wisconsin Teachers will be available for the discussion. Look for the table signs telling you where to bring your breakfast.

CALCNET-WI Reunion

Thursday, May 1 ■ 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 1 ■ 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 1 ■ 4:30 pm to 5:00 pm

Kern-Brayton Case

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 2 ■ 7:00 am to 9:00 am

RWI-Crystal Room

Join us for breakfast with Jeremy Kilpatrick, University of Georgia. Following breakfast there will be a presentation by Dr. Kilpatrick on the work in the 2001 volume *Adding It Up: Helping Children Learn Mathematics*. He served as Chair of the National Research Council Mathematics Learning Study Committee that examined the research on mathematics learning from grades K to 8. Their work resulted in this book on the research accompanying the NCTM *Principles and Standards for School Mathematics*.

Make your breakfast reservations by contacting Anne Frihart, NPRIME Project Assistant, at 608-264-9686, afrihart@ecb.state.wi.us, or online through the NPRIME network.

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

For middle school teachers...

As middle school teachers using the **Connected Mathematics Project** materials, we would like to point out to others using those materials that there are a number of excellent sessions and workshops that are relevant to CMP users. We are fortunate this year to have CMP authors Glenda Lappan, Betty Phillips, and Susan Friel on the program as major speakers. We hope you will take advantage of this fabulous opportunity to work directly with the leaders in the Connected Mathematics Project on Thursday. Even if you don't use this curriculum, it promises to be a marvelous math experience!

Rosann Hollinger, *Fritsche Middle School, Milwaukee, WI, Green Lake Conference Program Committee*

Jane Patterson, *Greendale Middle School, Greendale, WI Green Lake Conference Program Committee*

Jane Fazio, *Waunakee Middle School, Waunakee, WI Green Lake Conference Planning Committee*

For high school teachers...

Since there is such growing interest in Wisconsin in the **Core-Plus** high school reform program, we would like to point out some sessions to teachers using those materials and to those interested in learning more about them. Christian Hirsch, one of the authors of the series, is one of the major speakers on the program and will be sharing the latest research on the effectiveness of the Core-Plus program. Beth Ritsema, one of the mathematicians on the project and an implementation specialist, is also on the program and in addition will be hosting a special event for those interested. On Wednesday evening at 8:30 in the Veranda Room in Roger Williams Inn, Beth is hosting a get-together for the purpose of networking with others interested in Core-Plus. Look for these special features in this year's conference along with the many excellent workshops presented by classroom practitioners using Core-Plus materials!

Mary Rosin, *Lincoln High School, Wisconsin Rapids, WI, Green Lake Conference Planning Committee*

Linda McQuillen, *Madison Metropolitan School District, Madison, WI, Green Lake Conference Program Chair*

CMP Sessions

All sessions are on **Thursday** in Kern-Boehr/Cary

8:00–9:30 am	106	Teaching and Learning in a Connected Mathematics Classroom <i>Presented by Susan Friel</i>
10:00–11:30 am	132	CMP—A Coherent mathematics Curriculum for the Middle Grades <i>Presented by Elizabeth Phillips</i>
1:00–2:30 pm	209	Assessing and Learning in a Connected Mathematics Classroom <i>Presented by Christopher Danielson</i>
3:00–4:30 pm	228	Equity and Opportunity in a Connected Mathematics Classroom <i>Presented by Rosann Hollinger, Jane Patterson and Jane Fazio</i>

Special thanks to Prentice Hall for underwriting this strand of sessions.

Core-Plus Sessions

WEDNESDAY

8:30 pm	Core-Plus Users' Networking Event
RWI-Veranda Room	Join us for refreshments and conversation—learn how Core-Plus is being implemented in districts throughout the state

Special thanks to Glencoe/Mc-Graw Hill for underwriting this networking event!

THURSDAY

10:00–11:30 am	135	Effective Implementation of the Core-Plus Mathematics Program: What Have We Learned <i>Presented by Beth Ritsema</i>
Kern-Johnson		

FRIDAY

1:00–2:00 pm	219	A Principled Analysis and Evaluation of the Core-Plus Mathematics Program <i>Presented by Chris Hirsch, Western Michigan University, Kalamazoo, MI</i>
Bauer-Morehouse C		

SCHEDULE OVERVIEW

Wednesday April 30, 2003

- 7:30 am Pre-Session Registration and
- 8:00 am Continental Breakfast
- 8:30 am Pre-Session Begins
- 12:00 pm Lunch
- 12:00 pm to 7:00 pm Exhibitor Set Up
- 3:30 pm to 4:30 pm DPI Clock Hours forms available
(for Wednesday Pre-Session only)
- 5:30 pm to 6:30 pm Dinner
- 6:00 pm to 10:00 pm Conference Registration
- 6:00 pm to 7:30 pm Mathematics Leadership
Council Meeting
- 7:00 pm to 9:00 pm Green Lake Warm-Up Social

Thursday May 1, 2003

- 7:00 am to 4:30 pm Conference Registration
- 7:00 am to 7:45 am First Timers' Orientation
- 7:00 am to 7:45 am National Board
Certification discussion
- 7:00 am to 7:45 am CALCNET-WI Reunion
- 7:00 am to 9:00 am Breakfast
- 9:00 am to 4:00 pm Exhibits
- 11:00 am to 1:30 pm Lunch
- 12:00 pm to 1:30 pm WMC Presidents' Luncheon
- 3:00 pm to 4:30 pm DPI Clock Hours Forms Available
- 4:30 pm to 5:00 pm WMC Annual Meeting
- 5:30 pm to 8:00 pm WMC Celebration Dinner

Friday May 2, 2003

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

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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 57.

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

Pillsbury-Lakeview
Dining Room

National Board Certification Meeting

If you are interested in finding out more about the National Board Certification process, join us. NBPTS Certified Wisconsin Teachers will be available for discussion. Look for the table signs telling you where to bring your breakfast.

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 7:30-9:00 am

Bauer-LaDue
Learning Principle
Teaching Principle
Grades 8-13

Problems and Projects for Students in Advanced Mathematics

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

A hands on approach to learning in higher levels of mathematics 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.

101 7:30-9:00 am

Bauer-Beaty
Curriculum Principle
Grades 9-16

Launch Windows—Planning a Mission to Mars

Patrick Huth, *NASA Glenn Research Center, Cleveland, OH*

This presentation describes the mathematical concepts and procedures used to calculate a trajectory for a Mars-bound spacecraft, showing how algebra and geometry are interconnected and focusing on an important application of mathematics.

60 MINUTE SESSIONS

THURSDAY

102 7:30-8:30 am

Bauer-Morehouse A
Technology Principle
Grades K-2

Shapes

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

Participants in this session will be introduced to the variety of activities supported by the "Shapes" 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.

60 MINUTE SESSIONS

THURSDAY

103 7:30-8:30 am
Bauer-Morehouse B
Technology Principle
Grades 9-12

Incorporating Illuminations and Wisconsin Standards into the High School Classroom

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

Come see how we incorporate *Illuminations* into our high school classrooms.

90 MINUTE WORKSHOPS

THURSDAY

104 8:00-9:30 am
Lawson-Martin
Luther King, Jr.
Equity Principle
Grades PK-16

Leave No Child Behind: Helping ALL Students Achieve Success in Mathematics

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

Equity is first and foremost about opportunity to learn. Teaching strategies, grouping practices, curriculum offerings, and consistently high expectations are all equity issues. Participants will learn how best practices address equity, and what the research says to classroom teachers as they seek to address the needs of all learners.

105 8:00-9:30 am
Kern-Brown
Learning Principle
Grades K-2

What Does it Take to Become a Kid Mathematician?

Leona Peters, *University of Illinois at Chicago, Chicago, IL*

Samples of student work, classroom video clips, and hands-on activities will be used to focus discussion on the role of communication and problematic tasks in developing young mathematicians.

106 8:00-9:30 am
Kern-Boehr/Cary
Teaching Principle
Learning Principle
Grades 6-8

Teaching and Learning in a Connected Mathematics Classroom

Susan Friel, *University of North Carolina-Chapel Hill, Chapel Hill, NC*

Welcome to all those who want to participate in a rich, standards-based experience! Whether you are a *Connected Mathematics* (CMP) user or not, you will enjoy this first of four sessions today. Susan Friel, author of *Connected Mathematics*, will explore the Teaching and Learning Principles using CMP. You will discuss the Launch, Explore, Summarize instructional format and see what it has to offer our young mathematicians.



107 8:00-9:30 am
RWI-Crystal Room
Technology Principle
Grades 9-12

A Touch of the GPS?

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

Feeling a bit “under the weather”? Don’t know much about GPS? Come hear about some applications of the Global Positioning System and why it works the way it does. Learn what UTM coordinates are, and play with some basic operations of the GPS receiver. If you have a GPS unit, please bring it.

90 MINUTE WORKSHOPS

THURSDAY

108 8:00-9:30 am
Kern-Johnson
Curriculum Principle
Grades 10-13

Problems, Problems, Problems! Interesting Problems and Data Collection Activities for the Advanced Algebra/Trigonometry Class

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

Participants will work on “classroom activities” that they can use to enrich their advanced algebra and trigonometry classes.

109 8:00-9:30 am
RWI-Mahaney
Technology Principle
Curriculum Principle
Learning Principle
Grades 10-13

Thinking Calculus Thoughts in Core-Plus

Mary O'Brien Cotherman, *Ashland High School, Ashland, WI*

Are students in Core-Plus getting the background they need for AP Calculus? A look at Core 1, 2, 3, and 4 and how these courses relate and prepare students for AP Calculus.

60 MINUTE SESSIONS

THURSDAY

110 8:00-9:00 am
Kern-Stansbury
Curriculum Principle
Grade K

If There Are Seven Fish in the Pond...?

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

“I Love Math!” Using literature, manipulatives, and more to teach a standards-based curriculum to enthusiastic kindergartners.

111 8:00-9:00 am
Kern-Hanson
Equity Principle
Grades K-5

Math Investigations: Helping Parents to Help Their Children

Eddie Jones, Jr., *Grantosa Drive Elementary School, Milwaukee, WI*

Kirsten L. Burks, *Palmer Elementary School, Milwaukee, WI*

The presentation will give ideas to teachers on ways to involve parents in helping students to meet high mathematical achievement by giving strong support at home using *Math Investigations*.

112 8:00-9:00 am
RWI-McGarvey
Teaching Principle
Grades 5-8

Implementing *MathThematics*

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

A round-table discussion format will be used for teachers who are currently using *MathThematics* to share information, ideas, and strategies as well as ask questions about implementation of this middle school NSF program.

113 8:00-9:00 am
Kern-Brayton Case A & B
Teaching Principle
Grades 5-9

Teaching Algebra in Early Grades

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

A progression of context problems will be presented to develop algebra beginning in grade 5 informally and progressing to the formal in grades 8 and 9.

60 MINUTE SESSIONS

THURSDAY

114 8:00-9:00 am
Bauer-Morehouse C
Technology Principle
Grades 6-16

SMETIS: Secondary Mathematics Educational Technology Implementation Study

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

Presentation of findings from a study that researched how technology is implemented in math classrooms across northwestern Wisconsin. (Repeated as session 315.)

115 8:00-9:00 am
Bauer-Lightbody
Technology Principle
Grades 9-12

Do Even More with Your Graphing Calculator!

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

Get even more out of your graphing calculator with “applications.” We will explore: transform, inequality, geomaster, probability simulator, and more....
(Repeated as session 342.)

116 8:00-9:00 am
RWI-Veranda Room
Curriculum Principle
Grades 9-12

Core-Plus: Standards, Tips, Success for All Students

Ann Lewis, *Glencoe/McGraw-Hill, Newark, DE*

Core-Plus is the number one integrated high school curriculum. See how it relates to the Wisconsin and National Standards; learn implementation and teaching tips, and discover how all students can succeed in mathematics.

117 8:00-9:00 am
Bauer-Boddie
Learning Principle
Grades 10-16

Three by Three Systems of Equations: More Than Just a Point

Joseph Ordinans, *Homestead High School, Mequon, WI*

When students learn 3x3 systems of equations, they investigate the seven possible outcomes of solving these systems by building on their knowledge of 2x2 systems.

3 HOUR EXTENDED WORKSHOPS

THURSDAY

118 8:30-11:30 am
Youth Center- Huber/
Evans Room
Curriculum Principle
Grades PK-16

Curriculum: What? When? Why?

Jodean Grunow, *UW-Platteville, Platteville, WI*

Focused on important mathematics, coherent, articulated—what does an effective curriculum look like? How does a curriculum reflect what we know about student learning? What kinds of investigations engender understanding? How, then, do we evaluate the effectiveness of the curriculum? Come, contribute, experience, conclude....

119 8:30-11:30 am
Youth Center-
Oliver DeWolf Cummings
Teaching Principle
Grade K

Conversations About Kindergarten and the Wisconsin Mathematics Standards

Mary Jo Yttri, *Lapham Elementary School, Madison, WI*
Marsha Gregg, *Crestwood Elementary School, Madison, WI*

What does a kindergarten classroom look like that implements the Wisconsin Mathematics Standards? Using the standards to influence mathematics instruction.

EXHIBITS

THURSDAY

9:00 am-4:00 pm
Pillsbury-Pillsbury Hall

Exhibit Hall

Stop in to see what is new in textbooks, manipulatives, and other classroom resources. Be sure to visit the Wisconsin Mathematics Council booth for all the latest information on what is happening with our organization.

3 HOUR EXTENDED WORKSHOPS

THURSDAY

120 9:00 am-12:00 pm
Bauer-Morehouse A
Technology Principle
Grades K-8

Use Spreadsheets to Promote Visual Learning

Jeff Horney, *Oregon Middle School, Oregon, WI*

Participants will learn methods for applying *NCTM Standards* in teaching and learning to a visual medium.

90 MINUTE WORKSHOPS

THURSDAY

121 9:30-10:30 am
Bauer-Morehouse B
Technology Principle
Grades PK-8

MicroWorlds Logo Workshop

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

Karen Thomas, *UW-Platteville, Platteville, WI*

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

This session will help answer the question, "What can an elementary teacher do with MicroWorlds Logo?" You will get hands-on experience with basic commands, programming, and animated, interactive projects.

3 HOUR EXTENDED WORKSHOPS

THURSDAY

122 9:00 am-12:30 pm
Bauer-LaDue
Learning Principle
Grades K-5

Cognitively Guided Instruction: Observing Children and Understanding a Developmental Framework

Kathy Statz, *Madison Metropolitan School District, Madison, WI*

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

Cognitively Guided Instruction (CGI) is a research-based approach that helps teachers understand children's mathematical thinking. In this session participants will explore CGI problem types and strategies, and how that information can be used to inform and shape instruction. Videotapes of students solving problems and of CGI classrooms will be examined.

90 MINUTE WORKSHOP

THURSDAY

123 9:30-11:00 am
Bauer-Beaty
Teaching Principle
Grades 5-8

Math Enhancers II

Paul Drzewiecki, *Shiocton Middle School, Shiocton, WI*

Kim Hauser, *Shiocton Middle School, Shiocton, WI*

Rob Hendrickson, *Shiocton Middle School, Shiocton, WI*

Math Enhancers is a collection of games, activities, and lessons that reinforce middle school mathematics concepts. Ideas and strategies for mathematics instruction will also be discussed. Warning: Attendees at this workshop will be expected to become active participants.

60 MINUTE SESSIONS

THURSDAY

124 9:30-10:30 am
Kern-Brayton Case A & B
Equity Principle
Grades PK-16
KEYNOTE

The Equity Principle

Walter Secada, *University of Wisconsin, Madison, WI*

This is the keynote session for the Equity Principle: Excellence in mathematics education requires equity—high expectations and strong support for all students.



125 9:30-10:30 am
Kern-Stansbury
Equity Principle
Grades PK-12

Why the Equity Principle is So Important

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

The essence of *Principles and Standards for School Mathematics* is in the Equity Principle. When we say all students should have access to significant mathematics we imply important changes in the structure of mathematics curricula, the design of instructional materials, the tasks undertaken in the classroom, and the assessment of mathematical knowledge and understanding. We will engage in an analysis of these changes and see that curriculum for all is possible and in fact is present already in many schools.

Mathematics in Context Now Available From Holt!



Holt is proud to be the new distributor of Encyclopaedia Britannica's **Mathematics in Context**, an NSF-funded math program. This dynamic middle school curriculum helps students build mathematical concepts and skills as they discover how math applies to the world around them.



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HOLT, RINEHART AND WINSTON

126 9:30-10:30 am
Kern-Hanson
Teaching Principle
Grades PK-2

Using Data in a Mathematics Classroom K-2

Lynn Ingram, *Siefert Elementary School, Milwaukee, WI*

Julie Lyon, *Siefert Elementary School, Milwaukee, WI*

Engage in classroom activities that support children as they work with data. These lessons will help your students to collect, organize, represent, and discuss interpretations from their data collections.

127 9:30-10:30 am
RWI-Veranda Room
Learning Principle
Grades K-5

MathLand: Our Promising Journey—Encouraging Parents to Support Mathematics Reform

Karen Reiss Wilcox, *Germantown Schools, Germantown, WI*

Kim King, *Germantown Schools, Germantown, WI*

This workshop will highlight helpful strategies for parent involvement in the Learning Principle: Students must learn mathematics with understanding and actively build new knowledge from experience and prior knowledge. A collection of parent support materials from the *MathLand* curriculum will be shared, including homework strategies, Family letters, Bridges to Home, and a Family Night, with hopes that others may be inspired by some of the success stories and will embark on initiatives of their own.

128 9:30-10:30 am
Bauer-Boddie
Learning Principle
Grades 2-5

Subtraction Strategies from Children's Thinking: Moving Toward Fluency with Larger Numbers

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

Meghan Steinmeyer, *Milwaukee Public Schools, Milwaukee, WI*

Computation meaningfully occurs at the intersection of number relationships, understanding of operations, and children's ways of thinking. We will examine children's subtraction strategies for larger numbers through video and student work samples and present a categorization of common approaches. Then we will discuss ways to use whole class discourse to promote understanding of strategies and move children toward fluency. This session will focus on the Learning Principle. The strategies examined were generated by students from their prior knowledge and understanding of numbers and operation relationships.

129 9:30-10:30 am
Bauer-Morehouse C
Equity Principle
Grades 5-8

Figure This!

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

Figure This! is an outreach campaign designed to engage families of middle school students in doing mathematics together. There are 80 interesting challenges. Come see the problems and get the teachers' preparation packet containing materials to host a packed session in your school. Figure This! was designed to provide all students and their families high quality, real life mathematics problems tied to the *NCTM Standards*.

90 MINUTE WORKSHOPS

THURSDAY

130 10:00-11:30 am
Kern-Brown
Assessment Principle
Grades K-2

Assessing the Development of Spatial Understanding

Jason Procknow, *Lapham Elementary School, Madison, WI*

Karen Falkner, *Madison Metropolitan School District, Madison, WI*

Join us to explore using Polydrons as a tool for developing and assessing spatial understanding in young learners.

131 10:00-11:30 am
Bauer-Lightbody
Teaching Principle
Grades K-9

Learning from Elementary Students' Strategies

Linda Uselmann, *Edgewood College, Madison, WI*

What are the big ideas behind student strategies for simple operations? Adding, subtracting, multiplying, and dividing challenge us to understand place value, signed numbers, algebra, even different bases!

132 10:00-11:30 am
Kern-Boehr/Cary
Curriculum Principle
Learning Principle
Grades 6-8

CMP—A Coherent Mathematics Curriculum for the Middle Grades

Elizabeth Phillips, *Michigan State University, East Lansing, MI*

Welcome to all those who want to participate in a rich, standards-based experience! Whether you are a *Connected Mathematics* (CMP) user or not, you will enjoy this second of four sessions today. Betty Phillips, author of *Connected Mathematics*, will explore the Curriculum and Learning Principles using CMP. Examples of problems and student work will be used to illustrate important mathematical ideas, depth of student understanding, and coherence.



133 10:00-11:30 am
RWI-Crystal Room
Technology Principle
Grades 7-16

Research on Graphing Calculators: Implications for Your Classroom

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

A recent synthesis of peer-reviewed, published research addresses questions related to the use of handheld graphing technology in teaching and learning secondary mathematics and offers some important considerations for 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 handheld graphing technology in their classroom.



134 10:00-11:30 am
Lawson-Martin
Luther King, Jr.
Learning Principle
Grades 9-12

Data Collection Labs to Enhance Student Learning

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

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

How to incorporate lab activities in the mathematics classroom. Collecting data, creating scatter plots on the TI-83, modeling, and predicting future events from the data and model.

90 MINUTE WORKSHOPS

THURSDAY

135 10:00-11:30 am
Kern-Johnson
Curriculum Principle
Grades 9-12

Effective Implementation of the Core-Plus Mathematics Program: What Have We Learned?

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

In this session we will examine the issues faced by, and lessons learned from, districts which have effectively implemented the *Core-Plus Mathematics Curriculum* with a wide range of students. A variety of implementation models will be considered.

136 10:00-11:30 am
RWI-Mahaney
Curriculum Principle
Grades 9-12

Teaching Trigonometry in an Integrated High School Mathematics Curriculum

Eric P. Schluter, *Washington High School, Milwaukee, WI*

Participants will be involved in activities that develop trigonometry concepts within various units spread over two years of the *Core-Plus* mathematics program.

137 10:00-11:30 am
RWI-McGarvey
Assessment Principle
Grades 11-12

Activities to Prepare Students for the AP Calculus Exam

Rob Frenchick, *Hayward High School, Hayward, WI*

Hands-on labs, computer-based lab activities, open response worksheets, and many more things to help prepare students for the AP Calculus exam.

LUNCH

THURSDAY

11:00 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 57. Lunch in the Big Top Tent is available with a meal ticket or cash. Lunch in the dining room requires a meal ticket.

90 MINUTE WORKSHOPS

THURSDAY

138 11:00 am-12:30 pm
Bauer-Morehouse C
Learning Principle
Grades 9-14

Online Learning Objects in Mathematics

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

Learning Objects in the Wisconsin Online Resource Center are a new way of thinking about learning, in small units. The learning objects in mathematics are interactive; each learning object requires that students view, listen, respond, or interact with the content in some way. This presentation will demonstrate some of the learning objects in mathematics and engage the audience as “students.”

60 MINUTE SESSIONS

THURSDAY

139 11:00 am-12:00 pm
Kern-Brayton Case A & B
Curriculum Principle
Grades PK-16
KEYNOTE

The Curriculum Principle

Glenda Lappan, *Michigan State University, East Lansing, MI*

This is the keynote session on the Curriculum Principle: A curriculum is more than a collection of activities: it must be coherent, focused on important mathematics, and well-articulated across the grades.



60 MINUTE SESSIONS

THURSDAY

140 11:00 am-12:00 pm
Bauer-Morehouse B
Assessment Principle
Grades K-16

Developing Rubrics

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

Discussion of the use of rubrics in assessment with examples of rubrics used with CMP. Participants will develop new rubrics together.

141 11:00 am-12:00 pm
RWI-Veranda Room
Teaching Principle
Grades K-6

Mathematics: Literature: Making the Connection

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

This presentation will share classic and current literature to connect mathematics and literature. Children can build new knowledge as they connect stories and mathematical concepts. Literature can spark the interest and lay the foundation for future learning.

142 11:00 am-12:00 pm
Kern-Hanson
Curriculum Principle
Grades 1-3

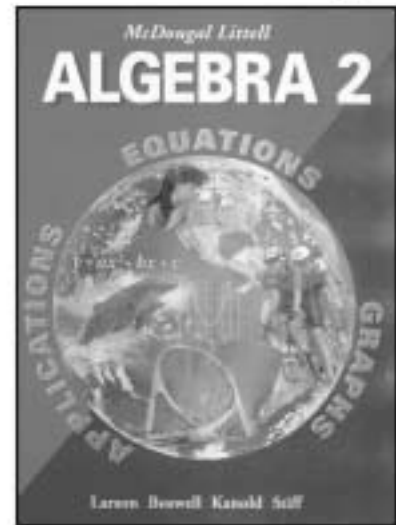
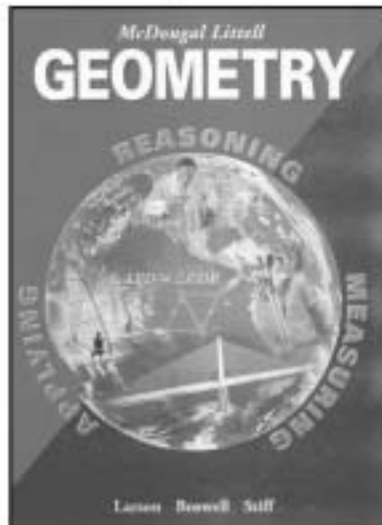
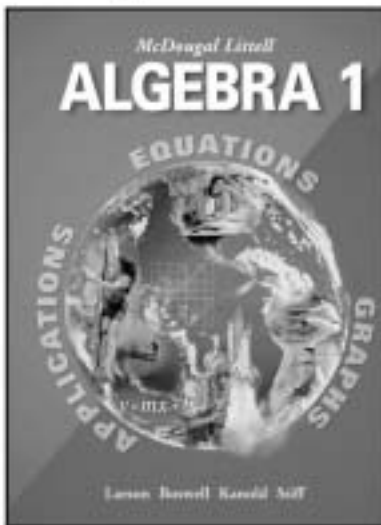
Integrating Literature into the Mathematics Curriculum

Michelle Weisse, *Lincoln Avenue School, Milwaukee, WI*

Peggy Dillman, *Lincoln Avenue School, Milwaukee, WI*

The focus will be on using a balanced literacy approach to integrate literature into the mathematics curriculum.

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60 MINUTE SESSIONS

THURSDAY

143 11:00 am-12:00 pm
Bauer-Boddie
Equity Principle
Grades 9-12

Mathematics for All Students

Mary Walz, *Sauk Prairie High School, Prairie du Sac, WI*
Kent Jensen, *Sauk Prairie High School, Prairie du Sac, WI*

What do we want students to know if they are taking their last mathematics class as a high school student? Come share ideas.

144 11:00 am-12:00 pm
Kern-Stansbury
Technology Principle
Grades 11-12

A Variety of Regression Problems on the TI-83/TI-83+

Mary Hellgren, *Thomas More High School, St Francis, WI*

Several sets of data will be analyzed on the calculator. The data will be entered in lists and plotted using the "stat plot." For each set possible regression models will be considered. The models will include linear, quadratic, logarithmic, exponential, logistic and sinusoidal.

60 MINUTE WORKSHOPS

THURSDAY

145 11:30 am-12:30 pm
Bauer-Beaty
Teaching Principle
Grades K-5

Cultivating Understanding and Identity in Classroom Interactions: The Case of Low-Performing Students

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

We will look at examples of teacher-student interactions and how, within these interactions, specific teacher moves build understanding and identity in students. Research involving low-performing students, in particular, will be presented and discussed. Content focus is multiplicative structures. (Repeated as session 220.)



LUNCH/MEETING

THURSDAY

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

WMC President's Luncheon

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 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.

3 HOUR EXTENDED WORKSHOPS

THURSDAY

200 1:00-4:00 pm
Youth Center- Huber/
Evans Room
Teaching Principle
Grades 1-4

Developing Fact Fluency Through Algebraic Reasoning

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

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

We will work collaboratively to construct a framework for developing fact fluency for children—building on what they know—using open and T/F sentences to facilitate learning about properties that help connect facts to each other.

201 1:00-4:00 pm
RWI-Crystal Room
Teaching Principle
Grades 8-10

Algebra Activities: Disguise the Practice and Engage ALL Students

Laurie Boswell, *Profile School, Bethlehem, NH*

A collection of activities that provide for needed student practice while helping you gain knowledge of student understanding.



202 1:00-4:00 pm
Bauer-Morehouse B
Technology Principle
Grades 9-16

A Beginner's Look at TI Interactive!

Allan Bellman, *University of California, Davis, CA*

In this session we will see how TI-Interactive can serve as the center of your technology needs.



203 1:00-4:00 pm
Youth Center-Oliver DeWolf
Cummings Room
Technology Principle
Grades 10-12

Basics of the TI-89

Mary Jane R. Whiting, *Homestead High School, Mequon, WI*

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

We will look at the basic features of the TI-89. Problems from Algebra II to Calculus will be explored.

90 MINUTE WORKSHOPS

THURSDAY

204 1:00-2:30 pm
Kern-Brown
Learning Principle
Grades K-5

What's the Mathematics?: Why Do We Ask Students to Spend Time on Activities?

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

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

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

Activities from the *TERC Investigations* materials will be presented. Participants will experience how meaningful mathematics ideas are constructed at each grade level.

205 1:00-2:30 pm
RWI-Mahaney
Assessment Principle
Grades K-12

Using Your WKCE and Other “High Stakes” Data: Summarizing, Interpreting, Decision-Making, and Communicating

Henry Kepner, Jr., *UW-Milwaukee, Milwaukee, WI*
Henry Kranendonk, *Milwaukee Public Schools, 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?

206 1:00-2:30 pm
Kern-Johnson
Teaching Principle
Grades 1-5

Connecting Reading, Writing, and Mathematics

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

Students need to connect what they have learned in one discipline to support learning in another discipline. The goal of the presentation is to support students in making this leap.

207 1:00-2:30 pm
Bauer-Lightbody
Teaching Principle
Grades 3-5

Making Sense of Multiplication

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

Join us as we work through activities that help children develop the concept of multiplication, share strategies to improve fluency with multiplication facts, and discuss ways to use multiplication clusters to multiply larger numbers.

208 1:00-2:30 pm
Kern-Hanson
Teaching Principle
Grades PK-2

2-D or not 2-D. Should 3-D Come First? Teaching Geometry for Understanding

Sandra I. Atkins, *McGraw-Hill, Oviedo, FL*

Participants will examine teaching strategies and hands-on learning experiences that will assist young children in developing conceptual understanding of shape and space.

209 1:00-2:30 pm
Kern-Boehr/Cary
Assessment Principle
Grades 6-8

Assessing and Learning in a Connected Mathematics Classroom

Christopher Danielson, *Michigan State University, East Lansing, MI*

Welcome to all those who want to participate in a rich, standards-based experience! Whether you are a *Connected Mathematics* (CMP) user or not, you will enjoy this third of four sessions today. Christopher Danielson, of the Connected Mathematics Project at Michigan State University, will explore the Assessment and Learning Principles using CMP. You will look at a variety of tasks in the curriculum and consider the usefulness of each in assessing student understanding.

90 MINUTE WORKSHOPS

THURSDAY

210 1:00-2:30 pm
Kern-Stansbury
Curriculum Principle
Grades 6-8

An Overview of *MathThematics*

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

The history and philosophy of *MathThematics*, a middle school NSF program, will be presented along with implementation structure, strands, and hands-on activities that you can take back to the classroom and put to good use.

211 1:00-2:30 pm
RWI-Veranda Room
Teaching Principle
Grades 6-12

Teaching All Students to Discover Algebra: A Mission Possible

Betty Forte, *Key Curriculum Press, Arlington, TX*

This session will focus on teaching students activities that are concrete, verbal, numerical, graphical, and symbolic. (Repeated as session 229.)

212 1:00-2:30 pm
Bauer-Morehouse A
Technology Principle
Grades 7-14

Geometers Sketchpad V.4 for Beginners

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

Sketchpad is a powerful visual and dynamic tool that can be used in all your courses from algebra to calculus and beyond.

213 1:00-2:30 pm
RWI-McGarvey
Learning Principle
Grades 9-10

Teaching Algebra: Addressing Barriers to Understanding

Chris Stafslie, *La Follette High School, Madison, WI*

How do we help all kinds of learners understand the essential concepts in Algebra I? Some of the barriers to teaching for understanding will be discussed and some strategies for addressing them shared.

214 1:00-2:30 pm
Bauer-LaDue
Learning Principle
Grades 9-12

Mathematics Modeling in "Algebra"

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

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 motivating and helps students understand the modeling process.

60 MINUTE SESSIONS

THURSDAY

215 1:00-2:00 pm
Kern-Brayton Case A & B
Teaching Principle
Grades PK-16
KEYNOTE

The Teaching Principle

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

This is the keynote session on the Teaching Principle: Effective mathematics teaching requires understanding what students know and need to know and then challenging and supporting them to learn it well.



60 MINUTE SESSIONS

THURSDAY

216 1:00-2:00 pm
Bauer-Boddie
Learning Principle
Grades 2-5

Learning Number Facts with Understanding

Linda Levi, *University of Wisconsin, Madison, WI*

Julie Koehler, *University of Wisconsin, Madison, WI*

Learning basic facts is an integral part of a child's mathematical development. In this session we will explore how relational thinking can help children learn facts in the context of teaching for understanding.

217 1:00-2:00 pm
Lawson-Martin
Luther King, Jr.
Assessment Principle
Grades 3-5

Using Data to Improve Student Learning

Donna J. Long, *CTB/McGraw Hill, Indianapolis, IN*

This session is designed to help participants better understand and use test information to inform mathematics instruction in the classroom and improve student learning. Discussion will center on how to interpret test results and then link this information directly to instructional activities related to the Wisconsin State Mathematics Standards.

218 1:00-2:00 pm
Bauer-Beaty
Equity Principle
Grade 5

Mathematics for All: Using CGI in a Reform Curriculum

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

A classroom teacher will share her experiences using CGI with *Mathematics in Context* to offer a fully inclusive mathematics program.

219 1:00-2:00 pm
Bauer-Morehouse C
Assessment Principle
Technology Principle
Equity Principle
Curriculum Principle
Learning Principle
Teaching Principle
Grades 8-14

A Principled Analysis and Evaluation of the Core-Plus Mathematics Program

Chris Hirsch, *Western Michigan University, Kalamazoo, MI*

Following a brief analysis of the Core-Plus Mathematics program from the perspective of NCTM's *Principles and Standards for School Mathematics*, we will examine the impact of the implemented curriculum on student outcomes, including preparedness for college mathematics. Evidence will be drawn from several independent research studies and a five-year longitudinal study of program effects.



60 MINUTE SESSIONS

THURSDAY

220 2:30-3:30 pm
Kern-Brayton Case A & B
Teaching Principle
Grades K-5

Cultivating Understanding and Identity in Classroom Interactions: The Case of Low-Performing Students

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

We will look at examples of teacher-student interactions and how, within these interactions, specific teacher moves build understanding and identity in students. Research involving low-performing students, in particular, will be presented and discussed. Content focus is multiplicative structures. (Repeated from session 145.)



60 MINUTE SESSIONS

THURSDAY

221 2:30-3:30 pm
Bauer-Beaty
Teaching Principle
Grades 6-8

Middle School Mathematics: An Arena of Change

Ann Lewis, *Glencoe/McGraw-Hill, Newark, DE*

The changes in expectation of middle school mathematics students have necessitated shifts in philosophy and pedagogy. Discover what these changes are, and how to deal with them.

222 2:30-3:30 pm
Lawson-Martin
Luther King, Jr.
Assessment Principle
Grades 6-8

Using Data to Improve Student Learning

Donna J. Long, *CTB/McGraw Hill, Indianapolis, IN*

This session is designed to help participants better understand and use test information to inform mathematics instruction in the classroom and improve student learning. Discussion will center on how to interpret test results and then link this information directly to instructional activities related to the Wisconsin State Mathematics Standards.

90 MINUTE WORKSHOPS

THURSDAY

223 3:00-4:30 pm
Kern-Brown
Learning Principle
Grades PK-2

Operations: Meaning, Invention, Efficiency, Power

Barbara Crum, *University of Illinois at Chicago, Chicago, IL*

Linda Miceli, *University of Illinois at Chicago, Chicago, IL*

This workshop will focus on the stages students work through as they acquire knowledge of the four operations. Materials from *Math Trailblazers* will be used.

224 3:00-4:30 pm
Kern-Stansbury
Assessment Principle
Grades 3-5

Creating Districtwide Balanced Assessment

Debby Rubinstein, *South Milwaukee Middle School, South Milwaukee, WI*

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

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

Gerry Shinnars, *School District of South Milwaukee, South Milwaukee, WI*

David Webb, Ph.D., *University of Wisconsin, Madison, WI*

Vicki Selck, *School District of South Milwaukee, South Milwaukee, WI*

Teachers from South Milwaukee will describe the process of developing balanced assessments that are tied to district benchmarks and standards. Sample problems and rubrics will be presented. Participants will identify thinking levels in sample assessments.

225 3:00-4:30 pm
Bauer-Lightbody
Learning Principle
Teaching Principle
Grades 3-5

Exploring Students' Invented Strategies: Multi-Digit CGI

Kathy Statz, *Madison Metropolitan School District, Madison, WI*

Students' invented strategies for multiplication and division of multi-digit numbers will be explored. Discussion will include levels of sophistication and implications for instruction, and video-taped examples of students' work will be analyzed.

226 3:00-4:30 pm
Kern-Johnson
Teaching Principle
Grades 4-8

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? This session will show a way to not only challenge mathematically gifted children, but also to show them a wonderful and exciting side of mathematics and science. This approach, which integrates astronomy, biology, and physics, can be used in tandem with a standard mathematics curriculum or can be used by a mathematics mentor or resource teacher for pullout programs. This session will also include a presentation in three things that all future mathematicians and scientists must know but are rarely taught.

227 3:00-4:30 pm
Bauer-Morehouse A
Technology Principle
Grades 4-16

Create Web Pages as a Springboard for Student Inquiry

Jeff Horney, *Oregon Middle School, Oregon, WI*

This session will provide teachers with the skills to create web-based lessons that include content as well as links to data and other content.

228 3:00-4:30 pm
Kern-Boehr/Cary
Equity Principle
Learning Principle
Grades 6-8

Equity and Opportunity in a Connected Mathematics Classroom

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

Jane Fazio, *Waunakee Middle School, Waunakee, WI*

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

Welcome to all those who want to participate in a rich, standards-based experience! Whether you are a *Connected Mathematics* (CMP) user or not, you will enjoy this fourth of four sessions today. This panel of CMP enthusiasts will explore the Equity and Learning Principles. Participants are encouraged to interact, ask questions, and share experiences and strategies.

229 3:00-4:30 pm
RWI-Veranda Room
Teaching Principle
Grades 6-12

Teaching All Students to Discover Algebra: A Mission Possible

Betty Forte, *Key Curriculum Press, Arlington, TX*

This session will focus on teaching students activities that are concrete, verbal, numerical, graphical, and symbolic. (Repeated from session 211.)

230 3:00-4:30 pm
RWI-Mahaney
Learning Principle
Grades 7-11

Reaching the Lower 50% of High School Mathematics Students: Activities That Make Connections

Tom Strauss, *Fond du Lac High School, Fond du Lac, WI*

Paul Weisse, *Appleton Area School District, Appleton, WI*

Presenters will provide activities that allow students to make concrete connections in the areas of percent and algebraic topics.

90 MINUTE WORKSHOPS

THURSDAY

231 3:00-4:30 pm
Bauer-LaDue
Curriculum Principle
Grades 7-12

Stimulating Simulations: Using Random Numbers to Solve Real Problems

Debby Weyer, *Greendale High School, Greendale, WI*

This presentation will use random number simulations to solve a variety of probability problems that are not easily solved with formulas.

60 MINUTE SESSIONS

THURSDAY

232 3:00-4:00 pm
Kern-Hanson
Equity Principle
Grades K-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 questioning, flexible grouping, and compacting in order to meet the diverse needs of students in heterogeneously grouped classrooms.

233 3:00-4:00 pm
Bauer-Morehouse C
Learning Principle
Teaching Principle
Grades 1-6

Explore Cyberchase

L. Carey Bolster, *Bolster Education, Annapolis, MD*

Cyberchase is a new daily animated adventure series on PBS that engages kids from grades 1-6 in mathematics. See how kids enjoy the excitement of learning significant mathematical ideas. We will explore some of the activities, view portions of several shows including the For Real feature, visit the popular Cyberchase web site, and see what's available for you and parents of your students. Join the Chase!

234 3:00-4:00 pm
Bauer-Boddie
Teaching Principle
Grades 3-5

Gaming in Mathematics

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

Is gaming in mathematics just time for a mental break for kids and teachers? Find out how to get the most out of a variety of fun activities that will stretch your students' thinking when you ask key questions. (Repeated as session 313.)

235 3:00-4:00 pm
RWI-McGarvey
Teaching Principle
Grades 9-12

Pre-Calculus—What Are the Concepts and Tools That Are Important for Success in Calculus?

Ted Widerski, *La Follette High School, Madison, WI*

Traditional pre-calculus topics such as logarithms, conic sections, and vectors will be looked at in new ways that build understanding of these important topics for calculus.

236 1:00-2:00 pm
Bauer-Lightbody
Technology Principle
Grades 11-13

The Object is Classes with Java—Changes in the AP Computer Science Curriculum

Joseph W. Knoch, *Washington High School, Milwaukee, WI*

The AP Computer Science Curriculum has evolved to full object-oriented design and programming using Java to implement OOP. Let's talk!

MEETING

THURSDAY

4:30-5:00 pm
Kern-Brayton Case A & B

Wisconsin Mathematics Council, Inc., Annual Meeting

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

DINNER

THURSDAY

5:30-8:00 pm
Royal Ridges of Ripon

WMC Celebration Dinner

Royal Ridges of Ripon is the place to be for a mouth-watering buffet, recognitions and awards, and entertainment—a more formal celebration than the Warm-Up Social. Tickets are free for conference attendees.

The bar will open at 5:30 pm buffet serving will begin at 6:00 pm. A Master of Ceremonies will orchestrate the events beginning with the presentation of the scholarship awards, the 25-year awards, the Mathematics Team Awards, and the Distinguished Mathematics Educator Awards. The Presidential Awardees will also be recognized.

Entertainment will be provided by WMC member Eric Schluter and Wavelength, an improvisational acting troupe from Chicago. For a more detailed description see page 5 of this booklet.

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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 57.

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

PRIME Breakfast

Join us for breakfast with Jeremy Kilpatrick, University of Georgia. Following breakfast there will be a presentation (see description for session 309) by Dr. Kilpatrick on the work in the 2001 volume *Adding It Up: Helping Children Learning Children Learn Mathematics*. He served as Chair of the National Research Council Mathematics Learning Study Committee that examined the research on mathematics learning from grades K to 8. Their work resulted in this book on the research accompanying the NCTM *Principles and Standards for School Mathematics*.



Make your breakfast reservations by contacting Anne Frihart, NPRIME Project Assistant, at 608-264-9686, afrihart@ecb.state.wi.us, or online through the NPRIME network. You do not need to purchase a ticket from the Green Lake Conference for this meal.

90 MINUTE WORKSHOPS

FRIDAY

300 7:30-9:00 am

Bauer-Morehouse A
Technology Principle
Grades 6-8**Computer Connections to CMP**

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

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

In this session participants will have the opportunity to personally experience computer programs that align with grades 6-8.

301 7:30-9:00 am

Bauer-Morehouse B
Technology Principle
Grades 9-12**Fathom: A Dynamic Statistical Software**

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

We will use the Fathom Software and Erickson's *Fifty Fathoms* book to explore statistical concepts such as the least squares regression line, sampling distributions, and the law of large numbers.

90 MINUTE WORKSHOPS

FRIDAY

302 8:00-9:30 am
Bauer-Beaty
Learning Principle
Grades PK-2

Geometry for Grades PK-2: Small Hands, Many Shapes

Patsy Kanter, *PEK Consultants/Great Source Cell, New Orleans, LA*

The presenter will explore the standards for PK-2 and demonstrate ideas that are developmentally appropriate for doing activities to increase spatial sense and geometry.

303 8:00-9:30 am
Kern-Hanson
Learning Principle
Grades 3-5

Computational Fluency: Adding Larger Numbers

Colleen Munch, *Hi-Mount Community School, Milwaukee, WI*

Michaela Neitzel, *Hi-Mount Community School, Milwaukee, WI*

Children draw upon a variety of strategies to demonstrate their understanding of number sense as they add larger numbers. Join this session to engage in activities that model strategies that can be used to support children in representing their thinking.

304 8:00-9:30AM
Kern-Stansbury
Teaching Principle
Grades 6-16

4-MAT Your Lessons

Rick Melcher, *Lodi High School, Lodi, WI*

Finally! A framework to put all your great ideas and activities into that follows the natural learning cycle used by the brain. Learn to sequence the things you already do to facilitate deep learning for your students.

305 8:00-9:30 am
Bauer-Boddie
Technology Principle
Grades 7-8

Curriculum Connections with Graphing Calculators (Beginner Level)

Faye Hilgart, *Madison Metropolitan School District, Madison, WI*

Robert Hetzel, *Madison Metropolitan School District, Madison, WI*

Using problems from the seventh grade *Connected Mathematics Project (CMP)*, this hands-on workshop will introduce participants to the graphing calculator. We will discuss the importance of graphing calculator use at this level, and we will analyze the impact of this technology in the middle school curriculum. This workshop is designed for teachers with no previous experience with graphing calculators. Non-CMP users are welcome to attend.

306 8:00-9:30 am
Kern-Johnson
Learning Principle
Grades 9-12

Let's Go Fly a Kite!

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

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

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

307 8:00-9:30 am
Bauer-LaDue
Technology Principle
Grades 9-12

What's "APP-ening" on the TI-83 Plus

Babs Merkert, *Waukesha West High School, Waukesha, WI*

Hands-on exploration of "APP's" that will help students solve problems and understand concepts in Algebra 1 and Algebra 2.

308 8:00-9:30 am
RWI-Veranda Room
Technology Principle
Grades 9-14

A Brief Look at the New TI Voyage 200

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

The newly released *Voyage 200* incorporates features the 83+, 89, and 92. See a demo of some activities in a hands-on session.

60 MINUTE SESSIONS

FRIDAY

309 8:00-9:00 am
RWI-Crystal Room
Assessment Principle
Grades PK-16

Adding It Up: Helping Children Learn Mathematics

Jeremy Kilpatrick, *University of Georgia, Athens, GA*

Dr. Kilpatrick will present the findings of the National Research Council's review of the research on how K-8 students learn mathematics.



310 8:00-9:00 am
Kern-Brayton Case A & B
Teaching Principle
Grades PK-1

Little Kids—Powerful Problem Solvers

Angela Giglio Andrews, *Naperville Community Unit School District 203, Naperville, IL*

Stories from a kindergarten classroom illustrate how teachers can understand, identify, value, support, and extend the emergent mathematical understandings that young learners bring with them to school. (Repeated as session 420.)



311 8:00-9:00 am
Lawson-Martin
Luther King, Jr.
Teaching Principle
Grades K-5

Linking Representational Modes to Accommodate Learning Differences

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

This session will discuss the need for teachers to provide varied linkages between and within representational modes to promote more effective learning. The participants will analyze and practice creating linkages to use in teaching and assessment.

312 8:00-9:00 am
Kern-Brown
Learning Principle
Grades 3-5

What Are My Students Thinking? Expanding on Lessons in a 4/5 Classroom Through Questioning and Classroom Discussion.

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

Mary Ringelstetter, *Madison Metropolitan School District, Madison, WI*

Questioning and class discussions promote student thinking and help teachers know more about their students' mathematical understanding. Ideas for implementing these two strategies will be shared. The focus will be on how students work with multiples and factors and use that knowledge to develop concepts of equivalent fractions. The lessons are based on a unit from the series *Investigations In Number, Data, and Space*. Knowledge about how students think about multiplication and division is based on Cognitively Guided Instruction.

313 8:00-9:00 am
RWI-McGarvey
Teaching Principle
Grades 3-5

Gaming in Mathematics

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

Is gaming in mathematics just time for a mental break for kids and teachers? Find out how to get the most out of a variety of fun activities that will stretch your students' thinking when you ask key questions. (Repeated from session 234.)

314 8:00-9:00 am
RWI-Mahaney
Technology Principle
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.

315 8:00-9:00 am
Bauer-Morehouse C
Technology Principle
Grades 6-16

SMETIS: Secondary Mathematics Educational Technology Implementation Study

Melissa Ewer, *UW-Eau Claire, Eau Claire, WI*

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

Presentation of findings from a study that researched how technology is implemented in math classrooms across northwestern Wisconsin. (Repeated from session 114.)

316 8:00-9:00 am
Bauer-Lightbody
Teaching Principle
Grades 11-12

Helping Students Succeed in AP Calculus

Andrew Kuemmel, *Brookfield Central High School, Brookfield, WI*

AP Calculus teachers must balance challenging content with teaching who support students that struggle. At this session you will learn strategies to help all of your calculus students understand the key concepts of the course.

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3 HOUR EXTENDED WORKSHOPS

FRIDAY

317 8:30-11:30 am
Youth Center-Oliver DeWolf
Cummings Room
Curriculum Principle
Grades K-6

It's in the Mix

Jaime Malwitz, *National Science Foundation, Arlington, VA*

Teachers will be actively engaged in this science-mathematics connection while measuring length, width, perimeter, and area of plastics before and after they are shrunk. Building of "magic tubes" will include the science of density with a volume of mathematics. Creating flinkers (they neither FLoat nor sINK, they FLINK!) will use graduated cylinders and measurement skills. All activities in this make-and-take session follow national standards of science and mathematics.

318 8:30-11:30 am
Kern-Boehr/Cary
Curriculum Principle
Grades 5-9

Exploring Standards-Based Middle School Mathematics Curricula Through the Algebra Strand

Fran Arbaugh, *University of Missouri, Columbia, MO*

Jennifer Bay-Williams, *Kansas State University, Manhattan, KS*

Participants will actively explore algebra-based lessons from four middle school standards-based curricula.

319 8:30-11:30 am
Youth Center- Huber/
Evans Room
Curriculum Principle
Grades 9-12

Algebra in a Standards-Based Curriculum

Mary Rosin, *Lincoln High School, Wisconsin Rapids, WI*

Barb Bredel, *Crandon High School, Crandon, WI*

Algebra activities from the first three years of the Core-Plus Math project will be investigated with participants. Core-Plus is one of the coherent, focused and stranded NSF Curriculums published since the 1989 NCTM Standards were introduced.

EXHIBITS

FRIDAY

9:00 am-1:00 pm
Pillsbury-Pillsbury Hall

Exhibit Hall

Stop in to see what is new in textbooks, manipulatives, and other classroom resources. Be sure to visit the Wisconsin Mathematics Council booth for all the latest information on what is happening with our organization.

3 HOUR EXTENDED WORKSHOPS

FRIDAY

320 9:30 am-12:30 pm
Bauer-Morehouse A
Technology Principle
Grades 3-6

Geometrics with AppleWorks

Jeff Lucas, *Neenah Joint School District, Neenah, WI*

Use AppleWorks' draw and paint applications with Macintosh computers to illustrate and enhance geometry and measurement concepts. Standards-based integrated Mathemactivities are easily implemented and complement any existing mathematics curriculum. A CD with complete directions for these Mathemactivities will be furnished to each participant. More information is available at:
<http://computerworksschoolware.com>

90 MINUTE WORKSHOPS

FRIDAY

321 9:30-11:00 am
 Bauer-Morehouse B
 Learning Principle
 Teaching Principle
 Grades K-5

NCTM: Virtual Math Academy (VMA)

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

The VMA is a new, cost-free professional development opportunity. One part of the VMA focuses on the six NCTM Standards. Another part focuses on teaching/learning algebra at the PK-2, 3-5, 6-8, and 9-12 grade bands. Take an online tour of the resources available at the VMA. Then explore the areas specific to your interests and grade levels.

60 MINUTE SESSIONS

FRIDAY

322 9:30-10:30 am
 Kern-Brayton Case A & B
 Technology Principle
 Grades PK-16
KEYNOTE

The Technology Principle

Allan Bellman, *University of California, Davis, CA*

This is the keynote session on the Technology Principle: Technology is essential in teaching and learning mathematics. It influences the mathematics that is taught and enhances student learning.



323 9:30-10:30 am
 RWI-Crystal Room
 Equity Principle
 Grades 6-12

Issues Affecting Equity in Mathematics Classrooms

Laurie Rubel, *University of Wisconsin, Madison, WI*

This session will be an exploration of issues of equity in reform mathematics classrooms. Participants will reflect on their own experiences and those of their students while exploring the meaning of equity and equality. Potential responses to specific equity issues will be generated and considered in the context of participants mathematics classrooms.

324 9:30-10:30 am
 Lawson-Martin Luther King, Jr.
 Teaching Principle
 Grades 1-5

Supporting Communication and Representation in Your Mathematics Program

Molly Fonk, *Fairview Charter School, Milwaukee, WI*

Karin Schuldt, *Brown Street Academy, Milwaukee, WI*

The session will deepen the participant's understanding of the NCTM Standards of Communication and Representation. Facilitators will present in a teacher-friendly format, incorporating activities that can be easily used with elementary students. Through the use of hands-on activities, demonstrations, and small group discussions, participants will gain innovative techniques to encourage students to clearly and concisely explain and represent their mathematical thinking.

325 9:30-10:30 am
 Kern-Brown
 Curriculum Principle
 Grades 6-8

A Mathematics Developed Middle School Curriculum

Rick Billstein, *University of Montana, Missoula, MT*

This session will discuss how mathematics can be taught through applications and thematics units. (Repeated as session 340.)

60 MINUTE SESSIONS

FRIDAY

326 9:30-10:30 am
RWI-Mahaney
Teaching Principle
Grades 6-8

Teaching in Your "Right" Mind?

Alisa Rodriguez, *Black Hawk Middle School, Madison, WI*

Teacher strategies and environments, based on brain research, that will encourage, stimulate, and support learning. Great ideas for beginning teachers and others who want to jazz up their teaching.

327 9:30-10:30 am
Bauer-Lightbody
Equity Principle
Grades 9-12

Ideas to Reduce Failure with At-Risk Populations

Tracy Frank, *Middleton Alternative Senior High School, 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 which can be used for your own students.

328 9:30-10:30 am
RWI-McGarvey
Curriculum Principle
Grades 11-13

Beyond Calculus BC: Options for Accelerated Mathematics Students

Mary Jane R. Whiting, *Homestead High School, Mequon, WI*

Max Loard, *Homestead High School, Mequon, WI*

Patrick J. O'Connor, *Homestead High School, Mequon, WI*

Curriculum options for districts with students completing calculus BC prior to their senior year.

90 MINUTE WORKSHOPS

FRIDAY

329 10:00-11:30 am
Bauer-Boddie
Teaching Principle
Grades K-2

Sparks That Ignite Student Communication and Understanding in Mathematics

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

Elsie Wilson, *Maywood School, Oregon, WI*

Let's target teaching strategies that help students move beyond "I don't know how I did it." Digi-Blocks will be used to spark and ignite powerful connections in algebra and problem solving.

330 10:00-11:30 am
Kern-Hanson
Learning Principle
Grades 1-3

Patterns, Patterns, Patterns!

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

Several pattern activities will demonstrate how the student may acquire new knowledge to build onto what was known. Participants will be experiencing the learning processes needed to gain this new knowledge when working with fractions and problem solving.

331 10:00-11:30 am
Kern-Stansbury
Equity Principle
Grades 3-5

Mathematics Family Fun Night

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

John Bergum, *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*

See what one school district did to support and encourage the learning of mathematics for all their students through parental involvement. Get ideas and resources to use for your own Fun Night.

90 MINUTE WORKSHOPS

FRIDAY

332 10:00-11:30 am
Kern-Johnson
Curriculum Principle
Grades 5-12

Exploring an "Exemplary" Mathematics Curriculum

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

Participants will explore a student-centered teacher-written curriculum designated as "exemplary" by the US Department of Education.

333 10:00-11:30 am
Bauer-LaDue
Assessment Principle
Grades 7-12

Geometry Projects: Directions, Samples, and Rubrics

Laurie Boswell, *Profile School, Bethlehem, NH*

Try projects as one form of alternative assessment. Student work will be displayed. Directions and rubrics available for many projects. Two projects simulated during workshop.



334 10:00-11:30 am
Bauer-Beaty
Curriculum Principle
Grades 9-12

A Recursive Look at Our Country's Real "Shape"

Henry Kranendonk, *Rufus King High School, Milwaukee, WI*

The lessons presented in this workshop will examine population pyramid graphs of several countries. Past population data sets of the United States will specifically be used to model a recursive process to estimate future population totals. Participants will be applying current demographic data to create future portraits of the United States population.

335 10:00-11:30 am
Bauer-Morehouse C
Learning Principle
Grades 10-12

Multiple Representations in AP Calculus

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

Representing a function in multiple ways is the essence of "reformed" calculus. The Rule of 4 has been, and will continue to be, a point of emphasis in AP Calculus. This workshop will look at how this has been used in the past and we will create our own multiple representation calculus problems using the TI-89 calculator.

336 10:00-11:30 am
RWI-Veranda Room
Technology Principle
Grades 10-13

Enhancing the Understanding of Trigonometry Using Technology

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

Classroom activities centering around the unit circle, trig functions, and sinusoids will be explored and discussed. The STAT LIST, STAT PLOT and PARAMETRIC MODE of the TI-83 Plus will be integrated into this hands-on session.

LUNCH

FRIDAY

11:00 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 57. Lunch in the Big Top Tent is available with a meal ticket or cash. Lunch in the dining room requires a meal ticket.

90 MINUTE WORKSHOPS

FRIDAY

337 11:00 am-12:30 pm
Lawson-Martin
Luther King, Jr.
Technology Principle
Grades 9-13

Modeling Real-Life Data: Graphically, Numerically, Analytically

Ron Larson, *Pennsylvania State University, Erie, PA*

Six sample worksheets encourage students to approach modeling with understanding. The thoughtful use of a graphing calculator is encouraged with numerical and analytical strategies.

60 MINUTE SESSIONS

FRIDAY

338 11:00 am-12:00 pm
Kern-Brayton Case A & B
Learning Principle
Grades PK-16
KEYNOTE

The Learning Principle

Carol Malloy, *University of North Carolina, Chapel Hill, NC*

This is the keynote session on the Learning Principle: Students must know mathematics with understanding, actively building new knowledge from experience and prior knowledge.



339 11:00 am-12:00 pm
RWI-Mahaney
Curriculum Principle
Grades 6-7

Warm-Up Activities For A Purpose

Ed Tobias, *Northstar Middle School, Eau Claire, WI*

This session is a presentation of daily warm-up activities that sharpen students' number sense, focus on problem solving skills, introduce pre-algebra concepts, and connect fractions with decimals, all in 15 minutes a day...but every day.

340 11:00 am-12:00 pm
Kern-Brown
Curriculum Principle
Grades 6-8

A MathThematics Developed Middle School Curriculum

Rick Billstein, *University of Montana, Missoula, MT*

This session will discuss how mathematics can be taught through applications and thematics units. (Repeated from session 325.)

341 11:00 am-12:00 pm
RWI-Crystal Room
Curriculum Principle
Technology Principle
Grades 6-8

New Directions in Statistics Education Using Tinkerplots

Susan Friel, *University of North Carolina-Chapel Hill, Chapel Hill, NC*

This session will demonstrate the application of a new software tool (Tinkerplots) to help middle grades students experience and explore statistics.



342 11:00 am-12:00 pm
Bauer-Lightbody
Technology Principle
Grades 9-12

Do Even More with Your Graphing Calculator!

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

Get even more out of your graphing calculator with "applications." We will explore: transform, inequality, geomaster, probability simulator, and more... (Repeated from session 115.)

60 MINUTE SESSIONS

FRIDAY

343 11:00 am-12:00 pm
RWI-McGarvey
Assessment Principle
Grades 9-12

Assessment, Not Tests

Kathleen Schactner, *Riverside University High School, Milwaukee, WI*
Jenny Sagrillo, *Riverside University High School, Milwaukee, WI*

A broad look at classroom assessment other than formal testing. Techniques for assessing in a cooperative learning classroom will be one focus. Attitudes toward assessment will be discussed. We are hoping for a lively sharing session.

60 MINUTE SESSIONS

FRIDAY

344 11:30 am-12:30 pm
Bauer-Morehouse B
Technology Principle
Grades 13-16

NCTM: E-Examples and Illuminations

Linda Uselmann, *Edgewood College, Madison, WI*

A hands-on exploration of the many standards-based resources available through the NCTM website.

3 HOUR EXTENDED WORKSHOPS

FRIDAY

400 1:00-4:00 pm
RWI-Crystal Room
Curriculum Principle
Grades K-12

Leading the Way with Reform Mathematics Programs

John Janty, *Waunakee High School, Waunakee, WI*
Mary Rosin, *Lincoln High School, Wisconsin Rapids, WI*
Janet Alekna, *Grove Elementary School, Wisconsin Rapids, WI*
Rosann Hollinger, *Fritsche Middle School, Milwaukee, WI*

Several users of reform mathematics programs will discuss their experiences and address questions during a one-hour panel discussion. Following the panel discussion, participants will have an opportunity to talk to users of numerous NSF reform mathematics programs in specific grade-level breakout sessions. (K-5, 6-8, 9-12)

401 1:00-4:00 pm
Bauer-Morehouse A
Technology Principle
Grades 7-14

Geometers Sketchpad V.4 for Advanced Users

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

Sketchpad is a powerful visual and dynamic tool that can be used in all your courses from algebra to calculus and beyond.

90 MINUTE WORKSHOPS

FRIDAY

402 1:00-2:30 pm
Bauer-Beaty
Equity Principle
Grades PK-2

Equity in the Pre-Kindergarten Through Primary Classroom

Mary Jo Hustoles, *Everyday Math, Mankato, MN*

Everyday Math has just published a research-based, field-tested PreK Program which flows beautifully into their UCSMP K-6 program. As with the entire curriculum, equity is the cornerstone of Everyday Math. Bedrock in the UCSMP credo is that children learn at different rates, in different ways. A sound curriculum supports those rates and styles. The presenter will introduce that Equity Principle and demonstrate how EM embodies it in PreK through the primary years with activities and strand tracing.

90 MINUTE WORKSHOPS

FRIDAY

403 1:00-2:30 pm
RWI-McGarvey
Learning Principle
Grades PK-5

Elementary, My Dear...or Is It?

Diana Kasbaum, *Wisconsin Department of Public Instruction, Madison, WI*
Jodean Grunow, *UW-Platteville, Platteville, WI*

The mathematics that children experience in the elementary school not only creates the mindset for future mathematical development, but it provides the foundation on which mathematical understanding is built. It is important that teachers see the connections between what is done in elementary school and the mathematics that follows. Participants will experience various elementary investigations and will contemplate their implications.

404 1:00-2:30 pm
Youth Center-Oliver DeWolf
Cummings Room
Curriculum Principle
Grades PK-8

The Craft of Shrinking Mathematics

Jaime Malwitz, *National Science Foundation, Arlington, VA*

Teachers will be actively engaged in this science-mathematics 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 mathematics manipulatives and craft projects while exploring the properties of shrinking plastics.

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405 1:00-2:30 pm
Kern-Stansbury
Equity Principle
Grades K-2

Mathematics Family Fun Night

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

John Bergum, *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*

See what one school district did to support and encourage the learning of mathematics for all their students through parental involvement. Get ideas and resources to use at your own fun night.

406 1:00-2:30 pm
Kern-Hanson
Learning Principle
Teaching Principle
Grades 3-5

Quilting: Transformational Geometry and Symmetry

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

Dawn Michaels, *Madison Metropolitan School District, Madison, WI*

Dawn Michaels, *Madison Metropolitan School District, Madison, WI*

Jenny Yttri, *Student at University of Wisconsin, Madison, WI*

Mathew Felton, *Student at University of Wisconsin, Madison, WI*

This session is an introduction to an integrated curriculum unit that was developed while working with two upper grade classrooms relating ideas of geometry and symmetry to quilt designs. Participants will investigate these ideas through inquiry and hands-on materials. We will discuss what children learn about transformational geometry through paper quilt projects. Students' conjectures and work from the quilt project will be shared.

407 1:00-2:30 pm
Bauer-Morehouse C
Assessment Principle
Grades 6-12

A Look at Standards-Based Computer Grade Books

Douglas Dalman, *Beloit Memorial High School, Beloit, WI*

Ken DeForest-Davis, *Beloit Memorial High School, Beloit, WI*

Now that we are teaching to the Standards, how do we "average" student's standards-based work? Rubric scores which are "exemplary," "proficient" and "minimal" do not lend themselves to averaging. New computer grade books allow teachers to report student progress.

408 1:00-2:30 pm
Bauer-Boddie
Technology Principle
Grades 7-8

Curriculum Connections with Graphing Calculators (Intermediate Level)

Faye Hilgart, *Madison Metropolitan School District, Madison, WI*

Robert Hetzel, *Madison Metropolitan School District, Madison, WI*

Using problems from the eighth grade *Connected Mathematics Project (CMP)*, participants in this hands-on workshop will explore graphing calculator applications, discuss the importance of graphing calculator use at this level, and analyze the impact of this technology on the middle school curriculum. This workshop is designed for teachers with a little experience using graphing calculators. Non-CMP users are welcome to attend.

90 MINUTE WORKSHOPS

FRIDAY

409 1:00-2:30 pm
RWI-Veranda Room
Learning Principle
Grades 8-11

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.

410 1:00-2:30 pm
Kern-Boehr/Cary
Curriculum Principle
Grades 8-12

Play with Toys in Algebra Class— One of Your Best Manipulatives

Allan Bellman, *University of California, Davis, CA*


In this hands-on session we will see how toy cars can be used to introduce and assess all parts of a linear function unit. We will also use them to introduce nonlinear functions.



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90 MINUTE WORKSHOPS

FRIDAY

411 1:00-2:30 pm
Kern-Johnson
Curriculum Principle
Grades 8-12

Experience a Curriculum That Focuses on Important Mathematics as Reflected in the Real World to Challenge ALL Students of the 21st Century

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

Bob Fallon, *MATH Connections Implementation Center, Rocky Hill, CT*

MATH Connections encourages a variety of learning strategies complemented by technology and problem solving that focuses on real world situations. Learn activities that will excite student curiosity, stimulate student imagination, and emphasize actively building new knowledge from prior experience and skills. Take these activities back to ALL your students.

412 1:00-2:30 pm
Bauer-Morehouse B
Technology Principle
Grades K-8

Technology Math Solutions

Cora Scherer, *Pearson Educational Technology, Lisle, IL*

Karen Kahn Corlyn, *Burroughs Middle School, Milwaukee, WI*

Participants will explore Successmaker K-8 software to see its use for individualized technology-based math solutions.

60 MINUTE SESSIONS

FRIDAY

413 1:00-2:00 pm
Kern-Brayton Case A & B
Assessment Principle
Grades PK-16
KEYNOTE

The Assessment Principle

Jeremy Kilpatrick, *University of Georgia, Athens, GA*

This is the keynote session on the Assessment Principle:

Assessment should support the learning of important mathematics and furnish useful information to both teachers and students.



414 1:00-2:00 pm
Kern-Brown
Teaching Principle
Grades PK-12

PSSM Principles, Teaching Standards, and PI34

Jane Howell, *Retired, Platteville, WI*

Learn how the PSSM Principles correlate with the Wisconsin teaching standards and the implications for your professional development plan.

415 1:00-2:00 pm
RWI-Mahaney
Curriculum Principle
Grades 4-8

Challenging Children Through the Study of Real World Algebra

Ed Zaccaro, *Dubuque Schools, Dubuque, IA*

Algebra is too often viewed as an abstract concept with no practical uses because children are rarely taught to think algebraically. Learn strategies for helping young children think algebraically with an approach that connects algebra to real world problems in areas of mathematics such as geometry, physics, levers, and money. This session will also include a presentation on three things that all future mathematicians and scientists must know but are rarely taught.

60 MINUTE SESSIONS

FRIDAY

416 1:00-2:00 pm
Lawson-Martin
Luther King, Jr.
Curriculum Principle
Grades 5-16

Recurring Themes in School Mathematics

Richard Askey, *University of Wisconsin, Madison, WI*

Ideas recur in a coherent mathematics curriculum. Some examples will be given.

417 1:00-2:00 pm
Bauer-LaDue
Learning Principle
Teaching Principle
Grades 6-8

MMM+M: Modeling Middle School Mathematics and More

L. Carey Bolster, *Bolster Education, Annapolis, MD*

We will use videos of lessons from the *Connected Math Project*, *Mathematics in Context*, *MathScape*, *MathThematics* and *Pathways* as springboards for hands-on and web-based activities that can be used to increase student interest and achievement in middle school mathematics.

418 1:00-2:30 pm
Bauer-Lightbody
Equity Principle
Grades 3-5

More Mathematics for All

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

Varied content and varied activities. Differentiated instruction for the intermediate mathematics class can be provided using compacting and contracts, tiered assignments, and varied questioning. Resources for providing for diverse needs are often available in whatever mathematics series teachers are using. Participants will walk through the process of analyzing data and designing differentiated assignments for learners with diverse needs.

90 MINUTE WORKSHOPS

FRIDAY

419 2:30-4:00 pm
Kern-Brayton Case A & B
Learning Principle
Grades 6-8

Exploring Geometry Through the Standards

Carol Malloy, *University of North Carolina, Chapel Hill, NC*

Exciting geometry activities and teaching of strategies will be presented through the van Hiele model to connect geometry content to levels of student understanding.



60 MINUTE SESSIONS

FRIDAY

420 2:30-3:30 pm
Kern-Brown
Teaching Principle
Grades PK-1

Little Kids—Powerful Problem Solvers

Angela Giglio Andrews, *Naperville Community Unit School District 203, Naperville, IL*

Stories from a kindergarten classroom illustrate how teachers can understand, identify, value, support, and extend the emergent mathematical understandings that young learners bring with them to school. (Repeated from session 310.)



60 MINUTE SESSIONS

FRIDAY

421 2:30-3:30 pm
Lawson-Martin
Luther King, Jr.
Teaching Principle
Learning Principle
Grades 5-8

Is Your Student Learning or Understanding the Mathematics That You Are Teaching?

Bertha Martinez, *Star Center Elementary School, Burlington, WI*

The presenter will differentiate between learning and understanding mathematics and share data collected from students during an action research project. In addition, the presenter will share successful instructional strategies to use during mathematics instruction.

422 2:30-3:30 pm
RWI-Mahaney
Assessment Principle
Grades 7-9

Writing Assessments, Journals, Summaries and More

Cara Landolt, *Woodworth Middle School, Fond du Lac, WI*

Use writing activities to engage students from LD mathematics to algebra, to make connections between topics, and to assess mathematical communication. Samples and rubrics will be included.

90 MINUTE WORKSHOPS

FRIDAY

423 3:00-4:30 pm
Kern-Hanson
Learning Principle
Teaching Principle
Grades K-3

Slides, Flips and Turns: Quilting Becomes Mathematical

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

Dawn Michaels, *Madison Metropolitan School District, Madison, WI*

This session is an introduction to an integrated curriculum unit for young children on how they can use two, three, and four color quilt designs. These designs will enable children to explore, recognize and apply slides, flips, and turns which will deepen their understanding of space and symmetry. CGI story problems will be shared for some of our favorite children's quilt books. Students' journal writings and quilt projects will be on display.

424 3:00-4:30 pm
Kern-Boehr/Cary
Assessment Principle
Grades 3-5

Assessment That Energizes Instruction

Patricia Tyunaitis, *Lakeshore Technical College, Cleveland, WI*

A variety of assessments will be explored and experienced. Find out how to energize yourself and your students.

425 3:00-4:30 pm
Kern-Stansbury
Technology Principle
Grades 6-9

Examining Linearity Using the Light, Voltage, and Temperature Probes with the TI-73 and CBL2

Beth Kilday, *UW-Eau Claire, Eau Claire, WI*

Participants will engage in three activities that utilize technology to collect scientific data which can then be modeled by a linear equation. These activities can be used in the middle school classroom.

90 MINUTE WORKSHOPS

FRIDAY

426 3:00-4:30 pm
Bauer-Morehouse B
Technology Principle
Grades 6-12

Multimedia Software for Developing Students' 3-D Spatial Skills

Sheryl A. Sorby, *Michigan Tech University, Houghton, MI*

This session will highlight work conducted at Michigan Tech in enhancing students' 3-D spatial skills. Multimedia software will be the focus of the instruction.

427 3:00-4:30 pm
Bauer-LaDue
Curriculum Principle
Grades 8-12

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

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

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

428 3:00-4:30 pm
RWI-McGarvey
Teaching Principle
Grades K-2

Connecting Children's Literature to Mathematics and Writing

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

See how using children's literature can set the stage for or enhance the big ideas in mathematics and incorporate writing into your mathematics class. Leave the workshop with ideas you can use right away in your classroom. Be prepared to have fun!

429 3:00-4:30 pm
Bauer-Beaty
Learning Principle
Grades K-6

Develop Numeration Strategies Through Child's Play

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

Mary Freytag, *Mathematics Consultant, Sun Prairie, WI*

Games, activities, children's literature, and manipulatives help make mathematics meaningful for students engaged in the *Everyday Mathematics* program. The NCTM Learning Principles as well as new research on how the brain works remind us that children excel when they are given the opportunity to explore, interact, and question. So don't be a remainder! Come experience tasks that can deepen your own students' understanding while they build and connect knowledge about numbers.

60 MINUTE SESSIONS

FRIDAY

430 3:00-4:00 pm
RWI-Veranda Room
Learning Principle
Grades K-6

Developing Quality Examples in K-6 Teaching

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

Participants will analyze typical mathematics teaching examples for aspects that might limit students' understanding! Utilizing Dienes' Mathematical Variability Principle, the group will discuss supplementary examples that might be given to prevent students' misconceptions.

431 3:00-4:00 pm
 Bauer-Boddie
 Teaching Principle
 Equity Principle
 Grades 2-4

Investigating Landmarks in the 100's

Daithi Wolfe, *Glendale Elementary School, Madison, WI*

We will look at the way the Investigation Units on Landmarks in the 100's help diverse learners build understanding of number, place value, and factors. Students' work will be shared, and one specific activity will be explored by participants. Special attention will be paid to modifications for a widely diverse classroom including CD, LD, ED, hearing impaired, and talented and gifted students.

432 3:00-4:00 pm
 Bauer-Morehouse C
 Assessment Principle
 Teaching Principle
 Grades 6-8

Assessment in the *Connected Mathematics Project*

Christopher Danielson, *Michigan State University, East Lansing, MI*

We will look at a variety of tasks in the curriculum and consider the usefulness of each in assessing student understanding.

433 3:00-4:00 pm
 Bauer-Lightbody
 Curriculum Principle
 Teaching Principle
 Grades 6-8

Implementing a Successful Connected Mathematics Program in Middle School

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

Two years after implementing CMP our test scores jumped more than any other middle school in Madison. Here are some ideas to help make CMP work in your middle school.

434 3:00-4:00 pm
 Kern-Johnson
 Teaching Principle
 Grades 8-14

A Geometry and Trigonometry Strand Across a Curriculum

Mary Walz, *Sauk Prairie High School, Prairie du Sac, WI*

Kent Jensen, *Sauk Prairie High School, Prairie du Sac, WI*

An explanation of the integration of a geometric and trigonometric strand across four years of mathematics using the Contemporary Mathematics in Context: A Unified Approach textbooks of the Core-Plus Mathematics Project (CPMP) standards-based curriculum. The primary goal of the geometry and trigonometry strand is to develop visual thinking and student ability to construct, reason with, interpret, and apply mathematical models of patterns in visual and physical contexts. The focus is on describing patterns with regard to shape, size, and location; representing patterns with drawings, coordinates, or vectors; predicting changes and invariants in shapes; and organizing geometric facts and relationships through deductive reasoning.

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

Exhibit Hall Hours

Thursday

9:00 am to 4:00 pm

Friday

9:00 am to 1:00 pm

The companies registered to exhibit at press time include:

AGS Publishing
Book Look
Curriculum Assoc./Options Pub/Continental Press
Delta X Industries
Everyday Mathematics
Glencoe/McGraw-Hill
Great Source Education Group
Harcourt School Publishers
Hickory Grove Press
Holt, Rinehart and Winston
Houghton Mifflin
Innovative Education
Kendall/Hunt Publishing Company
Key Curriculum Press
McDougal Littell
Michigan Technological University
NASCO
Pearson Educational Technologies
Prentice Hall
Saxon Publishers
Science, Math and Gifted Products
Scott Foresman
Texas Instruments
Thomson/Brooks Cole
Whole Movement Geometry
Wright Group/McGraw-Hill

Special Thanks to:

Prentice Hall for underwriting the conference registration booklet and the Thursday sessions on the Connected Mathematics Project.

Scott Foresman for underwriting the T-shirts for the pages.

Texas Instruments for providing all the calculators for the conference.

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.

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.

Meals

Reserve your Thursday evening Celebration Dinner 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 57) which **must be** mailed directly to the Green Lake Conference Center.

Important Dates

In order to receive your confirmation letter and Celebration Dinner ticket by mail, you must register by April 8, 2003. After this date, you can still register, but 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

Payment

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

Payment must accompany registration forms.

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 25. No registration fees will be refunded after April 25, 2003.

Wisconsin Mathematics Council
142 North Main Street
Thiensville, WI 53092

Tel: (262) 242-9418

Fax: (262) 242-1862

Email: wismath@execpc.com

On-site Registration

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

Wednesday, April 30

Kern Lobby 6:00 pm to 10:00 pm

Thursday, May 1

Pillsbury Lobby 7:00 am to 4:30 pm

Friday, May 2

Pillsbury Lobby 7:00 am to 3:00 pm

35th Annual Green Lake Conference Registration Form

May 1-2, 2003, All-day Pre-Session April 30 ■ Green Lake Conference Center, Green Lake, WI

For Housing & Meal Information see pages xx-xx

Important: No materials will be mailed for registrations received *after April 8*. 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

Check for **VEGETARIAN** meals

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

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

on Thursday on Friday

CELEBRATION DINNER, Thursday evening at the Ridges of Ripon

I plan to attend I do not plan to attend

AMOUNT OF PAYMENT

\$ _____ Registration Fees

\$ _____ Membership Fee

\$ _____ Guest Fee

\$ _____ Additional Celebration Dinner Tickets

\$ _____ **Total**

Check enclosed (Make checks payable to Wisconsin Mathematics Council)

P.O. #: _____

Charge my: Mastercard Visa

Acct #: _____

Exp. date _____

Signature _____

Fees include \$25 non-refundable processing charge. No registration fees will be refunded for cancellations made after April 25, 2003.

FEES	MEMBERS	NONMEMBERS	STUDENT MEMBERS	STUDENT NON-MEMBERS
OPTION 1: All three days				
Through April 8	\$170	\$200	free	\$10
After April 8	\$200	\$230	\$10	\$25
OPTION 2: Two days only				
I will attend only two days (please check two): <input type="checkbox"/> Wednesday <input type="checkbox"/> Thursday <input type="checkbox"/> Friday				
Through April 8	\$120	\$150	free	\$10
After April 8	\$150	\$180	\$10	\$25
OPTION 3: One day only				
I will attend (please check one): <input type="checkbox"/> Wednesday <input type="checkbox"/> Thursday <input type="checkbox"/> Friday				
Through April 8	\$70	\$100	free	\$10
After April 8	\$100	\$130	\$10	\$25
MEMBERSHIP FEES				
\$35	<input type="checkbox"/> New Member <input type="checkbox"/> Renewal	\$10	<input type="checkbox"/> Student <input type="checkbox"/> Retired	

GUESTS		ALL GUESTS MUST BE REGISTERED PER GREEN LAKE POLICY.		
Guest's Name _____				
Guest Registration fee:	Through April 8	\$5	After April 8	\$10
ADDITIONAL CELEBRATION DINNER TICKETS				
_____	Number of Celebration Dinner tickets at \$20 each	_____	Number of Celebration Dinner vegetarian meals	

Send or fax registration forms, with the check, purchase order, or credit card information to:

Wisconsin Mathematics Council
142 North Main Street
Thiensville, WI 53092

Tel: (262) 242-9418
Fax: (262) 242-1862

email: wismath@execpc.com
Register online at www.wismath.org

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 57.
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 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 Celebration Dinner will be held Thursday night at the Royal Ridges of Ripon. Reserve your Celebration Dinner ticket on the Wisconsin Mathematics Council Green Lake Conference Registration Form, on page 55.

Meal Hours

Breakfast	7:00 to 9:00 am
-----------	-----------------

Lunch	11:00 am to 1:30 pm
-------	---------------------

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

LODGING AND MEAL TICKET RESERVATION

Wisconsin Mathematics Council, Inc. Green Lake Conference Center

Please make 2003 Reservations by mail or fax only.

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 roommates.)			

2003 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/Dbf	Triple	Quad	Five Persons	Six
Roger Williams Inn, Kern, Bauer	81.00	91.00	101.00	111.00	N/A
Lawson Lodge Mini Suites	86.00	N/A	N/A	N/A	N/A
Bauer Lodge Suites	101.00	111.00	121.00	131.00	141.00
Robbins Student Centers	45.00	55.00	N/A	N/A	N/A

Homes and Cabins	Two night minimum. See reverse side for prices.
Camping	Call Green Lake for information.
Lodging Preference: (See reverse side of sheet)	<input type="checkbox"/> Check this box if you wish to be called if your preferred lodging <i>is not available</i> . 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

Tuesday	<input type="checkbox"/> \$8.25 Lunch	<input type="checkbox"/> \$10.25 Dinner
Wednesday	<input type="checkbox"/> \$6.50 Breakfast	<input type="checkbox"/> \$8.25 Lunch
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

Payment Options: 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. Homes, Cabins & Camping: 90 days prior to arrival, 50% refund; within 90 days of arrival, no refund. In the above cases if no deposit has been made, an assessment will be made in the same amount.

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.

Camping: A variety of sites available with or without electricity and/or water or sewer.

***Located in main conference area.**

Home Capacities & Prices		
Home	Capacity	Nightly Rate
Anne Hathaway Cottage	13	\$461.00
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 Apartment	4	\$166.75
Dawson House	11	\$248.00
Del Mar Milner House	18	\$590.25
Hobley Cottage	9	\$207.00
Lindenwood Cottage	6	\$330.00
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, Killian, 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

PRESENTER INDEX

Alekna, Janet.....400	Friel, Susan.....106, 341	Kranendonk, Henry205, 334	Rowley, Lucia.....140
Andrews Giglio, Angela...310, 420	Gantner, Monica.....203	Kuemmel, Andrew316	Rubel, Laurie.....323
Arbaugh, Fran.....318	Giamati, Claudia114, 315	Landolt, Cara422	Rubinstein, Debby.....224
Askey, Richard416	Gratch, Janice.....122, 312	Lappan, GlendaPre-session, 139	Sagrillo, Jenny.....343
Atkins, Sandra208	Gregg, Marsha.....119	Larson, Ron337	Schactner, Kathleen.....343
Bakken, Laura301	Grochowski, Nancy Jo.....300	Laughlin, Connie.....129	Scherer, Cora412
Bay-Williams, Jennifer318	Grunow, Jodean118, 403	Levi, Linda.....216	Schluter, Eric136
Bellman, Allan.....202, 322, 410	Hackbarth, Daniel336	Levine, Vic.....335	Schuldt, Karin.....324
Bellman, Lonnie332, 427	Harris-Manske, Mary Lou.....141	Lewis, Ann116, 221	Secada, Walter124
Bergum, John331, 405	Hauser, Kim.....123	Loard, Max328	Selck, Vicki.....224
Billstein, Rick.....325, 340	Hedges, Teri.....218	Long, Donna217, 222	Shinners, Gerry.....224
Bolster, L Carey233, 417	Hellgren, Mary144	Lucas, Christine.....107	Snyder, Kathi.....234, 313
Borgwardt, Barb331, 405, 428	Hendrickson, Rob123	Lucas, Jeff.....320	Sorby, Sheryl426
Boswell, Laurie201, 333	Hetzel, Robert305, 408	Luck, Gary.....308	Sparks, Bill125
Bredel, Barb.....319	Hicks, Judy115, 342	Lyon, Julie126	Staflien, Chris213
Bremer, Judy.....110	Hilgart, Faye.Pre-session, 305, 408	MacMillan, Bruce108	Statz, Kathy122, 225
Bruggink, Jeff.....134	Hill, Karen134	Malloy, Carol338, 419	Steinmeyer, Meghan128
Burks, Kirsten.....111	Hirsch, Chris.....219	Malwitz, Jaime.....317, 404	Stewart, Diane224
Burrill, Gail133, 215	Hollinger, Rosann228, 400	Martinez, Bertha.....421	Strauss, Thomas207
Burrill, Jack113, 214	Horney, Jeff120, 227	Mastin, Marla330	Tamblyn, Mike.....212, 401
Cason, Elizabeth311, 430	Howell, Jane414	McDonald, Julie121	Thomas, Karen121
Chase, Patricia206	Huber, Laura.....200	Melcher, Rick304	Thrun, Jason121
Chmielinski, Sue429	Huinker, DeAnn128	Merkert, Babs307	Tobias, Ed339
Corlyn, Karen300	Hustoles, Mary Jo402	Miceli, Linda223	Tyunaitis, Patricia424
Crum, Barbara.....223	Huth, Patrick.....101	Michaels, Dawn406, 423	Uselmann, Linda.....131, 344
Dalman, Douglas.....407	Ingram, Lynn126	Moyer, JohnPre-session	Valentine, Carrie.....200
Danielson, Christopher209, 432	Janty, John400	Munch, Colleen303	Walker, Cindy205
Datka, Diana112, 210	Jenkins, Mazie.....406, 423	Neitzel, Michaela303	Walz, Mary143, 434
DeForest-Davis, Ken.....407	Jensen, Kent143, 434	O'Brien Cotherman, Mary109	Webb, Ph.D., David224
Dillman, Peggy.....142	Jensen, Margaret.....321	O'Connor, Patrick328	Weidner, Mike.....314, 409
Drzewiecki, Paul123	Jones, Judy Ann.....138	Olsen, Larry411	Weisse, Michelle142
Empson, Susan.....145, 220	Jones Jr., Eddie.....111	Ordinans, Joseph117	Weisse, Paul.....207
Erickson, Dave331, 405	Kahn Corlyn, Karen.....412	Osell, Brenda.....224	Weyer, Debby231
Ewer, Melissa.....114, 315	Kanold, Timothy.....Pre-session	Otto, Carol204	White, Don433
Falkner, Karen130	Kanter, Patsy.....302	Pagel, Becky204	Whiting, Mary Jane203, 328
Fallon, Bob411	Kasbaum, Diana.....104, 403	Patterson, Jane.....228	Widerski, Ted.....235
Fazio, Jane228	Keller, Judith.....329	Peters, Leona105	Wiedholz, Robert.....Pre-session
Felton, Mathew.....406	Kepner, Jr., Henry205	Phillips, Elizabeth.....132	Wilhelm, June.....204
Flory, Michael306	Kilday, Beth.....425	Procknow, Jason.....130	Williams, Lori.....102, 232, 418
Fonk, Molly324	Kilpatrick, Jeremy.....309, 413	Reiss Wilcox, Karen127	Wilson, Elsie.....329
Forte, Bettye.....211, 229	King, Kim127	Remus, Linda.....331, 405	Wolfe, Daithi431
Frank, Tracy.....327	Kmoch, Joseph.....236	Ringelstetter, Mary.....312	Womack, Lois.....230
Freckmann, Janis205, 230	Kocmoud, Kali103	Ritsema, Beth135	Yttri, Jenny406
Frenchick, Rob137	Koehler, Julie.....216	Rodriguez, Alisa.....326	Yttri, Mary Jo119
Freytag, Mary429	Kostac, Dennis.....100	Rosin, Mary.....319, 400	Zaccaro, Ed226, 415

NOTES



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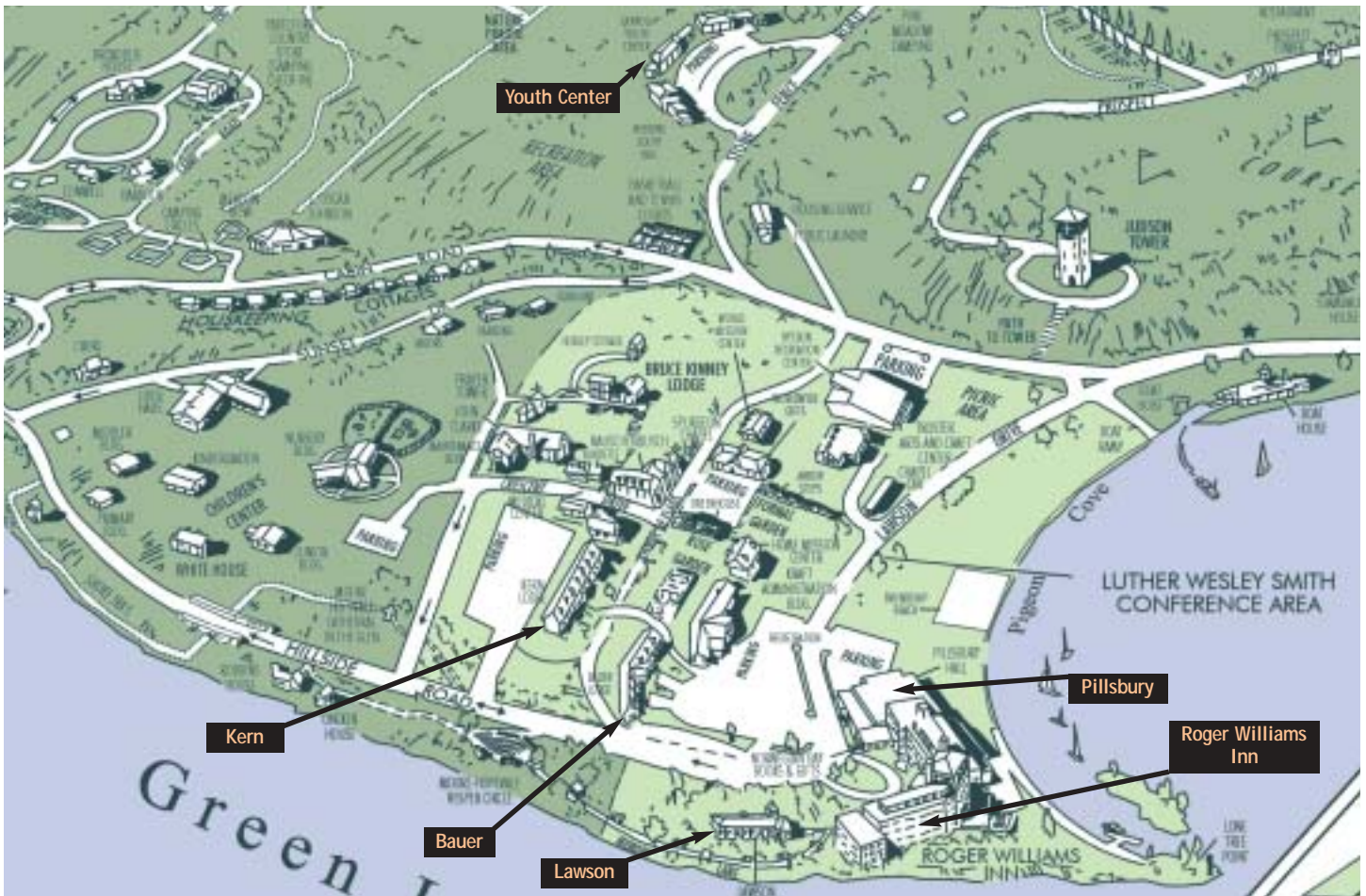


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 Morehouse A
 Morehouse B
 Morehouse C

Kern Lodge
 Boehr
 Brayton Case A
 Brayton Case B
 Brayton Case C
 Brown
 Cary
 Hanson
 Johnson
 Stansbury

Lawson Lodge
 Martin Luther King, Jr.

Pillsbury
 Lakeview Dining Room
 Pillsbury Hall (Exhibits)

Roger Williams Inn (RWI)
 Crystal Room
 Mahaney
 McGarvey
 Veranda Room
 Veranda Dining Room
 (enter through Crystal)

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