

NPRIME – Milwaukee Mathematics Partnership IHE Network Conference
What Is the Mathematical Knowledge Needed for Teaching?
Monday, August 16, 2004
Agenda

- 8:00-8:30 Coffee, juice, and rolls
- 8:30-9:00 **Welcome**
Our Charge from *The Mathematical Education of Teachers* Report from the Conference Board of the Mathematical Sciences.
Marge Wilsman, DeAnn Huinker, Kevin McLeod, Hank Kepner
- 9:00-9:45 **Developing Teachers' Mathematical Knowledge for Teaching**
Examination of the work from the Center for Proficiency in Teaching Mathematics 2004 Summer Institute, University of Michigan.
Jack Moyer, Marquette University; Melissa Hedges, Hank Kepner, UWM
- 9:45-10:15 Break
- 10:15-11:00 **The Process of Preparing Future Mathematics Teachers**
Enhancing the Core: A Mathematics Faculty Works on Mathematics Content Courses for Teachers
Charlene Beckmann, Matthew Boelkins, David Coffey, John Gabrosek,
Grand Valley State University, Michigan (GVSU)
Connecting Middle School and College Mathematics
John Beem, University of Missouri-Columbia (UM-O)
The UW-Oshkosh Mathematics Program to Prepare Middle School Teachers
John Koker, UW-Oshkosh (UW-O)
- 11:00-12:00 **Concurrent Sessions**
- (1) **Geometry**
Charlene Beckman, GVSU; John Beem, U-MO; Fredric Ancel, Melissa Hedges, UWM
- (2) **Mathematics for Elementary Teachers**
Robert Moore, Gary Luck, UWM; David Coffey, GVSU; Jack Moyer, Connie Laughlin, MU;
Tom Geil, MATC; Shubhangi Stalder, UW-Waukesha; Lois Kailhofer, Alverno College
- (3) **Probability and Statistics**
John Gabrosek, GVSU; Bernard Rahming, UWM; John Koker, UW-O;
Pat Hopfensperger, NCTM/ASA
- (4) **Problem Solving and Proof**
Matthew Boelkins, GVSU; Richard O'Malley, Kelly Kaiser, Sharonda Harris, UWM;
John Koker, UW-O
- (5) **Preparing Secondary Students' Transition to College Mathematics**
Eric Key, Dan Lotesto, UWM; David Ruskiewicz, MATC; Henry Kranendonk, MPS,
James Wollack, UW Early Math Placement Testing Program; MPS High School Representatives
- 12:00-1:00 **Lunch**
- 1:00-3:00 **Interactive Sessions**
- (1) **Geometry**: Beckmann, Beem, Ancel, Hedges
- (2) **Mathematics for Elementary Teachers**: Luck, Coffey, Stalder, Kailhofer, Moyer, Laughlin, Geil
- (3) **Probability and Statistics**: Gabrosek, Stockbridge, Rahming, Hopfensperger,
- (4) **Problem Solving and Proof**: O'Malley, Boelkins, Harris, Kaiser.
- (5) **Preparing Secondary Students' Transition to College Mathematics**: Key, Ruskiewicz,
Wollack, Kranendonk.

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Jack Moyer, MU; Melissa Hedges, Hank Kepner, UWM

Meet "Dr. Math"
Kevin McLeod, UWM

9:15-9:45 Break

9:45-12:30 **Interactive Sessions**

(1) Geometry: Beckmann, Beem, Ancel, Hedges

(2) Mathematics for Elementary Teachers: Luck, Coffey, Stalder, Moyer, Geil

(3) Probability and Statistics: Gabrosek, Stockbridge, Rahming, Hopfensperger,

(4) Problem Solving and Proof: O'Malley, Harris, Kaiser.

(5) Preparing Secondary Students' Transition to College Mathematics:
Key, Ruskiewicz, Kranendonk.

11:00 Light refreshments

Optional Parallel Sessions (attend one or both)

10:00-11:00 **Building Calculus on Prior Knowledge**

Examining rate of change using Excel, Maple, and other technologies.

Susan Pustejovsky, Alverno; Dan Lotesto, UWM; Kevin McLeod, UWM

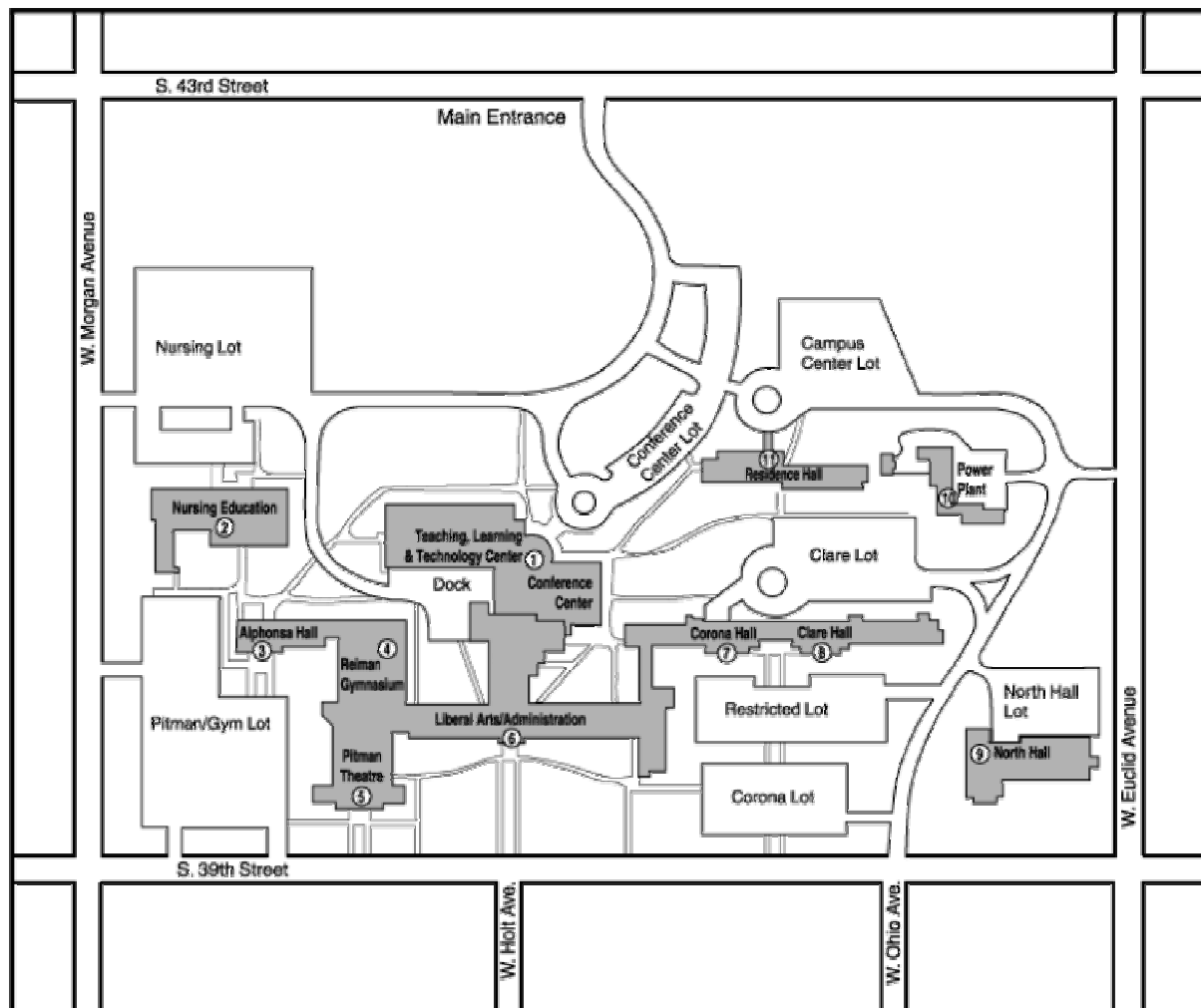
11:15-12:15 **Statistical Data Use with Tools: Fathom and Excel**

Henry Kranendonk, MPS; Pat Hopfensperger, NCTM/ASA; Hank Kepner, UWM

12:30-2:00 **Closing Session**

Reporting from Interactive Sessions and Next Steps: IHE Network and NPRIME

Alverno Campus Map For IHE Conference Information



IHE meeting rooms:

- 6 Liberal Arts/Administration building
 - Kellogg A is on the 4th floor
 - Other meeting rooms on 3rd floor

Free parking in Corona Lot, Pitman Lot (both off 39th street), or Conference Center lot (off 43rd street).