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The 62nd Annual Western Illinois University Mathematics Teachers' Conference



*Teaching and Learning
Mathematics K-14:
Meaning and Creativity
in the Classroom*

Friday, March 22, 2013

Sponsors

Western Illinois University
Department of Mathematics
Department of Curriculum
and Instruction

The Illinois Council of
Teachers of Mathematics

West Central Council of
Teachers of Mathematics



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GENERAL INFORMATION

Accommodations

Conference participants may wish to secure accommodations the night before the conference. On-campus accommodations may be obtained at the University Union Hotel by calling (309) 298-1941. Off-campus accommodations may be obtained at the Macomb Days Inn, (309) 833-5511; Comfort Inn, (309) 837-2220; Super 8 Motel, (309) 836-8888; Best Western Macomb Inn, (309) 836-6700; or Hampton Inn, (309) 837-6000.

ADA Compliance

Western Illinois University is in compliance with the Americans with Disabilities Act of 1990. Please let the Department of Mathematics know of any special needs you may have at least two weeks prior to the conference. The office phone number is (309) 298-2275.

Refund Policy

Western Illinois University reserves the right to withdraw a program because of unforeseen circumstances or insufficient enrollment. If a program is withdrawn, participants are notified and fees are refunded. A \$10.00 fee is charged to participants who cancel on or after Monday, March 18, 2013. No refunds will be made on or after the conference date.

Continuing Professional Development Units

If you are a teacher employed in a public school in Illinois, you are eligible to receive at least five Continuing Professional Development Units (CPDUs) for participating in this conference. You must indicate your interest in receiving CPDUs by checking the box on the registration form included in this brochure. You must also complete the required evaluation form at the conclusion of the conference.

Cover artwork by Dr. Daina Taimina

THE ANNUAL WIU MATHEMATICS TEACHERS' CONFERENCE

Welcome! The Western Illinois University Department of Mathematics, the Department of Curriculum and Instruction, and the West Central Council of Teachers of Mathematics are pleased to present and sponsor the 62nd Annual Western Illinois University Mathematics Teachers' Conference: "Teaching and Learning Mathematics K-14: Meaning and Creativity in the Classroom."

This year's conference will feature a wide range of exciting and engaging sessions and workshops. Speakers will share their ideas and experiences on topics related to teaching and learning mathematics at all levels.

Throughout the years, our conference has attracted high-quality speakers on a variety of topics related to the teaching of mathematics. We are fortunate this year to have Dr. David Henderson and Dr. Daina Taimina as our opening and closing speakers.

This conference is an opportunity for all teachers of mathematics and prospective teachers of mathematics to collaborate and share their successful math stories.

THE KEYNOTE SPEAKERS



Dr. Daina Taimina

Dr. Taimina is currently an adjunct associate professor at Cornell University; her interests lie at the intersection of mathematics, education, art, and history. Her book *Crocheting Adventures with Hyperbolic Planes* was awarded the 2012 Euler Book Prize from the Mathematical Association of America; this book is an aesthetically beautiful and visually intuitive approach to introducing educators, students, and the general public to hyperbolic geometry, in particular, and mathematics, in general. Her work has received national coverage in such media outlets as ABC News, *The New York Times*, and *The Boston Globe*. Her website is at www.math.cornell.edu/~dtaimina/.

Dr. David Henderson

Dr. Henderson is Professor Emeritus of Mathematics at Cornell University and is currently involved in extensive mathematics curriculum innovation projects. In 2005, he joined the high school curriculum development team for Robert Moses' Algebra Project, for which he is the lead writer of the geometry portion. In 2011, he joined an NSF-supported project to develop and test the potential of experiencing, describing, and visualizing space as the core of an integrated STEM education that spans the K-5 grades. He and Dr. Taimina have co-authored *Experiencing Geometry: Euclidean and Non-Euclidean with History* and he has written a second book, *Differential Geometry: A Geometric Introduction*. His website is at www.math.cornell.edu/~dwh/.



CONFERENCE ITINERARY

Friday, March 22, 2013

- 8:00-8:30 AM **Registration and Continental Breakfast**
Morgan Hall, First Floor
- 8:30-9:30 AM **Welcome and Keynote Address**
Morgan Hall 109
Dr. David Henderson
"Translate Your Experiences into Meanings of Mathematics"
- 9:45-11:35 AM **Morning Sessions**
Horrabin Hall
- 11:45 AM-12:30 PM **Lunch**
Horrabin Hall Gymnasium
- 12:35-1:50 PM **Afternoon Sessions**
Horrabin Hall
- 2:00-2:50 PM **Closing Address**
Morgan Hall 109
Dr. Daina Taimina
"Allowing the Unexpected: Creativity in Your Classroom"

Further Information

For further information, call the Department of Mathematics at (309) 298-2275 or e-mail LL-Cripe@wiu.edu. Additional forms and information are provided at wiu.edu/cas/math/teachers_conference/2013/.

Four Ways to Register

- Mail** the completed registration form with a check or credit card information to the Department of Mathematics, Western Illinois University, 1 University Circle, Macomb, IL 61455-1390.
- E-mail** a completed registration form (via attachment) with credit card information to mathconference@wiu.edu.
- Fax** your completed registration form with complete credit card information to the Department of Mathematics, c/o Laura Cripe at (309) 298-1857.
- Call** the Department of Mathematics at (309) 298-2275 with registration and credit card information.

Please register by **Monday, February 18, 2013**, in order to receive all conference materials and information.

REGISTRATION FORM

The Annual WIU Mathematics Teachers' Conference
"Teaching and Learning Mathematics K-14:
Meaning and Creativity in the Classroom"
Friday, March 22, 2013

Name _____

School/Organization _____

Address _____

City/State/Zip Code _____

Preferred Phone Number (include area code) _____

E-Mail Address _____

Grade Level You Presently Teach _____ I am a Western Alum.

- Full-Time Educator (includes lunch) \$50.00
- Speaker (includes lunch) waived
- Full-Time College Student (includes lunch) \$10.00

Check website for updates on sessions and conference details at wiu.edu/cas/math/teachers_conference/2013/.

Educators are eligible to receive at least five Continuing Professional Development Units.

I would like to receive CPDUs.

Please make check payable to **Western Illinois University** or pay by credit card.

Charge to Visa MasterCard Discover

Card Number _____

Security Code _____

Expiration Date _____

Authorized Signature _____

Mail the completed form to Western Illinois University, Department of Mathematics, 1 University Circle, Macomb, IL 61455-1390. Duplicate this form for additional registrations.