

Multiple Representations

The MATHWEST Spring Conference

*Tuesday,
April 7, 2009*

*Springfield Sheraton
at Monarch Place*

*Springfield
Massachusetts*

Schedule of Events

7:00 Registration &
Continental Breakfast
8:00 Session 1
9:45 Session 2
11:30 MATHWEST Luncheon
12:45 Session 3
2:30 Session 4

Exhibit Area

Ballroom Foyer 9:00 - 3:00 PM

www.mathwest.org

Welcome to Springfield!

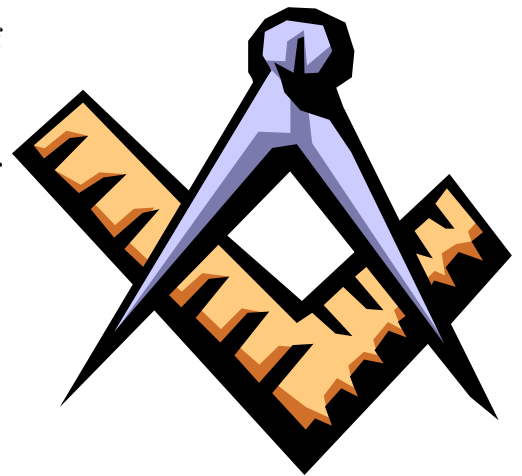
Over the past five years, organizers, speakers, and participants praised the intimate setting, small sessions, and collegial atmosphere of our conferences. When it came time to choose the format for the 2009 Spring Conference, it made sense to repeat those ideas. Many things that made the conference a success the last few years will be there again, as well as some changes and additions to make your experience uplifting and rewarding.

This year, we feature a three tier conference with tracks for elementary, middle and high school teachers. During each session, participants will have options for sessions in their grade level, although they can attend any session offered. In addition, we will host a luncheon for all participants, which is included with your registration fee. At the luncheon, one or more exceptional mathematics educators will be recognized with the 2009 MATHWEST Teacher of the Year Award.

Please let us know what you think of the varied offerings, speakers, and functions. Don't hesitate to speak to me or to any member of the MATHWEST Board about suggestions regarding this or future conferences. We always look forward to hearing from our members.

Best wishes for yet another fantastic and informative day!

Scott L. Trahan
Conference Chairman
and Treasurer, MATHWEST



Directions to the Springfield Sheraton

The Sheraton is located in the heart of New England in Downtown Springfield, directly off Interstate-91. Parking is available at the hotel and under nearby I-91 for a nominal fee.

From East: Take Massachusetts Turnpike I-90 West to Exit 4. Proceed onto I-91 South to Exit 7 (Springfield Center/Columbus Avenue). Take the first left onto Boland Way and the hotel entrance will be on the right.

From North: Take Interstate 91 South to Exit 7. After the exit, turn left at the traffic light. Go straight through the next light, and the hotel is on the right.

From West: Take Massachusetts Turnpike I-90 East to Exit 4 onto I-91 South. Go about 6 miles and take Exit 7. Turn left at the traffic light and travel straight through the next light. The hotel will be on the right.

General Information

DISCLAIMER

Complete program with session descriptions is available online at www.mathwest.org. Schedule subject to change without notice. References to particular commercial products by a speaker should not be construed as an endorsement by MATHWEST of said products.

COPYRIGHTED MATERIALS

The MATHWEST Conference prohibits the use of any copyrighted materials in presentations unless proper credit is given and/or the holder of the copyright has granted prior permission.

PERMISSION TO TAPE

Permission to tape or record a session must be obtained directly from the speaker involved at least ten days prior to the conference. The request should contain a statement indicating the intent of such recording.

**MATHWEST
would like to thank our
sponsors and exhibitors.**

*A+ Compass
Amsco School Publications
CPM Educational Program
Curriculum Associates
Heinemann Publishers
Key Curriculum Press
Math Games K-5
Math Tech Consulting, LLC
Pearson Scott Foresman
Texas Instruments*

PHOTOGRAPHY NOTICE

By registering for this conference, you are aware that photographic and video images of you may be taken in regards to promoting MATHWEST. You also give the organization permission to use those images in promoting future events. Any one who wishes to limit their use must contact SLTrahan@comcast.net.

SPECIAL NEEDS

We welcome the participation of those with special needs. Requests for special accommodations must be received by March 20, 2009. Contact Scott Trahan at SLTrahan@comcast.net or by telephone at 413-789-2292.

CERTIFICATE OF ATTENDANCE

A certificate of attendance will be available to all participants upon departure at the registration desk.

HOSPITALITY

The Hospitality Committee welcomes you to Springfield and the MATHWEST Conference. The Hospitality Desk is located on the lower level. Stop by for information on dining, shopping, transportation and night time activities. We also serve as a clearinghouse for lost and found items.

MATHWEST MEMBERSHIP

MATHWEST, currently celebrating our 24th anniversary, is a partner affiliate of the National Council of Teachers of Mathematics. We represent hundreds of teachers in various grade levels throughout Western Massachusetts. We welcome those in the mathematics teaching community to join us in enhancing professional development.

As part of your conference registration fee, you will be a member of MATHWEST, if you are not already. Dues for a regular membership are \$20 a year. Members receive periodic mailings, and are eligible for grants and awards (see our website) as well as for reduced rates for workshops and events that we sponsor each year.

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|-------------------------------|--------------------------------|----------------------------|--------------------------------|
| LOOK at our offerings! | Elementary Level Grades K—4 | Middle Level Grades 5—8 | Secondary Level Grades 9—12 |
|-------------------------------|--------------------------------|----------------------------|--------------------------------|

**Continental Breakfast sponsored by Pearson Scott Foresman
7:00 AM — 8:00 AM**

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|----------------------------------|--|---|---|
| SESSION 1 8:00 — 9:30 AM | <i>Elementary Fibonacci & Nature's Numbers</i> Nancy Strouse, Retired West Springfield Public Schools | <i>Graphing Statistics Made Easy: Fun Activities on the TI-83</i> Dr. Thomas Walsh Math, Science, & Technology Kean University | <i>Multiple Representations with TI-Nspire Technology</i> James Donatelli Educational Tech. Consultant Texas Instruments |
| | | <i>Hidden Mathematics in Lego Train Layouts</i> Prof. Edward Welsh Mathematics Westfield State College | <i>What the DESE is doing for mathematics?</i> Susan Mason Instructional Leadership Specialist High School of Commerce |
| SESSION 2 9:45 — 11:15 AM | <i>Using Literacy in Math Workshop</i> Tricia Lynn Mathematics Specialist Windsor Public Schools | <i>A Geometric Adventure: From Tetrahedrons to Sierpinski Pyramids</i> Lynn Rakatansky President RIMTA | <i>Forensic Math: Credit Cards and Corporate Fraud</i> Prof. David Daniels Mathematics Western New England College |
| | | <i>Geometry by Experiments and Demonstrations</i> Dr. Art Stoner A+ Compass | <i>Secret Snowflake = Analysis of a Holiday Gift Exchange</i> Roger Turton Mathematics Department Head Stoneleigh-Burnham School |

**Luncheon & Awards Ceremony sponsored by Texas Instruments
11:30 AM — 12:30 PM**

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|----------------------------------|--|--|--|
| SESSION 3 12:45 — 2:15 PM | <i>BLT: Bringing Language Arts and Technology to Mathematics Activities</i> Prof. Maria Diamantis Math Education Southern Conn. State Univ. | <i>Puzzling Ratios: Tangrams and Proportional Reasoning</i> Diane Devine Higgins Middle School Peabody Public Schools | <i>Games and Activities to Support Learning in AP Calculus AB</i> Lori Seymour Mathematics Coordinator Mahar Regional High School |
| | | <i>Using the Smart Board for Middle School Mathematics</i> Nikali Benkert Agawam High School | <i>Let Me Re-Iterate</i> AJ Stachelek Ed.D. Candidate in Mathematics Education Columbia University |
| SESSION 4 2:30 — 4:00 PM | <i>Manipulatives and More: It's Elementary!</i> Dr. Louise Lataille Cathedral High School | <i>Play Your Algebra With A Full Deck</i> Cathy Draper President The Math Studio, Inc. | <i>TI-Navigator: Making the Mathematics Classroom Truly Interactive</i> Scott L. Trahan Agawam High School |
| | | <i>Geometry by Experiments and Demonstrations</i> Dr. Art Stoner A+ Compass | <i>Secret Snowflake = Analysis of a Holiday Gift Exchange</i> Roger Turton Mathematics Department Head Stoneleigh-Burnham School |

MATHWEST *Teacher of the Year*

The Board of Directors of MATHWEST is pleased to offer recognition for work in the field of mathematics education. The award recognizes teachers in Western Massachusetts for outstanding contributions to the advancement of mathematics education and teaching. Three awards will be given per year. The categories for the awards are: current K – 6 teachers, current 7 – 12 teachers, and retired mathematics teachers.

Criteria

Use the following criteria as general guidelines for your nomination.

- ~ The educator has taught for a minimum of 5 years.
- ~ The educator has been involved statewide, regionally, and/or nationally.
- ~ The educator has introduced or modified new teaching and learning programs.
- ~ The educator has presented workshops and/or lectures.
- ~ The educator has published materials of value in mathematics education.
- ~ The educator has provided services to professional organizations.
- ~ The educator has demonstrated enthusiasm and a continual search for knowledge.
- ~ The educator has demonstrated leadership in mathematics education
- ~ The educator has made a long-term impact on students.
- ~ The educator has made other contributions to be considered.

Nominations:

Nominations are encouraged and can come from professionals in the field of education from across Western Massachusetts. Nominators should fill out the nomination form below and include *a maximum* of a two-page typed essay describing why the nominee should be considered for this award. Nominations should be post-marked by February 27, 2009.

Nominee: _____ School: _____

School Address: _____

City: _____ State: _____ Zip Code: _____

Home Address: _____

City: _____ State: _____ Zip Code: _____

Telephone (home): _____ (work): _____ (email): _____

Current position and grades taught: _____

Number of years teaching: _____ Other subjects taught: _____

Award Type: K – 6 7 – 12 Retired

Nominator: _____ Nominator's Telephone: _____

Mail Nomination Materials To:

MATHWEST
PO Box 139
Feeding Hills, MA 01030

Note about submissions:

All nominations must be postmarked by February 27, 2009. The Board of Directors will review the nominations and determine the recipients. The nominators, the three recipients and the press will be notified of the Board's decision. Awards will be given at the Annual MATHWEST Spring Conference on April 7, 2009.

2009 Conference Registration

April 7, 2009

The Sheraton Springfield

Springfield, MA

Registrations must be paid and postmarked no later than **March 20, 2009** to qualify for regular registration fees. Any other applicable amounts not included will be collected on-site.

Name _____ Job title _____
School/Institution _____ E-mail address _____
Address _____ City _____
State _____ Zip code _____ Phone number _____
Work number _____ Fax number _____
This is my: home address work address
Grade level of Interest : K — 4 5 — 8 9 — 12 College / In-Service

Are you a current MATHWEST member? Yes No Membership expiration date: ____/____/____

There will be a continental breakfast (7am-8am) and a luncheon.

Lunch option: Chicken Cape Cod Penne Ortolano
Stuffed with cranberry stuffing *Topped with red peppers, scallions*
Topped with light cranberry *pine nuts and feta cheese in a*
herb sauce *garlic white wine sauce.*

| Registration Fees | Early (by Feb 27th) | Regular (By March 20th) | Late (by April 6th) |
|-------------------|--------------------------------|--------------------------------|--------------------------------|
| Member | <input type="checkbox"/> \$85 | <input type="checkbox"/> \$100 | <input type="checkbox"/> \$125 |
| Non-member | <input type="checkbox"/> \$105 | <input type="checkbox"/> \$120 | <input type="checkbox"/> \$145 |

All non-MATHWEST members will receive a one-year membership with their paid registration. Members are eligible for all services provided by MATHWEST including grants, awards, etc.

Payment by school PO, Credit Card or Personal Check.

PO: PO Number _____ **Credit Card:** Name on Card: _____
Contact Phone Number _____ Billing Address _____
Billing Address _____

Card Number: _____
CHECKS: Make checks payable to: MATHWEST Expiration Date: _____ Billing Zip: _____

NOTICE: In order to qualify for the given rates, registration must be postmarked by the deadlines above. Registration must include a completed registration form for each attendee as well as payment. If paying by school purchase order, registration form must be received with PO by deadline to receive stated fee. Any registration that does not include the physical PO will be held until PO arrives. Rates will be determined by date PO is postmarked. If attendee can not attend, a substitute may be sent. No refunds will be issued under any circumstance. Substitutes' name must be received March 20, 2009.

Credit card charges will be processed by our event management company. A \$5 processing fee will be applied to credit card payments.

Please direct all registrations and questions to:

Scott Trahan, c/o MATHWEST, PO Box 139, Feeding Hills MA 01030-0139
Phone/Fax: 413-789-2292 Email: SLTrahan@comcast.net



*The Association of Teachers of Mathematics
in Western Massachusetts*

PO Box 139

Feeding Hills, Massachusetts 01030-0139

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Phone/Fax: 413-789-2292

Why Attend Our Spring Conference?

Make professional connections, while learning from experienced educators. Receive loads of great classroom activities and ideas, and return to your classroom with a renewed enthusiasm for teaching. Designed specifically for mathematics teachers, this conference is an opportunity to exchange ideas and strategies for use in your classroom.

Representing hundreds of teachers in various grade levels throughout Western Massachusetts, MATHWEST is the local partner affiliate of the National Council of Teachers of Mathematics. Our mission is to promote better mathematical understanding among students, foster the networking of teachers at all levels in the region, and offer professional development opportunities and resources to our members.

“Multiple Representations” helps to establish connections for students. Research shows that students learn mathematical concepts more readily and with deeper understanding when they learn across different forms of representation. When they are able to see the math in different ways— through multiple representations— they begin to broaden their critical thinking skills and make meaningful connections. *It just adds up!*

