

ASSOCIATION OF TEACHERS OF MATHEMATICS  
IN WESTERN MASSACHUSETTS, AN AFFILIATED  
GROUP OF THE NATIONAL COUNCIL OF  
TEACHERS OF MATHEMATICS

# MATHWEST NEWS

FEBRUARY 2002 Volume 15, Issue 1

Come Join Us,  
Construct New Relationships,  
And Stay Mathematically in Shape!

Inside this  
edition:

★ A professional  
development  
opportunity  
to learn  
TI InterActive!

★ An updated  
calendar of events

★ A report on the  
on-going  
AP Calculus  
get-togethers

★ NCTM Academy  
coming to  
Springfield.

★ Updated list of  
our Board of  
Directors.

## GENERAL MEMBERSHIP MEETING MARCH 7, 2002

Our next meeting will be a dinner meeting to be held  
at the Holiday Inn Holyoke at 3:30 PM.

Our main focus for the evening is Geometry.  
So come meet other members of your mathematics  
community while learning a little at the same time.

The cost will be \$10 per person for the evening.  
Mark your calendar now, and mail your check to  
MATHWEST so that you don't miss out.

Look inside for more information about this event!

GO VISIT OUR WEB SITE  
[www.wgby.org/edu/mathlink](http://www.wgby.org/edu/mathlink)

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**TI-InterActive! Workshop**  
**Agawam High School**  
**March 19th, 26th and April 2nd, 9th, 23rd**  
**3 - 5 PM**  
**5 Two-Hour Sessions**

TI InterActive! is a document creation program with the mathematical features of a powerful TI graphing calculator. It lets you build documents that not only contain text and pictures, but also dynamically connected graphing and calculation objects.

TI InterActive! enables middle school, high school and college teachers and students to easily investigate mathematics and science ideas. Teachers can enhance students' learning through interactive lessons that encourage exploration, visualization, data analysis and writing. Students can use TI InterActive! to help them master math and science concepts, improve problem solving skills, create great-looking homework, access and download teacher-prepared materials from the Internet and more.

#### Goals and Objectives

1. Participants will be able to recognize and use the many components of the software application.
2. Participants will be able to use the software to solve application problems involving the graphs of various functions.
3. Participants will generate lesson plans that implement the use of the software for the classroom.

Sponsored by a Mary Alice Wilson Grant, all current MATHWEST members are eligible to attend this workshop and earn professional development points. It is also open to any other interested mathematics and science teachers. A limit of twenty-five teachers can participate in the workshop. PDP's for this 10 hour workshop will be awarded through the Agawam Public Schools. For more information or to register, contact Scott Trahan at [SLTrahan@aol.com](mailto:SLTrahan@aol.com).

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#### *AP Calculus Problems on CD Rom*

Would you like a *free* copy of a CD containing pc word processing files of all the released AP multiple choice questions for the Calculus AB and BC exams? It's perfect for cutting and pasting problems together. If so, contact Scott at [SLTrahan@aol.com](mailto:SLTrahan@aol.com).

GO VISIT OUR WEB SITE  
[www.wgby.org/edu/mathlink](http://www.wgby.org/edu/mathlink)

## DATES TO REMEMBER

### FEBRUARY

12th ~ AP Calculus Get-Together, 4PM  
Bertucci's Pizzeria, West Springfield

### MARCH

7th ~ General Membership Meeting, 4 PM  
Holiday Inn, Holyoke  
Topic: Geometry  
12th ~ AP Calculus Get-Together, 4PM  
Bertucci's Pizzeria, West Springfield  
19th ~ TI Interactive! Workshop (5 sessions)  
Agawam High School, Agawam

### APRIL

9th ~ AP Calculus Get-Together, 4PM  
Bertucci's Pizzeria, West Springfield  
21st ~ NCTM Annual Meeting  
Las Vegas, Nevada

### JULY

7th ~ NCTM Academy: Geometry: PK-2  
Springfield, Massachusetts

### OCTOBER

TBA ~ General Membership Meeting, 4 PM  
A Location In The Berkshires

### NOVEMBER

14th ~ NCTM Regional Conference  
Boston, Massachusetts

**Come to NCTM 's 80th Annual Meeting**  
Las Vegas, Nevada      April 21 - 24, 2002

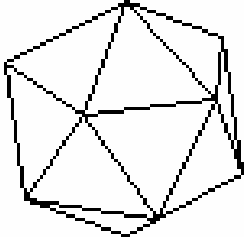
## Realizing the Vision of School Mathematics

Hosted by Nevada Mathematics Council

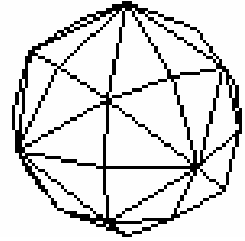
- More than 1000 sessions for professional development
- More than 200 exhibitors of math products and resources
- The latest NCTM publications and products
- Networking, sharing ideas and more!

**Make your reservations now!**  
For more information, visit [www.nctm.org](http://www.nctm.org)

# MATHWEST GENERAL MEMBERSHIP MEETING



**THURSDAY, MARCH 7, 2002  
HOLIDAY INN ~ HOLYOKE  
PROGRAM STARTS AT 3:30 PM**



The topic for this meeting will be **Geometry**. Through the study of geometry, students learn geometric shapes and structures and how to analyze their characteristics and relationships. Spatial visualization—building and manipulating mental representations of two- and three-dimensional objects and perceiving an object from different perspectives— is an important aspect of geometric thinking. Geometry is a natural place for the development of students’ reasoning and justification skills, culminating in work with proof in the secondary grades. Geometric modeling and spatial reasoning offer ways to interpret and describe physical environments and can be important tools in problem solving. Our speakers this evening will try to address this in their presentations.

**Marnie Henneman** has volunteered to discuss this issue at the elementary level. She will present selected topics in geometry with some hands-on activities. Some of the topics will include patterns, attributes, and tessellations, within applications such as quilting, weaving, and flag making. She promises to also provide you with related literature links where possible.

Meanwhile, the high school presentation will be a hands-on presentation on origami. We will learn to build polyhedra and apply these hands-on activities to the classroom.

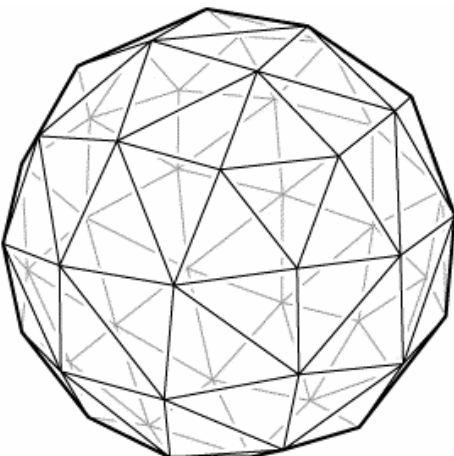
The dinner speaker is **Char Morrow**, who will present, “Using Graphs to Color Origami Polyhedra”. Graph theory has many interesting and important applications to such things as communication networks, work assignments, scheduling, and coloring problems. It is this latter item, coloring problems that she will focus on in this presentation. In graph theory there are coloring problems that concern the nodes, edges, or regions of a graph. It is particularly the node (or vertex) and edge coloring that we will look at here. In particular she will show some ways that the graphs or three-dimensional polyhedra, which are planar graphs, can be used to explore coloring problems with origami polyhedral structures.

SCHEDULE OF EVENTS	
<b>3:30 PM</b>	<b>Welcome</b>
<b>4:00 PM</b>	<b>K-6 Speaker: Marnie Henneman</b>
<b>5:00 PM</b>	<b>7-12: Hands-On Workshop</b>
<b>6:00 PM</b>	<b>Chicken Dinner with Dessert</b>
	<b>Keynote: Char Morrow</b>

**Directions:** The Holiday Inn Holyoke is directly off I-91 at the Ingleside Exit.

**Registration:** Registration deadline is March 1, 2002.

Send your check for \$10 per person (includes dinner) with the registration form below to:  
MATHWEST, PO Box 784, Easthampton, MA 01027



Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Telephone: \_\_\_\_\_ Email: \_\_\_\_\_

Which workshop will you be attending?

Grades K—6

Grades 7—12

*You're Cordially Invited to the  
AP Calculus Get-Togethers  
One Tuesday a Month*

MATHWEST continues to sponsor the AP Calculus get-together held once a month at Bertucci's Restaurant in West Springfield. Over the last few months over 12 different teachers representing various school systems in Western Massachusetts have come together to discuss topics of interest to teachers of AP Calculus. This allows teachers new to the AP program an opportunity to discuss topics and concerns with veteran teachers, and share resources and materials. It's also great for teachers who think they may want to teach calculus in the future.

Besides the free food and drink, participants have benefited from these sessions. In the last few meetings, teachers have pooled together to purchase resources at bulk prices, gave opinions on various textbooks, shared midterm exams, and received copies of AP Calculus questions in print and CD form from all released exams.

If you are interested in joining the group, please contact, Ellen Follett at [follett@wsps.org](mailto:follett@wsps.org) or Scott Trahan at [SLTrahan@aol.com](mailto:SLTrahan@aol.com).

*NCTM Academy to Come  
to Springfield, Massachusetts*

The NCTM Academy for Professional Development offers mathematics educators a series of two- and five-day intensive and informative educational events designed to provide you with the resources and professional development opportunities you need in order to guide your students toward a successful and rewarding experience with mathematics.

Each Institute is based on a specific grade band. This year, ATMNE will sponsor a 5-day Geometry Institute for grades PK-2. The institute will be held on July 7 - 12, 2002 at the Springfield Sheraton at Monarch Place. Registration can be made through NCTM. The deadline is June 14th. For more information, go to the NCTM website, [www.nctm.org](http://www.nctm.org).

**AP RESOURCE MATERIALS AVAILABLE**

The AP Calculus group has ordered copies of "Preparing for the (AB) AP Calculus Examination" by George Best and its corresponding solution key. It contains five complete simulated AP Exams. If you are interested in a copy, contact [SLTrahan@aol.com](mailto:SLTrahan@aol.com). Cost is \$28. A limited number of copies are available.

# **Boston 2002: Reaching New Heights in the Teaching and Learning of Mathematics**



## **NCTM Regional Conference**

**Boston, Massachusetts  
November 14-16, 2002**

The success of the 2002 Regional Conference in Boston depends on committed volunteers. Several committees have been established to handle various aspects of the conference. **Volunteers who are not NCTM members can register for the conference at member rates.** Please strongly consider volunteering to serve on one of the conference committees. If you are interested in volunteering, please email Gayle Town at [gtown@winchester.k12.ma.us](mailto:gtown@winchester.k12.ma.us) with your name, telephone number, grade level, school name and address, and the committee on which you would like to serve.

# **Another Revolutionary Event in Boston!**



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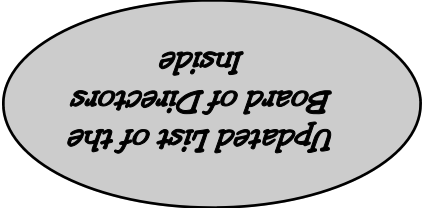
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## GENERAL CALL FOR ARTICLES

The ATMNE is looking for articles to be submitted for publication in their journal. Information about submissions can be found in each issue. Remember, "publishing" earns PDP's and can also be part of a portfolio for those applying for National Certification.

Teachers are doing really interesting things in their classrooms and others would like to hear about what is happening in schools in our region.

## COMMITTEES



**P.O. Box 784  
Easthampton, MA 01027**

**MATHWEST MEMBERSHIP APPLICATION FORM**  
*Mail to: MATHWEST, P.O. Box 784, Easthampton, MA 01027*

- Membership Category:
- \_\_\_\_\_ 1 Year Regular (\$15)
  - \_\_\_\_\_ 1 Year Full-Time Student (\$5)
  - \_\_\_\_\_ 1 Year Full-Time Retired (\$10)
  - \_\_\_\_\_ 3 Year Regular (\$40)

- Area of Professional Interest:
- \_\_\_\_\_ Elementary
  - \_\_\_\_\_ Middle School
  - \_\_\_\_\_ Secondary
  - \_\_\_\_\_ College

**Amount Enclosed** \$ \_\_\_\_\_

*Promote MATHWEST to your elementary colleagues.  
Elementary teachers can get a free membership till  
September 2002!*

NAME \_\_\_\_\_

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE \_\_\_\_\_ EMAIL \_\_\_\_\_

Are you a member of NCTM?  YES  NO

A member of another NCTM affiliate?  YES  NO If yes, which one? \_\_\_\_\_