

# Mathematics Educators of Greater St. Louis

An Affiliate of the National Council of Teachers of Mathematics

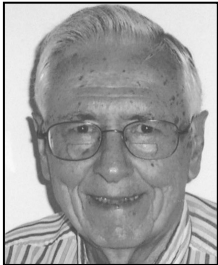


April 2011

## MEGSL President

**Tom Yager**

[jbstex@sbcglobal.net](mailto:jbstex@sbcglobal.net)



I hope that you are having a productive school year. Spring is here...really, and we'll soon be wrapping up another school year. I look forward to seeing many of you at the MEGSL Luncheon on May 7. Please send in your reservation (page 3) today.

All current members are urged to renew their membership for an exciting 2011 – 2012. If you are not now a member, please join us for the coming school year. The Make-over meetings have provided us with some wonderful ideas and new directions. MEGSL like many organizations continues to re-purpose itself to meet your needs.

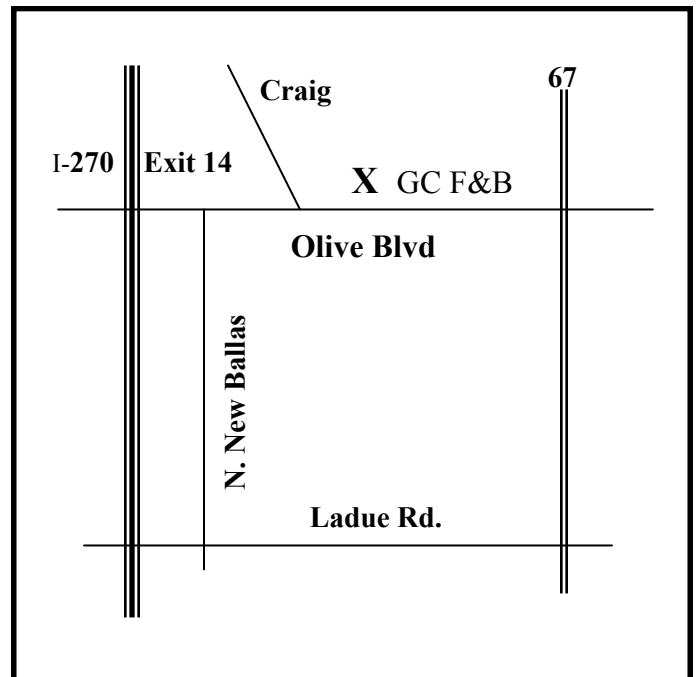
There are many deserving of our gratitude: Brian Bozek—Middle School Math Contest; Pat Kennedy—Pi Celebration at SLSC; Nancy English—Scholarships; Mary Lee Vivian—Teacher of the Year Awards; and Tony Fressola—hosting the Executive Board meetings at Villa Duchesne High.

Mark your calendars for October 26-28, and plan for a valuable professional experience at the NCTM Regional right here in St. Louis.

Finally, candidates for Executive Board positions are listed on page 8 of this newsletter. Members will receive a ballot in the mail in a few days. **Please vote** and return your ballot to me no later than May 1.

**MEGSL Spring Luncheon**  
**Saturday, May 7**  
**11:00**

at **GC Food & Brewery**  
West Oaks Shopping Center  
11411 Olive Blvd.  
Creve Coeur, MO 63141  
314-432-3535  
[www.gcfb.net](http://www.gcfb.net)



The **GC Food & Brewery** is located one mile east of I-270 on Olive Blvd. in the West Oaks Shopping Center (**look for the big Dierberg's sign**).

## Ideas for Success

You are invited to share your teaching successes...by submitting an article to the *St. Louis Confluence*, MEGSL's annual journal.

The MEGSL Journal Committee is seeking a variety of articles for the 2011 edition of the *Confluence*. Articles are needed for all levels: elementary, middle school, high school, and post-secondary.

Pedagogy strategies, effective uses of technology, motivational approaches, classroom managerial techniques, surprising teachable moments, and increasing retention using mnemonics are but a few of the topics the committee seeks.

You may email your article as a Word attachment to Gene Potter at [pottergene@msn.com](mailto:pottergene@msn.com). Submissions should be received by July 31.

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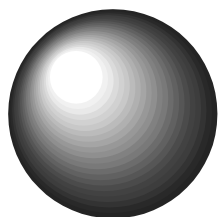
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## Two-Thirds

The surface area of a sphere of radius  $r$  is equal to the lateral surface area of a cylinder circumscribing the sphere with radius  $r$  and height  $2r$ .

The surface area of a sphere is  $2/3$  of the *total* surface area of its circumscribing cylinder.



The *lateral* surface of the circumscribing cylinder =  $(2\pi r)(2r) = 4\pi r^2$  = the surface area of the sphere.

Height =  $2r$

Length =  $2\pi r$

Also, the volume of a sphere is  $2/3$  of the volume of its circumscribing cylinder.

Archimedes, circa 250 BC

## An All-star Line Up

Robert Reys, [ReysR@missouri.edu](mailto:ReysR@missouri.edu)

### **A**n NCTM Regional Meeting will be held October 26-28 at the downtown Convention Center in St. Louis.

The meeting has an all-star line up of presenters, including classroom teachers and mathematics educators from Missouri and throughout the United States. The current NCTM President Mike Shaughnessy, NCTM President-Elect Linda Gojak, and former NCTM Presidents, including Gail Burrill, Skip Fennell, Hank Kepner, Glenda Lappan, and Johnny Lott will make presentations. Other featured speakers, include Rita Barger, Larry Campbell, Nancy English, Terry Goodman, Barbara Reys, Dale Seymour, and Helene Sherman. There will be nearly 300 sessions targeted for K-16 mathematics teachers and exhibitors from throughout the US. More than 3000 mathematics teachers are expected to attend—and we hope you are among them. If you have any questions, contact Robert Reys, Program Chair, at the email address above.

*A special reception will be held for MU Mathematics Education Alumni on Thursday evening.* If you are planning to attend this NCTM meeting, please contact Robert Reys for specific information about the time/location of the reception.

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## Volunteers are Needed for the St. Louis NCTM Regional October 26-28, 2011

Volunteer online at [www.nctm.org/conferences/forms.aspx?ekfrm=26368](http://www.nctm.org/conferences/forms.aspx?ekfrm=26368).

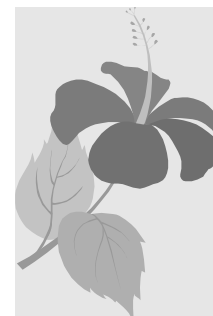
**MATHEMATICS EDUCATORS OF GREATER ST LOUIS  
SPRING LUNCHEON**

You and your guests are invited to attend a luncheon on Saturday, May 7th, hosted by MEGSL, to honor our Mathematics Teachers-of-the-Year, to present our 2011 scholarships to both high school and university awardees, and to show our respect for the dedication and service of those mathematics teachers who are retiring. Our newly elected officers of MEGSL will also be introduced during the luncheon.

Please join your fellow mathematics educators for an afternoon of socializing, honoring and recognizing our many recipients and awardees.

Non-alcoholic beverages will be served as part of the luncheon. Alcoholic beverages may be purchased separately.

**Date: Saturday, May 7, 2011**  
**Time: 11 am – 2 pm**  
**Place: Granite City Food and Brewery**  
**11411 Olive Blvd**  
**Creve Coeur, MO 63141**



**Deadline for reservations: Wednesday, April 20, 2011**

If you have any questions, please contact Pat Kennedy ([patriciakennedy831@yahoo.net](mailto:patriciakennedy831@yahoo.net)).

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Return this section

I plan to attend the MEGSL Spring Luncheon on Saturday, May 7, 2011. Enclosed is payment by check, payable to MEGSL.

Name(s) \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_

Email \_\_\_\_\_

Number attending \_\_\_\_\_

Amount enclosed \$18 per person \_\_\_\_\_

Please return this completed portion with your check to:

Pat Kennedy  
MEGSL Treasurer  
1528 Brenthaven Lane  
Florissant, MO 63031-2417

## Ultimate Tutor

Igor Konfisakhar, Igor@ultimatetutor.net

I am about to begin teaching a private (not-for-credit and not affiliated with MO ARML) comprehensive class in high-school-level math competitions.

This is a class intended to give students a strong foundation in contest problem-solving techniques and to maximize students' scores in contests such as the AMC/AIME, GPML, and ARML.

The following web site gives a detailed description of my plans for the class as well as my experience coaching students for math competitions:

<http://ultimatetutor.net/st-louis-math-competitions>

If you are interested, please feel free to e-mail or call me (314-200-5857) at any time with questions! Thank you for your interest, and I look forward to helping you to take your math contest performance to the next level!

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### Pi Day at the St. Louis Science Center

Debbie Char, DChar@stlcc.edu

Pi was the star of the day at the St. Louis Science Center March 11-14, and 19-20, as children of all ages lined a circle with M&M's, fitted piper cleaners around a pan, guessed the number of cheese balls in a barrel, compared pizza deals, estimated how many Earths would fit inside the Sun, walked the circumference and diameter of circles on the floor, colored headbands, and proudly donned stickers to wish the world a Happy Pi Day. Thanks to all the MEGSL volunteers who helped to create a wonderful learning experience. Please consider joining us for the 2012 Pi Celebration at the St. Louis Science Center, and you might overhear comments like these:

"I saw the Diameter downstairs. He was a T-rex and he ROARED at me!" -- a 3-year-old girl

"Is that a NO SCHOOL holiday??" -- a 6-year-old boy

"I feel like I'm on Minute-to-Win-it!"

-- a 10-year-old boy

"I LOVE Math!" -- many of the children

"So THAT'S what Pi is!" -- many of the parents

Our thanks go out to the following volunteers: Pat Kennedy, Gene Potter, Chip Day, Becky Schantz and Debbie Char. A special thanks is given to Sarah Schoenlaub, SLSC Gallery Leader, and Dwight Curry for their direction and energy in organizing the activities and training. Our extended "thank you" also goes to **Pi Pizzeria** for their generous support of the Pi Moment at 1:59 each day.

#### Official U.S. Pi Day

U.S. House Resolution 224 passed in 2009  
designated March 14th as Pi Day.

#### Princeton's 2011 Pi Day Theme

"It's my party, and I'll Pi if I want to..."

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#### A Special Request

Dr. Eric Mann is seeking a full-time educational professional with a strong mathematics background and/or mathematics teaching certificate to act as an educational/physical aide during school hours (until 5:00 PM weekdays) for a bright, over-achieving eighth grader in public school who reads Shakespeare for fun and is taking pre-calculus, but who is unable to write or walk. Job responsibilities would include active participation in the students general curriculum and extracurricular activities during weekdays. For a twelve-month period of service, a salary of \$45,000, or more, based on experience, is being offered. Applications should include a summary of academic and professional achievements. One may contact Dr. Mann at manne4@earthlink.net or 314-517-6546.



# Who Will Teach the Next Generation?

*Recruiting Science and Mathematics Career  
Changers into Teaching*

*Marilyn Soucie, SoucieMa@missouri.edu*

Missouri is experiencing a shortage of science and mathematics teachers. The University of Missouri (MU) Science and Mathematics Academy for the Recruitment and Retention of Teachers (SMAR<sup>2</sup>T) recruits and prepares individuals who hold a baccalaureate degree in science, mathematics, or a related field (e.g., accounting, computer science, engineering, environmental science) to teach at the middle and/or secondary levels. SMAR<sup>2</sup>T provides two tracks: a 15-month program for full time post-baccalaureate students preparing to become teachers and a 24-month program for individuals who teach full time while they complete the program. \$10,000 Noyce Stipends, tuition waivers and other financial assistance is available.

Do you know someone who has an undergraduate degree in science or mathematics and would like to teach? Encourage them to learn more about SMAR<sup>2</sup>T at [www.smar2t.missouri.edu](http://www.smar2t.missouri.edu), where they can find information on entrance requirements, financial support, programs of study, and application materials.

**Application Deadline for the next SMAR<sup>2</sup>T cohort has been extended to May 1, 2011.**

## Dual-degree Program for Mathematics/Mathematics Education

Do you know a high school student interested in mathematics and mathematics education?

The University of Missouri now offers mathematics-related majors the opportunity to earn a dual degree in mathematics and mathematics education! Paid summer internships and \$10,000 annual Noyce Scholarships are available to those enrolled in the dual degree program. For more information see the website, <http://tdm2.missouri.edu>.

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# CALENDAR of EVENTS

**April 1 – Nominees for Mathematics Teacher of the Year Due...** Contact Mary Lee Vivian, [mvivian@pkwy.k12.mo.us](mailto:mvivian@pkwy.k12.mo.us)

**April 13-16 – NCTM Annual Meeting,**  
Indianapolis, IN [www.nctm.org](http://www.nctm.org)

**April 20 – Deadline for Luncheon Reservations**

**April 21 – MEGSL Executive Board Meeting**  
Villa Duchesne High School, 4:00-5:30

**May 1 – Deadline for Election Ballots**

**May 7 (Sat.) – Spring Luncheon**  
PLACE: GC FOOD & BREWERY  
TIME: 11:00  
Recognition of our Teachers of the Year, Scholarships Recipients, and Retirees

**October 26-28 — NCTM Regional  
in ST. LOUIS**

**Subscribe to NCTM Conference Updates at:  
[www.nctm.org/conferences/subscribe.aspx](http://www.nctm.org/conferences/subscribe.aspx)**

**..... 2012 .....**

**April 25-28 — NCTM Annual Meeting,**  
Philadelphia, PA [www.nctm.org](http://www.nctm.org)

**Follow NCTM on Facebook  
[www.facebook.com/  
TeachersofMathematics](http://www.facebook.com/TeachersofMathematics)**

**Deadline for News Items  
August 22, 2011  
Email to: [pottergene@msn.com](mailto:pottergene@msn.com)**  
**Release Date for the Next Issue  
August 29, 2011**

# Mathematics Educators of Greater St. Louis

## MEMBERSHIP APPLICATION

Membership Status: New \_\_\_\_\_ Renewal \_\_\_\_\_ Reinstate \_\_\_\_\_

\_\_\_\_\_ Current members: If there has been any change in your email address, home address, phone number, or name, please indicate those changes on this form and return. Or you may email Pat Kennedy, Membership Chair, patrickennedy831@yahoo.com, with the changes.

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip+4 \_\_\_\_\_

Phone: H:(\_\_\_\_\_) \_\_\_\_\_ W:(\_\_\_\_\_) \_\_\_\_\_

Email: H: \_\_\_\_\_ W: \_\_\_\_\_

District \_\_\_\_\_ School \_\_\_\_\_

\_\_\_\_\_ Please indicate if you do NOT wish to be listed in the Directory. The Directory contains a member's name, mailing address, email address, phone number and school.

Educator: \$12/year	\$12 x ____ yrs = _____
Educator: First-time Member (1 <sup>st</sup> year of membership)	<u>FREE</u>
Last-Yr College Student (graduation date: _____)	<u>FREE</u>
College Student	\$5 x _____ yrs = _____
Scholarship Fund (tax deductible).....	_____
	<b>TOTAL = _____</b>

**Mail this application and your check payable to MEGSL to:**

Pat Kennedy  
 Membership Chair  
 1528 Brenthaven Lane  
 Florissant, MO 63031-2417



***“Coming together is a beginning.  
 Keeping together is progress.  
 Working together is success.”***

Source: Unknown  
 From ICTM's ListServ—*Sayings XXXV*

# Results 33<sup>th</sup> Annual Junior High Excellence in Mathematics Contest Saturday March 19, 2011

Brian Bozek, bbozek@stlcc.edu

TEAM AWARDS			
6th Grade Division I		6th Grade Division II	
<b>1 CHEF</b>		<b>1 Ladue Middle</b>	
Joshua Walker	Caroline Griesbauer	Jeffery Wang	Hans Chan
Deborah Walker	Caroline Zupan	Alex Tan	Patrick Hwang
<b>2 Green Park Lutheran</b>		<b>2 Lincoln Middle</b>	
<b>3 St. Charles Borromeo</b>		<b>3 Liberty Middle</b>	
<b>4 Immaculate Conception Dardenne</b>		<b>4 Parkway West Middle</b>	
<b>5 Antonia Middle School</b>		<b>5 Selvidge</b>	

INDIVIDUAL AWARDS			
6th Grade Division I		6th Grade Division II	
<b>1 Joshua Walker</b>	CHEF	<b>1 Patrick Hwang</b>	Ladue
<b>2 Alexander Kane</b>	Green Park Lutheran	<b>2 Jeffery Wang</b>	Ladue
<b>3 Caroline Griesbauer</b>	CHEF	<b>3 Hans Chan</b>	Ladue
<b>4 Ashley Harnes</b>	Green Park Lutheran	<b>4 Alex Tan (Tie)</b>	Ladue
<b>5 Deborah Walker</b>	CHEF	<b>4 Ahena Zeng (Tie)</b>	Crestview

7th Grade Division I		7th Grade Division II	
<b>1 St. Charles Borromeo</b>		<b>1 Parkway West Middle</b>	
Karie Schmitz	Alex Warhover	Stephen Zhang	Mark Umstead
Reed Sahadevan	Shane Pitman	Ruthie Jia	Crystal Luo
<b>2 Green Park Lutheran</b>		<b>2 Parkway Central Middle</b>	
<b>3 St. Patrick</b>		<b>3 Lincoln Middle</b>	
<b>4 Immaculate Conception Dardenne</b>		<b>4 Liberty Middle</b>	
<b>5 Our Lady Queen of Peace-Belleville</b>		<b>5 Northwest Valley</b>	

7th Grade Division I		7th Grade Division II	
<b>1 Karie Schmitz</b>	St. Charles Borromeo	<b>1 Spencer Chen</b>	Ladue
<b>2 Alex Warhover</b>	St. Charles Borromeo	<b>2 Shu Han</b>	Crestview
<b>3 Austin Diehl</b>	CHEF	<b>3 Isagani Perez</b>	Parkway Central
<b>4 Sophia Mauro</b>	The Barstow School	<b>4 Matthew Morse</b>	Lincoln
<b>5 Teresa Becker</b>	CHEF	<b>5 Ashley Fillback</b>	Liberty

TEAM AWARDS			
8th Grade Division I		8th Grade Division II	
<b>1 McKinley Classical Leadership Academy</b>		<b>1 Ladue Middle</b>	
Sanjay Cherupalla	Brennan Dizdar	Yang Liu	Brian Jiang
Lucy Vigil	Emil Beckford	Linhan Chen	Iris Yang
<b>2 Green Park Lutheran</b>		<b>2 Selvidge Middle</b>	
<b>3 CHEF</b>		<b>3 Parkway Central Middle</b>	
<b>4 St. Catherine Lavoure</b>		<b>4 Parkway West Middle</b>	
<b>5 Our Lady Queen of Peace-Belleville</b>		<b>5 Liberty Middle</b>	

8th Grade Division I		8th Grade Division II	
<b>1 Luke Walker</b>	CHEF	<b>1 Yang Lui</b>	Ladue Middle
<b>2 Sanjay Cherupalla</b>	McKinley Classical	<b>2 Cheng-Han Kee</b>	Parkway West
<b>3 Brennan Dizdar</b>	McKinley Classical	<b>3 Brian Jiang</b>	Ladue Middle
<b>4 Logan Smith</b>	Antonia Middle	<b>4 Linhan Chen</b>	Ladue Middle
<b>5 Ryan Horn</b>	Green Park Lutheran	<b>5 Stephen He</b>	Parkway Central

We are grateful to everyone who contributed to the success of the 30<sup>th</sup> Annual Junior High Excellence in Mathematics Contest sponsored by Mathematics Educators of Greater St. Louis and St. Louis Community College at Florissant Valley. The smooth running of the event is a direct result of the generous efforts of the many volunteers and the cooperation of the teachers and students.

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Gene Potter  
2 St. Dymphna Ct.  
O'Fallon, MO 63366-2171

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### **Election of Officers for 2011**

The MEGSL Constitution and Bylaws require that a ballot be mailed to all members regarding the election of officers for next school year.

There is only one candidate running for the each of the offices — President, President-elect and Secretary. Bob Coulter is the nominee for President; Diane Relleke, the nominee for President-elect and Judy Leonard, the nominee for Secretary. Write-ins are welcomed.

Members will receive information on the candidates and a ballot in a few weeks. Ballots should be returned to Tom Yager no later than May 1.



### **St. Louis Public Schools Math Contest**

Nathaniel Lischwe, [nlischwe@gmail.com](mailto:nlischwe@gmail.com)

High school mathematics students from the Saint Louis Public Schools will be competing in the district's annual mathematics competition on Saturday, April 2 at the Clyde C. Miller Academy. The competition will be proctored by mathematics teachers from throughout the district. This year's contest director is Kathleen Taggart who can be reached at [Kathleen-Taggart@slps.org](mailto:Kathleen-Taggart@slps.org).

*If you would like to receive a copy of this Newsletter by e-mail to share with your fellow colleagues, please notify Gene Potter, [pottergene@msn.com](mailto:pottergene@msn.com).*