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**Thank you for attending the MEGSL
2017 Fall Conference.**



FALL CONFERENCE

2017

"Everything is a math Problem!"

OCTOBER 6 - 7, 2017

Hazelwood West Middle School

12834 Missouri Bottom Road

Hazelwood, MO 63042

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Saturday, OCTOBER 7, 2017

12:30 — 1:20 P.M.

50 Minute Sessions

Lunch, Keynote, and Yager Award Presentation

Jerry Becker – “A Math Cursed Life” **Gym**

Teaching Mathematics in the School Classroom Doesn’t Have
to be a Math Problem: One Perspective

1:30 — 2:20 P.M.

50 Minute Sessions

Grade Band Round Tables

Elementary Round Table

Cheryl Lubinski

Room:
Grades K-5

Middle School Round Table

TBA

Room:
Grades 6-8

High School Round Table

Anthony Fressola

Room:
Grades 9-12

Higher Education Round Table

Al Otto

Room:
High Ed

What Should We Do With Algebra 2?

Lane Walker

Room:
Grades 9-12

MEGSL 2017 FALL CONFERENCE

PROFESSIONAL DEVELOPMENT VERIFICATION

Time

Presentation Title

Signature

MEGSL Scholarships!

The Mathematics Educators of Greater St. Louis (MEGSL) is offering two \$1000 scholarships for high school and college students interested in careers in mathematics education.

Download the high school or college application form at MEGSL.org and nominate that outstanding student who could use \$1,000 to pay for his or her education next year.

Applications are due by April 1, each school year.

MATH CONTEST

MEGSL sponsors one math contests per year.

Middle School (grades 6-9): Saturday, March 17, 2018

St. Louis Community College at Florissant Valley
Register by January 15, 2018 at

<http://www.moctm.org/MiddleSchoolContest.aspx>
or contact Kelley Garbero.



Middle School Contest Director
Selvidge Middle School
235 New Ballwin Road
Ballwin, MO 63021

Or Call: 314-602-2277 or Email: garberokelley@rsdmo.org

Saturday, OCTOBER 7, 2017

11:30 — 12:20 P.M.

50 Minute Sessions

The Unintended Consequences from “Completion Grading” and How To Avoid Them

Lane Walker

Room:
All Levels

Algebra 2 has been identified as the most likely class to fail and the new Missouri Standards don't tell the whole story. Understand the intent in shifts within the big picture affecting ACT, SAT, AP and other nationally named assessments.

Equations: The Game of Creative Mathematics

Bob Coulter

Room:
Grades 3-8

Learn how to play Equations, a game played with 20 cubes, each of which has a digit or an operation. Each player takes turns trying to build an Equation that meets the goal, but this has to take account all of the plays other players make. Each turn changes the game, rewarding creative mathematical rejiggering, Play in your class, and perhaps enter your students in a pair of regional competitions held each year, open to students in grades 3-8.

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Welcome!

Friday, October 6, 2017

4:00 - 5:30 pm	Registration & Refreshments
5:00 - 5:30 pm	Conference Introduction & Keynote Address
5:30 - 7:20 pm	Breakout Sessions
7:30 - 8:30 pm	Dinner and Speaker

Saturday, October 7, 2017

7:30 - 8:30 am	Registration & Breakfast
8:30 - 12:20	Breakout Sessions
12:30 - 1:20	Lunch, Keynote, & Tom Yager Award
1:30 - 2:20	Workshops

Keynote Address:
Do to unforeseen circumstances, Claren Einfeldt will not be able to speak at the conference. Jerry Becker will be taking her place and leading a scintillating address regarding a “Math Curse Life.”

Saturday, OCTOBER 7, 2017
10:30 — 11:20 A.M. (continued)
50 Minute Sessions

Build a Mathematical Culture Through Games and Puzzles

Bob Coulter

Room:
Grades 3-8

Come explore a wide range of games and puzzles that enrich the mathematical culture of your classroom. These can be supplementary resources in class or home assignments. Either way, they feed great mathematical thinking, and seed deep discussion among students (and sometimes parents!)

Saturday, OCTOBER 7, 2017
11:30 — 12:20 A.M. 50 Minute Sessions

Counting Collections

Denise Brown

Room:
Grades K-5

How to implement and use counting collections in the primary classroom to build numeracy skills.

The Christmas Problem – Taking It to the Limit

Jerry P. Becker

Room:
Grades 6-12

There are many ways to find the answer, and after finding the answer, mathematics begins ... (1) some ways are more mathematically rich than other; (2) there are patterns to observe and to think from; (3) there is a general rule that comes into play if the "Christmas Tree" is continued downwards, keeping the triangular shape; (4) it can be "taken to the limit," giving a result not expected by students; (5) the problem is related to the Sierpinski Triangle.



2018 NCTM Annual Meeting & Exposition
Washington, D.C. • April 25–28, 2018

2017 NCTM Regional Conferences Conference Dates

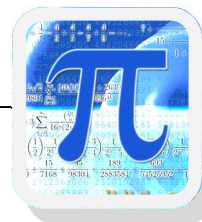
Orlando, Florida • October 18 – 20,

Chicago, Illinois • November 29 – December 1

2017 INNOV8 Conference Dates

Las Vegas, Nevada • November 15 – 17

www.nctm.org



Pi Day, March 14

Since 2002, the St. Louis Science Center (SLSC) and MEGSL have worked together to celebrate pi. The 2018 Pi Celebration will be held on Saturday, March 10 to Sunday the 11, and March 14 (PI DAY). There will be a variety of activities for students in grades elementary through high school. Several activities and demonstrations have already been planned, but volunteers are still needed for the various stations. Enjoy time with your MEGSL colleagues spreading the joy of Pi to the St. Louis community at the Science Center. Those willing to volunteer for a few hours may contact Gene Potter, pottergene@msn.com with subject line "Pi."



Teacher of the Year Award

One of the goals of the Mathematics Educators of Greater St. Louis is to recognize excellence in mathematics teaching. To meet this goal, Teacher-of-the-Year Awards are given each spring in four categories: K–5 (Elementary), 6–8 (Middle), 9–12 (Secondary), and Post-Secondary.

Do you have a colleague who is a deserving candidate?

Download a MEGSL Teacher-of-the-Year Award nomination form at MEGSL.org. Nominations are due by **April 1 each school year**.

Missouri Council of Teachers of Mathematics

Fall Conference: Columbia, Missouri, December 1 – 2, 2017



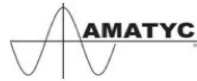
“SUM Mathematics for Everyone!”

<http://www.moctm.org>

American Mathematical Association of Two-Year Colleges

San Diego, California, November 9 – 12, 2017

“Opening Doors Through Mathematics: Have a Prime Time!”



<http://www.amatyc.org>



Fontbonne University Griffin-Hack

Fontbonne University

Saturday, February 24, 2018

www.fontbonne.edu/news/high-schoolers-assist-st-louis-food-pantry-griffinhack-2017/

Saturday, OCTOBER 7, 2017

10:30 — 11:20 A.M.

50 Minute Sessions

Speed lim

Anthony Fressola

x → 25

Room:

Grades 9-12

A drivers sets out on a 200 mile trip. When he has gotten half way to his destination, he finds that he has averaged 25 mph. How fast does the driver need to travel the rest of the way in order to make his overall average speed 50 mph? (Hint: The answer is *not* 75 mph!)

The problem is simple enough for Algebra 1 students to investigate, while fixing the overall average speed and looking at the relationship between the average speeds of each half of the trip produces a rational function appropriate for Algebra 2 students to explore. Precalculus and calculus students can analyze the problem even deeper through the introduction of a limit. By looking at the problem mathematically students at all levels can make sense of a result that, at first glance, seems unintuitive and quite surprising.

Finding Support Through a Personal Learning Network on Twitter

Lane Walker

Room:

All Levels

Participants will gain ideas for building a personal learning network on Twitter. Learn who to follow, how to find resources, how to ask questions and where to find discussions.

Teach Numbers Before Numerals To Avoid a Math Curse

Cheryl Lubinski

Room:

Grades K-5

I will present student work on fraction, place value, and reasoning. We will discuss how to encourage understanding and not memorization.

Notes:

TOM YAGER AWARD

This award, established in 2012, is given to a MEGSL member who has devoted many years of his/her professional service to the promotion of mathematics education and in addition has provided many years to service to the MEGSL organization.



This year's award is presented posthumously to Carol Abe Edwards (1938-2017), Professor Emerita of Mathematics and retired Associate Dean of Mathematics, Engineering, and Technology, St. Louis Community College at Florissant Valley. Born and raised in Hilo, Hawaii, she attended U.C. Berkeley as an undergraduate and earned graduate degrees at the University of Illinois.

Carol is pictured above along with TODOS President, José Franco, and Casio's Greg Yurchuk, when she was awarded the prestigious Iris Carl Leadership and Equity Award from TODOS in 2011. TODOS, whose mission is to advocate for equity and high quality mathematics education for all students – in particular, Latina/o students, is an organization that was near and dear to her heart.

TODOS was not the only organization to which her career of outstanding service was devoted. She served as Program Chair for several NCTM Regional and National conferences, as well as serving NCSM (National Council of Supervisors of Mathematics) as Second and then First Vice President. NCSM awarded her its most prestigious award, the Ross Taylor/Glen Gilbert Leadership Award in 2012.

MEGSL was lucky to have Carol as one of its members. She served as President in 1982-83, College Director in 1988-90, and most importantly, was the person who in 1978, began the MEGSL Middle School Excellence in Mathematics Contest held annually at Florissant Valley Community College. Carol was honored as MEGSL's Teacher of the Year in 1985 and again in 1996. The math education world was certainly enhanced by Carol's tenure within it.

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Friday, OCTOBER 6, 2017
6:30 — 7:20 P.M.
50 Minute Sessions

Procedural and Conceptual Knowledge on Decimal Operations

Cheng-Yao Lin and Weichen Zhao

Room:
All Levels

This session will focus on procedural knowledge and conceptual knowledge on decimal operations. Presenters will compare procedural knowledge and conceptual knowledge on decimal operations. In addition, this session will discuss strengths and weakness of procedural and conceptual knowledge.

Math Problems With Unexpected Results

Al Otto

Room:
Grades 9-12

We will investigate problem situations that give unexpected results. We will solve problems that can be taken back to your student.

Equations: The Game of Creative Mathematics

Bob Coulter

Room:
Grades 3-8

Learn how to play Equations, a game played with 20 cubes, each of which has a digit or an operation. Each player takes turns trying to build an Equation that meets the goal, but this has to take account all of the plays other players make. Each turn changes the game, rewarding creative mathematical rejiggering, Play in your class, and perhaps enter your students in a pair of regional competitions held each year, open to students in grades 3-8.

