

# Points & Angles

Newsletter of the Metropolitan Mathematics Club of Chicago  
Volume XLVI No. 1 Sept 2016

## A Brief History of Math Education: Lessons For Today

### September Speaker

Matt Larson



**From I-90 & Southbound I-294:** Exit at I-190 West to O'Hare; Exit onto North Mannheim Rd.; Take Mannheim Rd. North 2.25 miles.

**From Northbound I-294:** Exit at West Touhy Ave.; Take Touhy Ave. to Mannheim Rd.; Turn right on Mannheim Rd.

**Public Transit:** Take the CTA Blue Line to the Rosemont Bus Terminal; Take Pace Bus #223 to Touhy Ave. & Lee Rd.; Walk East on Touhy to Mannheim Rd.

**Friday, Sept. 23, 2016**

5:30 PM Doors Open, 6:00 PM Social Hour  
7:00 PM Dinner & Talk

#### **Fountain Blue Banquets & Convention Center**

2300 Mannheim Rd., Des Plaines  
(847) 298-3636  
\$43 for Members, \$49 for Nonmembers

#### **Reserve by Noon, Monday Sept. 19**

Online at [www.mmccchicago.org](http://www.mmccchicago.org)  
or by phone at (847) - 486 - 4291

The issues and arguments concerning what and how to teach mathematics today are as old as the United States itself. If we are to make progress improving the mathematics learning of all students we must stop recycling the same old arguments and debates. This session will examine implications from the past for our work today as we try to improve the learning of all students and constructively engage parents and the public.

Matt Larson is president of the National Council of Teachers of Mathematics (NCTM), a 70,000-member international mathematics education organization. Previously, Larson was the K-12 curriculum specialist for mathematics in Lincoln (Nebraska) Public Schools for more than 20 years.

Larson began his career in education as a high school mathematics teacher and served as a member of the leadership team for the National Science Foundation Math and Science Partnership project: Math in the Middle, at the University of Nebraska-Lincoln. Larson's long history of service within NCTM includes chairing the Research Committee, serving for three years on the Board of Directors, serving for two years on the Executive Committee, and chairing the Budget and Finance Committee. He has contributed extensively to NCTM journals and books. His two-year term as NCTM president began in April at the conclusion of the 2016 NCTM Annual Meeting & Exposition in San Francisco.

Larson is a frequent speaker before mathematics education audiences, and he has authored or co-authored several books, including a series on professional learning communities and Common Core Mathematics. He is co-author of *Balancing the Equation: A Guide to School Mathematics for Educators and Parents*, and he was on the writing team of *Principles to Actions: Ensuring Mathematical Success for All* (NCTM, 2014). Larson has taught mathematics at the elementary through college level and has held an appointment as an honorary visiting associate professor at Teachers College, Columbia University. In 1994 he was recognized for his teaching accomplishments with a U.S. West Outstanding Teacher Award.

Matt Larson received his bachelor of arts from the University of Nebraska-Lincoln with a major in history and a minor in mathematics, and he earned a secondary mathematics certification. He also holds an M.Ed. and a Ph.D., both in curriculum and instruction, from the University of Nebraska-Lincoln.

# Points From The Interior

BY CARRIE FRAHER

Welcome to a new school year of MMC events! I'm honored to be the president of MMC this year. We have a great line-up of speakers scheduled and I hope that you'll come out to our dinner meetings. MMC offers great opportunities for professional development, networking, and fellowship with other teachers. Please see our calendar of events inside this newsletter and plan to attend.

To me, MMC is the best kind of social networking. I value the opportunity to connect with people from all over the world on Twitter and math blogs, but see a trend where teachers are seeking all of their professional development online. MMC and other organizations are a great place to connect with the folks that you interact with online. You will have deeper conversations during a dinner meeting and still have the ability to share ideas with many of our members in the Math Twitter Blogosphere. I'm interested in spotlighting a few of our members with who are active in MTBOS in upcoming issues of Points and Angles.

I'd like to thank all of our directors, officers, and all other members for their amazing dedication. They are a great group of people who are committed to Math Education. I appreciate the time they spend to bring us quality opportunities in the Chicago area. We are always looking for new people to get involved. If you are interested in becoming a more active member of this organization, please reach out to one of us.

Many of you are getting started in a new school year right now. I hope that it is filled with engaging, enjoyable mathematical experiences. We all face challenges and struggles during the school year. This year will usher in the SAT at high schools and involve more of us with student assessment linked to our teacher evaluations. We will work to bring you information that informs your teaching and planning. Your colleagues at MMC are a great resource when you're looking for ideas, encouragement and understanding.

On behalf of our entire organization, I hope to see you at many of our events this year. Get involved and let us know your ideas for the future!

# Affiliate Report

By JOHN McCONNELL

## **National Council of Teachers of Mathematics**

Regional Meetings for Fall 2016 will be in Phoenix, October 26-28, and Philadelphia, October 31-November 2.

The NCTM will have another of its working conferences on Engaging the Struggling Learner. The next 2016 Innov8 Conference is in St. Louis, November 16-18. School districts are encouraged to send teams of teachers who will develop methods for school and district implementation of Response to Intervention (RtI), efforts to support productive struggle, and ways of motivating the struggling learner. Teams will focus on developing techniques, programs, and policies that can be implemented in their home districts. <http://www.nctm.org/innov8/>

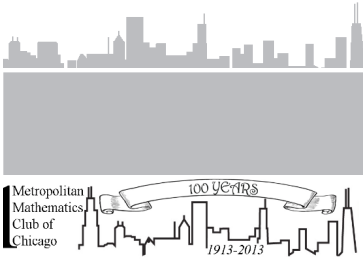
## **Illinois Council of Teachers of Mathematics**

The Annual Meeting will be held at the Peoria Civic Center, October 7 and 8, 2016. Registration forms (online or mail) can be located through a link at <http://www.ictm.org/annual-conference>. You can access the preliminary Conference Program Book and hotel information through the same link.

The Illinois Science Teachers Association will hold its annual meeting at the Peoria Civic Center simultaneously. An effort has been made to have some sessions linking mathematics, science, and STEM. In addition, ICTM registration offers access to the ISTA sessions as well as ICTM workshops and meetings. School districts sending five or more math and science teachers to the conferences can get a discount on registration fees.

## **Presidential Awardees Announced**

The White House has announced 2014 and 2015 Presidential Awardees for Excellence in Mathematics and Science Teaching. Congratulations go to Chicago area teachers: Cathrine Ditto from Burley Elementary School in Chicago (2014 award), and Lisa Nicks from Thornton Township High School in Harvey (2015 award).



**Officers**

- Carrie Fraher, President
- Matthew Moran, President-Elect
- Patricia Trafton, Past President
- Sheila Hardin, Board Chair
- Lynn Bond, Secretary
- Carol Nenne, Treasurer

**Directors**

- Lynn Bond (2015-2018)  
Plainfield Central H.S., Plainfield
- Tom Bond (2015-2018)  
Plainfield Central H.S., Plainfield
- Peter DeCraene (2014-2017)  
Evanston Township H.S. Evanston
- Carrie Fraher (2015-2018)  
Glenbrook South H.S., Glenview
- Sheila Hardin (2014-2017)  
Oak Park & River Forest H.S., Oak Park
- Jeff Harding (2016-2019)  
Mundelein H.S., Mundelein
- Laura Kaplan (2014-2017)  
Chicago Academy for the Arts, Chicago
- Karen Lopez (2016-2019)  
Larkin H. S., Elgin
- John McConnell (2014-2017)  
Glenbrook South H.S. (retired), Glenview
- Nicolette Norris (2016-2019)  
Chicago Vocational Academy, Chicago
- John O'Malley (2014-2017)  
Glenbrook South H.S., Glenview
- Nancy Powell (2015-2018)  
Illinois Math and Science Academy, Aurora
- Rose Sterr (2016-2019)  
Benet Academy, Lisle
- Patricia Trafton (2015-2018)  
Lincoln M.S., Schiller Park
- Mary Wiltjer (2016-2019)  
Glenbrook South H.S., Glenview

**Officials**

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Michelle Eggerding
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- Historian Paul Christmas
- Membership Coordinator Mary Wiltjer
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Jeff Harding
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- Publicity and Posters Paul Christmas
- Scholarship Chair Laura Kaplan
- Social Media Chair Laura Kaplan
- Webmaster Peter DeCraene

# The MMC Conference of Workshops is back in 2017!

## To repeat the excellence, WE NEED YOU TO PRESENT!!

The conference will be on Saturday, January 28<sup>th</sup> at Evanston Township High School.

- Workshop format: 75-minute sessions where participants are actively involved.
- Looking for speakers from all grades K – 14.
- New speakers are welcome.
- Co-presentations are encouraged.
- Various topics needed.
- Encourage other potential speakers to fill out the online speaker form.
- We'll have coffee, carbohydrates, and calculators. What else could a workshop need? You!!
- Have questions? Contact Mary or Carol at [mwiltjer@glenbrook225.org](mailto:mwiltjer@glenbrook225.org) or [cnenne@comcast.net](mailto:cnenne@comcast.net).
- Fill out the speaker form online at [www.mmcchicago.org](http://www.mmcchicago.org) between July 1<sup>st</sup> and September 30<sup>th</sup>.

**Turn in your proposal at [mmcchicago.org](http://mmcchicago.org) by September 30th!**

# MMC Board Report

BY LYNN BOND

The MMC Board of Directors met on May 18, 2016 at ECRA Group in Schaumburg. The members who participated in the service project in April contributed to a record month at the Greater Chicago Food Depository. The Speaker and Dinner meeting funds were zeroed out to start the new fiscal year and balances transferred to the Operating fund. MMC membership costs will increase slightly to \$35/one-year, \$65/two-years, \$90/three-years, \$22 for students and first-year teachers, and \$28 for retirees. The MMC Conference of Workshops will be held on January 28, 2017 at Evanston High School. Speakers are needed. and those interested can fill out their speaker form online.

The 2015-16 Board concluded, and the 2016-17 Board elected officers and appointed committee chairs. The MMC Scholarship amount was increased to \$2000. The slate for Directors for next year is under development. Contact Pat Trafton if interested.

The next Board meeting will be Wednesday, September 7, 2016 at 6:30 pm at ECRA Group in Schaumburg. MMC members are welcome to attend any board meeting. Please contact Pat Trafton at p.trafton@comcast.net if you plan to attend.

NAME		PREFERRED CONTACT Check one: <input type="checkbox"/> Home <input type="checkbox"/> Work	
HOME ADDRESS			
CITY	STATE	ZIP	
HOME PHONE	HOME E-MAIL		
EMPLOYER			
WORK ADDRESS			
CITY	STATE	ZIP	
WORK PHONE	WORK E-MAIL		
ELECTRONIC-ONLY MEMBERSHIP Check the box below for electronic-only membership. You will receive an email with a direct link to each issue of <i>Points &amp; Angles</i> when it is posted on the web site, often before paper copies are mailed. You will no longer receive <i>Points &amp; Angles</i> by mail.		MEMBERSHIP TYPE Check one:	
<input type="checkbox"/> Electronic-Only Membership		<input type="checkbox"/> 1 year (\$35) <input type="checkbox"/> student*, 1 yr (\$22)	
		<input type="checkbox"/> 2 years (\$65) <input type="checkbox"/> 1 <sup>st</sup> yr teacher*, 1 yr (\$22)	
		<input type="checkbox"/> 3 years (\$90) <input type="checkbox"/> retired, 1 yr (\$28)	
FORM USE Check one:		MEMBERSHIP COST    \$	
<input type="checkbox"/> New Membership <input type="checkbox"/> Renewal		DONATIONS	
<input type="checkbox"/> Former Member <input type="checkbox"/> Change of Address		SCHOLARSHIP FUND    \$	
* The student and 1 <sup>st</sup> -year teacher memberships are only available as electronic-only.		SPEAKER FUND    \$	
		<b>TOTAL AMOUNT OF CHECK    \$</b>	

**Make check payable to *MMC***

MMC Membership and Change of Address Form

Mail completed form and check to:

MMC  
7339 W. Ibsen St.  
Chicago, IL 60631

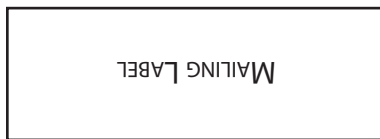
# Upcoming Events



Fri., Sept. 23	Matt Larson	A Brief History of Math Education: Lessons for Today
Fri., Sept. 30	Last Day To Sign Up To Speak At The MMC Conference Of Workshops!	
Fri., Oct. 21	David Ginsburg	Doing Math Vs. Understanding Math: The Procedural Fluency and Conceptual Understanding Connection
Fri., Dec. 2	Jeffrey Bergen	A Finite Look at the Infinite
Fri., Jan. 20	Maryjoy Heineman & Matthew Kaiser	Geometry in Construction: A Contextualized Approach to Teaching Mathematics
Sat., Jan 28	Evanston Twp H.S.	MMC Conference of Workshops
Fri., Mar 3	Nicole Enzinger	Integers: A Space for Mathematical Play
Fri., May 19	Hyman Bass	Mathematical Variations on Some Familiar School Themes

Send upcoming event items to [jomalley@glenbrook225.org](mailto:jomalley@glenbrook225.org) no later than the date of the MMC dinner meeting preceding the issue in which the item should appear. All items are subject to editing.

*Your membership renewal date appears in the upper right corner of the label.*



METROPOLITAN MATHEMATICS CLUB OF CHICAGO  
c/o MMC  
7339 W. Ibsen St.  
Chicago, IL 60631



Metropolitan Mathematics Club of Chicago

# 2016–2017 Program

September 23, 2016—Matt Larson

A Brief History of Math Education: Lessons for Today

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October 21, 2016—David Ginsburg

Doing Math Vs. Understanding Math: The Procedural Fluency and Conceptual Understanding Connection

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December 2, 2016—Jeffrey Bergen

A Finite Look at the Infinite

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January 20, 2017—Maryjoy Heineman & Matthew Kaiser

Geometry in Construction: A Contextualized Approach to Teaching Mathematics

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January 28, 2017—Evanston Township High School

MMC Conference Of Workshops

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March 3, 2017—Nicole Enzinger

Integers: A Space for Mathematical Play

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May 19, 2017—Hyman Bass

Mathematical Connections: Curricular and Cognitive

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5:30 p.m. Doors Open; 6:00 p.m. Social Hour; 7:00 p.m. Dinner and Talk

Fountain Blue Banquets & Convention Center, 2300 Mannheim Rd., Des Plaines, IL

Make your reservations and special meal requests no later than the Monday before the meeting if possible.

Reservations can be made online at [www.MMCCHICAGO.ORG](http://www.MMCCHICAGO.ORG) or by phone at (847) 486 - 4291