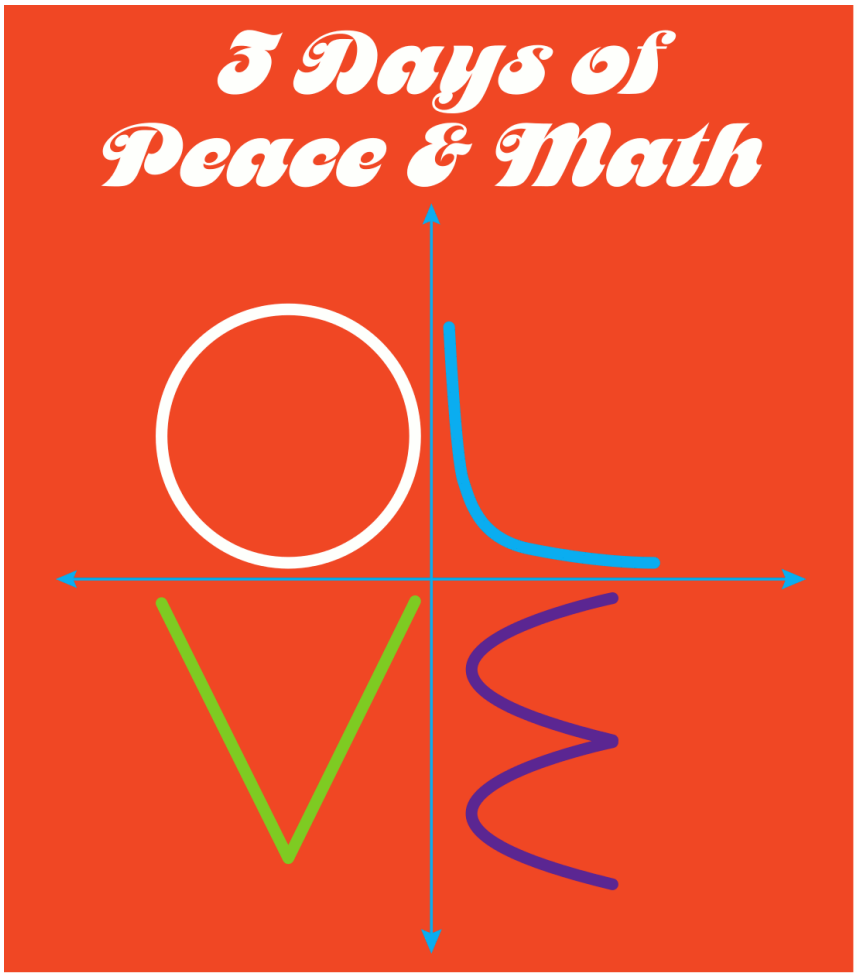
NYS MATYC 1967

NEW YORK STATE MATHEMATICS ASSOCIATION OF TWO-YEAR COLLEGES

49th Annual Conference



April 8 - 10 2016

Kingston, New York

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www.nysmatyc.org/eboard.php

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The Conference Committee:
Trevor Bradish
Larry Danforth
Ray Labounty
Ken Mead
Brain Millevlle

Message from the President-Elect

Last year, we were in Rochester for the NYSMATYC Conference. Of course, by then I was already 'on the hook', so I began some planning early. A conversation on Saturday afternoon (over and IPA or two…) about the Woodstock Music Festival and its proximity to Kingston led to:

"Three Days of Peace and Math"

Of course, as educators, we had to correct ourselves and say things like: "You know the actual conference wasn't really in Woodstock" with which I replied, "Bethel (not as catchy sounding as Woodstock) is close, kinda, so it still works!"

Well, enough about barroom conversations. Here are a couple new features at this year's conference:

1. Conference Mobile Program
   Use the QR code attached to your conference bag to view a mobile version of the program.
2. Conference themed t-shirts
   If you need help at the conference, look for the folks wearing orange conference shirts.

Without the support of our vendors, the conference would not be possible. Thank you to:

Cengage Learning
Computational Class Notes
McGraw – Hill
Pearson
XYZ Textbooks

Also, don't forget about Friday's IGNITE Event and Saturday Morning's Estimation Run. PLUS: The one and only Larry Josbeno is here to entertain us ALL at Saturday night's banquet. And finally, in an effort to creep a little further into the 21st century, the conference evaluation is available on line at:

https://www.surveymonkey.com/r/49thAnnualNYSMATYCConference

Scan the code or find the link on the Conference page at www.nysmatyc.org:

We appreciate the feedback, have a great conference everyone!!!

Josh Hammond

President – Elect

Program Summary

	Friday Afternoon					
12:00 - 12:50	**Lunch ---- Garden Courtyard**					
Rooms:	**Plaza Ballroom A**		**Plaza Ballroom B**		**Plaza Ballroom CD**	
1:00 - 1:50	1	Randomization-based Statistics Versus Traditional Statistics Simpson	2	Writing in Math? Seriously? Santiago, Wells	3	Five Minutes to a More Satisfying Course McKeague
2:00 - 2:50	4	Mathematics – The Sharp Tool That Digs Up Scientific Truths Josbeno	5	Statistically Significant Secrets to Success: An Interactive Workshop to Share YOUR Teaching Tips for Statistics! Barrett, Loud	6	XYZ Textbooks: Not Your Traditional Publisher McKeague
2:50 - 3:20	**Break: Please Visit Vendor Exhibits**					
3:20 - 4:10	7	Randomization-Based Inference: The New Statistics! Loud	8	Collaboration to Save the Day Wells, Santiago	9	Computational Education – The End of Expensive Text Books Lam, Valente
4:20 - 4:45	10	The Write Thing to Do: Strengthening Student Comprehension in Undergraduate Statistics Classes Dillard	11	Can This Impact the Mathematics Classroom Danforth	12	Innovative, Interactive Electronic Notebook (Textbook) in Introductory Calculus Koenka
4:55 - 5:20	13	Music, Art & More, Oh My! Incorporating Student Projects into Your Liberal Arts Survey Course Barrett				
5:30 - 6:00	Executive Board Meeting -- Gazebo Room					
6:00 - 6:30	**Cocktail half hour**					
6:30 - 7:45	**Dinner -- Plaza Ballroom --Scholarship Winners Announced**					
8:00 - 9:00	Ignite NYSMATYC					

	Saturday Morning						
6:15	**Estimation Run ---- Lobby**						
7:00 - 7:50	**Breakfast ---- Garden Courtyard**						
Rooms:	**Plaza Ballroom A**			**Plaza Ballroom B**		**Plaza Ballroom CD**	
8:00 - 8:25	14	Pythagorean Theorem in Spherical Geometry Tapia	15	Promote communication with students by using text phone in a multi-variable calculus classroom Kim	16	The Mathematical Analysis of Cancer Risk in a Statistics Class Atwood	
8:35 - 9:00	17	Bridging the GAP Kane	18	Common Core: What does it look like and what does this mean for us? Newton	19	MindTap Math Foundations: The Next Generation of Personalized Learning Trent	
9:10 - 9:35	20	There is Time for Fun in Math Class Reid					
9:45 - 10:10	21	Getting Started with the Pathways with support from SUNY Magaram, Crawford-Mohat, Miller	22	Math League Problems Pre-Algebra Students Can Do! Georgiakaki	23	Changing Lanes: PATHWAYS Momentum and Success Tierney, Leist	
10:20 - 10:45	24	Topics from AMATYC Danforth	25	OER Use and Results in Intermediate Algebra Georgiakaki			
10:45 - 11:15	**Break: Please Visit Vendor Exhibits**						
11:15 - 11:55	Business Meeting ---- Plaza Ballroom CD						
12:00 - 1:00	**Lunch Ballroom Garden Courtyard** **Estimation Run Winners Announced**						

	Saturday Afternoon					
Rooms:	**Stockade**		**Coachman**		**Victorian**	
1:10 - 2:00	26	Teaching a Prestatistics Course: Propelling Non-STEM Students Forward Lehmann	27	Just what is the "Sum" of an Infinite Series? Radia	28	McGraw Hill – Presentation Coronel
2:10 - 3:00	29	The Win-Win-Win-Win Situation at The Center for Community Studies at Jefferson LaLone	30	What is in Carnegie's Quantway Curriculum? Crawford-Mohat	31	The Mathematics of GPS Roethel, Pournazari
3:00 - 3:30	**Break: Please Visit Vendor Exhibits**					
3:30 - 4:20	32	Puzzles, Puzzles, Puzzles Danforth	33	Experiences Teaching Quantway for the First Time Crawford-Mohat, Atwood, Alzugaray, Buck	34	Remedial math at DCC: Two Paths Possible, and Algebra in 1-credit Pieces Taylor
4:30 - 4:55	35	Problematyc Selig	36	A Fuzzy-Minded Approach to Continuity Biehler, Maley	37	1980's Australian New Wave Band INXS and Survey Research Analysis - Of Course They Are Related ... Learn How ... LaLone
5:10 - 5:40	Executive Board Meeting -- Gazebo Room					
5:30 - 6:00	Cocktail Half-hour					
6:00 - 8:00	**Banquet ---- Ballroom 1901-1902** **Keynote Speaker – Larry Josbeno** **Mathematics Through the Ages**					

	Sunday Morning			
8:00 - 9:00	Breakfast ---- Garden Courtyard			
Rooms:	Plaza Ballroom A		Plaza Ballroom B	
9:10 - 10:00	38	At Play with the Triangular Numbers Rosenthal	39	The Advantages of Quantway Often Overlooked in Our Academic Debate Alzugaray
10:10 - 11:00	40	Teacher prep courses - a discussion of best practices and the use of writing as a way of making connections DelTreste, VanDerStuyf	41	Finding Cosine of Some Non-Special Angles Gurtas
11:10 - 11:35	42	The Twisted Behavior of Certain Curves Singh	43	Formative Assessment in Math and Statistics Rogala
11:45 - 12:10	44	Adapting Integral Theory into Observing Mathematical Learning Yuen		

Program in Detail: Friday

12:00 – 12:50 **Lunch**
Garden Courtyard

1:00 – 1:50

Session 1 **Randomization-based Statistics Versus Traditional Statistics**
Plaza Ballroom A

Presenter: Sean Simpson – Westchester Community College

Presider: Sophia Georgiakaki – Tompkins-Cortland Community College

There is a growing movement among statistics instructors to make use of randomization-based methods. In this talk, the presenter will demonstrate an example or two using these methods, just as he has in his own classroom over the last few semesters, as well as why he believes this methodology is better than the "traditional" methodology.

Session 2 **Writing in Math? Seriously?**
Plaza Ballroom B

Presenters: Rachel Santiago – Monroe Community College
Karen Wells – Monroe Community College

Presider: Tim Biehler – Finger Lakes Community College

The presenters will be demonstrating the benefits of incorporating informal and formal writing activities in a mathematics classroom. Attendees will be given the opportunity to explore the various strategies for creating said activities, and will be provided takeaways that can be used in their own classes.

Session 3 **Five Minutes to a More Satisfying Course**
Plaza Ballroom CD

Presenter: Pat McKeague – MathTV.com

Presider: Ernie Danforth – Corning Community College

Too many topics, too little time? Give yourself a five-minute break and see what you can accomplish. Invite your students to become community college instructors, share what brought you to mathematics, and give a view of mathematics that unites cultures and disciplines. All this and more, five minutes at a time.

Project ERNIE Meeting
Gazebo Room

2:00 – 2:50

Session 4 **Mathematics – The Sharp Tool That Digs Up Scientific Truths**
Plaza Ballroom A

Presenter: Larry Josbeno – Corning Community College

Presider: Sean Simpson – Westchester Community College

In 1963, Murray Gell-Mann presented a Mathematical Model for fundamental particles. This morphed into the "Standard Model"; the first elements of proof came in 1976, the last piece came recently at the LHC (Large Hadron Collider). This presentation will focus on these discoveries.

Session 5 **Statistically Significant Secrets to Success: An Interactive Workshop to Share YOUR Teaching Tips for Statistics!**
Plaza Ballroom B

Presenters: Lori Barrett – Corning Community College
Phil Loud – Corning Community College

Presider: Karen Wells – Monroe Community College

Come ready to tell us all about your innovative, interactive, imaginative, and inventive ideas for teaching Elementary Statistics! This workshop is a platform for us to see what's happening in each other's classrooms. Bring us your cool data sources, engaging activities, helpful worksheets, illustrative examples, technology gizmos, or even just silly stories to share with the participants. The presenters will share their own tried-and-true favorites.

Session 6 **Commercial Presentation: XYZ Textbooks: Not Your Traditional Publisher**
Plaza Ballroom CD

Presenter: Pat McKeague – XYZ Textbooks

Presider: Larry Danforth – Jefferson Community College

XYZ Textbooks was started in 2010 with the mission of offering high quality textbooks at reasonable prices, but we are much more than that now. Come see how we integrate our print books, eBooks, videos, and homework system to offer students the best chance for success.

2:50 – 3:20 **Break: Please Visit the Vendor Exhibits**

3:20 – 4:10

Session 7 **Randomization-Based Inference: The New Statistics!**

Plaza Ballroom A

Presenter: Philip Loud – Corning Community College

Presider: Bernard Dillard – Fashion Institute of Technology

The key to introducing concepts of statistical inference early and often is to adopt a randomization-based approach to statistical inference. This approach makes use of modern computing power and puts the logic of statistical inference at the center of the curriculum. Using StatKey and Java Applets as our simulation tools, we will investigate real-world statistical studies taken from Robin Lock's Unlocking the Power of Data and Nathan Tintle's Introduction to Statistical Investigations.

Session 8 **Collaboration to Save the Day**

Plaza Ballroom B

Presenters: Rachel Santiago – Monroe Community College
Karen Wells – Monroe Community College

Presider: Lori Barrett – Corning Community College

The presenters will be demonstrating the importance of collaboration amongst mathematics faculty members and the effectiveness of faculty collaboration on student performance and activity design. Attendees will be given takeaways and an opportunity to collaborate on the development of an activity for use in their classrooms.

Session 9 **Commercial Presentation: Computational Education – The End of Expensive Text Books**

Plaza Ballroom CD

Presenters: Deidre Lam – Computational Class Notes
Madani Naidjate – Boston University

Presider: Jack Koenka – Ryerson University

The presentation will share the real experiences of working with Ryerson University and other colleges in Canada and Boston University in the US. The presentation will provide an overview of the issues faced by the Universities and specific details as to how the issues were solved. There will be a real life demo of the technology with room of Q & A. We encourage and want audience engagement.

4:20 – 4:45

Session 10 **The Write Thing to Do: Strengthening Student Comprehension in Undergraduate Statistics Classes**

Plaza Ballroom A

Presenter: Bernard Dillard – Fashion Institute of Technology

Presider: Philip Loud – Corning Community College

Infusing writing in math classes continues to gain traction in the 21st century, providing an alternative way that students show content mastery and helping reduce math anxiety. What happens to final exam scores when students write a paper versus taking a traditional third exam? The presenter shares his shocking results

4:20 – 5:20

Session 11 **Mindset: Can This Impact the Mathematics Classroom**

Plaza Ballroom B

Presenter: Ernie Danforth – Corning Community College

Presider: Kate Danforth – Corning Community College

Stanford psychologist Dr. Carol Dwerk coined the terms growth mindset and fixed mindset to describe beliefs regarding qualities such as talent and ability. The presenter will describe these in more detail and lead a discussion as to how these may impact the mathematics classroom.

Session 12 **Innovative, Interactive Electronic Notebook (Textbook) in Introductory Calculus**

Plaza Ballroom CD

Presenters: Jack Koenka – Ryerson University

Presider: Pat McKeague – MathTV.com

Calculus is dynamic. We would like to demonstrate an electronic notebook for a full course in Introductory Calculus that allows for student experimentation and investigation. Whether in the text, homework or practice problems we use CDF player and Wolfram Cloud to make our material available on mobile devices and laptops with great clarity.

4:55 – 5:20

Session 13 **Music, Art & More, Oh My! Incorporating Student Projects into Your Liberal Arts Survey Course**

Plaza Ballroom A

Presenter: Lori Barrett – Corning Community College

Presider: Janis Mazza – Nassau Community College

Help invigorate students in a liberal arts mathematics courses by having them work on individual mathematics projects that incorporate their individual strengths and interests. Students become more personally engaged in the curriculum as they apply course topics to their interests in music, art, literature, theater, marketing, cooking, sewing, and even shopping! All of their industrious efforts culminate in a Poster Session held during the last week of the semester, where the students get a chance to mingle over pizza and check out their classmates' efforts. Paper and digital copies of my project guidelines and grading rubric will be available to participants.

5:30 – 6:00 **Executive Board Meeting**

Gazebo Room

6:00 - 6:30 **Cocktail Half-Hour**

6:30 – 7:45 **Dinner** (Scholarship and Math League Winners announced)

Plaza Ballroom

8:00 – 9:00 **Ignite NYSMATYC**

Plaza Ballroom CD

For the fourth consecutive year NYSMATYC will be putting on an Ignite event after dinner on Friday. In the NYSMATYC Ignite event each presenter speaks about one of their personal passions, whether it be mathematical or instructional or both or neither. Each presentation consists of 20 slides each of which are shown for 15 seconds each. Join your fellow conference attendees as they share their passions with you in one of the shortest, informative, and entertaining presentations around.

Program in Detail: Saturday

6:15 – ???? **Estimation Run**

Lobby

The Estimation Run on the Saturday morning of the NYSMATYC Conference began as an idea of then President-elect Gerry Leiblich of the Bronx Community College in 1978 in Corning New York. Gerry was looking for a different kind of activity, with different rules. The idea was that running fast was not the goal, but estimating your time was the real goal. That first year the run attracted three runners. They were runners. In subsequent years, Gerry was able to relax the rules a bit and permit walkers and talkers as well as runners. This became a social highlight for a great many conference attendees. Gerry continued to run the Estimation Run until the mid 1990's when he tragically passed away. The run was re-named in Gerry's honor.

Ernie Danforth organized the run for many years; we thank him for his service. His son, Larry is currently the run organizer and will be waiting for you in the lobby at 6:15 with instructions. Prizes will be awarded to all who participate and are present at Saturday's lunch to share their times with everyone.

7:00 – 7:50 **Breakfast**

Garden Courtyard

8:00 – 8:25

Session 14 **Pythagorean Theorem in Spherical Geometry**

Plaza Ballroom A

Presenter: Valerie Tapia – University at Buffalo

Presider: Michael Helinger – Clinton Community College

The Pythagorean Theorem is traditionally taught in planar geometry, and thus many students lack geometric reasoning skills about the spherical earth (e.g. Oceanic navigation, laying oil pipes across a continent, etc.) This presentation investigates how Pythagorean Theorem (SPT) manifests in the spherical geometric system, and adapts SPT to real life applications.

Session 15 **Promote communication with students by using text phone in a multi-variable calculus classroom**

Plaza Ballroom B

Presenter: Myungchul Kim – Suffolk County Community College

Presider: Tim Grosse – Jefferson Community College

The use of classroom response systems can help student learning, engagement and perception during the class. They provide each student a chance to think about and respond to a question before hearing other students' answer. Also, it can enlighten the instructor to sources of student difficulties. In this talk, the effective use of text phone when teaching multi-variable calculus will be presented.

Session 16 **The Mathematical Analysis of Cancer Risk in a Statistics Class**

Plaza Ballroom CD

Presenter: Alexander Atwood – Suffolk County Community College

Presider: Amanda Bartels – Jamestown Community College

In January of 2015, Tomasetti and Vogelstein published in Science Magazine a revolutionary, controversial and rigorous statistical analysis which showed that random mutations in the healthy stem cells within organs can explain two-thirds of cancers. Their mathematical analysis is a wonderful subject for exploration by students in a statistics class.

8:35 – 9:00

Session 17 **Bridging the GAP**

Plaza Ballroom A

Presenter: Beth Kane – Hudson Valley Community College

Presider: Tom Reid – SUNY Broome Community College

In accordance with NYS legislation, HVCC developed the GAP (Graduation, Achievement and Placement) program. The initiative aims to expedite the time to degree for students who enter post-secondary education with skills below the college level. This presentation is a summary of the program over the last two years.

8:35 – 9:35

Session 18 **Common Core: What does it look like and what does this mean for us?**

Plaza Ballroom B

Presenter: Erin Newton – Onondaga Community College

Presider: Patty Owens – Onondaga Community College

Common Core is off and running in the secondary classrooms, and the first group of CC students will graduate in June 2017! Come see some of the tasks students are being asked and what changes have been made from the traditional high school courses and instruction.

Session 19 **Commercial Presentation: MindTap Math Foundations: The Next Generation of Personalized Learning**

Plaza Ballroom CD

Presenter: Robert Trent – Cengage

Presider: Shaun Rajan – Westchester Community College

MindTap Math Foundations assesses individual students to make learning more efficient and effective. Using advancements in personalized learning with communication and gamification technology, MindTap engages students with conceptual material and helps motivate them to practice the skills they need for college-level work.

9:10 – 9:35

Session 20 **There is Time for Fun in Math Class**
Plaza Ballroom A

Presenter: Tom Reid –SUNY Broome Community College

Presider: Ashley Martin – Jamestown Community College

Taking advantage of the times when fun activities or examples can be used in class can improve student interest, participation and perhaps learning. This presentation focuses on different examples, tricks, and activities that lighten the mood and get students interested and involved, from developmental courses through calculus.

9:45 – 10:10

Session 21 **Getting Started with the Pathways with support from SUNY**
Plaza Ballroom A

Presenter: Eric Magaram – Rockland Community College
Mary Crawford-Mohat– Onondaga Community College
Jennifer Miller – SUNY

Presider: Sara Taylor – Dutchess Community College

SUNY is committed to increasing the persistence and completion rates of its college students. One SUNY initiative is the Pathways model (Quantway/Statway) established by the Carnegie Foundation for the Advancement of Teaching. This session is focused on background and SUNY support of the effort with time for questions.

Session 22 **Math League Problems Pre-Algebra Students Can Do!**
Plaza Ballroom B

Presenter: Sophia Georgiakaki – Tompkins Cortland Community College

Presider: Myungchul Kim – Suffolk County Community College

It's never too early to start thinking mathematically. Math League problems lend themselves to excellent mathematical puzzles for our TC3 Pre-Algebra students, who learn number concepts without a calculator.

9:45 – 10:45

Session 23 **Commercial Presentation: Changing Lanes: PATHWAYS Momentum and Success**

Plaza Ballroom CD

Presenter: Michelle Renda – Pearson Math
Allison Tierney – Pearson Math

Presider: Heather Huntington – Nassau Community College

Discussion of trends across NY leading to great innovations in math education content and technology. The Pathways movement is pushing us at Pearson to create new models and solutions to support the ever-evolving instructor and student needs. We are excited to share with you some of these stories of success, where we are today, and where we are headed.

10:20 – 10:45

Session 24 **Topics from AMATYC**

Plaza Ballroom A

Presenter: Ernie Danforth – Corning Community College

Presider: Julie Croteau – Corning Community College

AMATYC's NE Region Vice President, Ernie Danforth will discuss items of interest and importance for NYSMATYC members. He will have just returned from the Spring Executive Board meeting in Memphis, so be among the first to hear about news from the national organization.

Session 25 **OER Use and Results in Intermediate Algebra**

Plaza Ballroom B

Presenter: Sophia Georgiakaki – Tompkins Cortland Community College

Presider: Alexander Atwood – Suffolk County Community College

The history and experience of using OER at Tompkins Cortland CC will be shared with participants. Statistics of student success and textbook cost savings will be presented, as well as future initiatives at TC3.

10:45 – 11:15 Break: Please Visit the Vendor Exhibits

11:15 – 11:55 **Business Meeting**

Plaza Ballroom CD

Agenda follows on page 25

12:00 – 1:00 **Lunch** (Estimation Run Winners Announced)

Garden Courtyard

1:10 – 2:00

Session 26 **Teaching a Prestatistics Course: Propelling Non-STEM Students Forward**
Plaza Ballroom A

Presenters: Jay Lehmann – College of San Mateo

Presider: Jay Hurlburt – Corning Community College

Many colleges are propelling non-STEM students through math programs by creating a path-to-stats course, which can be taken in place of elementary and intermediate algebra. Innovative use of density histograms, interpretation of statistical concepts, and compelling collaborative activities can greatly enhance students' understanding and eventual success in a statistics course.

Session 27 **Just What is the "Sum" of an Infinite Series?**
Plaza Ballroom B

Presenters: Richard Evans – Corning Community College

Presider: Hatesh Radia – Corning Community College

When an infinite series converges to a finite sum, what does this really mean? Does it mean the sum of the infinite terms exactly equals that finite sum, or does is simply mean that it satisfies the definition of convergence? The presenter will argue the former, but only under certain circumstances. A popular game of chance will be used to support that position. Participants will practice playing this game in small groups, and the presenter will use probability to connect the finite with the infinite.

Session 28 **Commercial Presentation: McGraw Hill**
Plaza Ballroom CD

Presenter: Alina Coronel – Miami Dade College

Presider: Michael Riedinger – Nassau Community College

Increasing Student Success through Acceleration, Engagement and Customized Remediation with ALEKS. ALEKS is an adaptive, artificially-intelligent learning system that provides students with an individualized learning experience tailored to their unique strengths and weaknesses. With decades of scientific research behind its creation, ALEKS strives to bring the most advanced and efficient learning system to students worldwide.

2:10 – 3:00

Session 29 **The Win-Win-Win-Win Situation at The Center for Community Studies at Jefferson**
Plaza Ballroom A

Presenters: Joel LaLone – Jefferson Community College
Larry Danforth – Jefferson Community College

Presider: Donna Stevenson – Jefferson Community College

The students, faculty, Northern New York Community, and College all win through the research completed by faculty and their students taking statistics courses at Jefferson Community College. Join the presenters as they share what each of the groups gains through the work completed by the *Center for Community Studies* at Jefferson Community College.

Session 30 **What is in Carnegie's Quantway Curriculum?**
Plaza Ballroom B

Presenter: Mary Crawford-Mohat – Onondaga Community College

Presider: Rich Evans – Corning Community College

Experience part of Carnegie's Quantway curriculum, take a look at what is in the course and determine if this pathway is the right fit for your college.

Session 31 **The Mathematics of GPS**
Plaza Ballroom CD

Presenters: Chris Roethel – Nassau Community College
Mahmood Pournazari – Nassau Community College

Presider: Jane-Marie Wright – Suffolk Community College – Ammerman Campus

A simplified look at the Mathematics involved in GPS Navigation.

3:00 – 3:30 **Break: Please Visit the Vendor Exhibits**

3:30 – 4:20

Session 32 **Puzzles, Puzzles, Puzzles**
Plaza Ballroom A

Presenters: Kate Danforth – Corning Community College
Larry Danforth – Jefferson Community College

Back again for the ?th Annual NYSMATYC Puzzles contest (honestly we lost count). Teams of 4 compete in a puzzle contest. Create a team ahead of time or join others at the session. Come and play for fun and prizes!

Session 33 **Experiences Teaching Quantway for the First Time**

Plaza Ballroom B

Presenters: Mary E. Crawford-Mohat – Onondaga Community College
Alexander Atwood – Suffolk County Community College
Maria Alzugaray – Suffolk County Community College
Leslie Buck – Suffolk County Community College

Moderator: Mary E. Crawford-Mohat – Onondaga Community College

A panel of professors will share their first semester experiences teaching Quantway. The discussion will also include course adoption and enrollment challenges. The panel will be moderated by an experienced Quantway teacher. There will be time for Q & A.

Session 34 **Remedial math at DCC: Two Paths Possible, and Algebra in 1-credit Pieces**

Plaza Ballroom CD

Presenter: Sara Taylor – Dutchess Community College

Presider: Michael White – Jefferson Community College

Dutchess Community College began offering Mathematical Literacy for College Students in Fall, 2011 and DCC began offering Intermediate Algebra as a series of three 1-credit courses in Fall, 2012. This presentation will discuss the changes that DCC made, and also present data on pass rates in these courses and subsequent college-level math courses that our students have taken. DCC students are failing fewer remedial math credits, focusing on mathematics more relevant to their program of study, and succeeding in their college-level math courses at a rate equivalent to or better than our previous sequence.

4:30 – 4:55

Session 35 **Problematyc**

Plaza Ballroom A

Presenter: Ralph Selig – Fairleigh Dickinson University

Presider: Trevor Bradish – Jefferson Community College

The presentation will demonstrate trivial and not-so-trivial problems that can be introduced in a liberal arts math class.

Session 36 **A Fuzzy-Minded Approach to Continuity**

Plaza Ballroom B

Presenters: Tim Biehler – Finger Lakes Community College
Sean Maley – Finger Lakes Community College

Presider: Russ Penner – Mohawk Valley Community College

When continuity is presented rigorously, few introductory calculus students find their way through the quantifications to make any sense of it. The graphical presentation is more approachable, but continuity easily falls into being seen simply as a graphical property, losing any sense of what else it means. Observing that "f(around x) is sort of y-ish" blends the two while calling upon the student's common sense to both understand the concept and effectively apply it in mathematical models.

Session 37 **1980's Australian New Wave Band INXS and Survey Research Analysis - Of Course They Are Related ... Learn How ...**

Plaza Ballroom CD

Presenter: Joel LaLone – Jefferson Community College

Presider: Heather O'Brien – Jefferson Community College

With 20 years' experience presenting results of Community based studies to widely varying audiences, Joel has developed interesting and effective ways to explain study findings. Come see a guided tour of the methodology and results of many recent studies.

5:10 – 5:40

Gazebo Room **Executive Board Meeting**

5:30 – 6:00 **Cocktail Half-Hour**

6:00 – 8:00 **Banquet**

Plaza Ballroom

Banquet Speaker – Larry Josbeno
" Mathematics Through the Ages"

About Larry Josbeno:

Larry Josbeno, Professor Emeritus of Physics, teaches physics and mathematics at CCC, though he technically retired in 2008. He received his B.S. from St. Bonaventure University and his M.S. from the University of New Hampshire. He was a Woodrow Wilson Scholar at Princeton and a Visiting Scientist at Cornell University's Particle Accelerator. He has authored three books, taught twenty-four years at Horseheads High School and has been at CCC for twenty-seven years

Program in Detail: Sunday

8:00 – 9:00 **Breakfast**

Garden Courtyard

9:10 – 10:00

Session 38 **At Play with the Triangular Numbers**

Plaza Ballroom A

Presenter: Bill Rosenthal – Hunter College

Presider: Satyanand Singh – New York City College of Technology

The triangular numbers are a portal through which we can provide students access to a trove of mathematics topics, both conventional and delightfully off beat. In this highly interactive session, I'll engage you in some possibilities of mine, ask for your feedback, and invite you to come up with more.

Session 39 **The Advantages of Quantway Often Overlooked in Our Academic Debate**

Plaza Ballroom B

Presenter: Maria Alzugaray – Suffolk County Community College

Presider: Chris Yuen – University at Buffalo

The objective of this talk is to make a thorough presentation of the curriculum covered by the course Mathematical Literacy (Quantway) taught at Suffolk CCC. This course is not devoid of algebra and helps students develop indispensable mathematical skills not covered by our current developmental math sequence.

10:10 – 11:00

Session 40 **Teacher prep courses - a discussion of best practices and the use of writing as a way of making connections**

Plaza Ballroom A

Presenters: Carla DelTreste – Dutchess Community College
Rachel VanDerStuyf – Dutchess Community College

Presider: Bill Rosenthal – Hunter College

Hear how instructors at Dutchess Community College run their teacher prep courses and join in a discussion to share your best practices with others. Some topics that will be emphasized are the importance of writing and reflection, work expectation levels and preparation to teach Common Core.

Session 41 **Finding Cosine of Some Non-Special Angles**

Plaza Ballroom B

Presenter: Yusuf Gurtas – Queensborough Community College

Presider: Brian Milleville – Erie Community College

If we think of the equation cos 60 = ½ as the polynomial equation 2x-1=0 having solution cos 60 then we can apply this idea to many non-special angles. For example cos(72) is the solution of 4x2+2x-1=0. We will talk about how to construct such equations for certain angles.

11:10 – 11:35

Session 42 **The Twisted Behavior of Certain Curves**

Plaza Ballroom A

Presenter: Satyanand Singh – New York City College of Technology

Presider: Russ Penner – Mohawk Valley Community College

In this presentation we will explore certain cubic curves in two variables and their unexpected plots. In particular we will examine problem B1 in the 2006 William Lowell Competition and generalize this notion to various families of curves. This presentation illustrates a nice interaction between calculus, conic sections and linear algebra.

11:10 – 12:10

Session 43 **Formative Assessment in Math and Statistics**
Plaza Ballroom B

Presenter: Matthew Rogala – Westchester Community College

Presider: Joe Bernat – Nassau Community College

We will discuss the use of formative assessment techniques in math and statistics classrooms and the wealth of information they can provide both to instructors and students. Examples of formal and informal assessments used by the presenter will be shown and discussed.

11:45 – 12:10

Session 44 **Adapting Integral Theory into Observing Mathematical Learning**
Plaza Ballroom A

Presenter: Chris Yuen – University at Buffalo

Presider: Josh Hammond – Jefferson Community College

Mathematical learning usually is documented through performance of homework and tests; the reflection of conceptual development is often overlooked. This presentation explores how Wilber's Integral Theory examines mathematical learning. An example will be drawn from an undergraduate research project where the student has engaged in mathematics in an integral manner.

Business Meeting Agenda

Saturday, April 9, 2016
11:15 – 11:55
Room: Plaza Ballroom CD

1. President's Report	Larry Danforth
2. Approval of Minutes of April 18, 2015	Michael Riedinger
3. Treasurer's Report	Richard Moscatelli
4. Elections Report	Russ Penner
5. Committee Reports	
(a) Articulation	Joe Bernat
(b) Audit	Heather Huntington & Hatesh Radia
(c) Awards	Russ Penner
(d) Curriculum	Chris Kemp
(e) Legislative	Janie-Marie Wright
(f) Newsletter	Heather Huntington
(g) Professional Development	Brian Milleville
(h) Scholarship	Patty Owens
6. Unfinished Business	
(a) NYSMATYC Representation to Other Organizations	
(i) AMATYC	Ernie Danforth
(ii) AMTNYS	TBA
(iii) MAA Metro	Abe Mantell
(iv) MAA Seaway	TBA
(b) 2016 Conference	Josh Hammond
(c) Other	
7. New Business	
(a) Appointments	Josh Hammond
(b) Conferences	Russ Penner
(i) 2017, April 7 - 9, Syracuse, NY	
(ii) 2018, April 13 - 15, Queensbury, NY	
(iii) 2019, TBA, Region I	
(c) Other	
8. Raffles	Josh Hammond
9. Adjournment	Michael Riedinger

NYSMATYC Scholarships

John Vadney Past Presidents' Award

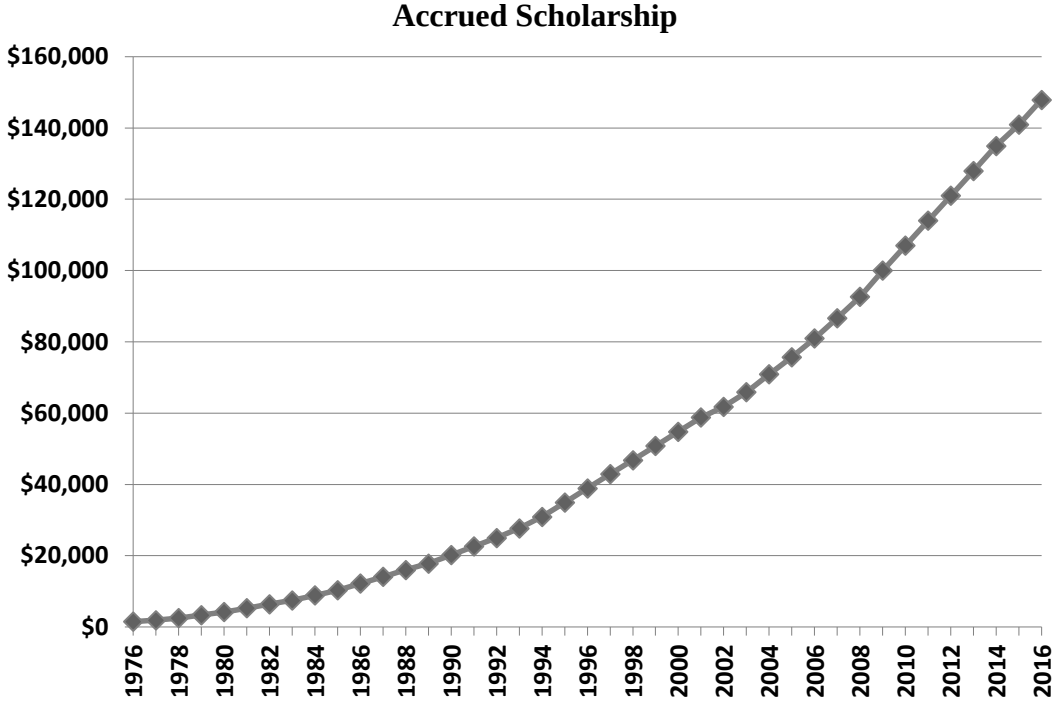
John Vadney was one of the founding fathers of NYSMATYC, but what set him apart from the rest of the founders was his continuous attendance at conferences for more than 40 years. His final contribution to the organization was to the Scholarship Fund. He pushed his fellow past presidents to contribute to the Scholarship Fund to push the total scholarship awards given by NYSMATYC to students to over $100,000. As a result of his efforts a new scholarship was created in 2010 for high achievers called the Past Presidents' Award and was renamed in 2011 to the John Vadney Past Presidents' Award.

Helen Siner Scholarship Award

Helen Siner taught mathematics at Staten Island Community College, which later became the College of Staten Island a 4-year CUNY unit. In 1975 Helen was honored by NSYSMATYC for Outstanding Contributions to Mathematics Education. During the 1970's and 1980's Helen chaired the Scholarship Committee almost continuously. After her death in the early 1990's the top NYSMATYC Scholarship Award was named in Helen's honor.

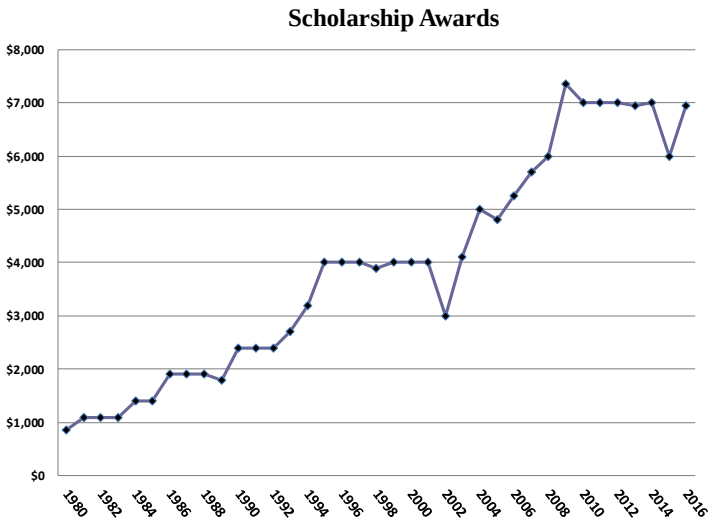
Dan Dodway Scholarship Award

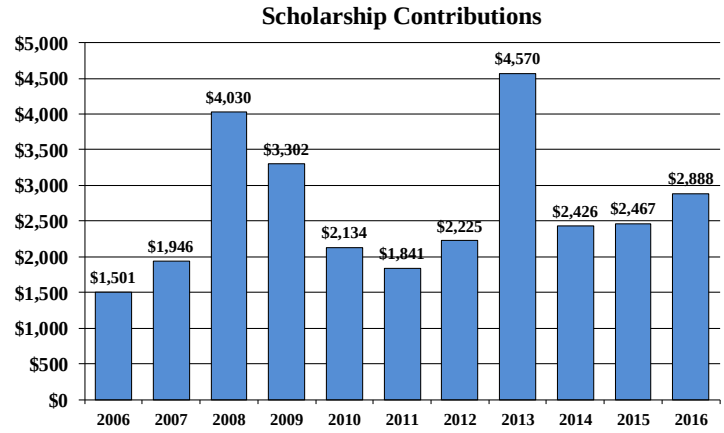
Dan Dodway was a professor of mathematics at Broome Community College. He served as NYSMATYC's 21st president. Dan also served the organization as Articulation chair as well as working with Paul Earl on some very successful Summer Institutes, the forerunner to our Professional Development Committee. In the mid 1990's Dan was killed in a tragic ultra-light plane accident. To honor his memory, the highest scholarship given annually to a student with intentions of pursuing a career in mathematics education was named in Dan's honor.

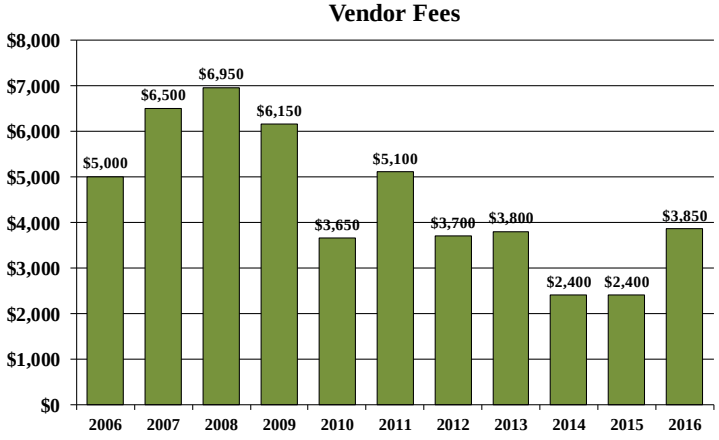


Scholarship Fund Donors

The following members have contributed to the 2016 NYSMATYC Scholarship Fund. Scholarships are primarily funded by donations and vendor fees from the previous year. We extend our heartfelt thanks to each and every member for their generous support. Since NYSMATYC was founded in 1967, a total of $147,900 in scholarships has been distributed to students continuing their education.







Gold Donors

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Brian	Milleville	Erie CC
Lisa	Queeney-Vadney	Fulton Montgomery CC
Sue	Kutryb	Hudson Valley CC
Larry	Danforth	Jefferson CC
Allen	Angel	Monroe CC
Richard	Moscatelli	Nassau CC
Patty	Owens	Onondaga CC
Larry & Joan	Page	Onondaga CC
Edward & Jane-Marie	Wright	Suffolk County CC
Timothy & Nancy	Putnam	Tompkins Cortland CC

Silver Donors

Sadie	Bragg	Borough of Manhattan CC
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Russell	Penner	Mohawk Valley CC
Julie	Dewan	Mohawk Valley CC
Peter	Collinge	Monroe CC
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Armen	Baderian	Nassau CC
Abe	Mantell	Nassau CC
Heather	Huntington	Nassau CC
Lilia	Orlova	Nassau CC
Michael	Steuer	Nassau CC
Dennis	Stramiello	Nassau CC
Satyanand	Singh	NYC College of Technology
Jane	Tanner	Onondaga CC
Anne	Prial	Orange County CC
Michelle	Tubbs	Orange County CC
Howard	Sporn	Queensborough CC
Jonathan	Cornick	Queensborough CC
Peter	Arvanites	Rockland CC
Alexander	Atwood	Suffolk County CC
Christine	Kulis	Suffolk County CC
Joseph	Straight	SUNY Fredonia
Sophia	Georgiakaki	Tompkins Cortland CC
Carl	Penziul	Tompkins Cortland CC
Mathew	Rogala	Westchester CC
Shaun	Rajan	Westchester CC

Outstanding Contributions to Mathematics Education Award Winners

2015	Paul Seeburger	Monroe Community College
2012	Roy Cameron	SUNY Cobleskill
2011	Ernie Danforth	Corning Community College
2000	James K. Baker	Jefferson Community College
1999	Rose Tan	Westchester Community College
1997	Philip Cheifetz	Nassau Community College
1996	Rick Patrick	Adirondack Community College
1995	Sadie Bragg	Borough of Manhattan Community College
1994	Susan Forman	Bronx Community College
1992	Mona Fabricant	Queensborough Community College
1991	Richard Schwartz	College of Staten Island
1990	Joseph Browne	Onondaga Community College
1987	Don Cohen	SUNY Cobleskill
1986	Allen Angel	Monroe Community College
1983	George Miller	Nassau Community College
1983	Geoffrey Akst	Manhattan Community College
1982	Gerald Lieblich	Bronx Community College
1981	Warren Page	New York City Technical College
1980	James Baldwin	Nassau Community College
1980	Sheldon Gordon	Suffolk County Community College
1979	Peter Lindstrom	Genesee Community College
1978	Allyn Washington	Dutchess Community College
1977	Herb Gross	Corning Community College
1976	Lawrence Trivieri	Mohawk Valley Community College
1975	Leon Ablon	Staten Island Community College
1975	Helen Siner	Staten Island Community College
1975	Calvin Lathan	Monroe Community College
1974	Norm Schaumberger	Bronx Community College
1973	Erwin Just	Bronx Community College
1972	George Pedwick	Executive Director of CUPM
1972	James Eastham	Queensborough CC

Outstanding Contributions to NYSMATYC Award Winners

2010	Abe Mantell	Nassau Community College
2009	Raymond LaBounty	Corning Community College
2007	Mary Beth Orrange	Erie Community College
2006	Ken Mead	Genesee Community College
2005	John Vadney	Fulton-Montgomery Community College
2004	Kate Danforth	Corning Community College
2003	Ernie Danforth	Corning Community College
2002	Maryann Justinger	Erie Community College
2001	Don Willner	Mohawk Valley Community College
1991	Karl Klee	Jamestown Community College
1990	John Impagliazzo	Hofstra University
1989	Roy Cameron	SUNY Cobleskill
1988	Paul Earl	Broome Community College
1985	Helen Seiner	The College of Staten Island
1973	Sam McInroy	Corning Community College
1972	Michael Sentlowitz	Rockland Community College
1971	Frank Avenoso	Nassau Community College

Presidents of NYSMATYC

2015 - 16	Larry Danforth	1990 - 91	Sadie Bragg
2014 - 15	Russ Penner	1989 - 90	Ernie Danforth
2013 - 14	Sophia Georgiakaki	1988 - 89	Dan Dodway
2012 - 13	Abe Mantell	1987 - 88	Joseph Browne
2011 - 12	Ray LaBounty	1986 - 87	Gerald Smith
2010 - 11	Tim Grosse	1985 - 86	Susan Forman
2009 - 10	Emad Alfar	1984 - 85	Carol Kublin
2008 - 09	Sue Kutryb	1983 - 84	Karl Klee
2007 - 08	George Hurlburt	1982 - 83	Roy Cameron
2006 - 07	Abe Mantell	1981 - 82	Bruce Haney
2005 - 06	Jerilyn Fairman	1980 - 81	Lawrence Trivieri
2004 - 05	Jodi Cotten	1979 - 80	Gerald Leiblich
2003 - 04	MaryBeth Orrange	1978 - 79	Allen Angel
2002 - 03	Maureen O'Grady	1977 - 78	Paul Earl
2001 - 02	Beverly Broomell	1976 - 77	Robert Burghardt
2000 - 01	Dona Boccio	1975 - 76	Sam McInroy
1999 - 00	Jane Tanner	1974 - 75	Allyn Washington
1998 - 99	Rick Patrick	1973 - 74	Donald Cohen
1997 - 98	Maryann Justinger	1972 - 73	Harold Hackett
1996 - 97	Kate Danforth	1971 - 72	John Walter
1995 - 96	Frank Mandrey	1970 - 71	Raymond McCartney
1994 - 95	Joan Page	1969 - 70	John Vadney
1993 - 94	Judy Cain	1968 - 69	John Vadney
1992 - 93	Richard Rupprecht	1967 - 68	Herbert Gross
1991 - 92	Leonard Malinowski		

Project ERNIE - Class of 2016

Enhancing Relationships to Nurture and Inspire Educators

Daniel Groom	Finger Lakes Community College
Ashley Martin	Jamestown Community College
Ryan McCann	Columbia-Greene Community College
Erin Newton	Onondaga Community College

Project ERNIE, is a faculty development program designed to assist those new to teaching mathematics at community colleges in New York State through collaboration with other NYSMATYC members. Each year several full-time math faculty in their first or second year of teaching math at the two-year level are selected to participate. We welcome the 2016 class as the seventh cohort in Project ERNIE.

2016 Conference Attendees

Boston College
Amin Gholizadeh

Boston University
Madlate Madani

Broome CC
Christopher Kushner
Shelley Lewis-Stanley
Thomas Reid

Clinton CC
Julie Hanson

College of San Mateo
Jay Lehmann

Columbia Greene CC
Stephanie Olstad
Ryan McCann

Corning CC
Lori Barrett
Julie Croteau
Ernie Danforth
Kate Danforth
Richard Evans
Jayashree Hurlburt
Philip Loud
Larry Josbeno
Hatesh Radia

Dutchess CC
Sara Taylor

Erie CC
Brian Milleville

Fairleigh Dickinson University
Ralph Selig

Fashion Institute of Technology
Bernard Dillard

Finger Lakes CC
Tim Biehler
Theresa Gauthier
Daniel Groom
Sean Maley

Fulton Montgomery CC
Julie Mihalcik

Genesee CC
Christopher Kemp
Kenneth Mead

Hudson Valley CC
Ryan Bakes
Sohair Habib
Crystal Heshmat
Beth Kane
Theresa Powers
Walton Yoder
Judith G. Zamurs

Hunter College
Bill Rosenthal

Jamestown CC
Amanda Bartels
Ashley Martin

Jefferson CC
Trevor Bradish
Andrew Burgess
Larry Danforth
Timothy Grosse
Joshua Hammond
Joel LaLone
Heather O'Brien
Donna Stevenson
Michael White

Middlesex County College
Jennifer Applebee

Mohawk Valley CC
Emily Hantsch
Russell Penner
Donald Willner

Monroe CC
Christine Abbott
Aimee Calhoun
Linda Carson
Ekaterina Jones
Rachel Santiago
Karen Wells

Morrisville State College
Kimberly Berge'
Jennifer Eddy

Nassau CC
Emad Alfar
Armen Baderian
Joseph Bernat
Heather Huntington
Ida Klikovac
Vivian Kong
Janis Mazza
Abe Mantell
Richard Moscatelli
Mahmood Pournazari
Michael Riedinger
Chris Roethel

NYC College of Technology
Satyanand Singh

Onondaga CC
Mary Crawford-Moha
Erin Newton
Patty Owens

Orange County CC
Kaitlin Curry
Shahrzad Latefi
Stephen Leavy
Joel Morocho
Anne Prial

Queensborough CC
Mona Fabricant
Howard Sporn

Rockland CC
Peter Arvanites
Ken Mullin

Schenectady County CC
Kathryn Tomaino

Suffolk County CC
Alexander Atwood
Leslie Buck
Myung Chul Kim
Kevin Maritato
Rachael Millings
Edward Wright
Jane-Marie Wright

Sullivan County CC

David Pollack
Lisa Topolovec

SUNY Buffalo

Valerie Tapia

SUNY Orange

Christine Leroux

SUNY Rockland

Eric Magaram

Tompkins Cortland CC

Sophia Georgiakaki

University of Buffalo

Chris Yuen

Westchester CC

Shaun Rajan
Mathew Rogala
Sean Simpson

Upcoming Conferences

50th NYSMATYC Annual Conference

Crowne Plaza Hotel

Syracuse, NY

April 7 – 9, 2017

NYSMATYC

- April 7 - 9, 2017: NYSMATYC Annual Conference @ Syracuse, NY
- April 13 - 15, 2018: NYSMATYC Annual Conference @ Queensbury, NY

AMATYC

- November 17 - 20, 2016: AMATYC Annual Conference @ Denver, CO
- November 9 - 12, 2017: AMATYC Annual Conference @ San Diego, CA
- November 15-18, 2018: AMATYC Annual Conference @ Orlando, FL

MAA

- August 3 - 6, 2016: MAA MathFest @ Columbus, OH
- January 4 - 7, 2017: MAA/AMS Joint Meeting @ Atlanta, GA
- July 26 - 29, 2017: MAA MathFest @ Chicago, IL
- January 10 - 13, 2018: MAA/AMS Joint Meeting @ San Diego, CA
- August 1 - 4, 2018: MAA MathFest @ Denver, CO
- January 16 - 19, 2019: MAA/AMS Joint Meeting @ Baltimore, MD
- July 31 - August 3, 2019: MAA Math Fest @ Cincinnati, OH

NCTM

- April 13 - 16, 2016: NCTM Annual Meeting & Exposition @ San Francisco, CA
- October 31 - November 2, 2016: NCTM Regional Conference @ Philadelphia, PA
- November 16 - 18, 2016: Inov8 Conference @ St. Louis, MO
- April 5 - 8, 2017: NCTM Annual Meeting & Exposition @ San Antonio, TX
- April 25 - 28, 2018: NCTM Annual Meeting & Exposition @ Washington, D.C.

T^3

- March 10 - 12, 2017: T3 International Conference @ Chicago, IL

42nd AMATYC Annual Conference

Denver, Colorado

November 17 – 20, 2016

Conference Theme:

Math at a Mile High

For more information, go to http://www.amatyc.org