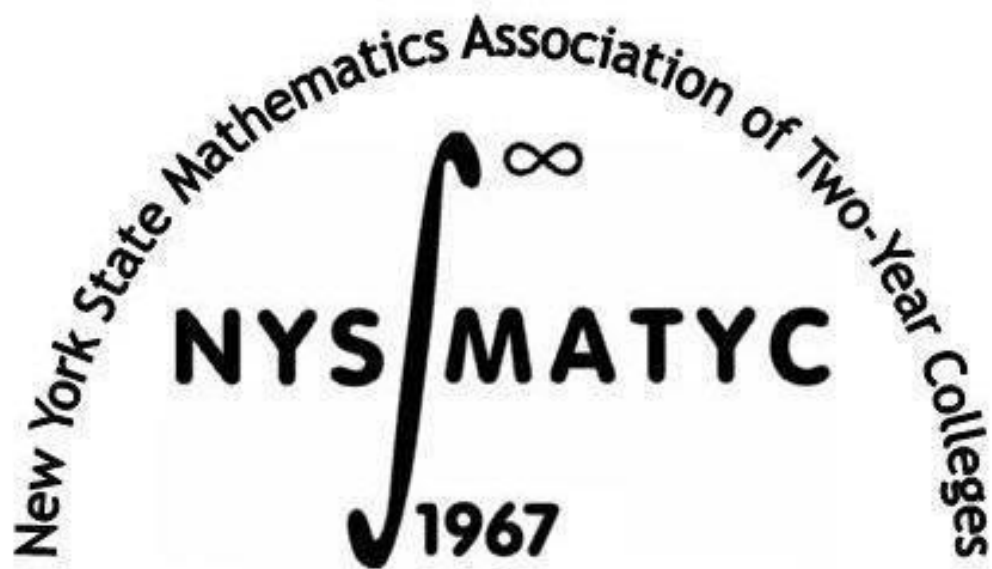


Celebrating our 50th Year



Syracuse, NY  
April 7- 9, 2017

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# *Program Summary*

## Friday Afternoon

12:00-1250	Lunch – Lafayette					
Rooms	Lafayette A		Lafayette B		Camillus	
1:00-1:50	1	Getting Started with the Math Pathways with Support from SUNY Mary Crawford-Mohat, Eric Magaram, and Christine Kelly	2	Everyday Math... Gone Wrong! Rick Rupprecht	3	Interdisciplinary GAISE Experience - A Team Taught Environmental Biology & Statistics Course Joel LaLone, and Monrica LeClerc
2:00-2:50	4	Learning Catalytics: The "New Clickers" Thy Bui	5	MindTap Math Foundations Stephanie J. Stoll	6	Shortening the Developmental Track by Combining the Arithmetic course into PreAlgebra Michael Helinger and Kelly Garrand
2:50-3:20	Break: Please Visit Vendor Exhibits					
3:30-4:20	7	Promoting a Growth Mindset in your Classroom Mary Crawford-Mohat	8	Improving Conceptual Understanding of Multivariable Calculus & Differential Equations Through Visualization Using CalcPlot3D Paul Seeburger	9	Elementary Inferential Statistics - One Semester Solution David Usinski
4:30-4:55	10	What can periodic assessments tell us about students' conceptual and procedural knowledge in Calculus I? Reem Jaafar	11	A Jubilee of Problems Dr. Ralph Selig	12	Concurrent Enrollment Course Level Julie Croteau and Josh Hammond
5:05-5:30	13	Don't Go Off Tangent: Developing a Working Definition of a Tangent Line in Beginning Calculus Chris L. Yuen	14	QL – Not for Math Only: Can students become quantitatively literate “across the curriculum”? Margaret H. Dean	15	A NYSMATYC Retrospective Ernie Danforth
5:30-6:30	Executive Board Meeting – Cazenovia					
6:00-6:30	Cocktails					
6:30-7:45	Dinner -- Horizons					
8:00-9:00	Ignite					

## Saturday Morning

6:15	Estimation Run					
7:00-7:50	Breakfast – Lafayette					
Rooms	Lafayette A		Lafayette B		Camillus	
8:00-8:25	16	Teaching Remedial Math: Challenge or Frustration? Grazyna Niezgoda	17	Mathematics In Aviation Chris Roethel	18	Statistics Themed Session Sophia Georgiakaki, Larry Danforth, Dave Usinski, and Matthew Rogala
8:30-8:55	19	Memorable (Math) Moments Wayne Uter	20	A Trip to Mirror Land (or A Fun Look at Non-decimal Number Systems) Rick Rupprecht		
9:00-9:25	21	The Future Impact of Artificial Intelligence on College Mathematics Education Alexander Atwood	22	Increasing Student Success through Acceleration, Engagement and Customized Remediation with ALEKS Kristyanna Erickson		
9:30-9:55	23	Using GEOGEBRA in Precalculus and Calculus Class Vera Hu-Hyneman				
10:00-10:55	24	Creating the Right Path for Your Students Using Math Technology Mary Reynolds	25	Mathemagics Candice H. Dance	26	Some Nice Graph Theory, and Matrices Luis F. Moreno
11:00-11:20	Break: Please Visit Vendor Exhibits					
11:20-12:00	Business Meeting – Camillus					
12:00-1:00	Lunch – Lafayette					

## Saturday Afternoon

Rooms	Lafayette A		Lafayette B		Camillus	
1:10-2:00	27	Open Educational Resources Initiatives David Usinski and Sophia Georgiakaki	28	When Is 95% Confidence Too High? Rich Evans	29	Quantway from the Student Perspective Mary Crawford-Mohat
2:10-3:00	30	My Favorite Curves Joseph Straight	31	Mathematics and The Wonder Years Ernie Danforth	32	It pays to be HIP! Dr. Rachel Santiago and Karen Wells
3:00-3:30	Break: Please Visit Vendor Exhibits					
3:30-4:20	33	Teaching Quantway 1: Faculty Perspectives Mary Crawford-Mohat, William Hamilton, Shirley Hartnett and Carol Baum	34	Conversations with Herb Gross	35	New Digital Games for Algebra and Pre-Calculus Kathleen Offenholley and Sarah McAllister
4:30-5:20	36	Puzzles, Puzzles, Puzzles Jayashree Hurlburt and Larry Danforth	37	A Team-Teaching Approach to Student Success Jennifer Eddy and Brenda White		
5:30-6:00	Executive Board Meeting – Cazenovia					
6:00-6:30	Cocktails					
6:30-8:30	Dinner -- Horizons					

## Sunday Morning

8:00-9:00	Breakfast – Lafayette					
Rooms	Lafayette A		Lafayette B		Camillus	
9:05-9:30	38	Crafting a Mathematics Module Satyanand Singh	39	Gender and the Pursuit of Mathematics Kevin Maritato	40	Grading in College vs. Grading on Regents Exams: A Comparison Jason Mahar
9:35-10:00	41	Abbott-and-Costello Numbers Howard Sporn	42	Presenting SATURN, Undergraduate Research Journal Davorin Dujmovic		
10:10-11:00	43	Using Online Math Tutorials and Games to Help Remediate Students' Basic Math Skills: A Review and Discussion on Computer-Based Instructional Sites Joan Erickson	44	Math for Elementary Teachers, a Discussion Tim Putnam		
11:10-12:00	45	Designing Formative Assessments for Math and Statistics Matthew Rogala	46	Videos Built with Questions and Flipped Classrooms Judy Dean and Margaret Dean		

# ***NYSMATYC 2017 Annual Conference Detailed Program***

## **Friday**

12:00 noon – 12:55 pm      Lunch (Celebrity Room)

1:00 – 1:50 pm              1-Hour Sessions

**S1**  
Lafayette A

**Getting Started with the Math Pathways with Support from SUNY**

Presenters: Mary Crawford-Mohat, Eric Magaram, and  
Christine Kelly

Presider: Chris L. Yuen

This session is for anyone interested in learning about the  
Quantway/Statway Math Pathways and how SUNY is able to  
support campuses that choose to explore or teach these courses.

**S2**  
Lafayette B

**Everyday Math... Gone Wrong!**

Presenter: Rick Rupprecht

Presider: Reem Jaafar

We'll take an entertaining look at some of the mathematical blunders that  
appear in the news, on television, on the internet, and in the movies. If  
you have good examples, please bring them to share. Better yet, get in  
touch with me before the talk so I can include them with my examples.  
(rickrupprecht@mail.sunycc.edu)

**S3**  
Camillus

**Interdisciplinary GAISE Experience - A Team Taught Environmental  
Biology & Statistics Course**

Presenters: Joel LaLone, and Monrica LeClerc

Presider: Joan Erickson

The presenters will share how an interdisciplinary course in biology and  
statistics addresses each of the goals outline in the most recent GAISE  
Report. Students gain experience in all aspects of research including the  
formulation of hypotheses, multiple field trips to nearby streams in the  
North Country to collect data, analysis of samples in the lab, and statistical  
analysis of the multivariate data set.



2:00 – 2:50 pm

1-Hour Sessions

**S4**  
Lafayette A

**Learning Catalytics: The "New Clickers"**

Presenter: Thy Bui

Presider: Matthew Rogala

The presenter will be demonstrating a new classroom response system "Learning Catalytics." It is a web-based platform for managing the interactive classroom. Instructors can engage students with questions and track students' responses to better understand students' needs during class. Please bring a mobile device (smart phones, tablets, laptops, ...) and have it already connected to the Internet.

**S5**  
Lafayette B

**MindTap Math**

Presenter: MindTap Math Foundations

Presider: Jayashree Hurlburt

MindTap Math Foundations is a game-changing technology that provides a unique and motivating learning experience for developmental math students. This session will provide an introduction to the market-tested features within MindTap including instructional games, customized learning paths, an interactive whiteboard, Learning Bursts, and more. Participants will get to experience MindTap from both the instructor and student points of view

**S6**  
Camillus

**Shortening the Developmental Track by Combining the Arithmetic course into PreAlgebra**

Presenters: Michael Helinger and Kelly Garrand

Presider: Mike Riedinger

Realizing the discouraging length of time required for students starting in Arithmetic contributes to the very low retention rate, Clinton started 2 years ago to combine Arithmetic with the Pre-Algebra course by adding 1 hour per week of supplemental instruction for students testing into Arithmetic. Analysis of results will be presented.

2:50 – 3:20 pm

Break: Please Visit Vendor Exhibits!!

3:30 – 4:20 pm

1-Hour Sessions

**S7**  
Lafayette A

**Promoting a Growth Mindset in your Classroom**

Presenter: Mary Crawford-Mohat

Presider: Alexander Atwood

Have you ever heard your students utter the phrase, "I'm just not a math person"? Adding the word YET can drastically alter one's perception. Putting research into practice, this session explores how to incorporate Carol Dweck's work on Growth Mindset into your classroom. Practical applications included.

**S8**  
Lafayette B

**Improving Conceptual Understanding of Multivariable Calculus & Differential Equations Through Visualization Using CalcPlot3D**

Presenter: Paul Seeburger  
Presider: Russ Penner

A presentation of the new JavaScript version of CalcPlot3D, an interactive online app designed to enhance the teaching and learning of multivariable calculus, exploring: surfaces, contour plots, velocity and acceleration, regions, vector fields/phase portraits, etc. It makes it easy to visually explore concepts and relationships between them. See <http://web.monroecc.edu/calcNSF/>.

**S9**  
Camillus

**Elementary Inferential Statistics - One Semester Solution**

Presenter: David Usinski  
Presider: Jane-Marie Wright

Erie Community College now has two statistics courses, a STEM and non-STEM option. This presentation addresses the course outline, how the course transfers, success rates, and classroom activities.

4:30 – 4:55 pm

1/2-Hour Sessions

**S10**  
Lafayette A

**What can periodic assessments tell us about students' conceptual and procedural knowledge in Calculus I?**

Presenter: Reem Jaafar  
Presider: Trevor Bradish

In Fall 2016, the presenter conducted brief, frequent assessments in Calculus I. Those assessments aimed to identify gaps in student's complete understanding and how it may or may not reflect in their procedural understanding. Interventions were designed to address misconceptions and follow-up assessments were administered to determine the impact of the interventions.

**S11**  
Lafayette B

**A Jubilee of Problems**

Presenter: Dr. Ralph Selig  
Presider: Larry Danforth

This presentation will allow participants to partake in a lively discussion of those trivial problems we all like to solve.

**S12**  
Camillus

**Concurrent Enrollment Course Level**

Presenters: Julie Croteau and Josh Hammond  
An ad-hoc committee has been drafting a position statement regarding the level of mathematics courses appropriate for concurrent enrollment. The committee has a draft statement and will use this session to solicit input from members to finalize the draft.

5:05 – 5:30 pm

1/2-Hour Session

**S13**  
Lafayette A

**Don't Go Off Tangent: Developing a Working Definition of a Tangent Line in Beginning Calculus**

Presenter: Chris L. Yuen  
Presider: Patti Elko

In beginning calculus, students generally rely on intuition to develop the notion of tangent line to a curve at a point, without definition. This presentation surveys teaching practices about the tangent line. Audience will brainstorm working definitions and be ready to lead students to develop definition(s) as an in-class activity.

**S14**  
Lafayette B

**QL – Not for Math Only: Can students become quantitatively literate “across the curriculum”?**

Presenter: Margaret H. Dean  
Presider: Judy Dean

Borough of Manhattan Community College has developed an initiative to enhance quantitative literacy (QL) among their students. Faculty members from a cross-section of departments participate in designing and teaching a QL-intensive curriculum in their own disciplines. Dr. Dean will describe the program and preliminary results. Intended audience: educators interested in interdisciplinary endeavors and/or QL.

**S15**  
Camillus

**A NYSMATYC Retrospective**

Presenter: Ernie Danforth  
Presider: George Hurlburt

The presenter will use slides taken by Past President Sam McInroy to review the early years of NYSMATYC. He will augment this with recollections from other people involved in the early days of NYSMATYC and will encourage recollections from members of the audience.

5:30 – 6:30 pm

Board Meeting

6:00 – 6:30 pm

Cocktail Hour

6:30 – 7:45 pm

Dinner (Horizons)  
Scholarship Winners Announced  
Dinner Speaker: Herb Gross, 1<sup>st</sup> NYSMATYC President

# Saturday

6:15 am – ??? Estimation Run

7:00 – 7:50 am Breakfast (Lafayette)

8:00 – 8:25 pm 1/2-Hour Session

**S16 Teaching Remedial Math: Challenge or Frustration?**

Lafayette A

Presenter: Grazyna Niezgoda

Presider: Amanda Bartels

Teaching remedial math can be challenging or frustrating. The majority of remedial math students lack math study skills and have poor self-efficacy judgment. The presenter will share ideas and strategies that are used to help students to develop and evaluate effective study techniques, increase their self-efficacy judgment and finally become more successful learners.

**S17 Mathematics in Aviation**

Lafayette B

Presenter: Chris Roethel

Presider: Howard Sporn

Chris will talk about the importance of mathematics in aviation. He will speak about the use of math in calculating weight and balance of an aircraft. He will describe its uses in determining wind vectors and also in trip planning. He will show its application in navigation including GPS. He will then conclude with how mathematics is helping shape the future of aviation.

8:00 – 9:55 am 2-Hour Session

**S18 Statistics Themed Session**

Camillus

Experienced statistics teachers will discuss innovative methods they successfully use to teach their classes.

8:00 – 8:25

**GAISE Projects in Liberal Arts Statistics Courses**

Presenter: Sophia Georgiakaki

Projects given to students in Liberal Arts Statistics class promote statistical literacy and critical thinking. Three projects will be presented and discussed with participants. Copies of the projects will be provided for immediate use.

8:30 – 8:55

**A Liberal Arts Statistics Course**

Presenter: Larry Danforth

What expectations should instructors have for students taking an elementary statistics course to complete their mathematics requirement for their degree? What expectations do these students have for an elementary statistics course? The presentation will highlight some of the ways the faculty at Jefferson utilize course discussion time on topics that will help students consider the impact of statistics and statistical studies on their lives well after the completion of the course.

9:00 – 9:25

**Common Core Statistics**

Presenter: Dave Usinski

This presentation is intended as a reference point as to what statistic concepts are being taught in our schools. Furthermore, the statistics standards have been revised and public comment received this past summer and fall.

9:30 – 9:55

**Going Analog: Hands-On Simulation Activities for Introductory Statistics**

Presenter: Matthew Rogala

Whether statistics is taught using randomization or the Central Limit Theorem, many students struggle with the concepts of sampling distributions and p-values. Hands-on simulations can help make those concepts clearer. Participants will take part in activities using a few such simulations that can be used in the classroom.

8:30 – 8:55 am

1/2-Hour Sessions

**S19**  
Lafayette A

**Memorable (Math) Moments**

Presenter: Wayne Uter

Presider: Brian Milleville

A sharing of memorable moments in teaching and tutoring math that has made the journey amusing and interesting for both the instructor and the students, but also deemed "learnable experiences." Audience participation will be encouraged.

**S20**  
Lafayette B

**A Trip to Mirror Land (or A Fun Look at Non-decimal Number Systems)**

Presenter: Rick Rupprecht

Presider: Lori Barrett

This talk is especially for those who are, or are considering, teaching a course for students planning to become elementary teachers. I will show you a fun approach to studying Non-decimal Number Systems. If you come to this talk, do not expect to passively sit and listen; you will have paper and pencil in hand, and take an “active” trip to Mirror Land! It will be fun and your brain will be challenged!

9:00 – 9:25 am

1/2-Hour Session

**S21**  
Lafayette A

**The Future Impact of Artificial Intelligence on College Mathematics Education**

Presenter: Alexander Atwood

Presider: Crystal Heshmat

How will increasingly powerful artificial intelligence systems change the way in which mathematics is taught in colleges? Several case studies of the impact of artificial intelligence systems in various professions (in education and outside of education) will be presented, and a possible future of mathematics education will be envisioned.

9:00 – 9:55 am

1-Hour Session

**S22**  
Lafayette B

**Increasing Student Success through Acceleration, Engagement and Customized Remediation with ALEKS**

Presenter: Kristyanna Erickson

Presider: Jennifer Eddy

Are you interested in improving student pass rates in mathematics? What about improving students' attitudes towards math? Can you increase numbers in college level mathematics courses? Can you shorten the path to college level mathematics?

9:30 – 9:55 am

1/2-Hour Session

**S23**  
Lafayette A

**Using GEOGEBRA in Precalculus and Calculus Class**

Presenter: Vera Hu-Hyneman

Presider: Rich Evans

In this presentation, the presenter will talk about how to integrate GeoGebra in the classroom. This will include concept of definition of derivatives, transformation of algebraic functions, volume revolution, as well as share the files the presenter has created. If you have a laptop, please bring it.

10:00 – 10:55 am

1-Hour Session

**S24**  
Lafayette A

**Creating the Right Path for Your Students Using Math Technology**

Presenter: Mary Reynolds

Presider: Joseph Straight

This workshop will present new functionality, approaches, and features that will help you create, edit, and implement successful courses for STEM and NON-STEM Pathways. Along the way, we will discuss features that can encourage retention and success through personalized and Mastery-Based learning. We will also spend time going over exciting new features for interactivity in the classroom, Adaptive Practice, and Mathspace assignments that emphasize the steps and process of mathematical questions.

**S25**  
Lafayette B

**Mathemagics**

Presenter: Candice H. Dance

Presider: Michael Helinger

Approximately 5 (self-working) tricks will be demonstrated that are used to motivate liberal arts math students. Then the participants will participate in figuring out the math that makes the tricks work correctly.

**S26**  
Camillus

**Some Nice Graph Theory, and Matrices**

Presenter: Luis F. Moreno

Presider: Paul Seeburger

Graphs (the vertices and edges type, not the regular ones) are a ubiquitous mathematical tool. The presenter will give a brief introduction to them, and then talk about an application of matrices to graphs. Of interest to all present!

11:00 – 11:20 am

Break: Please Visit Vendor Exhibits!!

11:20 am – 12:00 pm

Business Meeting (Camillus)

12:00 – 1:00 pm

Lunch (Lafayette)

1:10 – 2:00 pm

1-Hour Sessions

**S27**

Lafayette A

**Open Educational Resources Initiative**

Presenters: David Usinski and Sophia Georgiakaki

Presider: Patty Owens

Overview of MyOpenMath courses in Intermediate and College Algebra; OpenStax with MOM in Statistics (currently) and Calculus (future implementation); SUNY Open Textbooks OER Initiative latest updates.

**S28**

Lafayette B

**When Is 95% Confidence Too High?**

Presenter: Rich Evans

Presider: Julie Croteau

The presenter will discuss a situation when 95% confidence intervals can be misleading. A useful tip will be given to resolve the problem. To justify this tip, various mathematical tools will be used including probability distributions of sums or differences, the Pythagorean Theorem, and limits. Come find out why the square root of two is an important part of the solution!

**S29**

Camillus

**Quantway from the Student Perspective**

Presenter: Mary Crawford-Mohat

Presider: Brenda Oursler White

“I hate math but this class is actually interesting” - Lindsey B. This session is a Q & A with students from Onondaga Community College who took or are currently taking Quantway 1. Hear their experiences from a student perspective.

2:10 – 3:00 pm

1-Hour Sessions

**S30**

Lafayette A

**My Favorite Curves**

Presenter: Joseph Straight

Presider: Terri Gauthier

Heard of the Folium of Descartes? What about the Cissoid of Diocles, or the Cornu Spiral? Not only do these curves have cool names, but their study can enhance any precalculus or calculus course. Come to the talk, and learn more!



**S31**  
Lafayette B

**Mathematics and The Wonder Years**

Presenter: Ernie Danforth  
Presider: Erin Newton

The Wonder Years in this case does not refer to the early years of NYSMATYC. It refers to the TV series of the same name that ran from 1988 to 1993 on ABC. It was the story of growing up in the late 1960's and early 1970's as seen through the eyes of the young man, Kevin Arnold. One of the young stars actually grew up to become a mathematician and publish books that help middle school students succeed in math. The presentation will share clips from the show and share some of what the child star/mathematician/author has to say to young people.

**S32**  
Camillus

**It pays to be HIP!**

Presenters: Dr. Rachel Santiago and Karen Wells  
Presider: Vera Hu-Hyneman

"It pays to be HIP" is all about figuring out how we as instructors can offer more (in) formal writing opportunities in our courses, regardless of discipline. The facilitators will provide valuable takeaways and provide an opportunity for reflection and lesson development!

3:00 – 3:30 am

Break: Please Visit Vendor Exhibits!!

3:30 – 4:20 pm

1-Hour Sessions

**S33**  
Lafayette A

**Teaching Quantway 1: Faculty Perspectives**

Presenters: Mary Crawford-Mohat, William Hamilton, Shirley Hartnett and Carol Baum  
Presider: Nancy Putnam

Join the discussion! This session is a panel discussion followed by Q & A. Three Quantway Instructors from Onondaga CC will share experiences teaching Quantway. Hear perspectives from novice to practiced teachers. Learn what it is really like to teach from Pathways materials.

**S34**  
Lafayette B

**Conversations with Herb Gross**

Presenter: Herb Gross  
Presider: Ernie Danforth

After hearing the keynote on Friday evening do you have questions that arose that you would like answered? Do you have questions on some other topic? Do you just want to hear more from Herb? If you answered yes to any of these questions, this is one more opportunity to hear from NYSMATYC's first president in a very informal setting.

3:30 – 5:20 pm

2-Hour Session

**S35**  
Camillus

**New Digital Games for Algebra and Pre-Calculus**

Presenters: Kathleen Offenholley and Sarah McAllister  
Presider: Dr. Rachel Santiago

Participants will play three digital mathematics games that were created with an NSF-ATE grant. Emphasis will be placed on how to help students learn from the games, in addition to increasing engagement. Faculty who teach algebra or pre-calculus will find this to be a terrific addition to their teaching.

4:30 – 5:20 pm

1-Hour Sessions

**S36**  
Lafayette A

**Puzzles, Puzzles, Puzzles**

Presenters: Jayashree Hurlburt and Larry Danforth

A recent NYSMATYC conference staple for many, Puzzles, Puzzles, Puzzles is back for another year. Teams of four compete in this year's puzzle contest. Create your team ahead of time or join others at the session to keep the tradition going for another year.

**S37**  
Lafayette B

**A Team-Teaching Approach to Student Success**

Presenters: Jennifer Eddy and Brenda White  
Presider: Tim Putnam

The presenters will share with other math instructors their experiences with team teaching. Jennifer and Brenda began using a team-teaching approach when they started teaching the Quantway curriculum (developed by the Carnegie Foundation) as a means of supporting each other as they embarked on teaching a non-traditional course for the first time.

5:30 – 6:00 pm

Board Meeting (Cazenovia)

6:00 – 6:30 pm

Cocktail Hour

6:30 – 8:30 pm

Banquet Dinner (Horizon)

Keynote Speaker: Maria Anderson

**Harmonizing the Opposing Forces in Teaching and Learning Mathematics**

Teaching math is a struggle between covering content and getting to appropriate depth. It is a balance between appropriate scaffolding and productive failure.

There is a tug-of-war between keeping half the class from being bored and the other half of the class from being frustrated. We want to help the struggling students to succeed and nurture the creativity of bright students at the same time. Understanding of math student personas, principles from the game industry, and appropriate use of technology can help bring some of these struggles into a more stable balance.

# Sunday

8:00 – 9:00 am

Breakfast (Lafayette)

9:05 – 9:30 am

1/2-Hour Sessions

**S38**

Lafayette A

## **Crafting a Mathematics Module**

Presenter: Satyanand Singh

Presider: Nancy Putnam

In this presentation we will illustrate the creation of a precalculus and calculus 1 module. Our model module engages and promotes student learning. The module's creation intersects with technology, experimentation and mathematical gems as we elevate, entice and challenge our students in STEM disciplines. This model of learning is one component implemented by Peer Led Teams of students at New York City College of Technology and their creation is funded by the Department of Education MSEIP Grant #P120A150063.

**S39**

Lafayette B

## **Gender and the Pursuit of Mathematics**

Presenter: Kevin Maritato

Presider: Kathleen Offenholley

While the achievement gap between genders is closing in math classes, and men and women receive approximately equal numbers of mathematics bachelor's degrees, the gender-based participation gap at higher rungs of the academic ladder remains wide. We will explore possible explanations, and remedies, for this gap.

9:05 – 11:00 am

2-Hour Session

**S40**

Camillus

## **Grading in College vs. Grading on Regents Exams: A Comparison**

Presenter: Jason Mahar

Presider: Richard Moscatelli

In this interactive session participants will grade sample answers to questions from the Algebra 2 (Common Core) Regents exams and compare their results against how the answers would be scored for the Regents Exam as per the Rubrics. Participants should bring a graphing calculator, if possible.

9:35 – 10:00 am

1/2-Hour Sessions

**S41**  
Lafayette A

**Abbott-and-Costello Numbers**

Presenter: Howard Sporn  
Presider: Josh Hammond

This presentation will analyze a mathematical routine from the comedy team of Abbott and Costello, and will determine all possible numbers that can be used in the joke. It will generate an integer sequence involving least common multiples. This offbeat use of mathematics can provide entertainment for students.

**S42**  
Lafayette B

**Presenting SATURN, an Undergraduate Research Journal**

Presenter: Davorin Dujmovic  
Presider: Larry Danforth

The speaker shall present an online journal for undergraduate research SATURN with a couple of ideas how to use it for publishing mathematics research. Those ideas include the usage of elementary statistics for research involving local issues such as polling elections and analysis of the results. The engagement was class based and used for the evaluation of grades. This dispels the notion that undergraduates in community colleges are not capable of research in mathematics.

10:10 – 11:00 am

1-Hour Sessions

**S43**  
Lafayette A

**Using Online Math Tutorials and Games to Help Remediate Students' Basic Math Skills: A Review and Discussion on Computer-Based Instructional Sites**

Presenter: Joan Erickson  
Presider: Satyanand Singh

From Khan Academy to YouTube math tutorials, remedial students turn to online resources for supplemental instructions. From the teacher's perspective, what features in an online tutorial/game site are important when recommending them to remedial students? Here we will deliberate the pros and cons of using online math tutorials. Audience: Introductory algebra to PreCalc educators

**S44**  
Lafayette B

**Math for Elementary Teachers, a Discussion**

Presenter: Tim Putnam  
Presider: Sophia Georgiakaki

Intended for instructors of the Math for Elementary Ed courses; what are we teaching? How are we teaching it? The presenter will share his thoughts, approaches, and methods, as well as his perception of student weaknesses in these courses.

11:10 – 12:00 am

1-Hour Sessions

**S45**  
Lafayette A

**Designing Formative Assessments for Math and Statistics**

Presenter: Matthew Rogala

Presenter: Kevin Maritato

Formative assessment presents a unique opportunity for both students and instructors to gain a deep understanding of not only what students are learning but also how they are learning it. We will look at some strategies for designing these assessments and create some samples together as a group.

**S46**  
Lafayette B

**Videos Built with Questions and Flipped Classrooms**

Presenters: Judy Dean and Margaret Dean

Presenter: George Hurlburt

Hands-on workshop for educators interested in flipped, online, and other nontraditional teaching styles: techniques to embed questions with required immediate response in pre-existing videos demonstrated. Participants create their own “Video Built with Questions,” engage in flipped classroom interactive activities and other techniques to increase student engagement. Bring laptop or tablet.

# 2017 Business Meeting Agenda

Saturday, April 8, 2017

TIME: 11:20 – 12:00

Room: Camillus

1. President's Report Josh Hammond
2. Approval of Minutes of April 09, 2016 Michael Riedinger
3. Treasurer's Report Richard Moscatelli
4. Elections Report Larry Danforth
5. Committee Reports
  - a. Audit Regional Members at Large
  - b. Awards Larry Danforth
  - c. Communications Sophia Georgiakaki
  - d. Professional Development Brian Milleville
  - e. Scholarship Patty Owens
6. Unfinished Business
  - a. NYSMATYC Representation to Other Organizations
    1. AMATYC Ernie Danforth
    2. AMTNYS TBA
    3. MAA Metro Abe Mantell
    4. MAA Seaway TBA
  - b. 2017 Conference Report George Hurlburt
  - c. Committee for Concurrent Enrollment Julie Croteau
  - d. NYSMATYC 50<sup>th</sup> History Ray LaBounty
7. New Business
  - a. Appointments Josh Hammond
  - b. Conferences Larry Danforth
    1. 2018, April 13 - 15, Queensbury, NY
    2. 2019, April 11 – 13, Corning, NY
    3. 2020, TBA, Region IV.
    4. Other
8. Raffles
9. Adjournment

# NYSMATYC Scholarship Information

## 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. As part of the P<sup>3</sup>: Past Presidents' Push, this year with the effort of Ernie Danforth and several other past board members, NYSMATYC was able to raise \$5,824 in scholarship donations!

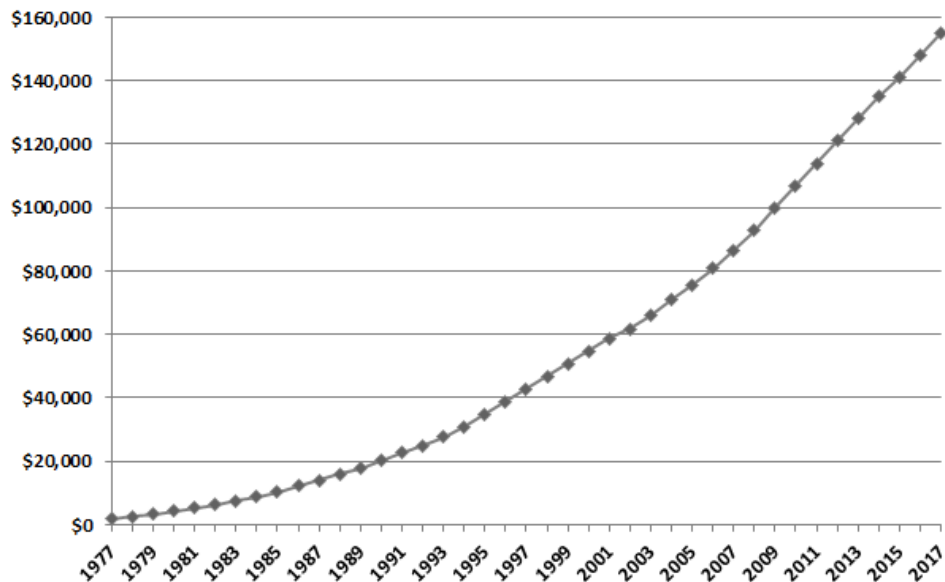
## Helen Siner Scholarship Award

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 21<sup>st</sup> 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.

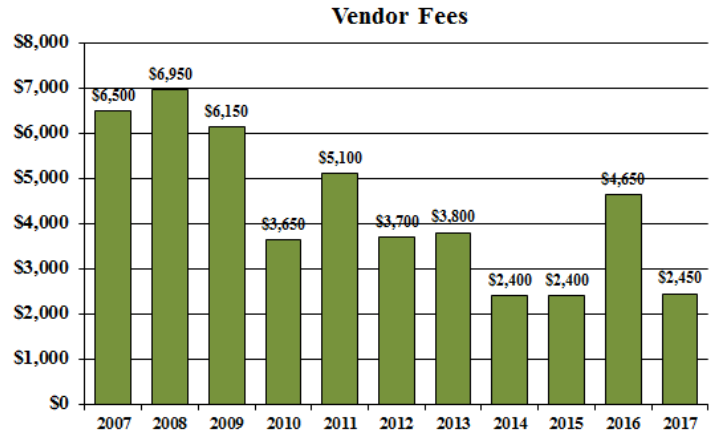
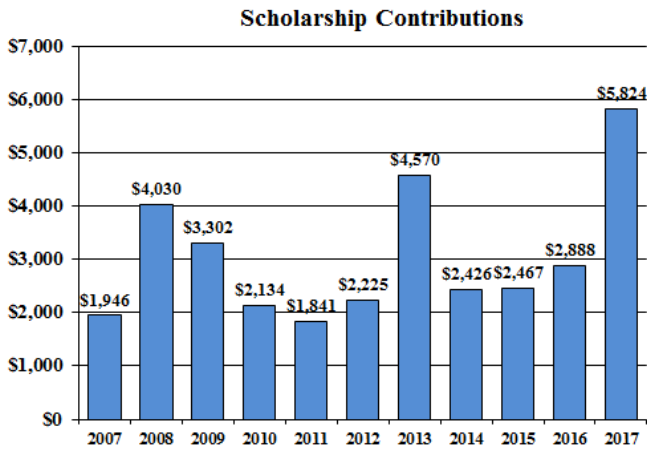
Accrued Scholarship



## Scholarship Fund Donors

The following members have contributed to the 2017 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 \$154,860 in scholarships has been distributed to students continuing their education.



<i><b>Gold Donors</b></i>					
<b>Rick</b>	<b>Patrick</b>	<b>Adirondack CC</b>	<b>Larry</b>	<b>Danforth</b>	<b>Jefferson CC</b>
<b>Harold</b>	<b>Hackett</b>	<b>Alfred State College</b>	<b>Joshua</b>	<b>Hammond</b>	<b>Jefferson CC</b>
<b>Ernie</b>	<b>Danforth</b>	<b>Corning CC</b>	<b>Allen</b>	<b>Angel</b>	<b>Monroe CC</b>
<b>George &amp; Jayashree</b>	<b>Hurlburt</b>	<b>Corning CC</b>	<b>Emad</b>	<b>Alfar</b>	<b>Nassau CC</b>
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<b>Sam</b>	<b>McInroy</b>	<b>Corning CC</b>	<b>Larry &amp; Joan</b>	<b>Page</b>	<b>Onondaga CC</b>
<b>Allyn</b>	<b>Washington</b>	<b>Dutchess CC</b>	<b>Bruce</b>	<b>Haney</b>	<b>Onondaga CC</b>
<b>Maryann</b>	<b>Justinger</b>	<b>Erie CC</b>	<b>Jane</b>	<b>Tanner</b>	<b>Onondaga CC</b>
<b>Jacob</b>	<b>Amidon</b>	<b>Finger Lakes CC</b>	<b>Howard</b>	<b>Sporn</b>	<b>Queensborough CC</b>
<b>Frank</b>	<b>Mandery</b>	<b>Finger Lakes CC</b>	<b>Maureen</b>	<b>O'Grady</b>	<b>Suffolk County CC</b>
<b>Lisa</b>	<b>Queeney-Vadney</b>	<b>Fulton Montgomery CC</b>	<b>Roy</b>	<b>Cameron</b>	<b>SUNY Cobleskill</b>
<b>Sue</b>	<b>Kutryb</b>	<b>Hudson Valley CC</b>	<b>Judy</b>	<b>Cain</b>	<b>Tompkins Cortland CC</b>
<b>Amanda</b>	<b>Bartels</b>	<b>Jamestown CC</b>	<b>Sophia</b>	<b>Georgiakaki</b>	<b>Tompkins Cortland CC</b>
<b>Richard</b>	<b>Rupprecht</b>	<b>Jamestown CC</b>			



Silver Donors

Liana	Erstenyuk	Borough of Manhattan CC	Julie	Croteau	Corning CC
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Elizabeth	Congdon	Broome CC	Patricia	Lanz	Erie CC - South
Ralph	Bertelle	Columbia Greene CC	Theresa	Gauthier	Finger Lakes CC
Lori	Barrett	Corning CC	Patrick	Grande	Fulton Montgomery CC
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Joseph	Bernat	Nassau CC	Edward	Wright	Suffolk County CC
Les	Frimerman	Nassau CC	Jane-Marie	Wright	Suffolk County CC
Heather	Huntington	Nassau CC	Lisa	Topolovec	Sullivan County CC
Jack	Lubowsky	Nassau CC	Diane Marie	Geerken	SUNY Cobleskill
Abe	Mantell	Nassau CC	Joseph	Straight	SUNY Fredonia
Janis	Mazza	Nassau CC	Carl	Penziul	Tompkins Cortland CC
Lilia	Orlova	Nassau CC	Timothy & Nancy	Putnam	Tompkins Cortland CC
Michael	Riedinger	Nassau CC	Shaun	Rajan	Westchester CC
Michael	Steuer	Nassau CC			

## **OUTSTANDING CONTRIBUTIONS TO MATHEMATICS EDUCATION AWARD WINNERS**

1972	George Pedwick, Executive Director of CUPM James Eastham, Queensborough CC
1973	Erwin Just, Bronx Community College
1974	Norm Schaumberger, Bronx Community College
1975	Leon Ablon, Staten Island Community College Helen Siner, Staten Island Community College Calvin Lathan, Monroe Community College
1976	Lawrence Trivieri, Mohawk Valley Community College
1977	Herb Gross, Corning Community College
1978	Allyn Washington, Corning Community College
1979	Peter Lindstrom, Genesee Community College
1980	James Baldwin, Nassau Community College Sheldon Gordon, Suffolk County Community College
1981	Warren Page, New York City Technical College
1982	Gerald Lieblich, Bronx Community College
1983	George Miller, Nassau Community College Geoffrey Akst, Manhattan Community College
1986	Allen Angel, Monroe Community College
1987	Don Cohen, SUNY Cobleskill
1990	Joseph Browne, Onondaga Community College
1991	Richard Schwartz, College of Staten Island
1992	Mona Fabricant, Queensborough Community College
1994	Susan Forman, Bronx Community College
1995	Sadie Bragg, Borough of Manhattan Community College
1996	Rick Patrick, Adirondack Community College
1997	Philip Cheifetz, Nassau Community College
1999	Rose Tan, Westchester Community College
2000	James K. Baker, Jefferson Community College
2005	Dona Boccio, Queensborough Community College
2011	Ernie Danforth, Corning Community College
2012	Roy Cameron, SUNY Cobleskill
2015	Paul Seeburger, Monroe Community College

**OUTSTANDING CONTRIBUTIONS TO NYSMATYC  
AWARD WINNERS**

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

## **PAST PRESIDENTS OF NYSMATYC**

1967–1968	Herbert Gross	1992–1993	Richard Rupprecht
1968–1969	John Vadney	1993–1994	Judy Cain
1969–1970	John Vadney	1994–1995	Joan Page
1970–1971	Raymond McCartney	1995–1996	Frank Mandrey
1971–1972	John Walter	1996–1997	Kate Danforth
1972–1973	Harold Hackett	1997–1998	Maryann Justinger
1973–1974	Donald Cohen	1998–1999	Rick Patrick
1974–1975	Allyn Washington	1999–2000	Jane Tanner
1975–1976	Sam McInroy	2000–2001	Dona Boccio
1976–1977	Robert Burghardt	2001–2002	Beverly Broomell
1977–1978	Paul Earl	2002–2003	Maureen O’Grady
1978–1979	Allen Angel	2003–2004	MaryBeth Orrange
1979–1980	Gerald Lieblich	2004–2005	Jodi Cotten
1980–1981	Lawrence Trivieri	2005–2006	Jerilyn Fairman
1981–1982	Bruce Haney	2006-2007	Abe Mantell
1982–1983	Roy Cameron	2007-2008	George Hurlburt
1983–1984	Karl Klee	2008-2009	Sue Kutryb
1984–1985	Carol Kublin	2009-2010	Emad Alfar
1985–1986	Susan Forman	2010-2011	Tim Grosse
1986–1987	Gerald Smith	2011-2012	Ray LaBounty
1987–1988	Joseph Browne	2012-2013	Abe Mantell
1988–1989	Dan Dodway	2013-2014	Sophia Georgiakaki
1989–1990	Ernest Danforth	2014-2015	Russ Penner
1990–1991	Sadie Bragg	2015-2016	Larry Danforth
1991–1992	Leonard Malinowski	2016-2017	Josh Hammond

# Project ERNIE Class of 2017

## Enhancing Relationships to Nurture and Inspire Educators

Elizabeth Carris-Swan

Jason Furney

Elizabeth McGrath

Jodi Merklinger

Christine Quinn

John Rion

Crystal Varlaro

Patty Zabel

SUNY Orange

Onondaga Community College

SUNY Broome Community College

Finger Lakes Community College

Finger Lakes Community College

SUNY Orange

Morrisville State College

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 2017 class as the eighth cohort in Project ERNIE

# Upcoming Conferences

## NYSMATYC 2018 Annual Conference

April 13-15

Queensbury, NY

### **NYSMATYC**

- April 13 - 15, 2018: NYSMATYC Annual Conference @ Queensbury, NY
- April 11 - 13, 2019: NYSMATYC Annual Conference @ Corning, NY

### **NYSMATYC Fall Regionals, Fall 2017**

- Region I
- Region II
- Region III
- Region IV – Suffolk CC (date to be determined)

### **AMATYC**

- November 9 - 12, 2017: AMATYC Annual Conference @ San Diego, CA
- November 15-18, 2018: AMATYC Annual Conference @ Orlando, FL
- November 14 – 17, 2019 AMATYC Annual Conference @ Milwaukee, WI

### **MAA**

- 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**

- 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.

**43rd AMATYC Annual Conference**  
**San Diego, CA**  
**November 9-12, 2017**



Conference Theme: *Having a Prime Time*

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

Project ACCESS is a mentoring and professional development initiative for two-year college mathematics faculty sponsored by the American Mathematical Association of Two-Year Colleges (AMATYC). The goal of



Project ACCESS is to facilitate current and continued professional growth for a cadre of two-year college mathematics faculty who will become the leaders of their profession. Participating Fellows will gain knowledge of the culture and mission of the two-year college and its students, acquire familiarity with the scholarship of teaching, commit to continued growth in mathematics, and participate actively in professional communities.

Fellows will attend two consecutive AMATYC national meetings where they will participate in specially developed conference workshops as well as regular conference activities. In the intervening year, Fellows are required to attend an AMATYC Affiliate meeting, an MAA Section meeting or an NCTM Regional meeting near their home institution. For the duration of the project, an electronic network will link Project ACCESS Fellows with each other and with a group of distinguished mathematics educators. The development, implementation, and evaluation of a project will be a component of each Fellow's professional development experience. Project ACCESS has been in existence since 2004. A 14th cohort of Fellows will be selected in June of 2017 and will participate in the AMATYC conferences in 2017 and 2018.

**ELIGIBILITY:** Mathematics faculty for whom the 2017-2018 academic year will be their first, second or third year of their first full-time renewable position are invited to apply for the next Project ACCESS cycle. Fellows will be selected on the basis of breadth of interests, motivation for participation, plans for implementing project goals, interest in leadership and degree of institutional support. Approximately 24 Fellows will be selected.

**COST:** There is no fee for participation in AMATYC Project ACCESS itself. Attendance at the AMATYC Conferences in San Diego, California (November 2017) and Orlando, Florida (November 2018) is required. AMATYC will provide cohort members a complimentary membership in the organization and complimentary registration for those conferences. It is estimated that the total institutional commitment will be approximately \$2,000 spread over two fiscal years for lodging, travel and meals. AMATYC and the AMATYC Foundation will cover some expenses for selected Fellows to attend the AMATYC national conferences. Assurances of institutional support and eligibility are of critical importance in the acceptance process. Additional details about institutional funding commitments and application materials will be available at <http://www.amatyc.org/?ACCESS>

**TO APPLY:** Application materials will be available March 1st at <http://www.amatyc.org/?ACCESS>. The application deadline for Cohort 14 is May 15, 2017.

**Project Director:** Christy Hediger, Lehigh Carbon Community College, [chediger@lccc.edu](mailto:chediger@lccc.edu)





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Congratulations NYSMATYC on your 50<sup>th</sup> Annual Conference!



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New York State Mathematics  
Association of Two-Year Colleges