



New York State Mathematics
Association of Two-Year Colleges

56th Annual Conference
Best Western Plus Kingston
Kingston NY, April 12-14, 2024



Strength in Diversity

2023-2024 EXECUTIVE BOARD

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New York State Mathematics
Association of Two-Year Colleges



New York State Mathematics
Association of Two-Year Colleges

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Acknowledgements

The Executive Board of NYSMATYC wishes to thank the following colleges, companies and persons for supporting this conference, as well as support throughout the year with services and/or sponsorship of events.

A very special thank you to our sponsors



Vretta



TOP HAT



Thank you American Mathematical Association of Two-Year Colleges and Buffalo Educational Opportunity Center for conference supplies, stationary, swags and printing of the conference program.



Thank you to the Drajem's for their willingness to be the keynote presenters. (Don't forget to ask the Drajem's how they met Chris Yuen!)

Thank you, Abe Mantell, for running Math League Contest (for many years!)

Thank you, Mary Beth Orrange and Ray LaBounty, for coordinating Project ERNIE.

Thank you to the NYSMATYC Conference Planning Committee for their tireless work to make this conference a success.

Thank you, Best Western Plus Kingston, to the whole team of outstanding people. This conference could not have taken place with their generous help and guidance.



Most important of all, thank you to all participants and all who contributed to the conference. It took the whole village. YOU ARE ALL DEDICATED EDUCATORS. Cheers to you!

CITY OF KINGSTON

Office of the Mayor

mayor@kingston-ny.gov

Steven T. Noble
Mayor



April 2024

Dear Members of the NYSMATYC,

As Mayor of Kingston, I welcome the New York State Mathematics Association of Two-Year Colleges to our wonderful City. We were happy to host NYSMATYC back in 2004 and 2016, and it was great to hear that you were returning this year for your 56th annual conference. This event brings over one-hundred mathematics educators to our area, and I invite you to explore everything Kingston has to offer.

If you have time outside of the conference, I recommend you take a walk around our uptown Stockade district to see some fascinating historical sites, get a bite to eat at one of the many restaurants along Broadway in midtown, or perhaps spend some time downtown admiring our beautiful waterfront.

Thank you for choosing to visit Kingston. I hope the 56th NYSMATYC conference is a great success and that you get to take a moment to enjoy our terrific city.

Sincerely,



Steven T. Noble
Mayor

**From George Hurlburt
Corning Community College**

**Outstanding Contributions to
NYSMATYC Award Recipient (2019)**

**NYSMATYC Historian
NYSMATYC President (2017-18, 2007-08)**



Hello and welcome to the 2024 NYSMATYC Conference. My involvement in NYSMATYC has been among the most rewarding experiences in my career. I have attended nearly every NYSMATYC Conference since 2000, when I moved to NY. The presentations I attended during those years changed my philosophy as a teacher, from a traditional lecture to someone who makes active learning a part of every class. My favorite part of the conference is catching up with friends I have known for years, especially those who served on the board during my time as Secretary and through the President's cycle. My involvement in NYSMATYC led to serving AMATYC as Website Coordinator and now President. When I started with NYSMATYC 20+ years ago, I never envisioned it would lead me to such incredible experiences. I hope you enjoy the conference, learn something new, and come back again next year!

**From AJ Stachelek,
Northeast Vice-President
American Mathematical Association of Two-Year Colleges**



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of Two-Year Colleges**

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Phone: 901.333.5643
Fax: 901.333.5651
amatyc@amatyc.org
www.amatyc.org

Dear NYSMATYC Members,

My name is AJ Stachelek and I am the Northeast Regional Vice President of the American Mathematical Association of Two-Year Colleges (AMATYC). I am so excited to be here and get to participate in this amazing NYSMATYC Annual Conference with its timely theme of Strength in Diversity.

Looking across the various presentations, it's clear that NYSMATYC recognizes the changing landscape of mathematics education, as new technologies become available that simultaneously simplify and complicate teaching and learning. From online to AI, the need for support in adapting our teaching practices to include such changes becomes an imperative. Furthermore, recognizing the need to discuss issues of access, opportunity, and inclusion while navigating so many changes are paramount to the work of mathematics educators.

I am looking forward to the conversations that will occur across the next few days – I am very excited to have the opportunity to learn from all of you!

Lastly, I want to invite you to consider continuing these conversations with us at the 50th AMATYC Annual Conference: Mathematics on My Mind that will be held in Atlanta, Georgia from November 14 to November 17th. First time attendees get a \$50 discount that can be selected upon registration when it opens in August. Please also see me if you are interested in joining AMATYC as a member!

Best wishes to all!

~AJ

AJ Stachelek
Northeast Regional Vice President

From ...

Erin Newton
Onondaga Community College
Past President

Joe Bernat
Nassau Community College
President

Chris Yuen
SUNY Buffalo
President-Elect

Hello NYSMATYC Conference Attendees,

We are so happy to see you at our 56th annual conference this year. NYSMATYC is one of the oldest professional organizations in the Country and is a completely volunteer-run organization, even older than our national affiliate, AMATYC! As such, it is thanks to you and your colleagues that we get to host events like this.

During this busy weekend, please take a few moments to pause and talk to your peers. Our collective experience has taught us that the conversations surrounding the sessions are almost as informative as the sessions themselves.

With appreciation for your dedication and support,
Joe, Chris, Erin



From Your NYSMATYC Members-At-Large

Dear Conference Attendees,

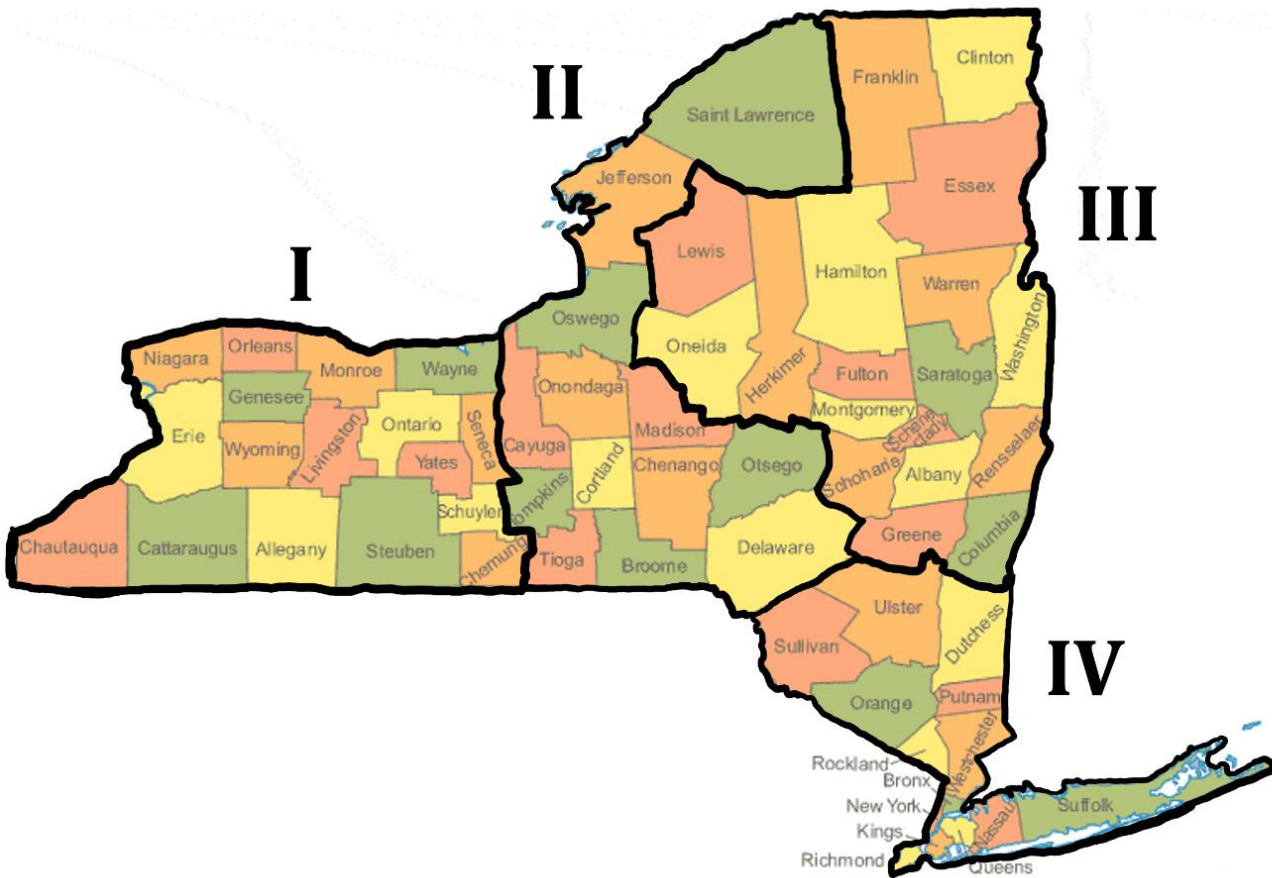
On behalf of NYSMATYC, it is our pleasure to extend a warm welcome to all attendees of the 2024 Annual Conference. We are thrilled to host this gathering of esteemed educators. The conference theme this year is Strength in Diversity. We encourage you to seize this opportunity to engage in meaningful conversations, share your insights and experiences with colleagues from across New York State. We have a robust program of workshops, Chat and Chew panel discussions, and keynote speakers to enrich your teaching practice. There is also time built in for socializing. We also hope you can relax, recharge and enjoy the camaraderie of your peers. It is great to have an in-person conference again!

Warm regards,

NYSMATYC Region Members-at-Large

Region I Brian Milleville
Region III Theresa Powers

Region II Beth Congdon
Region IV Liz Carris-Swan



Strength in Diversity

The Official Emblem of the 2024 NYSMATYC Annual Conference

We polled all presenters to describe “Strength in Diversity” in three words, and the Word Cloud below is the result. There is an interesting beverage choice in the Adirondack area of New York. Thank you to all who participated in this little social experiment. I hope you will find the collaborative emblem captures the true spirit of “Strength in Diversity” in our classroom and beyond.





Vretta

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Engaging e-Assessment and Learning Solutions for Student Success

Elevate My Math - Diagnostic tool for College Readiness & Success

James Howell

Saturday, April 13, 11:00 - 12:05 PM

Session 6B1 - Crown Street Salon

Numeracy is the ability to work competently and confidently with numbers, especially in practical contexts. Poor numeracy can have a disastrous impact on the workforce and the whole society, and research indicates that the economic impact of poor numeracy is in excess of \$80 billion in the United States. Likewise, research in Canada showed that about a third of college students were in danger of not completing their diplomas due to weak numeracy skills alone.

This presentation will provide an overview of a fully customizable formative assessment platform designed on the principles of assessment for learning, which comprises three components. Elevate My Math begins with a Diagnostic, where their proficiency in a math topic is determined by a short mini-test; next it assigns interactive simulations, providing students with a conceptual understanding of that topic. These upgrading lessons provide real-time feedback to guide the learners' progress. The aim is to take abstract mathematics concepts, break them down into smaller steps, and connect them to real-world applications and ideas.

Then a Summative Assessment allows students to demonstrate proficiency gained from the upgrading modules. If the student does not achieve the required cut score in the summative assessment, the platform will loop the students back to the formative upgrading modules before allowing them to retest, the looping feature follows the principles of mastery while adapting to the learner's strengths and weaknesses in math.

The presentation highlights practical applications of mathematics in everyday life. Using scenarios from a variety of professions, such as sales, nutrition, healthcare, marketing, and hospitality, prepares students to succeed in their chosen college path, while also giving them insights into other domains. The Elevate My Math tool has also found applications in transforming numeracy skills training of teacher candidates, and in helping small and medium enterprises to upskill their workforce.

For more information, please visit www.vretta.com.



Deeper connections. Powerful Teaching. Learning for All.

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At Lumen Learning, we believe a caring environment helps all students learn. And it starts with educators. So our easy-to-use toolset, including digital courseware, teaching resources, and professional development tools, give you what you need to build deeper connections with students.

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How We Support Educators

Courseware

- Tools to foster a strong faculty-student connection
- Relevant and engaging content
- Easy to access actionable insights
- Interactive e-text with immediate feedback
- LMS integration with Blackboard, Canvas, D2L/Brightspace, and Moodle

Professional Development

- Grounded in evidence-based teaching practices and self-reflection.
- Beneficial for any faculty member, in any discipline, and at any stage of career.
- Virtual Communities of Practice to connect faculty members with peers and help them hone their expertise as student-centered teachers.



SUNY and Lumen Learning Partners Together: What's in It For You?

Tori A. Matthews

Laura Murray

Friday, April 12, 3:10 - 3:45 PM
Session 531 - Crown Street Salon

SUNY and Lumen Learning have partnered together to offer the full suite of Lumen Learning courseware, professional development and integrated student success analyses to SUNY institutions at NO COST to faculty, staff, and students.

Come hear about the products offered through the partnership and how to access them. We will discuss the SUNY Ready-to-Adopt Digital courseware catalog, our Circles virtual professional development platform, current partnerships that we have with SUNY institutions where data derived through courseware is being used to monitor student success initiatives and how similar projects could be employed in your department and on your campuses.

All of our courseware seamlessly integrates into your LMS, comes with automatic grade return and first-class faculty and student support. Including initial adoption support, assistance with course organization and design and continued technical support. Let's discuss how this partnership can be of assistance to you.

For more information, please visit lumenlearning.com.



2-Hour Workshop

How 400+ Institutions Used AI to Migrate from
Legacy Publisher Homework Platforms to Edfinity,
Improving Learning Outcomes and Lowering Student Costs
Sid Grover

Friday, April 12, 1:00 - 3:10 PM
Session 512 - Wall Street Salon

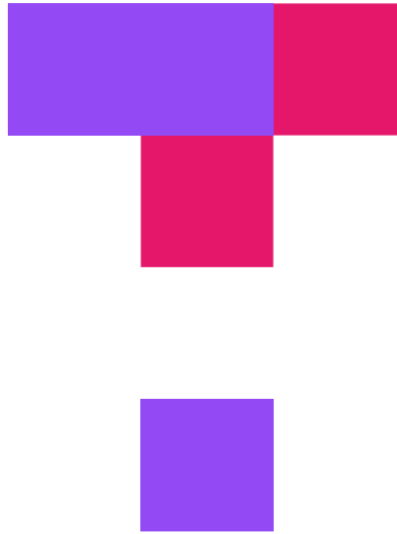
Sunday, April 14, 9:00 - 11:00 AM (Encore Session)
Session 793 - St. James & Fair Street Salon

Edfinity is a modern, textbook-independent homework platform, supported by the National Science Foundation. Over 400 institutions have migrated to Edfinity from legacy publisher platforms (MyLab, WebAssign, WileyPlus, Knewton, ALEKS), including Clemson, Indiana University, UNC-Chapel Hill, Oklahoma State, University of California, Arizona State University, and the University of Rhode Island.

Affordability Grants for Faculty

As a federally-funded organization, Edfinity's Affordability Grants fund faculty and graduate student time spent on migrating from legacy publisher platforms to Edfinity. Interested educators may browse edfinity.ai/grants and reach out to Sam Wilson (sam@edfinity.com).

For more information, please visit edfinity.com.



TOP HAT

Readiness: Addressing the Math Gap Across the Institution

Tom Kulesa

Saturday, April 13, 10:25 - 11:00 AM

Session 6A1 - Crown Street Salon

Students are coming to college without the prerequisite math skills they need to be successful and this isn't just a problem for the math department. Students' comfort with math can impact learning in any course area and take instructor time away from teaching what that class is really about. Join us for a demonstration of Top Hat's Aktiv Math Readiness Diagnostic and Personalized Study Plan where students can find and fill math knowledge gaps related to the course at hand, giving them the foundation they need to succeed.



What is Aktiv Mathematics?

- **Assess:** The Aktiv Readiness Diagnostic assesses each individual students' knowledge gaps of prerequisite math topics in any course across the curriculum. You can customize the learning objectives to meet the needs of your course.
- **Target:** Based on that diagnostic, each student is given a personalized study plan to work on only the learning objectives in which they struggled.
- **Learn:** Through productive practice, the study plan makes homework a more positive and productive experience helping students discover each step toward solving a problem is just as important as the solution itself.

For more information, please visit tophat.com.

56th NYSMATYC Annual Conference Program Summary

Friday, April 12, 2024

11 - 5 PM Hotel Lobby	Conference Registration		
11:45 - 1:00 PM Washington ²	Friday Lunch		
TIME	Crown Street Salon	Wall Street Salon	St. James & Fair Street Salon
1:00 - 1:30 PM		<u>2-Hour Workshop</u> How 400+ Institutions Used AI to Migrate from Legacy Publisher Homework Platforms to Edfinity, Improving Learning Outcomes and Lowering Student Costs <i>Sid Grover</i> 	Creating Custom Online OER Math Textbooks on the LibreTexts Platform <i>Paul Seeburger</i> Monroe CC 513
1:30 - 2:05 PM	Aviation and Mathematics <i>Chris Roethel</i> <i>Mahmood Pournazari</i> Nassau CC 511		Albert Einstein's Proof of the Pythagorean Theorem <i>Alex Atwood</i> <i>Vera Hu</i> Suffolk County CC 523
2:05 - 3:10 PM	Non-Classical Logics for Fun and Profit <i>Tim Biehler</i> Finger Lakes CC 521	Implementation and Scaling of College Level QR Corequisite Course: High Schools and CUNY Partnership <i>Yevgeniy Milman</i> <i>Lizza Weir</i> Borough of Manhattan CC 532	Improving Exam Feedback <i>Matthew Rogala</i> Westchester CC 533
3:10 - 3:45 PM	SUNY and Lumen Learning Partners Together: What's in It For You? <i>Tori A. Matthews</i> <i>Laura Murray</i>  531	Chat-N-Chew @ Washington Square <i>NYSMATYC Board Members</i> 54	
3:45 - 4:15 PM	Chat-N-Chew @ Washington Square <i>NYSMATYC Board Members</i> 54		533
3:45 - 4:50 PM Washington ²	Chat-N-Chew @ Washington Square <i>NYSMATYC Board Members</i> 54		54



Friday, April 12, 2024 (Continued)

4:50 - 5:45 PM Washington ²	<p>NYSMATYC at a Crossroad: A Discussion of the Organization's Future Direction</p> <p><i>Joe Bernat</i> <i>Josh Hammond</i> NYSMATYC</p> <p style="text-align: right;">55</p>
5:50 - 6:15 PM	NYSMATYC Executive Board Meeting - Stockade Salon
	Presenters and Volunteers Appreciation Cocktail Hour - Hotel Bar
6:30 - 8:30 PM Uptown Ballroom	<p>Friday Dinner - Winners Announced for Math League Contest, Scholarship, and NYSMATYC Awards Conference Group Photos</p>
8:30 - 10:00 PM Uptown Ballroom	<p>Game Up Your Math!</p> <p><i>Kathleen Offenholley</i> Borough of Manhattan CC</p> <p style="text-align: right;">58</p>

Saturday, April 13, 2024

8:00 - 8:45 AM Hotel Lobby	Gerry Lieblich Estimation Run/Walk		
8:40 - 9:50 AM Washington ²	Saturday Breakfast Buffet		
TIME	Crown Street Salon	Wall Street Salon	St. James & Fair Street Salon
9:50 - 10:25 AM	<p>Creating Effective Online Homework Problems for Algebra, Calculus, and Differential Equations</p> <p><i>Paul Seeburger</i> Monroe CC 691</p>	<p>Triangles and Tetrahedrons as an Alternative to Venn Diagrams in Analyzing Sets</p> <p><i>Frank Gardella</i> <i>Jaclyn Greco</i> Hunter College</p> <p style="text-align: right;">692</p>	<p>D2L: Tips, Tricks, and the Things I've Learned</p> <p><i>Erin Newton</i> Onondaga CC</p> <p style="text-align: right;">693</p>
10:25 - 11:00 AM	<p>Readiness: Addressing the Math Gap Across the Institution</p> <p><i>Tom Kulesa</i> TOP HAT 6A1</p>		

Saturday, April 13, 2024 (Continued)

TIME	Crown Street Salon	Wall Street Salon	St. James & Fair Street Salon
11:00 - 12:05 AM	<p>Elevate My Math - Diagnostic tool for College Readiness & Success</p> <p><i>James Howell</i></p>  <p>6B1</p>	<p>Enjoy the Struggle</p> <p><i>Margaret DeGaetano Tompkins</i> Cortland CC</p> <p>6B2</p>	<p>Integrating Technology into an Introductory Statistics Course</p> <p><i>Anabel Darini</i> Suffolk County CC</p> <p>6B3</p>
12:05 - 1:10 PM Washington ²	<p align="center">Saturday Lunch Winners Announced for the Gerry Lieblich Estimation Run</p>		
1:10 - 2:15 PM	<p>Introductory Statistics with Lumen Learning and the Dana Center</p> <p><i>Tori Matthews Bri Lyons Paul Golisch Tammi Perez-Rice</i></p>  <p>611</p>	<p>Some Thoughts about Having Students be More Successful with Trigonometry and the Beginnings of Calculus</p> <p><i>Frank J Gardella</i> Hunter College</p> <p>612</p>	<p>AI and Math Instruction A Pilot Study using Khanmigo</p> <p><i>Linda Lim Joel Glickman Bruce Sutphin</i> Hudson Valley CC</p> <p>613</p>
2:15 - 2:50 PM	<p>Drop by Drop... Filling Our Professional Development Buckets</p> <p><i>Brian Milleville David Usinski</i> SUNY Erie</p> <p>621</p>	<p>The Allure of Problem Solving!</p> <p><i>Satyanand Singh</i> NYC College of Technology</p> <p>622</p>	<p>Flying Air Taxi, Reality, or a Dream?</p> <p><i>Vladimir Przhebel'skiy Malgorzata Marciniak</i> LaGuardia CC</p> <p>623</p>
2:50 - 3:55 PM	<p>Boosting our Diverse Math Learners</p> <p><i>Lindsey Taube Sharon Powell</i> Herkimer County CC</p> <p>631</p>	<p>Inclusive Practices and Standards-Based Grading</p> <p><i>Carla DelTreste-Jutt</i> Dutchess CC</p> <p>632</p>	<p>What's New in CalcPlot3D? Interactive Visualizations for Calculus and Differential Equations</p> <p><i>Paul Seeburger</i> Monroe CC</p> <p>633</p>

Saturday, April 13, 2024 (Continued)

4:00 - 5:15 PM Washington ²	NYSMATYC Business Meeting See page 32 for the meeting agenda.
5:15 - 6:00 PM	NYSMATYC Executive Board Meeting - Stockade Salon
	Cocktail Hour - Hotel Bar
6:30 - 9:00 PM Uptown Ballroom	<p>Saturday Banquet Dinner</p> <p>Keynote Presentation Making Safety & Inclusion a Priority: Creating LGBTQ+ Inclusive Classrooms</p> <p><i>Linda Drajem, Buffalo State University</i> <i>Christopher Drajem, Cristo Rey Philadelphia High School</i></p>




LINDA DRAJEM is a retired teacher, having taught high school English for over 25 years in Buffalo Public Schools. After a late-life Ph.D. from the University at Buffalo, she taught for nine years in the English Education Department at Buffalo State College. A teacher at heart, she is a docent at the Burchfield Penney Art Center and a presenter on literary topics at local senior centers. She and her husband Bob live in Buffalo.

CHRISTOPHER DRAJEM is an educator and LGBTQ+ advocate. He has taught high school English, mostly in the Pacific Northwest, since 2000. Christopher currently lives in Philadelphia with his husband Patrick and their two children. He teaches high school English at Cristo Rey Philadelphia High School, and is an adjunct faculty member at the University of Pennsylvania.

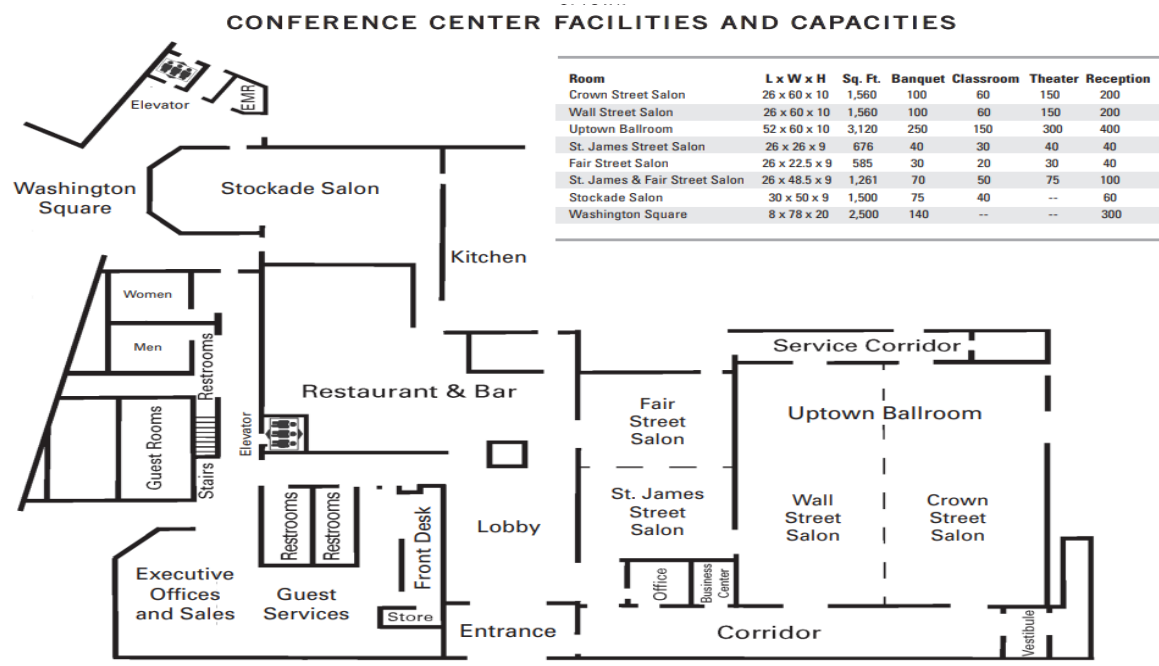
Linda and Christopher’s collaborative memoir is titled *Wandering Close to Home: A Gay Son and His Feminist Mother’s Journey to Transform Themselves and Their Family*.

The research is clear: students thrive when they feel safe at school, when they are supported by teachers, and when they understand that the climate of the school is accepting and validating of all students. Unfortunately, LGBTQ+ students too often feel marginalized, unseen and unsafe. In many areas of the country, the school environment has only gotten more hostile toward LGBTQ+ students and families in recent years, not better. Linda Drajem and Christopher Drajem are longtime educators who have devoted much of their careers to creating safe and inclusive classrooms at the high school and college levels, particularly for students who identify as members of the LGBTQ+ community. In this interactive presentation, they will share some practical strategies that they use in their classrooms to ensure that all students feel seen and respected, and make the case that safety at the college level is both a priority and achievable.

Sunday, April 14, 2024

8:00 - 8:55 AM Washington ²	Sunday Breakfast Buffet		
TIME	Crown Street Salon	Wall Street Salon	St. James & Fair Street Salon
9:00 - 10:05 AM	From Paper to Practice: How a 2000-Year-Old Algorithm Revolutionized Modern Technology <i>James Liporace</i> Rockland CC 791	Researching Sixty Years of Department History and Student Diversity <i>Patrick Wallach</i> Queensborough CC <i>Lori DiBella Wallach</i> Queens Memory 792	<p style="text-align: center;">2-Hour Workshop (Encore Session)</p> How 400+ Institutions Used AI to Migrate from Legacy Publisher Homework Platforms to Edfinity, Improving Learning Outcomes and Lowering Student Costs <p style="text-align: center;"><i>Sid Grover</i> </p>
10:05 - 10:50 AM	An Introduction to Gambling on Sports <i>Matt Matcovich</i> Rockland CC 7A1	Explore the Use of AI in the Classroom <i>Joe Bernat</i> Nassau CC 7A2	
10:50 - 11:00 AM			

Map of the Conference Site



2023 - 24 Scholarship Awards

Helen Siner Memorial Scholarship Award

Alejandro Chavarria, SUNY Broome

NYSMATYC Awards for Excellence in Mathematics

Jacob King, SUNY Jefferson

Rowan Hawk, SUNY Broome

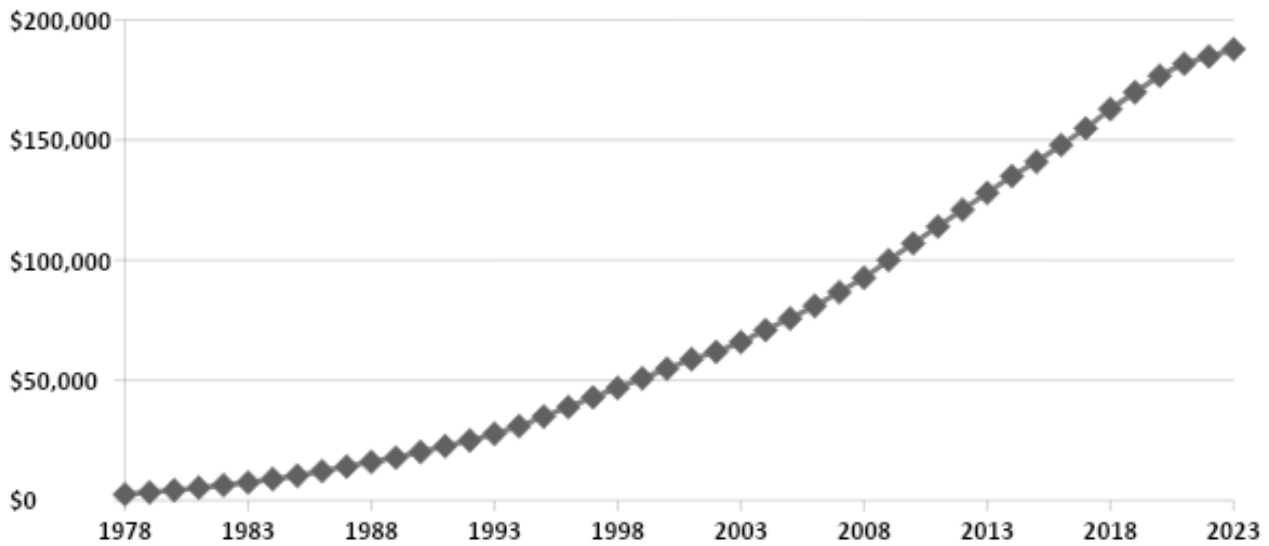
Eugene Scales, SUNY Broome

Jeremiah Phillips, SUNY Broome

Huzaifa Muhammad, Monroe CC

Connor Saxby, SUNY Broome

Scholarship Awards since 1978



Thank you to all of our scholarship donors for their continued support of the mission of NYSMATYC.

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. Over the past seven years, the efforts of Ernie Danforth and several other past board members have helped NYSMATYC to raise several thousand dollars in scholarship donations!

Helen Siner Memorial 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 NYSMATYC 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 Memorial 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.

46th NYSMATYC Annual Conference

Detailed Program - Friday, April 12, 2024

11:45 - 1:00 PM
Washington Square

Friday Lunch

1:00 - 3:10 PM
Session 512
Wall Street Salon

2-Hour Workshop by Edfinity

How 400+ institutions used AI to migrate from legacy publisher homework platforms to Edfinity, improving learning outcomes and lowering student costs

Presenter: Sid Grover
Presider: Chris Yuen



1:00 - 2:05 PM
Session 513
St. James & Fair
Street Salon

Creating Custom Online OER Math Textbooks on the LibreTexts Platform

Learn to customize OER textbooks for math courses on the LibreTexts platform! See examples from Calculus and Differential Equations. LibreTexts includes a WYSIWYG content editor to easily edit textbook content, using LaTeX for math. You can add your own examples, exercises and figures, and even embed interactive figures using GeoGebra.

Presenter: Paul Seeburger
Presider: Joseph Bernat

Monroe CC

1:30 - 2:05 PM
Session 511
Crown Street Salon

Aviation and Mathematics

A short look at the importance of mathematics in aviation including weight and balance, wind correction, navigation and GPS.

Presenters: Chris Roethel, Mahmood Pournazari
Presider: Chris Yuen

Nassau CC

2:05 - 3:10 PM
Session 521
Crown Street Salon

Non-Classical Logics for Fun and Profit

Logic is usually thought of as just one monolithic thing: the rules of reasoning to decide what's true and what's false, and never the twain shall meet. But there are alternatives to classical logic that allow for other possibilities. This talk will present some systems of alternative ("non-classical") logic, including both the hows of their operation and some whys of reasons, both philosophical and practical, to be interested in them.

Presenter: Tim Biehler
Presider: Brian Milleville

Finger Lakes CC

Detailed Program - Friday, April 12, 2024 (Continued)

2:05 - 3:10 PM
Session 523
St. James & Fair
Street Salon

Albert Einstein's Proof of the Pythagorean Theorem

As a boy, the physicist Albert Einstein formulated a very interesting proof of the Pythagorean Theorem. Einstein's proof relies on geometrical symmetry and it is brief, subtle, deep, and original. The connections between Einstein's proof and his subsequent discoveries in physics will be examined.

Presenters: Alex Atwood, Vera Hu
Presider: Joseph Bernat

Suffolk County CC

3:10 - 3:45 PM
Session 531
Crown Street Salon

SUNY and Lumen Learning Partners Together: What's in It For You?

SUNY and Lumen Learning have partnered together to offer the full suite of Lumen Learning courseware, professional development and integrated student success analyses to SUNY institutions at NO COST to faculty, staff, and students.

Presenter: Tori A. Matthews, Laura Murray
Presider: Josh Hammond

LUMEN LEARNING

3:10 - 3:45 PM
Session 532
Wall Street Salon

Implementation and Scaling of College Level QR Corequisite Course: High Schools and CUNY Partnership

In this presentation we will discuss the implementation of college-level corequisite QR course at several High Schools. Scaling, outcomes, and current developments will be outlined.

Presenters: Yevgeniy Milman, Lizza Weir
Presider: Kathleen Offenholley

Borough of Manhattan CC

3:10 - 4:15 PM
Session 533
St. James & Fair
Street Salon

Improving Exam Feedback

Giving feedback that helps students improve can be challenging. The presenter will discuss some of these challenges and share a strategy they use to overcome them to help students get more out of their assessments.

Presenter: Matthew Rogala
Presider: Lindsey Taube

Westchester CC

3:45 - 4:50 PM
Session 54
Washington Square

Chat-N-Chew

Chat-N-Chew has been a tradition of NYSMATYC annual conferences in which participants drive the topics and discussions of their choices for meaningful chats, while NYSMATYC provides the chew. Several round tables are set up, and participants are encouraged to travel among the tables.

Moderators: Alex Atwood, Brian Milleville

NYSMATYC

Detailed Program - Friday, April 12, 2024 (Continued)

4:50 - 5:45 PM
Session 55
Washington Square

NYSMATYC at a Crossroad: A Discussion of the Organization's Future Direction

Moderators: Joe Bernat, Josh Hammond

NYSMATYC

5:50 - 6:15 PM
Stockade Salon

NYSMATYC Executive Board Meeting

5:50 - 6:25 PM
Hotel Bar

Presenters and Volunteers Appreciation Cocktail Hour

6:30 - 8:30 PM
Uptown Ballroom

Friday Dinner - *Winners Announced for Math League Contest, Scholarship, and NYSMATYC Awards* Conference Group Photo Session

8:30 - 10:00 PM
Session 58
Uptown Ballroom

Game Up Your Math!

“Do you wish your students would stay engaged? Participate more? Understand more?” In this highly interactive session, participants will discover how a touch of game elements can dramatically change classroom dynamics. You will experience great classroom games you can use and change one or two lessons to incorporate game elements.

Presenter: Kathleen Offenholley
Presider: Josh Hammond

Borough of Manhattan CC

Detailed Program - Saturday, April 13, 2024

8:00 - 8:45 AM
Hotel Lobby

Gerry Lieblich Estimation Run/Walk

Meet up with Joe Bernat at the hotel lobby.

8:40 - 9:50 AM
Washington Square

Saturday Breakfast Buffet

9:50 - 10:25 AM
Session 691
Crown Street Salon

Creating Effective Online Homework Problems for Algebra, Calculus, and Differential Equations

Online homework helps students spend more time practicing math, but are we assigning pedagogically well-designed problems that help students truly learn the mathematics? This presentation covers a series of problems created or adapted using WeBWork, many with intermediate steps or conceptual components, and discusses ways to improve online homework problems.

Presenter: Paul Seeburger
Presider: Joseph Bernat

Monroe CC

Detailed Program - Saturday, April 13, 2024 (Continued)

9:50 - 11:00 AM
Session 692
Wall Street Salon

Triangles and Tetrahedrons as an Alternative to Venn Diagrams in Analyzing Sets

This session will have participants use of triangles and tetrahedrons as an alternative to Venn Diagrams to analyze sets. The participants will construct a physical model of the analysis of 4 sets through the use of tetrahedrons, an analysis not easily accessible in a classroom with Venn Diagrams.

Presenters: Frank Gardella, Jaclyn Greco
Presider: Chris Yuen

Hunter College

9:50 - 11:00 AM
Session 693
St. James & Fair
Street Salon

D2L: Tips, Tricks, and the Things I've Learned

New to using D2L? Are you a pro and have some great ideas to share? Bring your laptop and join this working session to hear some tips, tricks, and things that have been learned over the past two years as we have transitioned to the D2L platform.

Presenter: Erin Newton
Presider: Lindsey Taube

Onondaga CC

10:25 - 11:00 AM
Session 6A1
Crown Street Salon

Readiness: Addressing the Math Gap Across the Institution_

Across the curriculum students are entering college lacking the math skills they need to succeed. In this session you will see how Aktiv's Readiness Diagnostic and Personalized Study plan helps students remediate knowledge gaps and get up to speed while instructors gain valuable insights into each student's progress and process.

Presenter: Tom Kulesa
Presider: Joseph Bernat

TOP HAT

11:00 - 12:05 PM
Session 6B1
Crown Street Salon

Elevate My Math - Diagnostic tool for College Readiness & Success

A captivating lecture on the Elevate My Math tool, showcasing its functionality, advantages, and applications.

Presenter: James Howell
Presider: Joseph Bernat

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11:00 - 12:05 PM
Session 6B2
Wall Street Salon

Enjoy the Struggle

Enjoy the struggle. In this fun workshop you will take part in an array of games and activities designed to train teachers, tutors, and co-workers to be sensitive to some of the difficulties that people may be coping with and come up with inventive strategies to overcome those barriers.

Presenter: Margaret DeGaetano
Presider: Josh Hammond

Tompkins Courtland CC

Detailed Program - Saturday, April 13, 2024 (Continued)

11:00 - 12:05 PM
Session 6B3
St. James & Fair
Street Salon

Integrating Technology into an Introductory Statistics Course

In today's world, technology is necessary for any type of statistical analyses. While we want our students to leave our classroom prepared for the outside world, most introductory statistics classes are taught in a traditional lecture classroom, making it difficult to integrate technology into the course. This talk will discuss how instructors can take advantage of what is readily available to students to perform statistical calculations, leaving time for more conceptual questions.

Presenter: Anabel Darini
Presider: Brian Milleville

Suffolk County CC

12:05 - 1:10 PM
Washington Square

Saturday Lunch

Winners Announced for the Gerry Lieblich Estimation Run

1:10 - 2:15 PM
Session 611
Crown Street Salon

Introductory Statistics with Lumen Learning and the Dana Center

Lumen One Introductory Statistics is a college-level introductory statistics course built in partnership with The Dana Center at UT Austin. The course is organized around broad statistical concepts and intended to serve students pursuing careers in business, allied health, nursing, and the social and behavioral sciences.

LUMEN LEARNING

Presenters: Tori Matthews, Bri Lyons, Paul Golisch, Tammi Perez-Rice
Presider: Erin Newton

1:10 - 2:15 PM
Session 612
Wall Street Salon

Some Thoughts about Having Students be More Successful with Trigonometry and the Beginnings of Calculus

Trigonometry and calculus are many times the stops in the mathematical development of many students. This session will focus on some ideas for beginning the study of these areas that are 'somewhat different' than the norm.

Presenter: Frank J Gardella
Presider: Chris Yuen

Hunter College

1:10 - 2:15 PM
Session 613
St. James & Fair
Street Salon

AI and Math Instruction - A Pilot Study using Khanmigo

During the Fall 2023 semester, two faculty members at Hudson Valley Community College did a short pilot study using the AI learning tool Khanmigo with some of their math sections to aid the students' learning. This presentation will discuss how Khanmigo was chosen, the challenges in getting the project started, and an overview of the results, including student responses to a qualitative survey.

Presenters: Linda Lim, Joel Glickman, Bruce Sutphin
Presider: Colleen Stevens

Hudson Valley CC

Detailed Program - Saturday, April 13, 2024 (Continued)

2:15 - 2:50 PM
Session 621
Crown Street Salon

Drop by Drop...Filling Our Professional Development Buckets

Brian and Dave will be taking a trip down memory lane to summarize important things we've picked up from NYSMATYC since our involvement started in 2010. Some topics originated from presentations, others from networking. We intend to share impacts on our teaching, on our college, and also some of the impact we have hopefully made.

Presenters: Brian Milleville, David Usinski
Presenter: Erin Newton

SUNY Erie

2:15 - 2:50 PM
Session 622
Wall Street Salon

The Allure of Problem Solving!

In this presentation, we illustrate and solve tantalizing mathematics problems with elementary solutions that appeal to both students and faculty. The problems are in the fields of algebra, geometry and calculus, and are easily accessible to students and provide impetus to delve deeper into mathematics and its applications.

Presenters: Satyanand Singh
Presenter: Chris Yuen

NYC College of Technology

2:15 - 2:50 PM
Session 623
St. James & Fair
Street Salon

Flying Air Taxi, Reality, or a Dream?

The calculations are presented for a hovering drone. The project could be performed with elementary skills while using software e-calc. It can be performed on precalculus level. On the level of Calculus 2 the project uses blade element momentum theory and the Simple Vortex Theory Inflow (for the propellers' interactions).

Presenters: Vladimir Przhebelskiy, Malgorzata Marciniak
Presenter: Colleen Stevens

LaGuardia CC

2:50 - 3:55 PM
Session 631
Crown Street Salon

Boosting our Diverse Math Learners

Looking to share ideas about how to boost your math students academically? Join Lindsey and Sharon as they share how they collaborate to help their Intermediate Algebra students set academic goals, improve math and noncognitive skills, and grow as confident learners. It takes a village!

Presenters: Lindsey Taube, Sharon Powell
Presenter: Chris Yuen

Herkimer County CC

Detailed Program - Saturday, April 13, 2024 (Continued)

2:50 - 3:55 PM
Session 632
Wall Street Salon

Inclusive Practices and Standards-Based Grading

In this session inclusive pedagogical practices and standards-based grading will be presented. Inclusive practices include any strategies that help to encourage a sense of belonging and provide clarity to course expectations. Standards-based grading is the practice of linking student learning outcomes to grades earned in the course. While this will be presented in the context of a teacher prep math course, this is for any instructor who is interested in incorporating more DEI practices into their teaching.

Presenter: Carla DeiTreste-Jutt
Presenter: Erin Newton

Dutchess CC

2:50 - 3:55 PM
Session 633
St. James & Fair
Street Salon

What's New in CalcPlot3D? Interactive Visualizations for Calculus and Differential Equations

Come learn about CalcPlot3D, an online tool for learning multivariable calculus, and explore some of its new features, including Taylor polynomials, GIF generation, 3D-printing contour plots, and demonstrating cylindrical and spherical coordinates. In addition to CalcPlot3D, a variety of visualization tools will be demonstrated for differential equations and single-variable calculus.

Presenter: Paul Seeburger
Presenter: Colleen Stevens

Monroe CC

4:00 - 5:15 PM
Washington Square

NYSMATYC Business Meeting

See **page 32** for the meeting agenda.

5:15 - 6:00 PM
Stockade Salon

NYSMATYC Executive Board Meeting

5:15 - 6:00 PM
Hotel Bar

Cocktail Hour

6:30 - 9:00 PM
Uptown Ballroom

Saturday Banquet Dinner and Keynote Presentation

Making Safety & Inclusion a Priority: Creating LGBTQ+ Inclusive Classrooms

Presenters: Linda Drajem
Christopher Drajem

Buffalo State University

Cristo Rey Philadelphia High School

Detailed Program - Sunday, April 14, 2024

8:00 - 8:55 AM
Washington Square

Sunday Breakfast Buffet

9:00 - 10:05 AM
Session 791
Crown Street Salon

From Paper to Practice: How a 2000-Year-Old Algorithm Revolutionized Modern Technology

This presentation explores Euclid's algorithm's journey from ancient Greece to its crucial role in RSA encryption, safeguarding digital communications. Ideal for enthusiasts in mathematics, cryptography, and digital security, it highlights the timeless impact of classical mathematics on modern technological advancements.

Presenter: James Liporace
Presider: Brian Milleville

Rockland CC

9:00 - 10:05 AM
Session 792
Wall Street Salon

Researching Sixty Years of Department History and Student Diversity

This presentation details the results of a project that used oral histories of retired faculty to preserve the history of the mathematics department and the students it served. These interviews tell the diverse stories of the faculty along with sixty years of curriculum change and the varying demographics of students.

Presenter: Patrick Wallach
Lori DiBella Wallach
Presider: Josh Hammond

Queensborough CC
Queens Memory

9:00 - 11:00 AM
Session 793
St James & Fair
Street Salon

2-Hour Workshop by Edfinity

Encore Session

How 400+ institutions used AI to migrate from legacy publisher homework platforms to Edfinity, improving learning outcomes and lowering student costs

Presenter: Sid Grover
Presider: Chris Yuen



10:05 - 10:50 AM
Session 7A1
Crown Street Salon

An Introduction to Gambling on Sports

More than 35 billion dollars have been gambled since New York allowed online sports wagering in January 2022. This has been of some interest to students, and this presentation will be an introduction to the math of gambling. Interesting applications of proportional reasoning, probability, and expected value will be discussed.

Presenter: Matt Matcovich
Presider: Chris Yuen

Rockland CC

Detailed Program - Sunday, April 14, 2024 (Continued)

10:05 - 10:50 AM
Session 7A2
Wall Street Salon

Explore the Use of AI in the Classroom

Participants will explore some Artificial Intelligence (AI) programs currently available and discuss the impact these AI programs may have on our classrooms, institutions, and the field of education. The audience is encouraged to bring their device to the session.

Presenter: Joe Bernat
Presenter: Josh Hammond

Nassau CC



Project ERNIE

Enhancing Relationships to Nurture and Inspire Educators

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, second, and third year of teaching mathematics at the two-year level are selected to participate. The project has been dormant since 2020. NYSMATYC is looking for individuals to volunteer to relaunch Project ERNIE in 2025 or 2026.

For more information, please contact one of the current NYSMATYC executive board members.

2024 NYSMATYC Business Meeting Agenda

Saturday, April 13, 2024

1. President's Report – Joe Bernat
2. Approval of Minutes of April 09, 2022 – Lindsey Taube
3. Treasurer's Report – Josh Hammond
4. Elections Report – Erin Newton
5. Committee Reports
 - a. Audit – Regional Members at Large
 - b. Awards – Erin Newton
 - c. Communications – Colleen Stevens
 - d. Professional Development – Alex Atwood
 - e. Scholarship – Liz McGrath
 - f. Region Members at Large – Brian Milleville (I), Beth Congdon (II), Theresa Powers (III), Liz Carris-Swan (IV)
6. Other Business
 - a. NYSMATYC at a Crossroad take-aways - Josh Hammond and Joe Bernat
 - b. NYSMATYC Representation to Other Organizations
 - AMATYC – George Hurlburt
 - AMTNYS – TBA
 - NCTM – TBA
 - MAA Metro – Abe Mantell and/or Satyanand Singh
 - MAA Seaway – TBA
 - c. 2024 Conference Report – Chris Yuen
 - d. Math League Report – Abe Mantell
7. New Business
 - a. Appointments – Joe Bernat
 - b. Upcoming Conferences – Erin Newton
 - 2025 – March 29th and 30th, Radisson Hotel, Corning – Region I
8. Raffles
9. Adjournment

Outstanding Contributions to Mathematics Education

The purpose of this award is to recognize members of NYSMATYC who have made significant contributions to mathematics education beyond the campus of the individual. Nominees for this award should be active members in various mathematics and mathematics education organizations on both the state and national levels. Significant contributions may be on either the state or the national level, but some activity is expected on both levels. These contributions may include publications, presentations at conferences, committee work on both the state and/or national levels, and involvement in mathematics organizations.

Activities which may be considered by the awards committee include, but are not limited to:

- **Curriculum Development.** This category includes the creation of new curriculum or significant alteration of an existing curriculum for a course or program.
- **Pedagogical Improvement:** This category could include presentations made at state and national meetings; securing and implementing grants which are directed at improving instruction in mathematics or mathematics education; or researching new techniques to teach mathematics.
- **Publications.** Authoring textbooks or articles will be considered in this category. The committee will give greater consideration to refereed articles in journals than to textbooks, unless the textbook is breaking new ground in an area of curriculum or pedagogy in mathematics.
- **Coalition Building.** Mathematics education must be considered a unified effort of mathematics educators from kindergarten through college. An individual's efforts to build unity in a structure which is frequently seen as composed of disjoint sets should have these efforts considered for this award. Working to build connections between professional organizations on the state and national level to better promote mathematics education are to be considered.
- **Teaching Expertise.** Documentation in the form of letters of recommendation from students, colleagues, and administrators may be included to support the teaching effectiveness of the individual.
- **Departmental Leadership.** Documentation in the form of letters of recommendation from colleagues and administrators may be included to support the supervisory effectiveness of the individual relative to his/her role as Department Chair or Coordinator of Mathematics.

Note: This award cannot be received more than once.

**Outstanding Contributions to Mathematics Education
List of Award Recipients**

1972	George Pedwick	Executive Director of CU
	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

The purpose of this award is to recognize individuals who have made significant contributions to NYSMATYC.

These contributions may include, but are not limited to, the following:

- Coordinating, assisting, presenting, or presiding at annual or regional meetings
- Serving as committee chair or elected officer on the Executive Board
- Service as Campus Representative
- Service as Mathematics League Coordinator
- Representing or promoting NYSMATYC with other organizations or groups

Since NYSMATYC also presents the annual President's Award, the three-year commitment of the President of NYSMATYC shall not be considered a factor in the determination of this award.

Note: This award cannot be received more than once.

List of Award Recipients

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
2016	Herbert Gross	Corning Community College
2018	Richard Moscatelli	Nassau Community College
2019	George Hurlburt	Corning Community College

Past Presidents of NYSMATYC

1967 - 1968	Herbert Gross	1968 - 1969	John Vadney
1969 - 1970	John Vadney	1970 - 1971	Raymond McCartney
1971 - 1972	John Walter	1972 - 1973	Harold Hackett
1973 - 1974	Donald Cohen	1974 - 1975	Allyn Washington
1975 - 1976	Sam McInroy	1976 - 1977	Robert Burghardt
1977 - 1978	Paul Earl	1978 - 1979	Allen Angel
1979 - 1980	Gerald Lieblich	1980 - 1981	Lawrence Trivieri
1981 - 1982	Bruce Haney	1982 - 1983	Roy Cameron
1983 - 1984	Karl Klee	1984 - 1985	Carol Kublin
1985 - 1986	Susan Forman	1986 - 1987	Gerald Smith
1987 - 1988	Joseph Browne	1988 - 1989	Dan Dodway
1989 - 1990	Ernest Danforth	1990 - 1991	Sadie Bragg
1991 - 1992	Leonard Malinowski	1992 - 1993	Richard Rupprecht
1993 - 1994	Judy Cain	1994 - 1995	Joan Page
1995 - 1996	Frank Mandrey	1996 - 1997	Kate Danforth
1997 - 1998	Maryann Justinger	1998 - 1999	Rick Patrick
1999 - 2000	Jane Tanner	2000 - 2001	Dona Boccio
2001 - 2002	Beverly Broomell	2002 - 2003	Maureen O'Grady
2003 - 2004	Mary Beth Orrange	2004 - 2005	Jodi Cotten
2005 - 2006	Jerilyn Fairman	2006 - 2007	Abe Mantell
2007 - 2008	George Hurlburt	2008 - 2009	Sue Kutryb
2009 - 2010	Emad Alfar	2010 - 2011	Tim Grosse
2011 - 2012	Ray LaBounty	2012 - 2013	Abe Mantell
2013 - 2014	Sophia Georgiakaki	2014 - 2015	Russ Penner
2015 - 2016	Larry Danforth	2016 - 2017	Josh Hammond
2017 - 2018	George Hurlburt	2018 - 2019	Chris Kemp
2019 - 2020	Julie Croteau	2020 - 2021	Jayashree Hurlburt
2021 - 2022	Patty Owens	2022 - 2023	Erin Newton
2023 - 2024	Joseph Bernat		

Strength in Diversity



New York State Mathematics
Association of Two-Year Colleges

56th Annual Conference
Best Western Plus Kingston
Kingston NY, April 12-14, 2024