State University of New York College at Old Westbury

Presents
The Thirty-Fourth Annual



Long Island Mathematics Conference

### **Catalyzing Change**

A Step Towards Improving Math Teaching and Learning

Friday, March 13, 2020 – 7:45 A.M. to 2:35 P.M.

at SUNY College at Old Westbury, Campus Center



#### **Co-sponsored by:**

The Nassau County Mathematics Teachers' Association

The Suffolk County Mathematics Teachers' Association

The Nassau County Association of Mathematics Supervisors

The Association of Teachers of Mathematics of New York City

To register go to: www.limathconference.org

**LIMAÇON**, designed for mathematics educators from primary through university level, provides opportunities for professional interactions and offers a forum for the exchange of concerns, innovative ideas, and achievable goals. This year's conference theme is: *Catalyzing Change: A Step Towards Improving Mathematics Teaching and Learning in Our Schools.* 

The **keynote speaker** is **Dr. Robert Q. Berry III**, president of National Council of Teachers of Mathematics (NCTM) and professor at the University of Virginia.

The *Catalyzing Change* series focuses on key recommendations for school mathematics. These recommendations include (1) Defining the purpose of school math, (2) Equitable structures focused on the principles of access, equity, and empowerment, (3) Equitable instruction focused on NCTM's math teaching framework, and (4) Essential concepts focused on the big mathematical ideas across school math.

<b>Session A</b> (10:30 – 11:20)	<b>Session B</b> (11:35 – 12:25)	<b>Session C</b> (12:40 – 1:30)	<b>Session D</b> (1:45 – 2:35)
1. Activities-Fluency-Mastery	16. Number and Numeration	26. Number Sense and Lines	36. Math Excellence/Pedagogy
Makoto Yoshida	Carole Mulligan	Linda Burke	S. Jefferson-Isaac, Y. Vidal
2. Math Movement	17. <b>BEST™ Method - Prob. Sol.</b>	27. Flipgrids, Quizizz, Quizlets	37. Catalyzing Change
Jessica Ryan	Natasha Murray	Meridyth Hansen	Nicholas Restivo
3. Working with Bar Models	18. Scratch, Art, and Math	28. Linear Functions	38. <b>TEACH not TELL the Math</b>
Laura Liepa	Alice Braick	Benjamin Allen	Rudy Neufeld, Jorge Moore
4. Change the Language	19. The Anarchy Club	29. <b>Combinations with a Twist</b>	39. <b>Two-Color Counter Exper.</b>
Todd Lindbloom, Kurt Whited	Joe Quinn	Marion Hutchinson	Bill Farber
5. <b>Algebra for Middle Grades</b>	20. Support Struggling Students	30. Lessons for Understanding	40. Teaching Gifted/Honors
Frank Gardella	Danielle Valentini	Soowook Lee	Soowook Lee
6. Gradeless Math Classroom	21. Gems of Geometry	31. Prob. Sol., Alg, & Geom. (1)	41. Power of Breakout EDU
Andrew Burnett	John Maus	Paul Schwiegerling	Nancy Lin
7. <b>TI-84 Strategies for CST</b>	22. Cool Limit Problems	32. Geom. Knowledge Building	42. Keys to Regents Success
Gerald Haber	Tom Beatini	Peter Hayes	Dana Morse
8. Sparking Curiosity - Desmos	23. Manipulatives in Math	33. Controversial Facts in Math	43. Prob. Sol., Alg, & Geom. (2)
Terence Fitzgibbon	Jon DeLise	Mike Riccardo	Paul Schwiegerling
9. Geom., Alg. and Technology	24. Coaching Cognitive Demand	34. Engagement Strategies	44. Mass Point Geometry
Amy Longo, John Watson	Jeanne Shimizu	Mindy LiBassi	Ronald Cavallaro
10. <b>A Financial Math Course</b>	25. Math Modeling Pedagogy	35. What is a Good Teacher	45. Discovery Learning Math
Michelle Sugrim	Hoyun Cho	Kathleen Maiorini	Kimberly Dwyer
11. Solving AMC Problems Lihong Cheng	7:45 - 8:30 CHECK-IN, CONTINENTAL BREAKFAST		46. Symmetries with i Frank Sanacory
12. Calculus with CAS	8:45 - 9:15 INTRO by L.I. Mat	:45 - 9:15 INTRO by L.I. Mathematics Conference Board and	
Ken Collins	DR. JONG PIL LE	DR. JONG PIL LEE Scholarship Awardees	
13. Solving Problems to Learn Jamar Pickreign	9:15 - 10:15 KEYNOTE ADDR	ESS by <b>Dr. Robert Q. Berry III</b>	48. History of Math Brian Evans
14. <b>Mult. &amp; Divide Fractions</b> Elliott Bird	in the New Acaden	in the New Academic Building)	
15. Preparing Lesson Plans Audrey Bellovin	7:45 - 1:45 EXHIBITOR BOO	- 1:45 EXHIBITOR BOOTHS AVAILABLE	

	SESSION A 10:30 11:20 (S	Select three sessions from numbers 1 - 15)	
1	From Activities & Games to Fluency & Mastery	Makoto Yoshida (K-2)	AMTNJ
	Hands-on workshop. Learn how to engage students in a meaningful	practice of math facts that lead to long-las	ting mastery and fluency.
2.	Math Movement!	Jessica Ryan (2-5)	Lynbrook SD/Molloy College
	If you are looking for how to integrate multisensory activities into y	our math block, look no further! This worl	kshop focuses on how to engage students
3	Solving Problems with Bar Models	NCE main. Leure Liene (3-5)	Seeford Harbor School
5	This workshop will cover the methodology and rationale for using h	ar models to solve a variety of word probl	ems Participants will learn practical
	strategies for helping their students use the bar modeling techniques	effectively.	enis. I articipants will learn practical
4	Leave the Math. Change the Language	Todd Lindbloom & Kurt Whited (K-8)	Pearson
	Learn ways to invite every student to the table with language strateg	ties that lower the barrier to access. These	strategies are based on research from
	NCTM and the Council of Great City schools ELL framework.		C .
5.	Algebra for the Middle Grades	Frank Gardella (6-8)	Hunter College – CUNY
	An accurate sequence of algebraic topics through the middle grades	could have students ready for an Algebra	1 course while having developed a deep
,	understanding of the topics before addressing the formalism of Alge	bra.	
6	A Gradeless Math Classroom in a School that Requires Grades	Andrew Burnett (6-12)	FA Day Middle School - Newton, MA
	change your students' focus from grades to understanding the mater	fal. I will take you through the steps that I	have used for the past three years to make
7	TI 84 Strategies for the Math CST	Gerald Haber (7-12)	St John's University
	If you are having difficulty passing the CST and are not proficient w	with the TI 84, this workshop will give you	some additional strategies for the test. A
	TI 83+ or 84 is required.		
8	Sparking Curiosity with Desmos	Terence Fitzgibbon (9-12)	Chaminade H.S.
	The Desmos platform offers an environment for crafting rich mathematical	matical experiences. BYOD and learn how	to leverage this powerful, free
	technology. The session focuses on H.S. content, but the principles a	apply across all levels.	
9.	. Geometry, Algebra and Technology - They Do Work Together	Amy Longo & John Watson (9-12)	Wantagh Public Schools
	Geometry and technology go hand in hand to make the material "rea	al". Various apps and websites will be expl	ored, and participants will leave with
10	ideas to use in the classroom the next day.	M'aballa 6 and a (0.12) D	Tabala Fal Calles HC
10.	Creating a Financial Math Literacy Course	Michelle Sugrim (9-12) Bi	usiness Technology Early College H S
	payroll taxes financial decision making avoid applications and car	ueas for a Financial Math Literacy class. I	opic and projects will include budgeting,
11	Strategies in Solving AMC Problems	Lihong Cheng (9-12)	Glen Cove High School
	Solving AMC 8-12 problems can be challenging. Proper strategies y	will help students to solve the problems and	d raise the interest in participation.
12	Using CAS to Help Students Understand Calculus Theorems	Ken Collins (9-College)	Charlotte Latin School
	CAS can provide an environment where students can explore the co	mponents of a conceptual problem or theo	rem and receive immediate feedback on
	their conjectures. We will share examples using these ideas with cla	ssroom ready documents.	
13	Solving Problems to Learn, Not Learning to Solve Problems	Jamar Pickreign (General)	SUNY Plattsburgh
	Examine and discuss the role of problem solving in learning. Partici	pants will have opportunity to try a variety	of problems and discuss their
14	Multiplying and Dividing Exactions Meaningfully	Elliott Bird (Conoral)	Long Island University CW Post
14	Balancing concents and procedures students can become fraction fl	LINOU DIFU (General) uent Make connections from multiplicatic	Long Island University - C.W. Post
	multiplication and division of fractions in a sense-making way. We'	ll discuss how.	in and division of whole numbers to
15.	Preparing a Lesson Plan	Audrey Bellovin (Pre-service)	Hemlock School, Garden City
	Lesson plan is an important part of teaching and learning. Learn ho	w to prepare a lesson plan that includes the	e most important elements: what students
	need to know, understand and are able to do as a result of your instru-	uction.	
	<b>SESSION B 11:35 - 12:25</b> (S	elect three sessions from numbers 16 - 24)	)
16	Number and Numeration	Carole Mulligan (PreK-K)	NYU, retired
	This workshop will allow participants to revisit the components of n	number & numeration through the lens of a	child centered instructional approach.
17	. The BEST <sup>TM</sup> Method for Problem Solving	Natasha Murray (3-8)	University of Pennsylvania
	Come learn about the BEST method for problem solving, how it wo	rks, and how to teach it to your students.	
18	The Interface of Scratch Programming, Art, and Mathematics	Alise Braick (6-8)	18 392
	A tour of a comprehensive standard-based unit plan that integrates c	ooting with mathematics and art. Walk awa	ay with lesson plans, assessments,
10	The Anarchy Club	Ioo Quinn (6-8)	Founder of Hypothesis
17	I'll share a lesson that teaches infinite cardinality from fundamental	principles using full-body games	Founder of Hypothesis
20.	Strategies to Support Struggling Learners in Regents Courses	Danielle Valentini (6-12)	Herricks High School
	Regents coursework has become more rigorous. Students enter our o	classrooms with a wide range of abilities. S	Strategies include differentiated
	instruction, scaffolding techniques, organizers. Alg 1, Geometry, Al	g 2 & MS teachers will benefit.	C .
21	. Gems of Geometry	John Maus (9-12)	North Shore High School
	This session will explore different components of a geometry lesson	that you can use to help students in their j	ourney to understanding.
22.	Using "Cool Problems" to Explore Limits of Sequences	Tom Beatini (9-College)	Union City Public Schools
	Do sequences have to end? Using free online software, let's explore	problems where sequences can model rea	I-world phenomena. See how multiple
23	Manipulatives in the Math Class	Ion Del ise (General)	Fordham University
23	Let's take the edge off of math! See how hands on activities help de	velon mathematical concents and motivate	learning of mathematics Materials
	consist of inexpensive, everyday household items.	erep mathematical concepts and motivate	commis of mationatios. Materials
24	Math Literacy: What is the Meaning of "Carry the 1"?	Jeanne Shimizu (General Elem.)	SUNY College at Old Westbury
	We spend much energy learning "the steps" in math. By examining	arithmetic algorithms-both standard and n	on-standardusing the lens of multiple
	representations, participants will explore connections and develop n	neaning(s) for "the steps."	с , , , , , , , , , , , , , , , , , , ,
25.	representations, participants will explore connections and develop n Meaningful Math Modeling Project in a Pedagogy Course	neaning(s) for "the steps." Hoyun Cho (Pre-service)	Capital University
25.	representations, participants will explore connections and develop n Meaningful Math Modeling Project in a Pedagogy Course Preservice math teachers do not easily understand Modeling with M	neaning(s) for "the steps." Hoyun Cho (Pre-service) athematics. I have created the project, Thr	Capital University ee Act Math Task, that helps my

SESSION C 12:40 - 1	:30 (Select three sessions from numbers 25 - 3	3)
26. Building Number Sense Through the Use of Number L	nes Linda Burke (K-5)	Garden City UFSD
Number lines can be powerful tools that help your students	develop number sense. This workshop will explo	ore a variety of ways to use number lines in
your classroom as a model for mathematical learning. 27 Flingrids Ouizizz and Ouizlets Oh My!	Meridyth Hansen (3-8)	Haunnauge School District
Enhance engagement and learning through the integration	of tech tools like flipgrid, quizizz, quizlet, and oth	ers. BYOD and interact with these
platforms and others to see what you could start using in y	our classroom right away.	
28. Linear Functions Workshop	Benjamin Allen (6-8)	NYC DOE - MS 137
This workshop will present a discovery-style task where st guided through a set of guestions encouraging reflection of	udents graph linear equations to create a map of a	Brooklyn neighborhood, and are then
<b>29.</b> Combinations with a Twist	Marion Hutchinson (6-8)	ABGS Middle
Participants will explore and discover exciting ways to del	ve into the wealth of information connected to but	ger restaurants to solidify the concept of
creating one of a kind burgers, with endless possibilities.		
<b>30. Creating Lessons for Understanding</b>	Soowook Lee (9-12)	Roslyn High School / ICPS
31. Problem Solving, Algebra & Geometry - Part I	Paul Schwiegerling (9-12)	Buffalo State College
This workshop is designed to help faculty become better p	roblem solvers and pass these techniques on to the	eir students. Faculty are encouraged to
collaborate and share useful thoughts and insight.		
32. Geometry = Projects & Knowledge Building	Peter Hayes (9-12)	Institute for Creative Problem Solving
33. The 12 Most Controversial Facts in Mathematics	Mike Riccardo (6-College)	Bayside HS/Math for America
Do you want to start an argument? Try telling somebody the	hat $.999 = 1$ or that if there are 23 people in your	office that there is a 50% chance that two
of you share the same birth date. These and other facts will	be discussed.	
<b>34. Engagement Strategies:</b> Coop. Learning is NOT Group	<b>Work</b> Mindy LiBassi (General) ming Studies show that group work is NOT an ef	Western Suffolk BOCES
one of the most effective ways to increase student engagen	ning. Studies show that group work is NOT an er nent and achievement.	lective tool for instruction, but true CE is
35. What Makes A Good Teacher? Answered by the "Expo	erts" Kathleen Maiorini (Pre-service)	Hauppauge High School
Practical information for new teachers about classroom ma	nagement, establishing routines and creating relat	ionships. Tips will be presented along with
feedback from those who are "experts" in being in a classr	oom all day - the students.	_
SESSION D 1:45 - 2	:35 (Select three sessions from numbers 34 - 47	
<b>36.</b> Mathematical Excellence and Culturally Responsive Period	dagogy S. Jefferson-Isaac & Y. Vidal (K-5)	Northern Parkway School
37. Catalyzing Change by Solving Real (and Interesting) P	roblems Nicholas Restivo (3-5)	MOEMS
Generate excitement and interest in problem solving. Ener	gize and enrich your curriculum by encouraging st	tudents to take risks in solving problems.
38. Multiple Ways to TEACH the Math, not TELL the Alg	orithm Rudy Neufeld & Jorge Moore (K-8)	Understanding Math/Thames Schools
39 The Two-Color Counter Experiment	y online, on paper, with manipulatives and reinfor <b>Bill Farber (6-8)</b>	Ced with games.
This workshop will feature interactive learning experience	s designed to be consistent with both CCLS in Ma	th and the Next Generation Science
Standards. The activities will help participants disseminate	ideas for concretization of math and scientific pri	inciples in the classroom.
40. Teaching a Gifted/Honors Class	Soowook Lee (6-12)	Roslyn High School / ICPS
to approach such classes and examine successful models to	follow	ems. In this workshop, we will discuss now
41. Discover the Power of Breakout EDU	Nancy Lin (7-10)	Nassau BOCES, S/CDN
Experience an Algebra 1 physical breakout that ignites you	r natural drive to problem-solve. Solve puzzles to	figure out lock combinations. Escape
games combine kinesthetic learning, teamwork & critical t	hinking into a format students love.	Toxos Instruments
Prepare your students, and their TI graphing calculators, for	r success on their high stakes exams. Take a deen	er dive into the technology your students
are required to use. Build math confidence and improve sc	pres.	
43. Problem Solving, Algebra & Geometry - Part II	Paul Schwiegerling (9-12)	Buffalo State College
This workshop is designed to help faculty become better p	roblem solvers and pass these techniques on to the	err students. Faculty are encouraged to
44. Mass Point Geometry	Ronald Cavallaro (9-12)	Mollov College
Introduction to Mass Points as applied to Geometry. Come	join the fun and learn how to solve the most diffi	cult problems in high school geometry most
easily. If you have never seen or done it, you'll wish you h		
45. Discovery Learning from Geometry to Calculus	ave. Now's your chance.	
	ave. Now's your chance. <b>Kimberly Dwyer (9-12)</b> mos to get every student involved in your high sol	Syosset High School
Geometry and AP Calculus will be illustrated and shared v	ave. Now's your chance. <b>Kimberly Dwyer (9-12)</b> mos to get every student involved in your high sci vith attendees.	Syosset High School hool math classroom. Specific examples for
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### **Directions to SUNY College at Old Westbury**

**BY CAR:** SUNY College at Old Westbury is located immediately north of the Long Island Expressway (495) in the Village of Old Westbury, Long Island, approximately 30 miles east of New York City.

The main entrance to the College is located on the west side of Route 107 approximately one-half mile north of Jericho Turnpike.

**BY TRAIN:** The Long Island Railroad stops at the Hicksville station. Train schedule and route information are available from the LIRR, 516-822-LIRR. Bus service is available to and from the Hicksville station Monday through Friday. Bus schedule information may be obtained from the MTA Info Center, 516-222-1000.

**BY BUS:** The College is accessible by bus via MTA bus route N20, which travels between Main Street, Flushing and the Hicksville railroad station along Northern Boulevard and Route 107. The bus connects with other MTA buses at various connecting points along Northern Boulevard and elsewhere. Call the MTA Information Center (number above) for schedule and additional route information.

To register go to: www.limathconference.org



When using a GPS device please make sure that it takes you to the main entrance off route 107.

## **Cost of Conference**

Fee includes Continental Breakfast and Luncheon

Payment Options Choose one that applies

- **\$50** for members of one of the following ATMNYC, NCAMS, NCMTA, SCMTA
- \$60 for nonmembers
- **\$25** for full-time students
- **\$10** additional fee for signing up on Conference day (cash or check only)

# At the website you can select your preferred payment method

Credit Card via Eventbrite

School Purchase Order (PO)

# Lunch Menu

- #51 Chef Salad (no ham)
- #52 Vegan/gluten free platter baby spinach with roasted vegetables)
- #53 Tuna Salad
- #54 Egg Salad
- #55 Chicken Salad

All Salads are served on a bed of romaine lettuce with additional toppings available.