

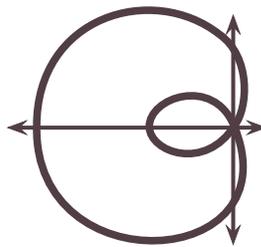
State University of New York College at Old Westbury

Presents

The Thirty-Seventh Annual

LIMAÇON

Long Island Mathematics Conference



Co-sponsored by:

The Nassau County Mathematics Teachers' Association

The Nassau County Association of Mathematics Supervisors

The Association of Teachers of Mathematics of New York City

Why do Many Children Hate Math and How Can We Fix it?

Friday, March 17, 2023 - 7:45 A.M. to 2:35 P.M.

at SUNY Old Westbury, Campus Center

To register go to:

<https://limathconference.org/register/>

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: *Why do Many Children Hate Math and How Can We Fix it?*

The **keynote speaker** is **Dr. Irina Lyublinskaya**, professor at Teachers College, Columbia University

"I hate math", "math is too hard" – these statements have become so common among our students. In our society mathematics gained a reputation of a subject that is hated by many students. Why do so many students dislike math? What can we do to help our students see mathematics as fun and as a fulfilling and rewarding activity? That is the focus of this year's Limaçon keynote presentation.

Learn how to help your students to change their perceptions of mathematics from "hate" to "love".

Session A (10:30 – 11:20)	Session B (11:35 – 12:25)	Session C (12:40 – 1:30)	Session D (1:45 – 2:35)
1. Eradicate Math Anxiety Robert Sun/Jennifer King	13. Closing Gaps-Measurement Marianne Strayton	21. Math & Art are Connected Toni Gamils	29. Affinity for Numbers Yoshinao Anpuku
2. Arts + Tech + Math = Steam Irina Lyublinskaya	14. Binomial Cubes C. Walsh	22. Measurement, Money, Math Patty Mueller	30. SEL: Mathematics Jocelyn Dunnack
3. Free GeoGebra Resources Robert Pontecorvo	15. Hands-On Activities Jon DeLise	23. Digital Math Escape Room Amy Longo	31. TI Graphing Calculators Dana Morse
4. Get More Math System Josh Britton	16. Video & Tabletop Games Charalambos (Harry) Loizides	24. Professional Development Markinson, Berger & Dharma	32. Positive Class Environment Ana Mojocoa
5. Will you be Beanboozled? Mara, Justin, Taylor & Lauren	17. Google Sheet for Math Paul Pelech	25. Use Games/Puzzles in Class Adam Brulhardt	33. Desmos Classroom Lisa Clark
6. Hands-On Activities Jon DeLise	18. Cryptocurrencies Math Anthony Murray	26. Limits of Sequences Tom Beatini	34. Extend Forgotten Topics Soowook Lee
7. Do Nows Done Better Robert Gerver	19. Advanced Alg. with Finance Robert Gerver	27. Lessons for Understanding Soowook Lee	35. Origami and the Square Helen Rodney
8. Look Ma, No Calculator Alvar Garcia-Fernández	20. Make Teaching a Profession Caryl Lorandini	28. Using Gimkit Michael Collins	36. Implementing Standards Blidi Stemm
9. Cutting into Cones et al Robert Andersen	7:45 - 8:30 CHECK-IN, CONTINENTAL BREAKFAST		37. Family Engagement in Math Adam Brulhardt
10. Financial Applications Philip Dituri/Andrew Davidson	8:45 - 9:15 INTRO by L.I. Mathematics Conference Board and DR. JONG PIL LEE Scholarship Awardees		38. Differentiated Instruction Bruce Waldner
11. Collaboration is Key Toni Gamils	9:15 - 10:15 KEYNOTE ADDRESS by Dr. Irina Lyublinskaya		
12. First Year Survival Kit Paul Pelech	10:30 - 2:35 SESSIONS A-D see schedule (all presentations held in the New Academic Building)		
	Sealed Box LUNCHEON during either session B or C		
	7:45 - 1:45 EXHIBITOR BOOTHS AVAILABLE		

SESSION A 10:30 -- 11:20 (Select three sessions from numbers 1 - 12)

- 1. Learn the Root Cause of Math Anxiety & How to Eradicate it** Robert Sun, Jennifer Kling (K-8) Suntex International, Inc
We will discuss why students have math anxiety, how an anxious mind is not able to solve even the simplest problem. We'll discuss how we can help children become more confident and successful by allowing them to practice math.
- 2. Arts + Technology + Math = STEAM ahead!** Irina Lyublinskaya (3-5) Teachers College, Columbia University
Participants will engage in hands-on experiences with open-source technology to explore how art materials and processes can be integrated into mathematics to create lessons in which students explore symmetry and geometric transformations.
- 3. Free Open Middle Resources in GeoGebra** Robert Pontecorvo (3-12) Consultant
Attendees will learn how to use free GeoGebra Community Created Open Middle resources to differentiate and personalize instruction and promote a student-centered learning experience.
- 4. Break the Math Forgetting Cycle with Get More Math** Josh Britton (3-12) Get More Math
By the end of the year, students have already forgotten many of their hard-won math concepts. How can we make it stick? Josh Britton will share his 20-year journey, proven model, and Get More Math system for driving long-term retention.
- 5. Will You be "Beanboozled"?** Markinson, Halper, Hannaberry, Renna (6-12) CUNY Queens College
This innovative lesson uses a popular and FUN game to develop the concepts of geometric probability and conditional probability. Participants will experience the lesson and leave with ready-to-use materials for teaching probability.
- 6. Motivational Hands-On Activities** Jon DeLise (9-12) Fordham University
A presentation of a variety of hands-on activities that can be used to develop math concepts using inexpensive items that are easily obtainable. Activities can be adapted to all grade levels.
- 7. Do Nows Done Better: 15 Categories of 5-Minute Warm-Ups** Robert Gerver (9-12) North Shore HS, retired/ICPS
Get all math classes off to a punctual, purposeful 5-minute start with quizzes, foreign textbooks, manipulatives, Find and Fix, What's the Problem? explorations, Notebook Scavenger Hunt, Partner Problems, Remember and Rethink, and more.
- 8. Look Ma, No Calculator** Alvar Garcia-Fernández (9-College) Nassau Community College
We will discuss the use of Computer Algebra Systems in general and Jupyter Notebooks in particular for teaching in today's Mathematics classroom. See why Pythonic Math is the wave of the future in Mathematics education! (BYO laptop)
- 9. Cutting into Cones and Other Things** Robert Andersen (9-College) Stony Brook University
We use free 3D graphing software to see the intersections of planes with cones, show that they are what we say they are. Then try the intersections of other 3D surfaces and see what we get.
- 10. Centering a Math Curriculum on Financial Applications** Philip Dituri & Andrew Davidson (9-College) Financial Life Cycle Ed.
Do you want to incorporate meaningful applications of math into your curriculum? Finance is an application all students value. Learn how to create a coherent high school math course that teaches the central precepts of personal finance.
- 11. Collaboration is Key** Toni Gamils (General) Westchester Teacher Center
Educators cannot expect students to learn how to work in groups simply by putting them in groups. Teaching students the skill of collaboration at a young age is KEY. Enjoy a fun interactive workshop.
- 12. How to Survive your First Year as a Math Teacher** Paul Pelech (Pre-Service) Westbury High School
Learn what it takes to be at your best during your first year of teaching mathematics from a veteran educator turned supervisor. This hands-on workshop will help you to acquire the skills needed that are not typically taught.

SESSION B 11:35 - 12:25 (Select three sessions from numbers 13 - 20)

- 13. Closing Gaps & Creating Access Thru Measurement Contexts** Marianne Strayton (K-2) Clarkstown CSD
See how measurement tools & contexts can create rich tasks that are accessible for all students while they simultaneously create opportunities to address learning gaps.
- 14. Binomial Cubes: Moving from the Concrete to the Abstract** C. Walsh (3-12) NYC DOE/Brooklyn
Binomials can be physically represented! Construct & deconstruct an expression with manipulatives that guide students to self-correct. Students can discover and solidify content knowledge. Lesson can be modified for language needs also.
- 15. Motivational Hands-On Activities** Jon DeLise (6-8) Fordham University
A presentation of a variety of hands-on activities that can be used to develop math concepts using inexpensive items that are easily obtainable. Activities can be adapted to all grade levels.
- 16. Utilizing Video & Tabletop Games in Math Classrooms** Charalambos (Harry) Loizides (6-12) Locust Valley CSD
This workshop will showcase various examples of utilizing various video games and tabletop games to demonstrate & master numerous mathematical topics. Examples range from 5-minute Warm Up activities to multi-day Project-Based opportunities.
- 17. Using Google Sheets for Real-World Mathematics** Paul Pelech (6-College) Westbury High School
Motivate and engage students using Google Sheets to provide students real-world mathematics instruction. Bring your favorite device to participate in this hands-on workshop.
- 18. Cryptocurrencies-A Mathematical Approach** Anthony Murray (9-College) Freeport Public Schools
This workshop will explore the basic terminology and history associated with cryptocurrency. Participants will take a dive into the science of how digital "assets" are secured by cryptography and exchanged on a blockchain network.
- 19. Advanced Algebra with Finance: A Core Course for Strugglers** Robert Gerver (9-12) North Shore HS/retired/ICPS
For struggling students, Algebra 2 is a daunting task. This course, an algebra 2 alternative, covers banking, credit, insurance, income taxes, etc., using topics from Alg 2, prob/stat, and precalc, all with an algebra 1 prerequisite.
- 20. Making Teaching Your Profession** Caryl Lorandini (General) Carle Place MSHS
It is important to make teaching a career not just a job. Teaching has many dimensions, and oftentimes it's easy to get stressed out. Learn about setting professional goals which help to keep us in check and lead to self-improvement.

SESSION C 12:40 - 1:30 (Select three sessions from numbers 21 - 28)

- 21. Math and Art are Connected** **Toni Gamils (K-8)** **Westchester Teacher Center**
Today, there is more and more information available that shows how CRUCIAL arts integration is creating well-rounded, well-prepared learners and leaders. Have fun in this "hands on" workshop connecting mathematics and art.
- 22. Measurement, Money, and Math: Putting the M in STEM** **Patty Mueller/Kelly Hogan (3-5)** **Westbury SD/ East Quogue SD**
Does the M in STEM always mean Math? What about measurement or money? Participants will engage in measurement and budgeting STEM activities that can be implemented in their own classrooms to instill wonder and creativity in their students.
- 23. Make a Digital Math Escape Room** **Amy Longo (6-8)** **Wantagh UFSD**
Participants will learn to use Google Sites and Google Slides to make their own Escape Rooms and Choice Boards for math lessons, review, or testing. Examples and directions will be shared. Participants should bring a laptop for practice.
- 24. Mathematics Teacher Professional Development in NYS** **Markinson, Berger, Dharma (6-12)** **Queens College, CUNY**
A discussion of preliminary results of a study of mathematics teacher professional development in NY State.
- 25. Using Games and Puzzles to Teach Mathematics** **Adam Brulhardt (6-College)** **NYC DOE/Brooklyn Institute of Arts**
We will look at how to gamify topics in secondary mathematics. When incorporating logic into puzzles, we promote mathematical problem-solving practices while practicing content in ways that challenge students' understanding of equivalence.
- 26. Using "Cool Problems" to Explore Limits of Sequences** **Tom Beatini (9-12)** **Union City Public Schools**
Do sequences have to end? Using free online software, let's explore problems where sequences can model real-world phenomena. See how multiple algebraic representations can be used to promote a deeper understanding of limits.
- 27. Creating Lessons for Understanding-Calculus** **Soowook Lee (9-College)** **Roslyn High School**
We will discuss how we can present several topics in calculus more understandable ways. Topics include Taylor series, L'Hopital's rule, motion problems, product rule, and so on.
- 28. Using Gimkit to Take Student Engagement to Another Level** **Michael Collins (General)** **Babylon Jr/Sr High School**
Gimkit is the most exciting educational tool I have used in my career. I would show how to maximize this product. I would demonstrate all of the games, (there are many) how to utilize the item shop, and how to use the class reports.

SESSION D 1:45 - 2:35 (Select three sessions from numbers 29 - 38)

- 29. Developing an Affinity for Numbers with Puzzles** **Yoshinao Anpuku (3-5)** **Nikoli Co., Ltd**
Puzzle workshop by Nikoli Puzzle Master. With 40 years of creating logic puzzles and spreading Sudoku around the world, Nikoli introduces popular Japanese Number Puzzles. Yoshi travels and teaches puzzles to children in schools in the US.
- 30. SEL: What's Math Got to Do With It** **Jocelyn Dunnack (3-12)** **CPM Educational Program**
Strengthen SEL with the Social Emotional and Academic Development (SEAD) themes. Engage in a math task, and connect the themes with the Standards for Mathematical Practice to promote a safe, equitable, mathematical classroom.
- 31. Everything you didn't know about TI Graphing Calculators** **Dana Morse (6-12)** **Texas Instruments**
Do more than just +, -, ×, and ÷ with your graphing calculators. In this session, we take a deep dive into the features of the TI graphing calculators and explore the hidden functionality. Implement the tips immediately into your classroom.
- 32. Plant and Cultivate a Positive Classroom Environment SEED** **Ana Mojocoa (6-12)** **Elmont Memorial High School**
This workshop will advise early service educators on how to create a productive, supportive and safe classroom environment, ideally, at the beginning of a school year. Activity ideas and demonstrations will be shared.
- 33. Desmos Classroom** **Lisa Clark (6-12)** **Molloy University**
Learn how to use the Desmos Activities Builder Website. You will learn how to use the website with your students and learn how to make and modify creative interactive lessons. Using Desmos activities in your class allows your students to discover and apply math concepts. Participants should have a laptop.
- 34. Forgotten Topics and their Extensions** **Soowook Lee (9-12)** **Roslyn High School**
As curriculum changes, there are several topics that have been removed from previous curriculums. These topics are great additions and help develop deeper understanding in current topics. Topics: logic, locus, polar coordinates, so on.
- 35. Using Origami to Discover the Properties of a Square** **Helen Rodney (General)** **AMTNYS**
We will use the ancient art of Japanese paper folding (origami) to discover and prove the properties of a square. After we examine the properties of a square, we will make two origami models.
- 36. Implementing the Standards for Mathematical Practices** **Blidi Stemm (General)** **SUNY Old Westbury**
In this session participants will examine instructional routines as a vehicle for developing the Standard for Mathematics Practices as they engage with rich mathematics tasks. Ways to assess these practices will also be explored.
- 37. Family Engagement in Mathematics** **Adam Brulhardt (General)** **Hunter College NYC DOE**
How do we partner with families to improve math achievement of students? We look to barriers, such as math anxiety, that promote the cycle of disengagement. Several strategies are proposed to bolster how we engage with families about math.
- 38. Differentiated Instruction in a Math Class** **Bruce Waldner (General)** **Farmingdale State College**
Just as everyone has a unique fingerprint, every student has an individual learning style. Not all students grasp a subject in the same way or share the same level of ability. Try Differentiation!

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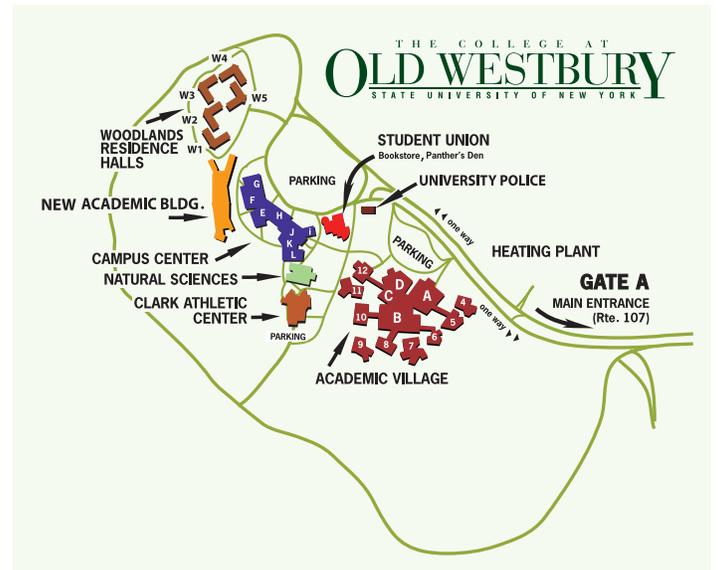
Directions to SUNY College at Old Westbury

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:

<https://limathconference.org/register/>

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, or NCMTA

\$60 for nonmembers

\$25 for full-time students

There is a \$10 additional fee to sign up on the day of the Conference

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 meals will be served in a sealed lunch box along with additional condiments