

The Mathematics and Computer Information Sciences Department  
 State University of New York College at Old Westbury

*Presents*

The Thirty-First Annual

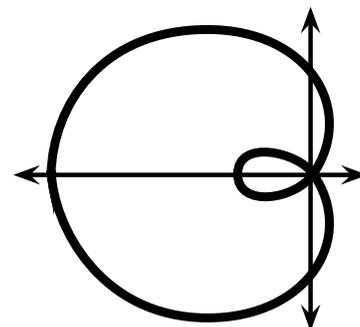
# LIMAÇON

Long Island Mathematics Conference

Turning Principles into Positive Actions

Friday, March 17, 2017, From 7:45 A.M. to 2:35 P.M.

at SUNY College at Old Westbury, Campus Center



**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, *Turning Principles into Positive Actions* focuses on moving from an emphasis on skills and fact recall to improved problem solving and reasoning abilities.

The **keynote speaker** is **Dr. Diane J. Briars**, immediate past president of the National Council of Teachers of Mathematics (NCTM).

Dr. Briars' keynote address will be followed by a daylong series of workshops focused on mathematics education, pedagogy, and problem solving. Participants can expect sessions to provide ideas, techniques, and skills that will improve teaching and content effectiveness, and energize their classrooms.

QUESTIONS? Contact Ronni David: 516-359-2794 (MathRonni@cs.com) or Mimi Schnier, 516-876-3261

This year, the only way to register for the conference is by using our on-line site

<http://www.limathconference.org>

The cost for the conference, which includes a Continental Breakfast and Lunch, is:

- \$50 for ATMNYC, NCAMS, NCMTA, or SCMTA members
- \$60 for non-members
- \$25 for full-time students

On-site Registration will be accepted on a limited basis for a \$10 additional fee.



LIMAÇON - Long Island Mathematics Conference  
Friday, March 17, 2017  
SUNY College at Old Westbury

Mail P.O. to  
Mr. A. Kalish  
Limaçon Conference  
SUNY College at Old Westbury  
Box 210  
Old Westbury, NY 11568-0210

Payable to: L.I. Math Conference Board

Name \_\_\_\_\_

School/Affiliation \_\_\_\_\_

**SCHEDULE FOR THE LONG ISLAND MATHEMATICS CONFERENCE**

- 7:45 - 8:30 CHECK-IN, CONTINENTAL BREAKFAST and EXHIBITOR BOOTHS (Campus Center)
- 8:45 - 9:15 INTRODUCTION by L.I. Mathematics Conference Board
- 9:15 - 10:15 KEYNOTE ADDRESS by **Dr. Diane J. Briars**  
**Mathematics education consultant and Math Director for Pittsburgh Schools**
- 10:30 - 2:35 SESSIONS A-D see schedule (all presentations held in the New Academic Building)
- BUFFET LUNCHEON during either session B or C
- 7:45 - 1:45 EXHIBITOR BOOTHS AVAILABLE

**Lunch Menu**

- #51 Chef Salad (no ham)
- #52 Vegan/gluten free platter (baby spinach with roasted vegetables)

Individual lunch platters include:

romaine lettuce, cucumber, tomato, carrot sticks, new potato salad, string bean salad, and either

- #53 Tuna Salad
- #54 Egg Salad
- #55 Chicken Salad

Write the workshop number for your first, second, and third choice for each session.  
For the B or C session you must also write the lunch number.

**Session A** (10:30 – 11:20) 1<sup>st</sup> Choice \_\_\_\_\_ 2<sup>nd</sup> Choice \_\_\_\_\_ 3<sup>rd</sup> Choice \_\_\_\_\_  
Workshops 1 – 15

**Session B or C** 1<sup>st</sup> Choice \_\_\_\_\_ 2<sup>nd</sup> Choice \_\_\_\_\_ 3<sup>rd</sup> Choice \_\_\_\_\_ **Lunch Choice** \_\_\_\_\_  
Session B (11:35 – 12:25) Workshops 16 – 25  
Session C (12:40 – 1:30) Workshops 26 – 35

**Session D** (1:45 – 2:35) 1<sup>st</sup> Choice \_\_\_\_\_ 2<sup>nd</sup> Choice \_\_\_\_\_ 3<sup>rd</sup> Choice \_\_\_\_\_  
Workshops 36 – 50

**SESSION A 10:30-11:20** (Select three workshops from numbers 1 - 15)

- 1 P is for Place Value!** **Mrs. Lisa Minerva** **K-4** **East Williston-North Side**  
Location, location, location! Digits are amazing! We only have 10 but we can use them to build any number in the world. Explore hands on activities to engage your students with understanding place value.
- 2 Fun with Fluency** **Mrs. Suzanne Golder** **K-4** **Malverne/NCMTA Pres.**  
Do your students need to practice their math facts? Centers, 5 minutes of classroom drills, and whole group activities that practice addition, subtraction, multiplication or division will be demonstrated.
- 3 Teaching Fractions: Conceptual Understanding** **Mr. David Hurst** **3-5** **AMTNYS President**  
This session will examine the progression of fractions in the Common Core Learning Standards. We will explore the language and focus of the standards and the use of resources to help students meet rigorous expectations.
- 4 Math and Technology: It's How We Connect** **Ms. Amy Longo** **5-8** **Wantagh Middle School**  
Participants will be exposed to technology to assist with instruction in the classroom and formative assessment. Participants will leave the workshop with ideas that can be implemented the next day.
- 5 Multiplying and Dividing Fractions Meaningfully** **Dr. Elliott Bird** **5-8** **LIU, CW Post**  
Balancing concepts and procedures, students become fraction fluent. Link multiplication and division of fractions with whole number operations to make it happen, always in a sense-making way. We'll discuss how.
- 6 The Leprechaun and other Problems** **Mr. Jim Matthews** **5-8** **Siena College**  
The Leprechaun Problem and others are great for motivating and challenging students.
- 7 Intervention strategies for strugglers in MS** **Dr. Irina Lyublinskaya** **5-8** **College of Staten Island**  
Students struggling with mathematics need interventions that prevent mathematics difficulties. Participants will learn specific recommendations to address the needs of these students through focused interventions.
- 8 TANGRAMS...more than just a puzzle!** **Mrs. Grace Quinlan** **5-8** **NCMTA**  
Using the Tangram, we will problem solve, enhance spatial reasoning, and work with fractions. Fun will be had by all!
- 9 A Mathematical Surprise in Probability** **Ms. Laurie Bass** **9-12** **Ethical Culture-Fieldston**  
We will explore a classic probability problem to find an astonishing result. We will also see what happened when Johnny Carson grappled with this problem on The Tonight Show.
- 10 3D Printing in the Mathematics Classroom** **Dr. Elana Reiser** **9-12** **St. Joseph's College**  
We will see how to incorporate 3D printing into our classrooms. We will learn how to start designing objects in seconds. Topics will come from a variety of courses, including probability, calculus, and geometry.
- 11 TI Tips for Regents Exam Success** **Mr. Dana Morse** **9-12** **Texas Instruments**  
Build math understanding while using the tools from Texas Instruments appropriately. Give students the opportunity to test with confidence. Resources to help students succeed with TI-83 Plus, TI-84 Plus Family and TI-Nspire CX will be provided.
- 12 Using Technology: Formative Assessment Tools** **Mrs. Tara Mauer** **9-12** **Oceanside Schools**  
Participants will utilize technology to experience a variety of formative assessment tools: Socrative, Plickers, Padlet, Today's Meet, Kahoot, Goformative, Google Forms, etc. and they will see how powerful the data collected can be!  
Co-Presenter: Sharri Sandler
- 13 Visualizing Solutions to Linear Sys in 2D & 3D** **Mr. Robert Andersen** **College** **Stony Brook University**  
Students are often confused by classifying linear systems as consistent, inconsistent or dependent, especially in three dimensions. We will use a low-cost tablet app to see what this means graphically. Some knowledge of linear algebra would be useful but not necessary.
- 14 Aligning Instruction and Mathematical Practices** **Dr. Blidi Stemm** **General** **SUNY Old Westbury**  
Participants will benefit from practical ways to align instruction to the Standards for Mathematical Practices of the Common Core Standards and develop the SMPs among students. We will also examine some of the myths about the Practices and ways these Practices can be assessed.
- 15 How to Ace the Math Interview** **Mr. Ray Scalossi** **Pre-Service** **Manhasset UFSD**  
Learn about what to expect during the interview process, and how to land your first math teaching job.

**SESSION B (11:35-12:25) or C (12:40-1:30)** (Select three workshops from numbers 16 - 35)

- 16 Questions Count!** Mrs. Joanne Lufrano K-4 Hofstra University  
Pose better questions that invite your students to explain their thinking, make new connections, describe their processes, or critique other ideas according to the Mathematical Practices.
- 17 Differentiation in Fractional Thinking** Mr. Rudy Neufeld K-4 UMathX.com/Thames  
We will provide “go deep” learning tools to grapple with Fractional Thinking. Grappling is productive struggling. Presenters will model whole-class learning with built-in differentiation. BYOD for "smarter not harder" online lessons. Co-Presenter: Renee Meekins
- 18 GAMES GALORE...cards and dice** Mrs. Grace Quinlan 3-6 NCMTA  
Using an ordinary deck of cards and simple # cubes, we will play a variety of games that entertain and invite students (and teachers) to learn and reason!!
- 19 What is meant by "Teaching for Understanding"?** Ms. Mary Altieri 5-8 PNW & SW BOCES  
Teachers don't all share the same ideas of what "understanding" means; nor do our students! Mathematics educators who have gone before us have shed light on the topic of mathematical understanding and their findings are more significant today than ever before.
- 20 Math for Social Justice: An Introduction** Dr. Lidia Gonzalez 5-8 York College, CUNY  
Want to connect math to the real world while students work towards a more just society? Join me for an introduction to teaching math for social justice complete with activities, discussion, sample lessons, and resources.
- 21 Motivational Problems with Punch & Personality** Mr. Steve Conrad 9-12 Roslyn HS, retired  
This talk features easily understood, memorable problems with counter-intuitive results whose elegant and entertaining solutions generate interest and insight and often lead to a wide variety of student investigations.
- 22 STEM with TI Solutions** Mr. Dana Morse 9-12 Texas Instruments  
Preparing students for STEM careers starts in your classroom. We will look at and get hands on with coding, programming, the STEM Behind Hollywood/Health/Sports/NASA and the new TI-Innovator.
- 23 Small Problems to Big Ideas** Dr. David Wayne 9-12 Hofstra University  
Sometimes a simple question about a single fact or observation can lead to the development of major ideas that the student will encounter later in the course or in his/her future math courses. In this session, you will go down the path that starts with a challenging problem and heading towards the many big ideas that emanate from it.
- 24 The Brachistochrone and the Dog** Dr. Frank Sanacory 11-College SUNY Old Westbury  
We discuss the shortest time from point to point. This classical problem, the Brachistochrone, can be solved with differential equations or simpler techniques. We will also mention other path type problems involving dogs and light.
- 25 Problems Rather Than Exercises** Mr. Nicholas Restivo General Exec. Dir. MOEMS  
Students in grades 3 through 6 are better equipped to solve real problems than many of us believe. Come check out this set of real problems (not boring exercises) that will challenge and excite your students, and have them begging for more!
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- 26 Connecting People to Big Mathematical Ideas** Dr. William Farber K-4 Mercy College  
Through the use of manipulative materials, participants will explore number facts, number sentences, and logical reasoning. The hands-on activities will help participants make mathematical principles concrete, promote content-rich interactive learning in the mathematics classroom, and explore ways to make mathematics meaningful.
- 27 Using the Abacus in the K - 4 Classroom** Mr. Robert Teseo K-4 East Williston  
In this session you will learn how to use both a tens frame and an Abacus to teach your students place value, addition and subtraction. These tools can help students of all ability levels and of all learning styles to see, feel, and understand these concepts in a concrete way.
- 28 DOK and the CRQ Framework: Road to Rigor!** Ms Theresa Berke 5-8 South Woods M S  
Journey into Depth of Knowledge, Cognitive Processes, and the Cognitive Rigor Question Framework. Participants will explore strategies for encouraging students to think critically and demonstrate their learning in deep and extensive ways. Co-Presenter: Michelle Burget

- 29 Increase Student Learning and Retention for Free** **Mr. Andrew Burnett** **5-8 Worcester Polytechnic Inst.**  
A study of over 3000 students in 46 schools showed that students learn more when they get immediate feedback on their assignments ([tiny.cc/homeworkstudy](http://tiny.cc/homeworkstudy)). See how easy it is to use a free, online platform and app called ASSISTments.
- 30 My Favorite Math Contest Problems** **Mr. Dennis Mulhearn** **5-8 Valley Stream S/MOEMS**  
Challenge your students with these classic contest problems and they will discover solutions that enrich understanding. We model methods of teaching problem solving that develop students' ability to think mathematically, collaborate, and express their solutions.
- 31 Plan Questions and Persevere in the Practices** **Dr. Theresa Gurl** **9-12 Queens College, CUNY**  
Teachers need to persevere too! We will share techniques for helping teachers plan for their students to meet the Common Core Standards for Mathematical Practice, using three interesting mathematical problems. Graphing Calculator suggested. Co-Presenters: Ryan Fox, Nikolina Dabovic, Arielle Eager Leavitt
- 32 MathWorld: Looking for Trouble, Finding Beauty** **Mr. Peter G Hayes** **9-12 ICPS**  
Explore the connections that unify math ideas by asking and answering challenging "why" and "how" questions.
- 33 No! 17 is not Prime, but 19 is. Hello??** **Mr. John Titterton** **9-12 Syosset HS (Retired)**  
And would you believe that  $5 + 12i$  is a perfect square, as is  $15 + 8i$  (but not  $8 + 15i$ ). Holy Pythagoras!! What gives??
- 34 Interesting Problems I Have Met** **Mr. John Maus** **9-12 North Shore HS**  
While engaged in an ongoing mathematical journey of 26 years, I have encountered problems that have endured the pendulum swings in curriculum that continually plague us in math education. Come to a mathematical play-date and make math fun again.
- 35 Calculus Ideas for understanding** **Mr. Soowook Lee** **11-College Roslyn High School**  
We will discuss ideas for creating lessons that promote the conceptual understanding of such topics as L'Hospital's Rule, the Taylor Series, and the Product Rule for differentiation.

**Please remember to select the number of the lunch you wish to order (see the second page of this brochure). You will be assigned a time for lunch based upon the assigned workshop for the B or C session.**

**SESSION D 1:45-2:35** (Select three workshops from numbers 36 - 50)

- 36 New Wonderful Ways to Use the 120 Chart** Mrs. Millie Joyce K-4 Garden City Schools  
Did you ever feel like the 120 Chart just hangs in your classroom getting very little attention? Well, the 120 chart is about to get used in a whole new way and for more than just a few lessons. Learn the many concepts that can be taught with this chart. Co-Presenter: Anne Hayes
- 37 Strategies for Understanding Word Problems** Mrs. Christine King K-4 Cking Education  
This workshop will provide participants with hands-on, small-group experiences focusing on 10 strategies that can be used immediately in the classroom to increase student comprehension of word problems across all the key concepts.
- 38 Growing a Growth Mindset** Mrs. Jessica Ryan K-4 Lynbrook UFSD  
Using children's literature, explore positive psychology constructs of growth mindset, grit, happiness, character strengths, and hope. These activities will change mindsets, approach to challenges, vocabulary, and the culture of schools. Co-Presenters: Amy Garfinkel and Shari Bowes
- 39 Building Fluency Skills in K-2** Mrs. Sue Mehr K-4 Deer Park Schools  
Students have a wide range of mental math skills. We will discuss the specific strategies they need to learn, how to teach each strategy and how to get your students to use these strategies to compute faster.
- 40 Optimizing Google Classroom: Free Math Content** Mr. Andrew Burnett 5-8 Worcester Polytechnic Inst.  
ASSISTments is a free tool with tons of content that you can assign directly to the Google Classroom stream. Once students complete the assignment, teachers can use the free reports to drive instruction and review. Not a Google Classroom user? No problem!! ASSISTments can be used with or without Google Classroom.
- 41 Instructional Scaffolding With a Twist** Dr. Marion Hutchinson 5-8 A.B.G.S. Middle School  
This presentation will highlight original state of the art strategies and activities that motivate and strengthen conceptual understanding and are layered to promote critical thinking.
- 42 Going Paperless???** Mrs. Ana Mojocoa 5-8 Elmont Memorial H S  
Technology is taking over our classrooms! During this session, the use of the iPads (or iPhones) will be demonstrated for optimum use in the classroom.
- 43 Area of Shapes:Paper Folding and Cutting** Dr. Hoyun Cho 5-8 Capital University  
This workshop will use paper folding and cutting to develop the conceptual understanding of the area of shapes.
- 44 Teaching geometry with patty paper** Dr. Irina Lyublinskaya 9-12 College of Staten Island  
Paper folding is a popular approach to teaching such topics as transformations, triangle congruence, and conics. Participants will engage in activities that address the Common Core standards. Co-Presenter: Stephanie Sheehan
- 45 Special Ed. Techniques To Enhance Learning** Ms. Aimee Safian 9-12 Syosset High School  
Looking for new teaching strategies to enhance student learning? Participants will be introduced to Special Education teaching techniques that can be utilized to enhance learning for students in the traditional classroom.
- 46 Emphasize the FUN in FUNctions** Mr. Tom Beatini 9-12 Union City Public Schools  
Explore properties of families of functions. Attendees will be provided with classroom-ready hands-on lessons that enable students to dynamically examine functional behavior and discover FUN ways to make sense of transformations.
- 47 The Ins and Outs of Patterns** Mrs. Suzanne Libfeld 9-12 Lehman College  
We will focus on using patterns to develop the ability to think about and explore mathematical problems as we investigate relationships, functions, variables and equations in a variety of algebra activities. Co-Presenter: Ann Cola
- 48 Games, Dice & Geoboards Learning Prob & Stat** Dr. Sharon Whitton 9-12 Hofstra University  
Participants will engage in games with dice, puzzles and Geoboards to discover important probability principles. Finally, they will use probability concepts, experimentation and hypothesis testing in making valid decisions.
- 49 Blame It on Sputnik:The 'New Math' and Politics** Dr. Stephen Sullivan General Lawrence  
Where did the current Mathematical Standards come from? Explore the history of the competition with Russia for space exploration that led to re-thinking the Math Curriculum in our schools. Co-Presenter: Mr. Patrick Palleschi
- 50 Teaching for Understanding** Mr. Bruce Waldner Pre-Service Suffolk Com. College  
We will examine the metacognitive research reported in Marzano's "Classroom Instruction That Works", Harmin and Toth's "Inspiring Active Learning" as well as several other sources to improve student understandings.