

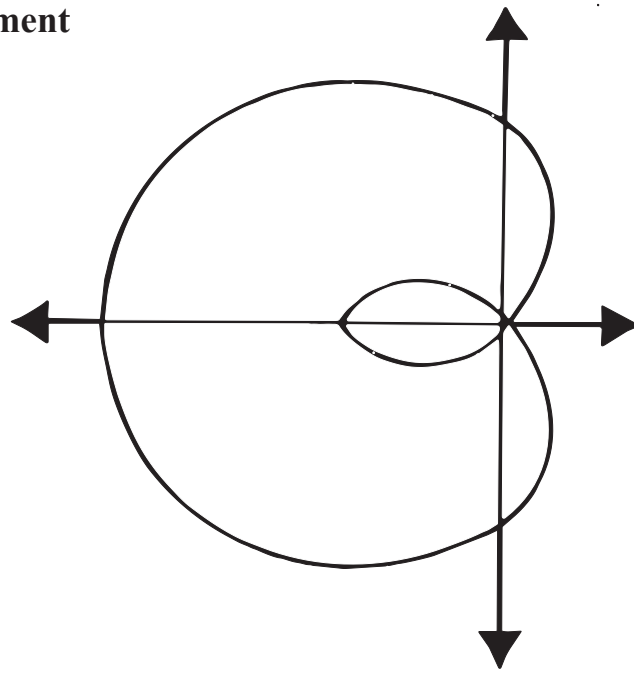
The Mathematics and Computer Information Sciences Department
State University of New York College at Old Westbury

Dedicates
The Twenty-Sixth Annual

LIMAÇON

Long Island Mathematics Conference
in memory of Dr. Jong Pil Lee

Friday, March 16, 2012, from 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
Association of Teachers of Mathematics of New York City
and partially funded by a grant from NYS Department of Education

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. The year's theme is **"Math: Getting to the Core."**

The 2012 keynote speaker is Dr. John Ewing, President of Math for America. Previously, he was the Executive Director of the American Mathematical Society for nearly 14 years. The AMS, with 33,000 members, is the world's largest mathematics research society and a major research publisher. Dr. Ewing was professor of mathematics at Indiana University from 1973-1995, where he also served as department chair. He has held visiting positions in the mathematics departments of Dartmouth College, the University of Virginia, Newcastle University (England), and Göttingen University (Germany). Dr. Ewing has received several national exposition awards for both his writing and editing and is a Fellow of AAAS.

Dr. Ewing's keynote address, **Who Owns the Common Core Standards?**, will be followed by a daylong series of sessions and workshops focused on mathematics education, pedagogy, and problem solving. Presenters and participants alike can expect the sessions to provide ideas, techniques, and skills that help improve teaching and content effectiveness, and recharge batteries.

FOR CALCULATOR SESSIONS, PLEASE BRING YOUR OWN.
ON-SITE REGISTRATION WILL BE ACCEPTED ON A LIMITED BASIS (\$10 ADDITIONAL FEE).
NO CONFIRMATION WILL BE SENT.
ANY QUESTIONS? CALL RONNI DAVID, 516-359-2794 OR MIMI SCHNIER, 516-876-3261

SCHEDULE FOR THE LONG ISLAND MATHEMATICS CONFERENCE

7:45 - 8:30 CHECK-IN, CONTINENTAL BREAKFAST and VENDOR BOOTHS - Campus Center
8:45 - 9:15 INTRODUCTION by L.I. Mathematics Conference Board
9:15 - 10:15 KEYNOTE ADDRESS by Dr. John Ewing, President of Math for America
10:30 - 2:35 SESSION A-D see below
BUFFET LUNCHEON during either Session B or C **VENDOR BOOTH** times 7:45 - 8:30 and 11:20 - 1:45

SESSION A: 10:30 - 11:20
(Participants select three of the sessions numbered 1 through 15.)

1 A Potpourri of Math Joanne Lufrano Valley Stream District #30 K-2	2 Math Talk! Mickey Jo Sobierajski AMTNY Past President K-4	3 Developing Number Sense: Teaching Fractions With Length and Area Models Dr. Irina Lyublinskaya Professor, CUNY/College of Staten Island 3-5	4 Using Your SMART Board to Achieve Common Core Standards for Math Matt Ringh Tequipment, Inc. 5-8	5 Hands-on Geometry® Paul McNamara Syosset Schools 5-8	6 Kick Off the Year with Problem Solving Colleen Ryan AuSable Valley Middle School 5-8	7 Standards? What Do We Do With Them? Iva Jean Tennant AMTNY President 6-8	8 Technology & Mathematics: the Right Angle Frank Sobierajski Teaching Matters, Inc. 6-12	9 A Colorful Approach to Pythagorean Triples & N-tuples Paul Schwiagerling Professor, Buffalo State College 6-college
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10 Working With the Common Core, a High School Perspective Heidi Bromley NYSAMS Vice-President 9-12	11 Mathematical Paradoxes Mike Riccardo Bayside HS-NYC DOE 9-12	12 Making Indelible Images With the Geometer's Sketchpad. Gene Eyshinskiy Assistant Principal, Flushing HS/NYC 9-12	13 Teaching AP® Calculus with WeBWork® Judy Broadwin Baruch College 11,12, College	14 Mathematical Magic Dr. Raymond N. Greenwell Professor, Hofstra University General	15 Strategies for Job Seekers (Teachers and/or Administrators) David J. Flatley Superintendent, Carle Place Schools Pre-service
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SESSION B 11:35 - 12:25
(Participants select three of the sessions numbered 16 through 25) or lunch

16 Common Core & K-4 Mickey Jo Sobierajski AMTNY Past President K-4	17 SMART® Math Audrey Bellovin Principal, Garden City Schools K-4	18 Working With the Common Core, an Intermediate Perspective Heidi Bromley NYSAMS Vice-President 5-8	19 Making Indelible Images With the Geometer's Sketchpad® Gene Eyshinskiy Assistant Principal, Flushing H.S./NYC 5-8	20 Mathematic Michael Riccardo Bayside HS-NYC DOE 7-12	21 Teaching Algebra with TI-84 Apps Dr. Irina Lyublinskaya Professor, CUNY/College of Staten Island 9-12	22 Using Your SMART Board to Achieve Common Core Standards for Math Matt Ringh Tequipment, Inc. 9-12	23 The Four "Means" and Geometry Applications Paul Schwiagerling Professor, Buffalo State College 9-12, college	24 Beyond the SMART Board Notebook & Graphing Calculator Frank Sobierajski Teaching Matters, Inc. General	25 I'm Going to Be a Math Teacher — Why Didn't I Know This? Dr. Deborah Upton Molloy College Pre-service
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SESSION C 12:40 - 1:30
(Participants select three of the sessions numbered 26 through 34) or lunch

26 Working With the Common Core, Common Core Perspective Heidi Bromley NYSAMS Vice-President K-4	27 Using Your SMART Board to Achieve Common Core Standards for Math Matt Ringh Tequipment, Inc. K-4	28 Cutting Pi Kendal Askins William H. Carr JHS/NYC 5-8	29 Developing Number Sense in Middle School With Technology-Based Science Dr. Irina Lyublinskaya CUNY/College of Staten Island 5-8	30 Real World Applications Using the CBL®, CBR2® and Easy Data JoAnn Miltenberg Farmingdale Schools 9-12	31 Challenging Problems for Your Advanced Learners David Linker Professor, CUNY/City College of New York 9-12	32 Unique Math Discoveries to Enhance Your Lessons Paul Schwiagerling Professor, Buffalo State College 9-12	33 Probability Distributions in Statistics Harriet Greenspan Plainview-Old Bethpage Schools 11,12, college	34 Mapping for Success in Mathematics Jayson Kiang Longwood HS/Longwood CSD General
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SESSION D: 1:45 - 2:35
(Participants select three of the sessions numbered 35 through 49.)

35 Subtraction and Place Value Alan Tucker Professor, SUNY/Stony Brook K-4	36 Alice in Numberland Jamie Picora Patchogue-Medford Schools K-4	37 Multiple Ways to Multiply Claire Wiener Retired, Manhasset Schools 3-5	38 Best Resources Donna Gobin Tequipment, Inc. 5-9	39 Adventures in logic Thomas J. Lucas Math MindED.net 5-8	40 Hands-On Equations: Algebra for Everyone Theresa Ziccardi Syosset Schools 5-8	41 It Takes Three: Graphing Calculator/PowerPoint® Presentation/Worksheet Marianne Mancusi Retired, Rockville Centre Schools 7-9	42 Improving Student Performance on the AP® Stat Exam Prof. Sean Simpson SUNY/Westchester Community College AP, College	43 Creating an Interactive Math Classroom Dana F. Morse Texas Instruments, Inc. 9-12, College
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44 TI-84 Tips and Tricks for Algebra Students Sonja Barrera Massapequa Schools 9-12	45 Problem Solving to Supplement the Curriculum Farrel Powsner Retired, Roslyn Schools 9-12	46 Making a Collaborative Class Work for Students and Teachers Kate Martin-Bridge De Witt Clinton HS/NYC 9-12	47 Creative Problem Solving: Knowledge-Building & Deep Practice Peter G. Hayes Roslyn Public Schools 9-12, college	48 Deconstructing Civil War Quilt Blocks Jane-Marie Wright Professor, Suffolk Community College General	49 What One Needs to Know Linda Carlson Pace University Pre-service
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Cut here and place in envelope with check for registration fee (includes luncheon).

REGISTRATION FORM

LIMAÇON, Friday, March 16, 2012 at SUNY College at Old Westbury, Campus Center from 7:45 A.M. to 2:35 P.M.
Register early to insure your choice of sessions. Come early to browse the vendor displays.

Cost of Conference: Fee includes Continental Breakfast and Luncheon.
(Please check one) \$50.00 for NCMTA, NCAMS, ATMNYC OR SCMTA members
 \$60.00 for non-members Full-time students pay only \$25.00

Mail form and check by March 4, 2012 to: (checks payable to: L.I. Mathematics Conference Board)
Limaçon, Attn: Mimi Schnier, Mathematics and Computer Information
Sciences Department, SUNY College at Old Westbury, Box 210, Old Westbury, NY 11568-0210.

- ON-SITE REGISTRATION WILL BE ACCEPTED ON A LIMITED BASIS (\$10 ADDITIONAL FEE)

Name _____ Position _____ Grade Level _____

Address _____ E-mail: _____

School/District Represented _____ Telephone _____

Session A: 1st Choice _____	Session B or C: 1st Choice _____	Session D: 1st Choice _____
#1-15 2nd Choice _____	#16-25, #26-34 2nd Choice _____	#35-49 2nd Choice _____
10:30 - 11:20 3rd Choice _____	(Lunch) 3rd Choice _____	1:45 - 2:35 3rd Choice _____

- NO CONFIRMATION WILL BE SENT
- NO REFUNDS
- BRING YOUR OWN CALCULATOR

(FOR SESSION DESCRIPTION
SEE BACK OF PROGRAM)

Make copies of this form if more are needed.

LUNCH MENU: You must select one of the following when you register:

- Chef salad (no ham)
- Vegan/gluten free platter (baby spinach with roasted vegetables)
- Individual lunch platters with romaine lettuce, cucumbers, tomato, carrot sticks, new potato salad, string bean salad tuna salad egg salad chicken salad

Session A Choose 3

- 1. A Potpourri of Math**
Math is everywhere. Engage your students in a potpourri of activities that integrate math into the K-2 curriculum and address the CCSS.
- 2. Math Talk!**
Our students should be critical thinkers, successful problem solvers and mathematicians. The ideas, calculator games, and activities presented will encourage your students to perform at the higher levels of Bloom's Taxonomy.
- 3. Developing Number Sense: Teaching Fractions With Length and Area Models**
How do you feel about fractions? Come and learn about different approaches you can use for teaching fractions to your students. The more ways you teach something, the better the students understand it.
- 4. Using Your SMART Board to Achieve Common Core Standards for Math**
Gain an in-depth understanding of the collaborative features of the SMART Board interactive whiteboard. See how to implement these tools in class in support of the Common Core Standards.
- 5. Hands-on Geometry®**
Make geometry come alive. Discover shape bubble-ology. Build 2-D and 3-D shapes. See if 3-D shapes produce round bubbles — or something else. A fun surprise awaits all.
- 6. Kick Off the Year with Problem Solving**
How do you start the school year? This session explores activities that help create a connected classroom through problem solving. Participants are invited to share their ideas and tips as well.
- 7. Standards? What Do We Do With Them?**
Make the standards come alive by activities that develop understanding and create fun as well.
- 8. Technology & Mathematics: the Right Angle**
Seven pieces of software + 113 digital images + 5 grade levels + 29 ideas + 17 videos = 61 minutes of prime technology fun.
- 9. A Colorful Approach to Pythagorean Triples and N-tuples**
A colorful way to determine Pythagorean Triples. Students will be able to determine any triple by following some simple rules. Added bonus, the work can be extended to n-tuples.
- 10. Working With the Common Core, a High School Perspective**
Come examine the Common Core Learning Standards, compare them to the 2005 NYS performance indicators, and dig beyond to understand what it all could mean for secondary students.
- 11. Mathematical Paradoxes**
Come, see how to use paradoxes to interest students in various mathematical concepts.
- 12. Making Indelible Images With the Geometer's Sketchpad**
You will see Geometer's Sketchpad applications across the math curriculum through calculus in the classroom. No experience in Geometer's Sketchpad is needed.
- 13. Teaching AP® Calculus With WeBWork®**
WeBWork is a free online homework program for students from the MAA and NSF. It assigns to each student a different variation of each problem and grades it immediately. Monitoring homework is quick and easy.
- 14. Mathematical Magic**
Several magic tricks based on mathematical principles will be performed. Participants will learn how to do the tricks themselves and why the tricks work, using ideas in arithmetic, algebra, number bases, and Fibonacci numbers.
- 15. Strategies for Job Seekers (Teachers and/or Administrators)**
Today's job market remains tough. For pre-service student and seasoned professional alike, this workshop may provide pointers to help you land that job. Feel free to bring a resume!

Session B or Session C Choose 3

- 16. Common Core & K-4**
Mathematical practices to help implement the Common Core State Standards in mathematics (CCSSM) in the K-4 curriculum.
- 17. SMART® Math**
Reach all learners with exciting games on the SMART Board! Games are ideal for integrating concrete materials, needed practice, and strong motivation. The SMART Board is ideal for facilitating the demonstration while it motivates.
- 18. Working With the Common Core, an Intermediate Perspective**
Come examine the Common Core Learning Standards, compare them to the 2005 NYS performance indicators, and dig beyond to understand what it all means for grades 5-8.
- 19. Making Indelible Images With the Geometer's Sketchpad®**
You will see Geometer's Sketchpad applications across the math curriculum in the classroom. No experience in Geometer's Sketchpad is needed.
- 20. Mathemagic**
Mathematical reasoning explains many magic tricks we enjoyed as children. After I perform and justify some magic tricks, we'll discuss how they can motivate certain classroom topics.
- 21. Teaching Algebra with TI-84 Apps**
Learn what is hidden under the apps button on TI-84+ calculator. We will work with several really cool applications for teaching algebra 1.
- 22. Using Your SMART Board to Achieve Common Core Standards for Math**
Gain an in-depth understanding of the collaborative features of the SMART Board interactive whiteboard. See how to implement these tools in class in support of the Common Core Standards.
- 23. The Four "Means" and Geometry Applications**
Extend your geometry lesson by including information about arithmetic, geometric, harmonic and root-mean square means.
- 24. Beyond the SMART Board Notebook & Graphing Calculator**
From I-Pods to cell phones, as math teachers we need to rethink how we use technology in the mathematics classroom. Come and see why.
- 25. I'm Going to Be a Math Teacher — Why Didn't I Know This?**
These mathematical concepts and understandings are useful for future 7-12 teachers to know, but often missing from their preservice education experience. Come learn new ways to implement new ideas.
- 26. Working With the Common Core, Common Core Perspective**
Come examine the Common Core Learning Standards, compare them to the 2005 NYS performance indicators, and dig beyond to discuss what it all could mean for elementary students.
- 27. Using Your SMART Board to Achieve Common Core Standards for Math**
Gain an in-depth understanding of the collaborative features of the SMART Board interactive whiteboard. See how to implement these tools in class in support of the Common Core Standards.
- 28. Cutting Pi**
Often we are very straightforward when we teach the Circle Unit. This workshop will provide teachers with hands-on discovery activities for finding circumference and area that students will enjoy.

- 29. Developing Number Sense in Middle School With Technology-Based Science**
Develop number sense through inquiry-based lab activities. See how interdisciplinary learning connects math, science, and technology. Wherever placed, these activities can enhance students' learning and give you authentic assessment of their understanding.
- 30. Real World Applications Using the CBL®, CBR2® and Easy Data**
The CBL and CBR data collection system with the TI-84® or TI-Nspire® models real life situations involving trigonometric, exponential, step function, quadratic graphs, and more. Introduce lessons quickly with easy data probes.
- 31. Challenging Problems for Your Advanced Learners**
Interest and excite your advanced learners with these challenging problems. Watch clever tips and tricks simplify difficult problems. Topics will include concepts that can be expanded into research projects.
- 32. Unique Math Discoveries to Enhance Your Lessons**
Area calculated like never before, the Fibonacci Sequence seen like never before, and more!
- 33. Probability Distributions in Statistics**
The binomial distribution is discrete. The normal distribution is continuous. How do you use the normal distribution to approximate the binomial distribution? (bring your TI-83/84 calculators).
- 34. Mapping for Success in Mathematics**
Aligning the curriculum vertically and horizontally results in improved student achievement. Participants will be introduced to curriculum mapping through the use of Rubicon Atlas.

Session D Choose 3

- 35. Subtraction and Place Value**
Unlike addition, subtraction is neither commutative nor associative. Yet, like addition, subtraction uses place-value notation! This talk will examine why subtraction and addition are both so similar and so different.
- 36. Alice in Numberland**
Explore whimsical, engaging, hands-on mathematical activities based on Alice's Adventures in Wonderland. All participants will get samples of the activities and their relationship to the appropriate content standard.
- 37. Multiple Ways to Multiply**
This workshop will present a variety of ways to multiply. See different strategies that enable struggling students to learn the multiplication tables. Lattice multiplication and partial products will be explored.
- 38. Best Resources**
Ten SMART Board resources can make math jump off your students' pages. Utilize your own resources (SMART Notebook® and class textbooks), and explore new resources (LEGO MINDSTORMS® and more) in new ways.
- 39. Adventures in Logic**
This is problem solving at its best. We will solve challenging problems with a variety of thought-provoking activities, problem solving strategies, mathematical principles and, of course, a lot of logical thinking.
- 40. Hands-On Equations®: Algebra for Everyone**
These fun manipulatives enable students in grades 3-9 to physically see basic algebra concepts and skills. Learning is swift, easy, and enjoyable.
- 41. It Takes Three: Graphing Calculator/PowerPoint® Presentation/Worksheet**
Integrate algebra lessons using PowerPoint lessons, worksheets, a graphing calculator, and if time permits, some popular games. Some topics: relations/functions and solving systems of equations graphically.

42. Improving Student Performance on the AP® Stat Exam

An inside look from an AP Statistics® reader into what graders are looking for! Common errors made by students will be discussed, along with tips for giving your students a better chance of getting a 4 or 5.

43. Creating an Interactive Math Classroom

Create an atmosphere of trust while engaging all students. Let them discover math using real world images. Get actual Regents exams on your graphing calculators for review. Send, collect, and grade your students instantly.

44. TI-84 Tips and Tricks for Algebra Students

These tips and tricks can help your algebra students. Bring your calculator to update to the 2.55MP operating system. Among other things this enables you to use a fraction bar on your TI-84.

45. Problem Solving to Supplement the Curriculum

Let's try some problems today that can supplement our teaching! These problems can be used in our classes to challenge our students and to enhance their thinking skills!

46. Making a Collaborative Class Work for Students and Teachers

Integrating your different styles of personality into your * Planning * Seating * Teaching * Vocabulary * in an ITC class of 34 students in HS Algebra and HS Geometry.

47. Creative Problem Solving: Knowledge-Building & Deep Practice

See how psychology enables you to learn and do more math.

48. Deconstructing Civil War Quilt Blocks

How were squares, triangles, and diamonds used in patchwork quilt blocks in the Civil War era? How did people minimize fabric with various seam allowances? Geometry and history will mesh in this interdisciplinary lesson.

49. What One Needs to Know

What should you know before you teach elementary math? How well do pre-service methods courses prepare future teachers and their future students? You will discuss the practicality of learning to teach math in the college classroom.

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.



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