

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

*Presents*

**The Twenty-Sixth Annual**

# **LIMAÇON**

**Long Island Mathematics Conference**

**“Math: Getting to the Core”**

**Friday, March 16, 2012, From 7:45 A.M. to 2:35 P.M.**  
at SUNY College at Old Westbury Campus Center

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**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  
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. Thus year's theme is: “Math: Getting to the Core.”

The keynote speaker at this year's conference 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: 516-359-2794

# 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 Dr. Jong Pil Lee, Distinguished Service Professor, SUNY College at Old Westbury and President of L.I. Mathematics Conference Board

9:15 – 10:15 KEYNOTE ADDRESS by Dr. John Ewing, President, 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

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## SESSION A 10:30-11:20 (Select three sessions from numbers 1 – 15)

### 1. A Potpourri of Math K-2

Math is everywhere. Engage your students in a potpourri of activities that integrate math into the K-2 curriculum and address the CCSS.

**Joanne Lufrano**  
Valley Stream District #30

### 2. Math Talk! K-4

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.

**Mickey Jo Sobierajski**  
AMTNYS Past President

### 3. Developing Number Sense: Teaching Fractions With Length and Area Models 3-5

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.

**Dr. Irina Lyublinskaya**  
Professor, CUNY/College of Staten Island

### 4. Using Your SMART Board to Achieve Common Core Standards for Math 5-8

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.

**Matt Ringh**  
Tequipment, Inc.

### 5. Hands-on Geometry® 5-8

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.

**Paul McNamara**  
Syosset Schools

### 6. Kick Off the Year with Problem Solving 5-8

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.

**Colleen Ryan**  
AuSable Valley Middle School

### 7. Standards? What Do We Do With Them? 6-8

Make the standards *come alive* by activities that develop understanding and create fun as well.

**Iva Jean Tennant**  
AMTNYS President

**8. Technology & Mathematics: the Right Angle 6-12**

Seven pieces of software + 113 digital images + 5 grade levels + 29 ideas + 17 videos = 61 minutes of prime technology fun.

**Frank Sobierajski**  
**Teaching Matters, Inc.**

**9. A Colorful Approach to Pythagorean Triples and N-tuples 6-college**

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.

**Paul Schwiegerling**  
**Professor, Buffalo State College**

**10. Working With the Common Core, a High School Perspective 9-12**

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.

**Heidi Bromley**  
**NYSAMS Vice-President**

**11. Mathematical Paradoxes 9-12**

Come, see how to use paradoxes to interest students in various mathematical concepts.

**Michael Riccardo**  
**Bayside HS-NYC DOE**

**12. Making Indelible Images With the Geometer's Sketchpad 9-12**

You will see Geometer's Sketchpad applications across the math curriculum through calculus in the classroom. No experience in Geometer's Sketchpad is needed.

**Gene Eyshinskiy**  
**Assistant Principal, Flushing HS/NYC**

**13. Teaching AP<sup>®</sup> Calculus With WeBWork<sup>®</sup> 11, 12, College**

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.

**Judy Broadwin**  
**Baruch College**

**14. Mathematical Magic General**

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.

**Dr. Raymond N. Greenwell**  
**Professor, Hofstra University**

**15. Strategies for Job Seekers (Teachers and/or Administrators) Pre-service**

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!

**David J. Flatley**  
**Superintendent, Carle Place Schools**

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**SESSION B 11:35-12:25**     *(Select lunch or three sessions from numbers 16 – 25)*

**16. Common Core & K-4**

Mathematical practices to help implement the Common Core State Standards in mathematics (CCSSM) in the K-4 curriculum.

**Mickey Jo Sobierajski**  
**AMTNYS Past President**

**17. SMART® Math K-4**

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.

**Audrey Bellovin**  
Principal, Garden City Schools

**18. Working With the Common Core, an Intermediate Perspective 5-8**

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.

**Heidi Bromley**  
NYSAMS Vice-President

**19. Making Indelible Images With the Geometer's Sketchpad® 5-8**

You will see Geometer's Sketchpad applications across the math curriculum in the classroom. No experience in Geometer's Sketchpad is needed.

**Gene Eyshinskiy**  
Assistant Principal, Flushing H.S./NYC

**20. Mathemagic 7-12**

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.

**Michael Riccardo**  
Bayside HS-NYC DOE

**21. Teaching Algebra with TI-84 Apps 9-12**

Learn what is hidden under the apps button on TI-84+ calculator. We will work with several really cool applications for teaching algebra I.

**Dr. Irina Lyublinskaya**  
Professor, CUNY/College of Staten Island

**22. Using Your SMART Board to Achieve Common Core Standards for Math 9-12**

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.

**Matt Ringh**  
Tequipment, Inc.

**23. The Four "Means" and Geometry Applications 9-12, college**

Extend your geometry lesson by including information about arithmetic, geometric, harmonic and root-mean square means.

**Paul Schwiegerling**  
Professor, Buffalo State College

**24. Beyond the SMART Board Notebook & Graphing Calculator General**

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.

**Frank Sobierajski**  
Teaching Matters, Inc.

**25. I'm Going to Be a Math Teacher — Why Didn't I Know This? Pre-service**  
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!  
**Dr. Deborah Upton**  
**Molloy College**

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**SESSION C 12:40-1:30** (Select lunch or three sessions from numbers 26 – 34)

**26. Working With the Common Core, Common Core Perspective K-4**  
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.  
**Heidi Bromley**  
**NYSAMS Vice-President**

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**27. Using Your SMART Board to Achieve Common Core Standards for Math K-4**  
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.  
**Matt Ringh**  
**Tequipment, Inc.**

**28. CUTTING PI 5-8**  
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.  
**Kendal Askins**  
**William H. Carr JHS/NYC**

**29. Developing Number Sense in Middle School With Technology-Based Science 5-8**  
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.  
**Dr. Irina Lyublinskaya**  
**CUNY/College of Staten Island**

**30. Real World Applications Using the CBL<sup>®</sup>, CBR2<sup>®</sup> and Easy Data 9-12**  
The CBL and CBR data collection system with the TI-84<sup>®</sup> or TI-Nspire<sup>®</sup> models real life situations involving trigonometric, exponential, step function, quadratic graphs, and more. Introduce lessons quickly with easy data probes.  
**JoAnn Miltenberg**  
**Farmingdale Schools**

**31. Challenging Problems for Your Advanced Learners 9-12**  
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.  
**David Linker**  
**Professor, CUNY/City College of New York**

**32. Unique Math Discoveries to Enhance Your Lessons 9-12**  
Area calculated like never before, the Fibonacci Sequence seen like never before, and more!!!!  
**Paul Schwiegerling**  
**Professor, Buffalo State College**

**33. Probability Distributions in Statistics 11,12, college**

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).

**Harriet Greenspan**

**Plainview-Old Bethpage Schools**

**34. Mapping for Success in Mathematics General**

Aligning the curriculum vertically and horizontally results in improved student achievement. Participants will be introduced to curriculum mapping through the use of Rubicon Atlas.

**Jayson Kiang**

**Longwood HS/Longwood CSD**

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**SESSION D 1:45-2:35**

*(Select three sessions from numbers 35 – 49)*

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**35. Subtraction and Place Value K-4**

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.

**Alan Tucker**

**Professor, SUNY/Stony Brook**

**36. Alice in Numberland K-4**

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.

**Jamie Picora**

**Patchogue-Medford Schools**

**37. Multiple Ways to Multiply 3-5**

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.

**Claire Wiener**

**Retired, Manhasset Schools**

**38. Best Resources 5-9**

Ten SMART Board resources can make math jump off your students' pages. Utilize your own resources (SMART Notebook<sup>®</sup> and class textbooks), and explore new resources (LEGO MINDSTORMS<sup>®</sup> and more) in new ways.

**Donna Gobin**

**Tequipment, Inc.**

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**39. ADVENTURES IN LOGIC 5-8**

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.

**Thomas J. Lucas**

**Math MindED.net**

**40. Title: Hands-On Equations<sup>®</sup>: Algebra for Everyone 5-8**

These fun manipulatives enable students in grades 3-9 to *physically see* basic algebra concepts and skills. Learning is swift, easy, and enjoyable.

**Theresa Ziccardi**

**Syosset Schools**

- 41. It Takes Three: Graphing Calculator/PowerPoint® Presentation/Worksheet 7-9**  
 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.  
**Marianne Mancusi**  
 Retired, Rockville Centre Schools
- 42. IMPROVING STUDENT PERFORMANCE ON THE AP® STAT EXAM AP, College**  
 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.  
**Prof. Sean Simpson**  
 SUNY/Westchester Community College
- 43. Creating an Interactive Math Classroom 9-12, College**  
 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!  
**Dana F. Morse**  
 Texas Instruments, Inc.
- 44. TI-84 Tips and Tricks for Algebra Students 9-12**  
 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.  
**Sonja Barrera**  
 Massapequa Schools
- 45. Problem Solving to Supplement the Curriculum 9-12**  
 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!  
**Farrel Powsner**  
 Retired, Roslyn Schools
- 46. Making a Collaborative Class Work for Students and Teachers 9-12**  
 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.  
**Kate Martin-Bridge**  
 De Witt Clinton HS/NYC
- 47. Creative Problem Solving: Knowledge-Building & Deep Practice 9-12, college**  
 See how psychology enables you to learn and do more math.  
**Peter G. Hayes**  
 Roslyn Public Schools
- 48. Deconstructing Civil War Quilt Blocks General**  
 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.  
**Jane-Marie Wright**  
 Professor, Suffolk Community College
- 49. What One Needs to Know Pre-service**  
 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.  
**Linda Carlson**  
 Pace University

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*Print this page 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**

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

**Mail form and check by March 4, 2012 to:** *(checks payable to: L.I. Mathematics Conference Board)*

Dr. Jong Pil Lee, Distinguished Service Professor  
Mathematics and Computer Information Sciences Department  
SUNY College at Old Westbury  
Box 210  
Old Westbury, NY 11568-0210

Name \_\_\_\_\_ Position \_\_\_\_\_ Grade Level \_\_\_\_\_

Address \_\_\_\_\_

E-mail: \_\_\_\_\_

School/District Represented \_\_\_\_\_ Telephone \_\_\_\_\_

Session A: 1st Choice _____	Session B & C 1st Choice _____	Session D: 1st Choice _____
#1-15 2nd Choice _____	#16-34 2nd Choice _____	#36-49 2nd Choice _____
10:30 -11:20 3rd Choice _____	11:35-1:30 3rd Choice _____	1:45 - 2:35 3rd Choice _____

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

1.  **Chef Salad (no ham)**

2.  **Vegan/Gluten Free Platter (Baby Spinach with roasted vegetables)**

3. **Individual lunch platters with Romaine lettuce, cucumbers, tomato, carrot sticks, new potato salad, string bean salad**     **Tuna Salad**     **Egg salad**     **Chicken Salad**

**- No Confirmation Will Be Sent**

**- NO Refunds**

**- Bring your own calculator**

**-Any questions? Ronni: 516-359-2794 or mathronni@cs.com**

*Place form in envelope with check for registration fee (includes luncheon).*

*Make copies of this form if more are needed.*