

The Pennsylvania Council of Leaders in Mathematics (PCLM) Presents:

## “Leading Our Students to Number Sense at the Elementary Level”

March 1, 2018

Hostetter Chapel at Messiah College, Mechanicsburg, PA 17055

Registration begins at 8:00 A.M. Sessions begin at 9:00 A.M.



### Keynote Speaker: Ben Galluzzo

Ben Galluzzo is a national leader in mathematical modeling and promotes the idea that students learn better when they use math for real purposes. He directs multiple contests and is a final judge for the M3 Math Modeling Challenge, which awards \$100,000 in scholarship prizes each year. Ben recently co-authored the nationally published handbook *Math Modeling: Getting Started & Getting Solutions*. In this hands-on workshop he will share activities to activate mathematical modeling in the elementary school.

### Additional Presentations and Workshop Offerings:

- **Title: Number Sense and How To Build It**

*Presenter:* Dave Kennedy, Shippensburg University

*Description:* When students have a strong math foundation built on number sense at the elementary level, they will continue to benefit throughout middle school and high school. What is number sense, and how can teachers give students experiences that help build this important foundation?

- **Title: Number Sense in an Early Childhood Classroom**

*Presenters:* Kristen Sachs, Grade 1 Teacher, Derry Township SD  
Brooke Shrift, Grade 1 Teacher, Derry Township SD  
Leann Snyder, Math Instructional Coach K-3, Derry Township SD

*Description:* Follow one team’s journey of re-inventing math class in order to focus on number sense for all learners. Experience how the work of author Kathy Richardson helped us build a framework of instruction that incorporates the *Critical Learning Phases in How Children Learn Number Concepts* in a guided math/co-taught model.

- **Title: Tools and Technologies for Developing Number Sense**

*Presenter:* Brian Huyvaert, University of Portland; Matific

*Description:* The Journey to Numeracy

Education is a series of pathways our students uncover. We help our students build words into sentences, sentences into paragraphs, and paragraphs into essays and stories. Our students learn about the solar system, then zoom in on the earth, eventually learning about cells and molecules. Numeracy is

an extensive journey with many checkpoints. We start with natural numbers, because we can visualize these with fingers and toes. We extend to integers and zero, fractions and ratios, squares and square roots, operations and algebra. Supplementing the learning process with technology can strengthen the foundations, yielding more conceptual thinkers with stronger number sense. In this session we will investigate the journey to numeracy, discuss the incorporation of technology, and perhaps even strengthen our own number sense.

**Registration Form (please detach or copy and return):**

*Registration fee:* \$30 (a student registration fee of \$20 is available). Registration must be postmarked by February 22, 2018.

Conference registration includes participation in all sessions, lunch, and a one-year membership to the Pennsylvania Council of Leaders in Mathematics (PCLM).

*Directions:* To register for **“Leading Our Students to Number Sense at the Elementary Level,”** detach and mail this completed form, with a check or money order payable to PCLM, to:

PCLM c/o D. Kennedy  
Mathematics Dept.  
1871 Old Main Drive  
Shippensburg, PA 17257

Conference Participant’s Name: \_\_\_\_\_

Conference Participant’s Home Mailing Address: \_\_\_\_\_

Conference Participant’s Email Address: \_\_\_\_\_

Conference Participant’s Phone Number: \_\_\_\_\_

Conference Participant’s Employer: \_\_\_\_\_

Employer Mailing Address: \_\_\_\_\_

Conference Participant’s Professional Title: \_\_\_\_\_