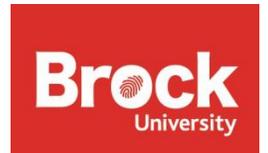


Golden Section of OAME, Brock University Faculty of Mathematics and Science, and Brock University Department of Mathematics

present

The OAME Golden Section Spring Conference



# Sharing the Beauty of Math

## Thursday April 24, 2014

### Schedule of Events

Time	
3:45 to 4:00	Registration Welch Hall, Brock University
4:00 to 5:15	Workshop A
5:15 to 5:30	Break
5:30 to 6:45	Workshop B
7:00	Dinner Alphie's Trough (Faculty Club), Brock University

## door prizes

Come to dinner and get a chance to win door prizes to local restaurants, attractions and spas

### Session A: Workshops

#### A1: Supporting Students' Early Number Sense

**Presenter:** Melissa Maney Worden, Veronica Nieves and Chris Moscato, NCDSB      **Audience:** ELKP – Grade 2  
Children's play often involves mathematics. This workshop is designed to support teachers in understanding early mathematical concepts, uncovering big ideas while children are at play and strategies for guided practice.

#### A2: Communication in Math Class

**Presenters:** Alison Morawek and Dan Arcsott, NCDSB      **Audience:** ELKP-8  
How can you help to improve students' abilities to comprehend and effectively respond in written format to open response mathematics questions? In this session teachers from Our Lady of Fatima Catholic Elementary School in St. Catharines will be sharing their learning from their Teacher Learning and Leadership Project (TLLP) including the practical strategies which they have found most effective. (P/J/I)

#### A3: From Patterns to Algebra (Junior)

**Presenters:** Jaime Rootes and Laura Tancredi, NCDSB      **Audience:** Grades 4-6  
From Patterns to Algebra by Dr. Cathy Bruce and Dr. Ruth Beatty presents a highly effective lesson sequence for meeting curriculum outcomes related to patterning and algebra. Backed by research and field tests, the ready to use lesson plans and activities build on students' experience with patterning in early grades to construct algebraic reasoning that will support their exploration of linear relationships in later grades and help them develop a deep understanding of big ideas related to patterning and algebra.

#### A4: From Patterns to Algebra (Intermediate)

**Presenter:** Diana D'Angelo, Rodney Mandau, and Karen Shakespeare, DSBN      **Audience:** Grade 7-10  
Students begin exploring linear relationships with patterns in elementary school. How can we use these early experiences with patterning to help students develop a better understanding of linear relationships and the different representations of these relationships? This session will explore the resource **From Patterns to Algebra: Lessons for Exploring Linear Relationships** by Dr. R. Beatty and Dr. C. Bruce. The sequential nature of the tasks and the open-ended activities provide all students, including struggling learners, access to aspects of algebraic thinking that are normally challenging. This session is presented by teachers who have used this resource in their Grade 7, 8, and 9 (Academic and Applied) classes. Come hear about their experiences and get ideas for implementing this in your own classroom.

#### A5: Sometimes (challenging), Always (engaging), Never (boring)

**Presenter:** John Kennedy, Angelo Lillo, and Elizabeth Pattison, DSBN      **Audience:** Grade 3U, 4U  
Do you feel that all the neat stuff only happens in grades 9 and 10? (Barbie Bungee. Walk This Way. Quadratic Dental Models.) This session will explore some creative (and high yield!) instructional strategies for concepts in MCR 3U, MHF 4U and MCV 4U. These strategies will include Matching; Teaching Through Problem Solving; Sometimes, Always, Never and more! We'll also spend some time working through summative assessments such as Stay Tuned!, Swinging Along, EliM&Mination, and Damped Harmonic Motion. Participants will receive electronic copies of the activities that we share, and are encouraged to bring along some ideas that you may have tried (or wanted to try) to share with us.

## A6: Supporting Math At Your School

**Presenter:** Liisa Suurtamm, DSBN

**Audience:** Administrators K-12

Over the past few years, mathematics teaching and learning has become a focal point for teachers and administrators alike. This session will explore the complexity of effective math instruction and how it might be different from your own experiences as a student. We will examine the research on effective professional learning models and the important role you play in supporting mathematics in your school.

## Session B: Workshops

### B1: The First Days of Math

**Presenters:** Janice Bohonos, Jennifer Grosvenor, Joanne Morris, DSBN

**Audience:** Grades 1-2

An introduction to a unit that was created out of a recognized need for students in the primary grades to be explicitly taught the mathematical process skills in order to be successful with the math content. This unit provides teachers with the opportunity to assess student skills in mathematical processing as well as in content. It is meant to lay a foundation of skills that students will then continue to practice and hone as they work through the math content as well as help to give direction for planning instruction.

### B2: Math Talk in the Primary Classroom

**Presenters:** Joe Carbonara and Melissa Tancredi, NCDSB

**Audience:** ELKP – Grade 3

“A Math-Talk Learning Community is a community in which individuals assist one another’s learning of mathematics by engaging in meaningful mathematical discourse.” This workshop focuses on how to foster a math talk learning community in your classroom and support learners in developing strategies for communication in mathematics.

### B3: Pearson E-texts

**Presenters:** Anna Perrotta, NCDSB

**Audience:** Grades 3-8

Enhance your mathematics classroom with the integration of Pearson e-texts! A technology coach models ways blend e-texts into pedagogy and answers your questions about this great resource.

Note: This session is targeted to teachers in NCDSB as they have access to this resource in their schools.

### B4: Engaging in the Mathematical Processes Through the TeatherBoard

**Presenters:** Erik Teather, DSBN

**Audience:** Grades 4-8

This will be an interactive session in which we will use the TeatherBoard to engage in being mathematicians. Come and investigate what this representation of a hundreds chart reveals to you about numbers and patterns. Question, wonder and be puzzled together. Prove what you discover. Many mathematical concepts will be discussed and connections to curriculum will be identified. Participants will receive a TeatherBoard poster for their classroom.

### B5: Strategies for Success in Grade 9 Applied

**Presenters:** Jennifer Corbett and Katie Seminerio, DSBN

**Audience:** Grade 9 Applied

Blogs, Websites, Pinterest.... there are so many places to get good ideas for teaching math, but it's sometimes so hard to take the time to sort through them! This session will highlight tips, tricks, strategies, and math problems that the presenters have collected from various sources and will focus on how they've adapted and used them for their Grade 9 Applied Math class. You will leave with a plethora of ideas and resources for setting up a positive math class environment and developing the young mathematicians in your classroom.

### B6: Making Math Assessment Meaningful

**Presenters:** Deanna Ward, Alison Pridham, and Emily Yee, DSBN

**Audience:** Grades 9-12

In this interactive presentation the goal is to present some strategies that can be used to create meaningful and student-manageable assessments in the secondary mathematics classroom. Examples will generate discussion on how to verify the effectiveness of your current assessments.

## Dinner Options

### Main Entree:

- Roasted Chicken Supreme with buttermilk mash potatoes, seasonal vegetables and au jus;
- or
- **Vegetarian:** Tomato and Coconut Milk Risotto with potato latkes and grilled vegetables

Dinners come with: Baby Greens Salad, Dessert Tray (squares & cookies), juice, pop, coffee and tea

## Registration Information

**Conference Fee:** \$15.00 for OAME member  
\$20.00 for non-member  
\$10 for Faculty of Education Students

**Dinner:** additional \$25.00

### All registration will be done electronically at [www.oame.on.ca](http://www.oame.on.ca)

Go to **Conferences/Events** on the left hand side of the screen, then select **Chapter Conferences**.

If you have questions regarding registration, please e-mail: [liisa.suurtamm@dsbn.org](mailto:liisa.suurtamm@dsbn.org)

Driving Direction to Brock University can be found here: <http://www.brocku.ca/directions/>

Parking is available in Lot D. When arriving, tell the parking attendant you are attending the OAME conference to be admitted into the lot.

To locate Welch Hall, please view the map of the Brock Campus available at <http://www.brocku.ca/maps/>

Other questions can be directed to: [Elizabeth.Pattison@dsbn.org](mailto:Elizabeth.Pattison@dsbn.org) or [Jessica.Drake@dsbn.org](mailto:Jessica.Drake@dsbn.org)