



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

present

The OAME Golden Section Spring Conference



# Ahead by a Century . . . Strategies for Keeping You on the Cutting Edge

## Thursday April 19, 2018

### 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 more!

### Session A: Workshops \*\*\*Updated\*\*\*

#### A1: Teaching Mathematics Through Inquiry/Project Based Learning

\*\*\* Bilingual Session

Presenter: Gillian Berard & Mary Vetere, NCDSB

Audience: Junior/Intermediate

Participants will explore examples of project based learning through a Mathematics lens such as "Creating a Business"(grades 3-8) and "Woodworking and Design"(grades 3-8). Teachers will learn how to use student inquiries to drive Mathematics instruction. Teachers will learn how to integrate multiple strands and subjects in their learning cycles for students to explore their wonders.

#### A2: The Great Escape!

Presenter: Laura Cronshaw & Jaime Rootes, NCDSB

Audience: Junior/Intermediate

"You enter the room. The gamemaster locks the door behind you. There are multiple clues to lead you to a solution. You have to solve them and make your escape." In this session, teachers will explore examples of rich learning experiences that involve problem-solving, collaboration and perseverance.

#### A3: How Problem Solving Supports Differentiated Instruction in the Mathematics Classroom

Presenter: Melissa Wigglesworth & Kim Cruise, NCDSB

Audience: K - 8

In this session, participants will explore how they can use problem-based learning to meet the needs of students with varying levels of ability.

#### New Session!! A3.14: Special Education Through the Lens of the Renewed Mathematics Strategy

Presenter: Anthony DiToro, NCDSB

Audience K – 8

Participants in this workshop will examine all of the considerations teachers require when developing Individual Education Plans (IEPs) for their students, in order to foster success and growth in mathematics.

#### A4: Creating a Thinking Classroom . . . One Step at a Time

Presenters: Tricia Brenneman, Elizabeth Pattison, DSBN

Audience: 9 - 12

Please note . . . this is a double session. You should also select session B4.

Vertical Nonpermanent Surfaces? Visibly Random Groups? Level to the Bottom? Where and how do I begin to incorporate these? At this double session we will share how you can begin incorporating these "thinking" strategies that help build a culture of students thinking collectively and learning together. It won't take long until these ideas became a natural part of your classroom routine! We will share specific examples from a variety of courses.

#### A5: Ideas for MAT 1LK and MAT 2LK

Presenter: Pamela Chun, DSBN

Audience: 9, 10

Feeling uninspired with your Essential Mathematics Classes? My students and I felt this way last semester and we needed something creative. In this workshop we will explore some activities and projects that I have created that are hands on and student approved. The topics will include ratios/proportions, area & perimeter, money sense, percent and sale prices as well as estimation. If you have something fun to share as well, please bring it along!

#### A6: A Fresh Look at Diagnostic Assessments (Grade 9)

Presenter: Jeff Martin, NCDSB

Audience: 9

The process of getting to know your learner can be challenging at any grade level. Misconceptions and gaps can cause major impediments to learning that cannot always be identified with a simple paper and pencil diagnostic. In this session we will explore the use of manipulatives, paper folding, discussions and problem solving as a way to get to know the learning needs of your students.

#### A7: I Want to Learn Geogebra . . . Help!!!

Presenter: Angelo Lillo, DSBN

Audience: 9 - 12

It's free. . . It's easy . . . it's graphs in 3D . . . It's Geogebra! Let me show you what I have learned about using the Geogebra apps in the mathematics classroom. Bring your tablet or computer so that you can work along with me to try activities.

## Session B: Workshops \*\*\*Updated\*\*\*

### B1: Mathematics Through a Leadership Lens

**Presenter:** Chris Moscato, NCDSB

**Audience:** Grades K - 12

Participants in this session will learn what it means to be a lead learner in mathematics at the school or system level. Building capacity, using the Ontario Leadership framework, will be explored.

### Updated! B2: Fractions in Pieces

**Presenters:** Susan Ume, NCDSB

**Audience:** Intermediate

In this session, participants will learn how to help students lay their thinking on known models prior to moving to algorithms, when operating with fractions. This workshop will be interactive and will give participants activities they can bring back to their classrooms. It will also provide participants with a lens into why students often struggle with fractions.

### B3: Growth Mindset in the Primary Mathematics Classroom

**Presenters:** Luana Kent, NCDSB

**Audience:** Primary

Participants in this workshop will learn how to foster a growth mindset in the primary mathematics classroom, with specific examples and activities. The session will allow teachers to see the importance of developing this at an early age in order to promote confidence and success as students move forward in their mathematical learning journey.

### B4: Creating a Thinking Classroom . . . One Step at a Time

**Presenters:** Tricia Brenneman & Elizabeth Pattison, DSBN

**Audience:** Grades 9 - 12

This is part 2 of a double session. Participants should have also selected A4.

### B5: Strands? Expectations? Categories? How Do I Record Marks When I Spiral With Activities?

**Presenters:** Alison Pridham & Deanna Ward, DSBN

**Audience:** 9 - 12

After spiraling, with a focus on student-centred classes for two years, we decided it was time to tackle assessment and evaluation. We love spiralling and activities, but traditional recording of marks wasn't working. Our current TLLP group is focusing on planning meaningful formative assessments and intentionally incorporating observation and conversation. If you have decided to spend more time spiraling, in this session we will share techniques for gathering, recording, and sharing evidence of the learning occurring in your classes.

### B6: Breaking Away from a Workbook in MEL3E/4E

**Presenter:** Danielle Grebenc, DSBN

**Audience:** Grades 11, 12

Are you teaching MEL3E and looking for a change and some new resources? Following Mr. Orr's lead, this session will focus on engaging learners in a more active classroom routine. Walk away with resources that focus on meeting curriculum expectations through the use of warm-ups, 3-act lessons and encouraging class discussion.

### B7: MCF3M – The Middle Child

**Presenter:** Jennifer Corbett, DSBN

**Audience:** Grade 11

When you think of 3M, who do you envision in front of you and what math story are they coming with? In this session you will have an opportunity to experience a variety of tried and tested activities that you can take back to your classroom. Ideas for consolidation will also be discussed. Some thoughts on ways to structure the course to engage and support students from both streams will also be shared. Taking a more applied approach to 3M is necessary for some, but good for all!

## Dinner

This year's dinner will be a buffet selection including salads, pasta, an entree with side dishes and desserts. A drink ticket will also be provided for your choice of wine or beer, compliments of Golden Section.

## Registration Information

<b>Conference Fee:</b>	\$20.00 for OAME member
	\$25.00 for non-member
	\$10 for Faculty of Education Students
<b>Dinner:</b>	additional \$25.00

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

Sign in, click on **Choose Conference**, then click on **Online Registration for Golden Mini-Conference 2018**.

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

Other questions can be directed to: [elizabeth.pattison@dsbn.org](mailto:elizabeth.pattison@dsbn.org) or [laura.cronshaw@ncdsb.com](mailto:laura.cronshaw@ncdsb.com)

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/>