Ontario Association for Mathematics Education
Association ontarienne pour l'enseignement des mathématiques

2004 Leadership Conference

for teachers, administrators, co-ordinators/consultants



A Continuum of Mathematics Understanding

FEBRUARY 19-21, 2004
Delta Toronto Airport West Hotel
(5444 Dixie Road, Mississauga, Ontario)

An opportunity to investigate and know when mathematics is happening in the classroom and focus on ONE of the following:

Grades JK - 3	---	Primary Mathematics!! What SHOULD it look like? What SHOULD it sound like?
Grades 4 - 6	---	How Can We Make Mathematics Powerful and Meaningful?
Grades 7 - 8	---	Lighting Mathematical Fires
Grades 9 - 10	---	The Continuum of Learning in Grades 9 and 10
Grades 11 - 12	---	Engaging Grade 11 and 12 Students

All Inclusive Registration Fee: $428/$458 (OAME/non-OAME)
Includes: All sessions, 2 nights accommodation (2 people/room), meals, banquet, receptions, publishers' and suppliers' displays

TEACHERS ARE ENCOURAGED TO INVITE AN ADMINISTRATOR TO ATTEND WITH THEM

WHY SHOULD TEACHERS, ADMINISTRATORS, AND CONSULTANTS ATTEND THIS CONFERENCE?

…to improve instruction in math classrooms to provide a rich and meaningful experience for students;
... to examine the "look fors" : what should be seen, heard, experienced in a mathematics classroom?
... to identify resources that are effective in building mathematics understanding;
... to acquire practical strategies to share with colleagues about program improvement;
... to discuss and share thoughts and views on current issues with other educators

Program Overview

DAY	TIME	ACTIVITY
Thursday Feb. 19, 2004	6 p.m. - 8 p.m.	Registration in Hawthorne Room Foyer
	8 p.m. - 9 p.m.	OPENING KEYNOTE SPEAKER – **Dr. Pat Rogers:** ***"Taking the Time to Do It Their Way"*** At all levels of education, teaching mathematics their way entails adopting a variety of approaches, using a variety of media, appealing to all the senses, and respecting the diversity of students' values, learning styles and life experiences. An important other dimension is time: time to get inside a problem, time to mull it over, time to make mistakes and indeed time to go fast slowly.
	9 p.m. - 11 p.m.	Reception
Friday Feb. 20, 2004	7 a.m. - 8:30 a.m.	Breakfast
	9 a.m. - 12 noon	WORKGROUPS: Leaders: Each team consists of a lead teacher/co-ordinator and an administrator Grades JK – 3: Joanne Simmons, Joyce Tonner and Doug Duff Grades 4 - 6 : Elizabeth Ainslie and Luther Brown Grades 6 - 8 : Trevor Brown and Chen Ling Chan Grades 9 - 10 : Connie Quadrini and Mary Puopolo Grades 11 - 12: Shirley Dalrymple and Steve Bewcyck
	12 :15 - 2:15 p.m.	Publishers'/Suppliers' Luncheon: preview of new products and an opportunity to view the many displays
	2:30 p.m. - 4:30 p.m.	WORKGROUPS
	4:30 p.m. - 6:30 p.m.	Free Time
	6:30 p.m. - 7 p.m.	Cash bar
	7 p.m. - 9 p.m.	BANQUET & KEYNOTE SPEAKER – **Jack Weiner**: ***"Ten of My Favourite Teaching Moments"*** Jack will share with you ten special teaching times he has had in and out of the classroom. And he wants to hear about yours!
	9:15 p.m. - 11 p.m.	Reception
Saturday Feb. 21, 2004	7 a.m. - 8:30 a.m.	Breakfast
	9 a.m. - 11 a.m.	WORKGROUPS
	11 a.m. -11:30 a.m.	Checkout (before lunch and closing session)
	11:30 a.m. - 1 p.m.	LUNCH, THANK YOUs AND GOOD-BYEs!

ABOUT THE KEYNOTE SPEAKERS

Pat Rogers

Pat is currently Dean of Education at the University of Windsor. Prior to that she taught at York University where she founded and directed the Centre for the Support of Teaching. A professor of mathematics and education, she has over 30 years of experience at all levels from kindergarten to graduate school. Pat has won several scholarly awards, and has been invited to to give workshops and plenary speeches on a variety of teaching and learning topics across North America, Britain, Europe, China and Australia. She has published two co-edited books, Voices from the Classroom (2001), and Equity in Mathematics Education: Influences of Feminism and Culture (1995). A recent article in Orbit, entitled 'Changing Women or Changing Mathematics? A Mathematician's Story,' takes a semi-biographical look at gender issues in math.

Jack Weiner

Jack taught at the University of Guelph from 1974 to 1976. He spent the next five years teaching at Parkside H.S. in Dundas. In 1982, he was re-recruited by Guelph and has been happily teaching and writing there ever since. Currently as Associate Professor, he has won both the University of Guelph Professorial Teaching Award and the prestigious Ontario Association of University Faculty Association Teaching Award. He has been listed as a "Popular Professor" in MacLean's annual Canada wide University survey five years out of six! His most recent publication is "The Mathematics Survival Kit", published by Nelson.

Program Details

Each participant will remain with the same workgroup for a total of 7 hours of workshop time, with some breakout groups for administrators on Friday

GRADES JK-3 WORKGROUP

PRIMARY MATHEMATICS!! What SHOULD it look like? What SHOULD it sound like?

The Math Strategy is here! We have new resources and a renewed enthusiasm for how young children learn mathematics. This session will focus on the implications of the expert panel report at the school level. What can teachers be doing to improve student understanding and what can administrators be doing to support growth at all levels? We will work as a team to answer these questions and to prepare action plans to ensure the learning continues beyond the training!

Workgroup Leaders:

Joanne Simmons is a Math Instructional Leader for the Toronto DSB, recently served as a member of the Early Math Expert Panel and is currently developing primary mathematics resources with Nelson Thompson Learning.
Joyce Tonner is the Learning Supervisor of Math/Science/Technology/Environment at the Thames Valley DSB, part of the Nelson Thompson authoring team, a pre-service teacher at UWO, and on the OAME board of Directors.
Doug Duff is a mathematics Primary Junior pre-service teacher at UWO and currently on secondment with Nelson Mathematcs from the Thames Valley DSB where he has been a Principal, and Learning Supervisor of Math/Science/Technology/Environment.

GRADES 4 - 6 WORKGROUP

How Can We Make Mathematics Powerful and Meaningful?

How were we taught Mathematics? How well did it work for us? For our peers? What works for our students? What do our students need? What do we value? What do our students value? How can we make Math both powerful and meaningful not only for the students in our own classrooms but also for the students throughout our whole school? We will investigate these and many other issues all focussed on teaching our students effectively. We will look not only at mathematics from a grades 4 through 6 perspective, but also the role of administration in supporting strong mathematics programs and how this plays out at the school level. Key features of excellence in the teaching of Mathematics will be identified and put in the context of how to make all teachers empowered to attain this as a goal.

Workgroup Leaders:

Elizabeth Ainslie is a Mathematics and Numeracy Instructional Leader for the Toronto DSB and at different times has focussed on the Junior, Intermediate and Secondary programs.
Luther Brown is the principal of Brookhaven PS, a K-5 school in the Toronto DSB.

GRADES 7- 8 WORKGROUP

Lighting Mathematical Fires

A major element in the teaching of mathematics is to show students how to think mathematically, to look at alternate ways of solving problems and to realize that mathematics is more than a series of exercises in a book. Thinking mathematically is one key to the development of deep conceptual understanding, which is essential for all students.

Workgroup Leaders:

Trevor Brown is a former Instructional Leader in Mathematics for the Toronto DSB and a course director for AQ Intermediate Mathematics at OISE/University of Toronto.
Chen Ling Chan is the Principal of Deer Park Junior and Senior Public School in the Toronto DSB.

GRADES 9-10 WORKGROUP

The Continuum of Learning in Grades 9 and 10

Participants will journey via the continuum of learning and examine a number of important phases that promote meaningful, rich and successful learning experiences for students. This workshop will focus on creating a motivating and stimulating learning environment, and provide participants with the opportunity to discover how the use of manipulatives and technology enables students to construct their own understanding of mathematical concepts. Further, this workgroup will discuss the various ways in which students can communicate this understanding, as well as demonstrate their learning using real life performance tasks and problems. For technology examples, participants should bring a TI83+ calculator and a laptop with GSP4 and Fathom installed.

Workgroup Leaders:

Connie Quadrini is the Math Head at St. Augustine CHS in the York Catholic DSB and instructs the Math Honours Specialist AQ course at OISE/UT. She won the 2003 Union Gas Award for Leadership in Mathematics in Ontario.
Mary Puopolo is the founding principal of St Augustine CHS, the York Catholic DSB's first high school with a focus on *eLearning.* She is the recipient of the Learning Partnership's Charlie Pielsticker Award for her work to establish business-learning partnerships.

GRADES 11-12 WORKGROUP

Engaging Grade 11 and 12 Students

Students learn best when they are actively engaged in the learning process. This workgroup will focus on learning and assessment activities to engage grade 11 and 12 students. Special attention will be focussed on assisting administrators and mathematics departments to recognize and cultivate effective mathematics instructuion in their schools. Some examples will include the use of technology so bring a TI83+ graphing calcuator.

Workgroup Leaders:

Shirley Dalrymple is Math Head at Thornhill S.S. in the York Region DSB, a former president of OAME, and was a member of writing teams for the OSS policy documents, course profiles and other new curriculum resources.
Steve Bewcyck is the principal at Thornhill S.S., York Region DSB. Before he became an administrator he was a mathematics teacher.

P.S. Give a copy of this brochure to your administrator

O.A.M.E. Leadership Conference 2004
Registration Form

Registration Fee (before December 31/03): OAME MEMBER **$428;** NON-MEMBER **$458**
Fee includes: All sessions; 2 nights at Delta Toronto Airport West Hotel (2 people/room);
2 breakfasts, 2 lunches, 1 banquet, 2 receptions; taxes& gratuities.
Surcharge for Single Room: $128.00. Surcharge for Registration after December 31/03: $25
Special rate without accommodation $328/358 (OAME MEMBER/NON-MEMBER).

Name: _____ Gender: Male ❑ Female ❑
surname first name

Home Address:_____
street city postal code

School Name:_____Board_____

Telephone #: (_____)_____ (_____)_____
home business

Fax #: (_____)_____ Email:_____

Please indicate: Teacher ❑ Administrator ❑ Co-ordinator/Consultant ❑ Other ❑

OAME Member YES ❑ NO ❑ Membership#_____

I wish to become an OAME member YES ❑ and enclose the $40 annual fee (and hence pay the member's fee for this conference).

Conference Arrangements

I will be staying at the Delta Toronto Airport West Hotel: YES ❑ NO ❑
I wish non-smoking accommodation: YES ❑ NO ❑
I wish to be booked accommodation with: _____
PRINT Name of Other Registrant for Conference

OR I wish shared accommodation to be arranged for me. ❑

OR I wish Single accommodation and enclose the $128 surcharge. ❑

Total Amount Enclosed: $ _____

Workshop Series Choice

Write 1 or 2 for first & second choice. Each workshop series will be filled on a first come basis

Grades JK-3 ❑ Grades 4-6 ❑ Grades 7-8 ❑ Grades 9-10 ❑ Grades 11-12 ❑

Laptop

If you chose the grade 9&10 workshop, could you bring a laptop? Yes ❑ No ❑

Please send this Registration Form and a cheque made out to OAME to:
70 Chestnut Crt, London ON, N6K 4J5
OR: Mail/ Fax to 519 471 6324 with Credit Card Information: VISA ❑ or Mastercard ❑
Cardholder Name (Print) _____
Card Number _____ Expiry Date _____/_____
Authorizing Signature _____ Today's Date _____
For further information phone or fax Sue or Dave Hessey: 519 471 6324
or email: oame.hessey@sympatico.ca
All registrations will be confirmed by mail/fax within 14 days of being received.