The Eleventh Annual North/South Dialogue and Alberta College Mathematics Conference Mount Royal University, Calgary, Alberta, May 5, 2011

Time	Speaker(s)	Title	Abstract/Description
8:30 am – 9:00 am		D EARLY MORNING	COFFEE BREAK – BEVERAGES AND SOME BAKERY ITEMS
	PROVIDED		
9:00 am – 9:05 am	Bryan Lane,	Greetings from the	
	Dean, Faculty of	College and	
EA 1031	Science and	Organizers	
	Technology,		
	Mount Royal		
	University		
		ã de la m	
			<u>or: Mariya Svishchuk</u>
9:05 am – 9:30 am	Dr. Rossitza S.	Math Kangaroo	Math Kangaroo is an international project that involves over five
	Marinova,	Outreach Activities	million students in grades 2-12 and hundreds of mathematicians from
EA 1031		in Alberta	46 countries. The Canadian Math Kangaroo contest is currently
	Concordia		available in a number of cities in Canada—Calgary, Edmonton,
	University College		Langley, Montreal, Ottawa, St. John's, Sudbury, the Greater Toronto
	of Alberta		Area, and Winnipeg. In Calgary and Edmonton, the contest expanded
			from 150 students in 2008, to 183 students in 2009, and to 250 students
			in 2010. The math clubs are rising in popularity in both Calgary and
			Edmonton, with over 160 participants enrolling in 2010-2011 compared
			to 70-80 in 2009-2010. Math Kangaroo-related clubs, classes, and
			preparation sessions inspire and promote interest and excellence in

			math among students. These activities also engage university students, who gain a valuable experience by volunteering in the preparation and delivery of the training, as well as in the supervision and marking on the contest day.
9:30 am – 10:00 am	Tiina Hohn,	Instant Insanity, 'Donut' Talks at	In the past two years we have enjoyed a series of undergraduate talks at Grant MacEwan University. These talks are presented by the
EA 1031	Grant Mac Ewan University	MacEwan	at Grant MacEwan Oniversity. These tarks are presented by the math/stats faculty members and the idea is to bring our own interest and research areas in mathematics to our first and second year students. Invitation is open University wide and attracts students and faculty from other departments as well, especially when applied research is presented. At the same time we introduce our favourite mathematician. Name 'donut talk' comes from the torus shaped goodies from Timmies. I will present my 'donut' talk: Classic puzzle instant insanity and its analytical solution by using graph theory. Hands on!
10:00 am -11:00 am	Jim Stallard ,	Using Techno Tools in the Classroom	
EA 1031	University of Calgary		
11:00am–12:00 noon Faculty Center	Lunch		
		Session facilitate	or: Ganesh Bhandari
12:00noon-12:30pm	Christine Henzel Team Leader,	The Revised High School Mathematics	Join Alberta Education to learn about the changes to the Grades 10-12 Mathematics Program of Studies which began implementation in
EA 1031	Mathematics and Sciences Curriculum Sector, Alberta Education Diane Stobbe,	Program of Studies	September 2010. An overview of the new course sequences and key changes to the program will be highlighted.
	Curriculum		

	Manager, Mathematics with French Language Education Services, Alberta Education		
12:35 am – 1:05 pm	Gord Hamilton,	Hitting K-12 Students with	One unsolved problem is being chosen for each grade K-12. MathPickle and PIMS are seeking sponsors to put up a \$1,000,000
EA 1031	Math Pickle	Unsolved Problems	prize for each of the thirteen problems - the prize to be split between the mathematician who solves the problem and their most inspirational K-12 teacher
1:10 pm – 1: 40 pm	Manny Esterbrooks	Guidebook to Calculus for the	This topic comes about because of general lack of consensus as to what constitutes an introductory level calculus course
EA 1031	Red Deer College	21st Century	At many institutions, grad students teach the beginner level Calculus course, and the tests vary greatly as to the concepts tested and level of difficulty of the exams. We have this situation at our College where some instructors do not allow calculators while others do, some allow formula sheets while others do, some instructors formulas exam questions that are very challenging while others are effectively a copy of the Math 31. This is an attempt to outline some of the parameters for a general calculus course in light of the internet and the prevalence of calculators, what is the place of the latter? Etc.
1:45 pm – 2:15 pm	Thompson		The sponsor of the coffee break would like to update us on their latest products!_
EA 1031	Book Representative		
2:15 pm – 2:25 pm.,	Coffee Break		
			ator: Eric Roettger
2:25 pm – 2:55 pm	Laura McJannet	ALEKS Presentation	The sponsor of the coffee break would like to update us on their latest products!_
EA 1031	McGraw hill Book		

	Representative		ALEKS is a unique Web-based program that uses artificial	
			intelligence and adaptive questioning to assess precisely a	
			student's knowledge in accounting, and provide personalized	
			instruction on the exact topics the student is most ready to	
			learn. As a result, ALEKS interacts with students much like a	
			skilled human tutor to target gaps in skills and dramatically	
			improve performance and retention, while also saving	
			instructor time.	
3:00 pm – 4: 00 pm,	KEYNOTE	You can be as good	but I can't get you up to speed in fifty minutes,	
EA 1031	Professor	as the Babylonians	because they had several advantages that we don't	
	Richard Guy	at Arithmetic	have today. We will try to guess how they were able	
			to calculate the square root of two to the accuracy	
			that they were able to achieve, and compare this	
			method with one that we might use today. This will	
			give me an excuse to ride a hobby-horse of mine	
			`negative' continued fractions which I claim to	
			have several advantages over the `regular' ones.	
4:05 pm – 5: 00 pm,	Panel Discussion			
EA 1024				
	Facilitators: Mariya & Shawn			
05:00- 07:00 pm	SUPPER			
Lincoln Park Room				