

**Mathematicians and School Mathematics Education:
A Pan-American Workshop
January 26–January 31, 2014**

MEALS

*Breakfast (Buffet): 7:00–9:30 am, Sally Borden Building, Monday–Friday

*Lunch (Buffet): 11:30 am–1:30 pm, Sally Borden Building, Monday–Friday

*Dinner (Buffet): 5:30–7:30 pm, Sally Borden Building, Sunday–Thursday

Coffee Breaks: As per daily schedule, in the foyer of the TransCanada Pipeline Pavilion (TCPL)

***Please remember to scan your meal card at the host/hostess station in the dining room for each meal.**

MEETING ROOMS

All lectures will be held in the lecture theater in the TransCanada Pipelines Pavilion (TCPL). An LCD projector, a laptop, a document camera, and blackboards are available for presentations.

DRAFT SCHEDULE (1/20/2014)

Sunday

- 16:00** Check-in begins (Front Desk - Professional Development Centre - open 24 hours)
17:30–19:30 Buffet Dinner, Sally Borden Building
20:00 Informal gathering in 2nd floor lounge, Corbett Hall
Beverages and a small assortment of snacks are available on a cash honor system (Canadian currency only).

Monday

- 7:00–8:45** Breakfast
8:45–9:00 Introduction and Welcome by BIRS Station Manager, TCPL
9:00–9:20 Welcome and Conference Introduction (The Organizers)
9:20–10:00 Lecture: Hyman Bass, *Roles of Mathematicians in Mathematics Education*.
10:00–10:30 Coffee Break, TCPL
10:30–11:30 Panel: Bernard Hodgson, Bill McCallum, Mike Zabrocki, *The State of Mathematics Education in North America*.
Structure of the system, student achievement, and impact of education research.
11:30–13:00 Lunch
13:00–14:00 Guided Tour of The Banff Centre (Optional); meet in the 2nd floor lounge, Corbett Hall
14:00 Group Photo; meet in foyer of TCPL (photograph will be taken outdoors so a jacket might be required).
14:10–15:10 Panel: Lilliam Alvarez, Carlos Bosch, Antonio Cafure, Gabriela Gomez Pasquali, Carmen Samper, Leonor Varas, *The State of Mathematics Education in South and Central America*.
Structure of the system, student achievement, and impact of education research.
15:10–15:30 Coffee Break, TCPL
15:30–16:30 Panel on *The State of Mathematics Education in South and Central America* continued.
17:30–19:30 Dinner
19:30–21:30 Lounge open for informal discussions, 2nd floor lounge, Corbett Hall

Tuesday

- 7:00–9:00** Breakfast
- 9:00–10:20** Panel: Richard Bisk, Brigitte Lahme, Salome Martinez, James Madden. *Examples of mathematicians' work in pre-service teacher education.*
- 10:20–10:40** Coffee Break, TCPL
- 10:40–11:30** Gabriela Gomez Pasquali, *Paraguay Solves: Aiming high from the bottom of the well.*
- 11:30–13:30** Lunch
- 13:30–14:30** Panel: José Antonio de la Peña, Victor Giraldo, Frédéric Gourdeau. *Examples of mathematicians' work developing online resources.*
- 14:30–15:00** Coffee Break, TCP
- 15:00–16:00** Panel: Ed Barbeau, Roger Howe, Scott Baldrige. *Examples of mathematicians' work on curriculum.*
- 17:30–19:30** Dinner
- 19:30–21:30** Lounge open for informal discussions, 2nd floor lounge, Corbett Hall

Wednesday

- 7:00–9:00** Breakfast
- 9:00–10:20** Panel: Yuriko Baldin, Carlos Bosch, Deborah Hughes Hallett, Mike Zabrocki. *Examples of mathematicians' work in in-service teacher education.*
- 10:20–10:40** Coffee Break, TCPL
- 10:40–11:30** Jim Lewis, *Building partnerships to strengthen mathematics teaching and learning.*
- 11:30–13:30** Lunch
Free Afternoon
- 17:30–19:30** Dinner
- 19:30–21:30** Lounge open for informal discussions, 2nd floor lounge, Corbett Hall

Thursday

- 7:00–9:00** Breakfast
- 9:00–10:20** Panel: Herb Clemens, Bernard Hodgson, José Antonio de la Peña, Manuel Limonta. *Building international cooperation.*
- 10:20–10:40** Coffee Break, TCPL
- 10:40–11:30** Carlos Bosch, *An in-service teacher training course: science at your school on-line.*
- 11:30–13:30** Lunch
- 13:30–14:30** Panel: Sol Friedberg, Roger Howe, Salome Martinez. *Examples of the work of mathematicians in mathematics education policy.*
- 14:30–15:00** Coffee Break, TCPL
- 15:00–15:50** Patricio Felmer, *Experiences in school mathematics in Chile.*
- 15:50–16:50** Panel: Frédéric Gourdeau, Yvonne Lai, Leonor Varas. *Collaboration between mathematicians and mathematics education researchers.*
- 17:30–19:30** Dinner
- 19:30–21:30** Lounge open for informal discussions, 2nd floor lounge, Corbett Hall

Friday

- 7:00–9:00** Breakfast
- 9:00–10:20** Informal Discussions
- 10:20–10:40** Coffee Break, TCPL
- 11:30–13:30** Lunch
- Checkout by
12 noon.**

** 5-day workshop participants are welcome to use BIRS facilities (BIRS Coffee Lounge, TCPL and Reading

Room) until 3 pm on Friday, although participants are still required to checkout of the guest rooms by 12 noon. **

Name of 2013 5-day Workshop

Date of 2013 5-day Workshop

ABSTRACTS

(in alphabetic order by speaker surname)

Speaker: **Carlos Bosch** (Instituto Tecnológico Autónomo de México)

Title: *An in-service teacher training course: science at your school on-line.*

Abstract: How to scale a program? We will present the new distance teacher's training program, the set up process, the learning process and the evaluation process established.

Speaker: **Patricio Felmer** (Universidad de Chile)

Title: *Experiences in School Mathematics in Chile*

Abstract: In this talk we discuss some experiences in school mathematics where mathematicians have played an important role: in public policy, material development and education research.

Speaker: **Jim Lewis** (University of Nebraska)

Title: *Building partnerships to strengthen mathematics teaching and learning*

Abstract: Strengthening the mathematical education of teachers is an essential part of any plan to improve mathematics teaching and learning in U. S. K–12 schools. But, just as "All politics is local," one's ability to strengthen the mathematical education of teachers in their department, university, city, or state is directly tied to one's ability to understand and influence local issues. Our approach has been to build collaborations between mathematicians, mathematics educators, teachers and administrators at both the collegiate and K–12 level. We will report on over two decades of work in Nebraska.