Canadian Society for History and Philosophy of Mathematics

Saturday, June 15, 2024
BURN 1104

8:45 AM - 9:00 AM Welcome from CSHPM President Nicolas Fillion

**Special Session: Looking Back**
*Moderator: Maria Zack*

9:00 AM - 10:00 AM Panel Discussion: CSHPM at 50
Rob Bradley, Elaine Landry, Robert Thomas, Glen Van Brummelen

10:00 AM - 10:30 AM Amy Ackerberg-Hastings, MAA Convergence
*The Communications of CSHPM*

10:30 AM - 11:00 AM Break

**Special Session: Looking Ahead Part I**
*Moderator: Zoe Ashton*

11:00 AM - 11:30 AM Alma McKown, Albuquerque Public Schools
*Creating a Prehistory and Future for Indigenous Mathematics in the American Southwest*

11:30 AM - 12:00 PM Conny Knieling, University of Pittsburgh
*The Emergence of Projective Geometry: Its methodological pillars and their historical origins*

12:00 PM - 12:30 PM Koray Akcaguner, University of Calgary
*On Mathematical Constructions and Construction Tools*

12:30 PM - 2:00 PM Lunch Break

**Special Session: Looking Ahead Part II**
*Moderator: Conny Knieling*

2:00 PM - 2:30 PM Valérie Lynn Therrien, McGill University
*The Pre-History of Model Theory: The Theory of Relatives from De Morgan to Lowenheim*

2:30 PM - 3:00 PM Dax Avery Hamouth, Concordia University
*Twinned Necessities: On Carnap’s non-distinction between Metaphysical and Logico-Mathematical Necessity*

3:00 PM - 3:30 PM Jared Ifland, University of California, Davis
*Metaontology in Light of the Frege-Hilbert Controversy*

3:30 PM - 4:00 PM Break
Special Session: Looking Ahead Part III

Moderator: Valérie Lynn Therrien

4:00 PM - 4:30 PM Francisco Martínez-Aviña, University of California, Davis
Grothendieck’s perspectival realism

4:30 PM - 5:00 PM Bradley Dart, Memorial University of Newfoundland
A Semantics and Pragmatics of Representation: Diagrams as Models

5:00 PM - 5:30 PM Tessa Ng, University of Toronto
How do mathematical models explain physical phenomena?

5:30 PM - 6:00 PM Zoe Ashton, The Ohio State University
Mathematical Rigor, Conviction, and Injustice

Sunday, June 16, 2024
BURN 1104

History of Mathematics Before 1600

Moderator: Andrew Perry

9:00 AM - 9:30 AM Stela Segev, Herzog College, Jerusalem, Israel
Elijah Mizrahi - rabbi, mathematician, and teacher in Constantinople, at the beginning of the 16th century

9:30 AM - 10:00 AM Glen Van Brummelen, Trinity Western University
Bianchini’s reform of mathematical astrology

10:00 AM - 10:30 AM Break

Primary Sources and Mathematics

Moderator: Amy Ackerberg-Hastings

10:30 AM - 11:00 AM Patrick Wallach, Queensborough Community College
Researching Sixty Years of Department History and Student Diversity

11:00 AM - 11:30 AM Diana White, University of Colorado, Denver
Supporting Faculty in the Adoption of Curricular Modules to Teach Mathematics Using Primary Historical Sources

11:30 AM - 1:30 PM Lunch and the AGM
A selection of vegetarian and non-vegetarian options
Philosophy of Mathematics
Moderator: Greg Lavers
1:30 PM  -  2:00 PM  Nicolas Fillion, Simon Fraser University  
Thinking about the validity of arguments involving partially indeterminate operators

2:00 PM  -  2:30 PM  Elaine Landry, University of California, Davis  
Breaking Benacerraf

2:30 PM  -  3:00 PM  Bernd Buldt, Purdue University, Fort Wayne  
Remarks on open sets

3:00 PM  -  3:30 PM  Break

History of Mathematics in the Seventeenth and Eighteenth Centuries
Moderator: Craig Fraser
3:30 PM  -  4:00 PM  Maria Zack, Point Loma Nazarene University  
Searching for an Equation for the Cycloid

4:00 PM  -  4:30 PM  Lawrence D’Antonio, Ramapo University  
Richard Towneley, the forgotten scientist of Towneley Hall

4:30 PM  -  5:00 PM  Marion Alexander, Houston Community College  
Some Eccentric 18th Century Scots and Their Use of Continued Fractions

5:00 PM  -  5:30 PM  Gregg DeYoung, American University in Cairo  
Translating John Bonnycastle’s Elements of Geometry into Ottoman Turkish

Monday, June 17, 2024
BURN 1104

History of Mathematics Since 1700 Part I
Moderator: Eisso Atzema
9:00 AM  -  9:30 AM  Robert Bradley*, Adelphi University  
Reilly Fortune, CUNY York University  
Reflections on Euler’s Solution of the Wave Equation

9:30 AM  -  10:00 AM  Craig Fraser, University of Toronto  
The Multiplier Rule in the Calculus of Variations

10:00 AM  -  10:30 AM  Christopher Baltus, State University of New York, Oswego  
Moebius and the Moebius Transformation

10:30 AM  -  11:00 AM  Break
History of Mathematics Since 1700 Part II
Moderator: Marion Alexander
11:00 AM - 11:30 AM Andrew Perry, Springfield College
   Stefan Banach, Unique Mathematician
11:30 AM - 12:00 PM Eisso Atzema, University of Maine, Orono
   Trisection in Context
12:00 PM - 1:30 PM Lunch Break

Philosophy of Mathematics
Moderator: Nicolas Fillion
1:30 PM - 2:00 PM Greg Lavers, Concordia University
   Frege’s Three Definitions of Number in the Grundlagen
2:00 PM - 2:30 PM Jean-Charles Pelland, University of Bergen
   Mathieu Marion, University of Quebec in Montreal
   Wittgenstein on Surveyability: New Directions
2:30 PM - 3:00 PM Patricia Marino, University of Waterloo
   Applied Mathematics and Idealization in the Economics Context