

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