Canadian Society for the History and Philosophy of Science
Annual Conference

Congrès annuel de la Société canadienne d’histoire et de philosophie des sciences

1-3 June/juin 2019

University of British Columbia
Vancouver, B.C.
Canada

Part of the Congress of the Humanities and Social Sciences
Dans le cadre du Congrès des sciences humaines
## Programme at a Glance / Programme sommaire

### SATURDAY JUNE 1 / SAMEDI 1 JUIN

<table>
<thead>
<tr>
<th>Time</th>
<th>Room</th>
<th>Buch-D218</th>
<th>Buch-D316</th>
<th>Buch-D322</th>
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</thead>
<tbody>
<tr>
<td>8:30 – 10:00</td>
<td>Philosophy of Biology I: Evolution</td>
<td>New Conversations in the Field of Science and Religion</td>
<td>Measuring the Mind</td>
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<tr>
<td>10:30 – 12:00</td>
<td>Causation and Causal Inference</td>
<td>Sociology of Scientific Knowledge</td>
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<td>[Cancelled session]</td>
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<tr>
<td>13:30 – 15:00</td>
<td>Methods in the Philosophy of Science</td>
<td>Machine Learning and Artificial Intelligence</td>
<td>Mines, Mountains, Caves: Sites of Knowledge Making</td>
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<tr>
<td>15:30 – 17:00</td>
<td>Probability and Evidential Reasoning</td>
<td>Values and Theory Choice</td>
<td>Science in Asia in the 19th and 20th Centuries</td>
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<tr>
<td>17:00 – 18:30</td>
<td>International Keynote Speaker: <em>Two Approaches to Social Epistemology</em>  by Helen Longino</td>
<td>(Location: Buchanan-A102)</td>
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### SUNDAY JUNE 2 / DIMANCHE 2 JUIN

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<tbody>
<tr>
<td>8:30 – 10:00</td>
<td>Non-causal and Mathematical Explanations</td>
<td>Science and Public Policy</td>
<td>Natural History and Collections</td>
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<tr>
<td>10:30 – 12:00</td>
<td>Philosophy of Biology II: Ontology and Taxonomy</td>
<td>Science, Science Policy and the Federal State in Canada</td>
<td>Science in the Soviet Union</td>
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<tr>
<td>13:30 – 15:00</td>
<td>Methodology of Research and Experiments</td>
<td>Climate Science</td>
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<td>Women, Transnational Mobilities, and Medico-Scientific Innovation (joint session with CSHM)  Location: SWNG 222</td>
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<tr>
<td>15:30 – 17:00</td>
<td>Stillman Drake Lecture: <em>Data Madness and Quantified Heredity</em>  by Theodore Porter</td>
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<tr>
<td>17:00 – 18:00</td>
<td>President’s Reception</td>
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### MONDAY JUNE 3 / LUNDI 3 JUIN

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<th>Time</th>
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<th>Buch-D218</th>
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<tbody>
<tr>
<td>8:30 – 10:00</td>
<td>Philosophy of Time (starts at 9:00)</td>
<td>Scientific Explanation</td>
<td>Scientific Lives and Correspondence</td>
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<tr>
<td>10:30 – 12:00</td>
<td>Logic and Structure of Scientific Theories</td>
<td>Scientific Approaches to Health Care</td>
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<td>Book Panel on Christopher Byrne: <em>Matter and Teleology in Aristotle’s Natural Philosophy</em></td>
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<tr>
<td>12:00 – 13:30</td>
<td>Annual General Meeting &amp; Hadden Prize Ceremony (Lunch Served; Buchanan A-102)</td>
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<tr>
<td>13:30 – 15:00*</td>
<td>Scientific Realism</td>
<td>Models and Mathematical Foundations of Science</td>
<td>Ancient and Early Modern Science</td>
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<tr>
<td>15:30 – 17:00</td>
<td>Inquiry and Scientific Progress</td>
<td>Computation: Philosophical and Social Perspectives</td>
<td>History and Philosophy of Psychiatry</td>
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# Programme

**FRIDAY MAY 31**

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<th>Time</th>
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<tr>
<td>18:00 - 20:00</td>
<td>Executive Meeting / Réunion du Comité exécutif</td>
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<td>Henry Angus 332</td>
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**SATURDAY JUNE 1**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>8:30 - 10:00</td>
<td><strong>PHILOSOPHY OF BIOLOGY I: EVOLUTION</strong></td>
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<tr>
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<td>Chair: <strong>Tiernan Armstrong-Ingram</strong></td>
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<tr>
<td></td>
<td>Against a Force Theory of Evolution</td>
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<td></td>
<td><strong>Todd Nagel</strong> University of Western Ontario and**</td>
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<td><strong>Aleta Quinn</strong> University of Idaho</td>
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<td>Emergence and Novelty in Evolutionary Biology</td>
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<td><strong>Yasmin Haddad</strong> McGill University</td>
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<td>The Evolution of Moral Belief: Support for the Debunker's Causal Premise</td>
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<td><strong>Michael Dale</strong> University of Texas at Austin</td>
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<tr>
<td>8:30 - 10:00</td>
<td><strong>SESSION: NEW CONVERSATIONS IN THE FIELD OF SCIENCE AND RELIGION</strong></td>
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<td>Chair: <strong>Anthony Nairn</strong></td>
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<td>Moving Beyond Complexity: Re-thinking Historiographical Approaches to Science and Religion</td>
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<td><strong>Sarah Qidwai</strong> University of Toronto</td>
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<td><strong>Psychedelic Testimony and Neurobiological Explanation</strong></td>
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<td><strong>Andrew Jones</strong> University of Toronto</td>
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<td>Perspectives of the Earth: The Distributed Affect of Three Photographs of the Earth and How the Transformation Perspective Exposes an Intersection Between Science and Religion</td>
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<td><strong>Anthony Nairn</strong> University of Toronto</td>
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<tr>
<td>8:30 - 10:00</td>
<td><strong>MEASURING THE MIND</strong></td>
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<td>Chair: <strong>Julien Prud’homme</strong></td>
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<td>Mediation in Measuring the Pure Experience of Pain</td>
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<td><strong>Celia Edell</strong> McGill University</td>
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<td><strong>Sander Verhaegh</strong> Tilburg University</td>
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<td><strong>COFFEE BREAK</strong></td>
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CAUSATION AND CAUSAL INFERENCE

Chair: Jacob Neal

Formalizing Causal Inference: Sewall Wright's Path Analysis in the Early Twentieth Century
Zili Dong Simon Fraser University

Process, not just Product: the Case of Network Motifs Analysis
Shimin Zhao Simon Fraser University

SOCIOMETRY OF SCIENTIFIC KNOWLEDGE

Chair: Alison Wylie

The Emergence of Peer Reviewed Books: University Press Publishing Editorial Practice in the United States
Joshua Silver University of Chicago

The Symmetry Principle and Post-Truth Politics: Taking the Strong Programme’s Naturalism Further
Kinley Gillette University of British Columbia

Anti-Psychologism, Distributed Cognition, and the Cognitive/Social Divide
Gui Sanches de Oliveira University of Cincinnati

SESSION: THE 'SCIENTIFIC OCCUPATION': PHOTOGRAPHY IN THE CONSTRUCTION OF THE PORTUGUESE AFRICAN EMPIRE

Session cancelled: Mendes Flores talk moved to June 2, 8:30.

12:00 - 13:30  LUNCH BREAK
13:30 - 15:00  Buch-D218  METHODS IN THE PHILOSOPHY OF SCIENCE

Chair: Nicolas Fillion

Negotiating History: Contingency, Canonicity, and Case Studies
Agnes Bolinska  University of Cambridge
Joseph Martin  University of Cambridge

What Counts as Scientific Practice?
Ananya Chattoraj  University of Calgary

Duham's Warning
Melanie Frappier  University of King's College

13:30 - 15:00  Buch-D316  MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE

Chair: Yasmin Haddad

The Return of Mind Design: Cognitive Science and the Turing/Ashby Debate
Darren Abramson  Dalhousie University
Erik Nelson  Dalhousie University

Analysis of the Rise of Deep Learning from a Philosophy of Science Perspective
Smitha Milli  University of California, Berkeley
Ravit Dotan  University of California, Berkeley

Representationism in Affordance-Based Robotics
Zachariah A. Neemeh  University of Memphis

13:30 - 15:00  Buch-D322  SESSION: MINES, MOUNTAINS, CAVES: SCIENTIFIC, TECHNOLOGICAL AND POLITICAL SITES OF KNOWLEDGE MAKING

Chair: Elspeth Gow

The Mine as Adversary: Leibniz versus the Harz Mountains
Andre Wakefield  Pitzer College

A Mountain, Romantics and a Nation: Science and the First Ascent of Mt. Ararat
Ernie Hamm  York University

National Spaces and Deepest Places: Politics and Practices of Verticality in the Scientific Research of Caves
Johannes Mattes  Austrian Academy of Sciences

15:00 - 15:30  COFFEE BREAK
PROBABILITY AND EVIDENTIAL REASONING

Chair: Paul Bartha
Conditionally Independent Evidential Sources
Robert Hudson University of Saskatchewan
There is More to Probabilities than Meets the Eye: How Private Information can be Inferred from Announced Credences
Somayeh Tohidi Simon Fraser University
Inductive Risk, Expected Utility, and the Consequences of P-Hacking
Adrian Erasmus University of Cambridge

VALUES AND THEORY CHOICE

Chair: Kinley Gillette
Science, Values, and Epistemic Standards: A Question of Sufficiency
Brandon Holter East Tennessee State University
A New Value-free Ideal: Disrupting the Hegemony of ‘Values’ in Social Philosophy of Science
Alan Richardson University of British Columbia
Machine Learning, Theory Choice, and Non-epistemic Values
Ravit Dotan University of California, Berkeley

SCIENCE IN ASIA IN THE 19TH AND 20TH CENTURIES

Chair: Ernie Hamm
Popular Science in India, c. 1830
Jason Grier Independent
Troubled Translations: Science and Ethnoscience in Twentieth-century Philippines
Geoff Bil New York Botanical Garden
Writing the Histories of Japanese Science: The Case of the Neutral Theory of Molecular Evolution
Cédric Blais University of King’s College

INTERNATIONAL KEYNOTE SPEAKER (OPEN SESSION)

TWO APPROACHES TO SOCIAL EPISTEMOLOGY
Helen Longino Stanford University
This talk is made possible in part thanks to the International Keynote Speaker Support Fund of the Canadian Federation for the Humanities and Social Sciences (CFHSS) /
Cette session est rendue possible grâce au support financier du Fonds de soutien des conférenciers internationaux de marque de la FCSH.
SUNDAY JUNE 2

8:30 - 10:00
Buch-D218

SESSION: NON-CAUSAL AND MATHEMATICAL EXPLANATIONS

Chair: Nicolas Fillion
I Can't Get No Satisfaction, but I Can Explain It
Nicolas Fillion Simon Fraser University
Levels and a New Role for Mathematics in Empirical Sciences
Atoosa Kasirzadeh University of Toronto
Mathematical Explanation and the Problem of Counterpossibles
Erlantz Exteberria University of Western Ontario

8:30 - 10:00
Buch-D316

SCIENCE AND PUBLIC POLICY / PHOTOGRAPHY IN PORTUGUESE EMPIRE

Chair: James Hull
Breaking Barriers to Ethical Research: An Analysis of the Effectiveness of Nonhuman Animal Research Approval in Canada
Letitia Meynell Dalhousie University
Macgregor Malloy Dalhousie University
Caroline Vardigans Dalhousie University
On the Mistaken Image of the Behavioral Sciences Prevalent in Policy Contexts: Insights from the Feminist Philosophy of Science
Magdalena Malecka Stanford University/University of Helsinki
Framing Territories, Making Borders: Photography in the Context of the Portuguese Missions of Border Delimitation (1890-1931)
Teresa Mendes Flores Instituto de Comunicação da Nova

8:30 - 10:00
Buch-D322

NATURAL HISTORY AND COLLECTIONS

Chair: Geoff Bil
The Epistemological Motivations Underlying the Narrative Ordering of American Ornithology
Caroline von Klemperer Simon Fraser University
The Materiality of Data: Collecting Scientific Information at a University
Erich Weidenhammer University of Toronto
Genetic Fantasy and Colonial Nostalgia: Backbreeding the “Native Breed” at Old Sturbridge Village
Elspeth Gow University of British Columbia

10:00 - 10:30

COFFEE BREAK
10:30 - 12:00
Buch-D218

PHILOSOPHY OF BIOLOGY II: ONTOLOGY AND TAXONOMY

Chair: Ingo Brigandt
Evidence for Ontological Weak Emergence
Hamed Tabatabaei Ghomi University of Cambridge
Genetics and Evolution: Is There More to Life than This?
Tiernan Armstrong-Ingram University of California, Davis
Taxonomic Responsibility
Aleta Quinn University of Idaho

10:30 - 12:00
Buch-D316

SESSION: SCIENCE, SCIENCE POLICY AND THE FEDERAL STATE IN CANADA

Chair: James Hull
Science, Industry and Policy in Early 20th-century Canada
James Hull University of British Columbia
You Can! Stop Waste So Others May Eat: Wastefulness, the Cold War, and Canada’s National Food Conservation Campaign, 1947-1948
Eric Striikwerda Athabasca University
Nuclear Anxieties: Fallout Research and the Northern Radiation Study, 1963-70
Matthew Wiseman University of Toronto

10:30 - 12:00
Buch-D322

SCIENCE IN THE SOVIET UNION

Chair: Alexei Kojevnikov
Schools for the Mathematically Gifted Students of the Former Soviet Union. Students’ Selection and Admissions. Creating Diversity within Gifted Education.
Inna Tokar City College NYC, FIT, Calhoun School
The Soviet Scientist as Inspector: the Communal Hygienists’ Struggle to Regulate Industrial Pollution
Christopher Burton University of Lethbridge

12:00 - 13:30

LUNCH BREAK
METHODOLOGY OF RESEARCH AND EXPERIMENTS

Chair: Sina Fazelpour

Sending Knowns into the Unknown: Towards an Account of Positive Controls in Experimentation
Rebecca Jackson Indiana University

Archaeological Interpretation as Iterative Process
Kristin Kokkov University of Tartu

From Metaphysics to Methods? Pluralism in Cancer Research
Katherine Valde Boston University

CLIMATE SCIENCE

Chair: Alan Richardson

Taking Values Seriously: Climate Services and Inductive Risk
Greg Lusk Michigan State University
Wendy Parker Durham University

“The Oceans are our Great Laboratory”: Marine Science and Ocean Governance in the Anthropocene
Antony Adler Carleton College

Climate Change: a Consequentialist Perspective
Carling Bergquist Dalhousie University

SESSION: WOMEN, TRANSNATIONAL MOBILITIES, AND MEDICO-SCIENTIFIC INNOVATION (OPEN SESSION)

Chair: Catherine Carstairs

Margaret Sanger in China: The Eugenic Debates on Birth Control and Overpopulation in 1922
Mirela David University of Saskatchewan

Hunting Armadillos and Whales: Frances Oldham [Kelsey] at the University of Chicago in the 1930s
Cheryl Krasnick Warsh Vancouver Island University

“This was a Drug that Healed — it was Love”: the Life and Career of Florence Nichols, Medical Missionary and Psychiatrist
Jill Campbell-Miller Carleton University

Joint session with the Canadian Society for the History of Medicine / Session conjointe avec la Société canadienne d'histoire de la médecine.

This panel is made possible thanks to the Aid for Interdisciplinary Sessions Fund of the Canadian Federation for the Humanities and Social Sciences (CFHSS) / Cette session est rendue possible grâce au support financier du fonds de soutien pour les séances interdisciplinaires de la FCSH.

DRAKE LECTURE (OPEN SESSION)

DATA MADNESS AND QUANTIFIED HEREDITY
Theodore Porter University of California at Los Angeles

PRESIDENT’S RECEPTION
MONDAY JUNE 3

8:30 - 10:00  Buch-D323
PHILOSOPHY OF PHYSICS

Chair: Bryson Brown
Can Quantum Mechanics Unfreeze Time?
Kent Peacock University of Lethbridge
Explanation and Effective Field Theories
Martin King Rheinische Friedrich-Wilhelms-Universität Bonn

NOTE: this session will begin at 9:00 a.m.

8:30 - 10:00  Buch-D312
SCIENTIFIC EXPLANATION

Chair: Adrian Erasmus
The Role of Structural Explanation in the Study of Health Inequality
Daniel Saunders York University
Changing Explanatory Strategies in Structural Biology: an Example from Protein Allostery
Jacob Neal University of Pittsburgh, HPS
Analogy, Unity, and Scientific Understanding
Shuguo Tang University of British Columbia

8:30 - 10:00  Buch-D218
SCIENTIFIC LIVES AND CORRESPONDENCE

Chair: Jason Grier
A Social Network and Text Analysis of Charles Darwin’s Correspondence 1835-42
Caroline Floyd University of Guelph
The Limits of Imperial Influence: John James Audubon in British North America
Debra Lindsay University of New Brunswick
A Woman’s Place: Mary Warnock and the Public Face of Assisted Reproductive Technology
Angela Yu University of Oxford

10:00 - 10:30  COFFEE BREAK
10:30 - 12:00
Buch-D323

LOGIC AND STRUCTURE OF SCIENTIFIC THEORIES

Chair: Shuguo Tang

Empirical Adequacy Debugged
Michael Miller University of Toronto

Reasoning with Incompatible Theories
M Bryson Brown University of Lethbridge

Carnap on Formal Languages: Conversations with Russell and Gödel
Yousuf Hasan University of Western Ontario

10:30 - 12:00
Buch-D312

SCIENTIFIC APPROACHES TO HEALTH CARE

Chair: Becca Jackson

Space Allocation and the Mathematization of Hospital Work
Theodora Vardouli McGill University

David Theodore McGill University

Medicine’s Transparency Problem: What We Can Learn by Paying Attention to Attention Deficit Disorder
Vivian Feldblyum University of Pittsburgh

Bioethics’ Project of Interdisciplinarity: Towards an “Argumentative Epistemology”
Catherine Dussault Laval University

10:30 - 12:00
Buch-D218

SESSION: BOOK PANEL WITH CHRISTOPHER BYRNE
MATTER AND TELEOLOGY IN ARISTOTLE’S NATURAL PHILOSOPHY

Organizer and Chair: Louis Groarke St. Francis Xavier University

Author: Christopher Byrne St. Francis Xavier University

Participants:

Mechanics in Hellenistic Philosophy
Sylvia Berryman University of British Columbia

The Relation Between Aristotle’s Physics and Biology
Byron Stoyles Trent University

Aristotle’s Physics and Late Scholastic Philosophy
Daniel Novotny University of South Bohemia

Thomistic and Aristotelian Hylomorphism
Steven Balder St. Francis Xavier University

Joint session with the Canadian Philosophical Association / Session conjointe avec l’Association canadienne de philosophie.

12:00 - 13:30
Buch-A102

LUNCH SERVED AT:
ANNUAL GENERAL MEETING & HADDEN PRIZE CEREMONY
DÎNER SERVI À:
ASSEMBLEE GÉNÉRALE ANNUELLE & REMISE DU PRIX HADDEN
13:30 - 15:00  Buch-D323

**SCIENTIFIC REALISM**

**Chair:** Brandon Holter

- Realism about Molecular Structures
  - **Amanda Nichols** Oklahoma Christian University
  - **Myron Penner** Trinity Western University
- Realist Intuitions: Theoretical Virtues of Scientific Theories
  - **Corey Mulvihill** University of Ottawa
- Human Inquiry, Presupposition, and Natural Structure
  - **Josh Mozersky** Queen's University

13:30 - 15:00  Buch-D312

**MODELS AND MATHEMATICAL FOUNDATIONS OF SCIENCE**

**Chair:** Daniel Saunders

- Moving Between Models: How Our Ontic Commitments Allow Incompatible Models to Inform One Another
  - **Eric Hochstein** University of Victoria
- Anti-formalism in Philosophy of Economics: Mathematical Foundations or Mathematical Style?
  - **Patricia Marino** University of Waterloo
- 19th Century Geometry and Physical Theory Testing
  - **Lydia Patton** Virginia Tech

13:30 - 15:00  Buch-D218

**ANCIENT AND EARLY MODERN SCIENCE**

**Chair:** Sylvia Berryman

- Successions and Classics in the Thought and Discourse of Ancient Science, or, Why Were There ‘Schools’ Anyway?
  - **Paul Keyser** The Climate Corp. (Chicago)
- A Complementary Scientific Approach to Eratosthenes’ Calculation of the Earth’s Circumference
  - **Cem Erkli** Simon Fraser University
- The Roots of the Silver Tree: Alchemy and Final Causes in Boyle
  - **Jennifer Whyte** University of Pittsburgh HPS

13:30 - 15:00  Lasserre 102

**OPEN SESSION: NEW RESEARCH IN THE HISTORY OF SOVIET SCIENCE**

**Chair:** Eric M. Johnson (UBC)

- A Science for Aerial Hygiene: Vladimir Riazanov and the Soviet Understanding of Clean Air
  - **Christopher Burton** University of Lethbridge
- Warming Trend: Soviet Climate Science and State Policy
  - **Connor Stewart Hunter** University of British Columbia
- Biosocial Boundaries, Abortions and Eugenics in Soviet Russia, 1920-1936
  - **Alexei Kojevnikov** University of British Columbia
  - **Kirill Rossiiianov** Russian Academy of Sciences
- Stranger Facts: Mass Scientific Literacy Campaign and Alternative Forms of Knowledge in the Post-World War II USSR
  - **Alexey Golubev** University of Houston

**Joint session with the Canadian Association of Slavists / Session conjointe avec l’Association canadienne des slavistes.**

15:00 - 15:30  COFFEE BREAK
INQUIRY AND SCIENTIFIC PROGRESS

Chair: Shuguo Tang
The Dynamics of Reason, Conceptual Analysis, and Scientific Progress
Nicholas Ray University of Waterloo
Induction and Deduction in the Context of Pursuit
Molly Kao University of Montreal
Inductive and Deductive Reasoning in Discovering the Cause of Brownian Movement
Klodian Coko University of Western Ontario

COMPUTATION: PHILOSOPHICAL AND SOCIAL PERSPECTIVES

Chair: Zachariah Neemeh
Cyborg Landscapes: Intersections of Technology and the Environment in the Late 20th and (Early) 21st centuries
Sophie LeBlanc University of Toronto
Algorithmic Egalitarianism: Alphabet is Building a City of the Future
Anna Artyushina York University
Agency, Action, and ACTION-IS
Zoe Ashton The Ohio State University

HISTORY AND PHILOSOPHY OF PSYCHIATRY

Chair: Sander Verhaegh
Kraepelin’s Psychiatry in the Pragmatic Age: Transitions from Germany to the United States
David Rattray Simon Fraser University
Revolutionizing Psychiatric Classification: Prospects and Problems
Nicholas Slothouber University of Western Ontario
Towards a More Fine-Grained Methodological Landscape of the Study of Human Behaviour
Ingo Brigandt University of Alberta