

# 2017

**Canadian Society for the History  
and Philosophy of Science**

**Société canadienne d'histoire et  
de philosophie des sciences**

**PROGRAMME**

**27-29 May 2017**

**Ryerson University, Toronto**

## A Note about Using Social Media at Congress

**#CongreSSH** is the Twitter hashtag for the entire Congress. The Federation tweets as **@ideas\_ideas**. You can tweet @ideas\_ideas with any questions or issues that arise while you are attending Congress.

CSHPS is also on Twitter! Please use the hashtag **#CSHPS** to discuss our conference. You can follow our Twitter feed on **@CSHPSnews**.

Also feel free to post to our Facebook group “CSHPS - SCHPS” at [facebook.com/groups/cshps.schps/](https://www.facebook.com/groups/cshps.schps/)

*About live-tweeting:* Live-tweeting is an increasingly-popular way for conference attendees to describe talks on Twitter in real time, allowing people who are not present to engage with the conference. Many academic conferences now encourage live-tweeting because it brings in a broader audience and records members’ impressions as talks unfold.

*For speakers:* If you prefer that your talk not be live-tweeted or photographed, simply inform your session chair, who can make an announcement to the audience.

## FRIDAY MAY 26

18:00 - 20:00 Executive Meeting / Réunion du Comité Exécutif — Room: Jorgansen 502

## SATURDAY MAY 27

8:45 - 10:15  
TRSM 2-099

### HUMAN AND SOCIAL SCIENCES

Chair: Tara Abraham, University of Guelph

[Before Attachment Theory: Separation Research at the Tavistock Clinic, 1948-1956](#)

**Bican Polat** Johns Hopkins University

[The 'Disadapted' Animal: Niko Tinbergen on Human Nature and the Human Predicament](#)

**Marga Vicedo** University of Toronto

[Disciplining the Social Sciences during the Reagan Revolution](#)

**Mark Solovey** University of Toronto

8:45 - 10:15  
TRSM 2-119

### FROM NATURALISM TO METAPHYSICS

Organizer and chair: Catherine Stinson, Western University

[Naturalized Metaphysics and Fundamental Physics](#)

**Lucas Dunlap** Western University

[Should We Be Pluralists about Natural Kinds?](#)

**Muhammad Ali Khalidi** York University

[Abstract Mechanisms and Causal Powers](#)

**Boris Hennig** Ryerson University and **Catherine Stinson** Western University

8:45 - 10:15  
TRSM 3-099

### CANADIAN SCIENCE

Chair: Jordan Howell, Harvard University

[Canada's Legacy in the United Nations' Food and Agriculture Organization \(FAO\)](#)

**Jennifer Hubbard** Ryerson University

[The 1913 Crisis at Hell's Gate: Contextualizing the Decline of Sockeye Salmon](#)

**Callum C. J. Sutherland** York University

8:45 - 10:15  
TRSM 2-149

### ARISTOTELIAN THOUGHT

Chair: Daryn Lehoux, Queen's University

[Aristotle on the Limits of Teleological Explanation in Natural Science](#)

**Christopher Byrne** St. Francis Xavier University

[Aristotle on the Causes and Limits of Aging](#)

**Adam Woodcox** University of Western Ontario

[What's Odd About Euclid's Definitions of 'Odd' and 'Even'? Aristotelian Dialectic and Ancient Arithmetic](#)

**Benjamin Wilck** Humboldt-Universität zu Berlin

10:15 - 10:30

COFFEE BREAK

10:30 - 12:00  
TRSM 2-099

## PHILOSOPHY OF BIOLOGY

Chair: Antoine C. Dussault, University of Toronto and Paris I

[A Continuum of Integration Accounting for Populations and Individuals in the Context of Darwinian Explanations](#)

**François Papale** University of Montreal

[A framework for philosophical biology](#)

**Sepehr Ehsani** University of Toronto/MIT

[The proximate-ultimate distinction: cause and explanation in evolutionary biology](#)

**Felix Walpole** University of Toronto

[Causation and Information Flow in Biological Systems](#)

**Oliver Lean** University of Calgary

10:30 - 12:00  
TRSM 2-119

## QUANTUM MECHANICS

Chair: Vivien Hamilton, Harvey Mudd College

[When did particles become “indistinguishable”? Quantum cultures and the interpretive flexibility of mathematical-theoretical apparatus in the emergence of quantum statistics](#)

**Daniela Monaldi** York University

[The Bell twins: divergent views on John S. Bell's philosophy of quantum mechanics](#)

**Federico Laudisa** Università di Milano-Bicocca

[Wave function collapse theories of consciousness and physicalism: The Chalmers-McQueen model reexamined](#)

**Guy Kagan** University of Haifa

10:30 - 12:00  
TRSM 2-149

## CONCEPTUALIZING HISTORICAL CHANGE

Chair: Andrew Ede, University of Alberta

[Moving Far and Wide Beyond the Text: The Graeco-Arabic “Translation” Movement and the Making of “Science.”](#)

**Zaheeda P. Alibhai** University of Ottawa

[Paleo Perspectives on the Nature of Historical Change](#)

**Melissa Charenko** University of Wisconsin-Madison

[On the Hermeneutical Revolutions of Scientific Revolutions: Re-Examining Kuhn's The Structure of Scientific Revolutions Through the Framework of Gadamer's Hermeneutical Philosophy](#)

**Anthony Nairn** Carlton University

[Le rôle de la philosophie dans l'émergence des sciences humaines dans l'Europe, la Chine et le Japon du XVIIIe s](#)

**Vincent Citot** Université Paris Sorbonne

12:15 - 13:15

LUNCH BREAK

13:30 - 15:00  
TRSM 2-099

## SOCIAL AND NATURAL KINDS

Chair: François Papale, Université de Montréal

[Three Concepts of Gender for Different Social Aims](#)

**Esther Rosario** and **Ingo Brigandt** University of Alberta

[Beyond Racial Constructivism: Racial Realism Reconsidered](#)

**Joshua Mugg** Indiana University Kokomo

[Giving Up On Natural Kinds](#)

**Jody Tomchishen** University of Western Ontario

13:30 - 15:00  
TRSM 2-119

## VALUES IN SCIENCE

Chair: Hans Radder, VU University Amsterdam

[Trustworthiness of science in the nexus between science, society and policy](#)

**Marina Pražetina** Wirth Institute, University of Alberta

[Rethinking the Adaptationist Debates: Values at Theory Appraisal in Evolutionary Biology](#)

**Margaret (Greta) Turnbull** Boston College

[Inductive Risk and Extrapolation in Medicine](#)

**Adrian Erasmus** The University of Johannesburg

13:30 - 15:00  
TRSM 3-099

## ROBUSTNESS

Chair: François Claveau, Université de Sherbrooke

[How to Determine Protein Structure: Challenges for Integrative Pluralism](#)

**Agnes Bolinska** and **Julie-Anne Gandier** University of Wisconsin-Stevens Point and University of Toronto

[Epistemic Progress in Cognitive Neuroscience and Neurobiology: How, If at All, Can Functional Triangulation and Integration Contribute to this Process?](#)

**Jaclyn Lanthier** Western University — Cancelled

[Two Types of Robustness in High Energy Physics Experiments](#)

**Koray Karaca** University of Twente

13:30 - 15:00  
TRSM 2-149

## HISTORY OF PHYSICS

Chair: Daniela Monaldi, York University

[Hertz's Propagating Electric Waves and Selected Replication of Experiments](#)

**Chen-Pang Yeang, Noah Stemeroff, Jenifer Barton, Quinn Harrington** University of Toronto

[L'environnement scientifique italien du jeune Albert Einstein, de 1895 à 1901](#)

**Christian Bracco** l'Université de Nice

15:00 - 15:15

COFFEE BREAK

15:15 - 16:45  
TRSM 2-099

## SOCIAL EPISTEMOLOGY

Chair: Marina Pražetina, Wirth Institute, University of Alberta

[Evaluating socioeconomic expertise: central banks in the post-2007 era](#)

**François Claveau** Université de Sherbrooke

[The Epistemic Structure of Climate Science](#)

**Michael Thicke** Bard College

[Trust, credibility, and the scientific consensus on childhood vaccines](#)

**Maya Goldenberg** University of Guelph

15:15 - 16:45  
TRSM 2-119

## EVIDENCE AND EXPERIMENTAL PRACTICES

Chair: Samantha Copeland, Norwegian University of Life Sciences

[Evidence Enriched](#)

**Nora Mills Boyd** University of Pittsburgh

[Induction and Necessary Connections in Scientific Practice](#)

**Marius Backmann** Universität Konstanz

[Causality, Theory Ladenness and Reproducibility in Experimental Science](#)

**Hans Radder** VU University Amsterdam

15:15 - 16:45  
TRSM 3-099

## HISTORY OF ASTRONOMY

Chair: Jamil Ragep, McGill University

[Measurement by Analysis of Gravitational Perturbation: The Case of Pluto's Mass](#)

**Allan Olley**

[Helen Hogg and Frank Hogg: A Fruitful Personal and Professional Partnership in Astronomy](#)

**David Orenstein**

[John S. Plaskett – Leadership in Early 20th-Century Astrophysics in Canada, 1903-1935](#)

**Andrew Oakes** University of Toronto

15:15 - 16:45  
TRSM 2-149

## 50 YEARS OF IHPST

Chair: Yiftach Fehige, University of Toronto

[IHPST: Stillman Drake's Intellectual Legacy, for IHPST and Beyond](#)

**Brian Baigrie** University of Toronto

[The Origins of the IHPST](#)

**Philip Enros**

[The History of the IHPST: 1980 to the Present](#)

**Craig Fraser** University of Toronto

[Celebrating Fifty Years of IHPST at the University of Toronto](#)

**Margaret Schabas** University of British Columbia

16:45 - 17:00

COFFEE BREAK

17:00 - 18:30  
TRSM 2-149

## INTERNATIONAL KEYNOTE SPEAKER

### **The Silent Trade: Measurement and Materiality in Cultures of Knowledge**

**Simon Schaffer** University of Cambridge

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.

## **19:00 - 21:00 IHPST Reception, 91 Charles Street West (Old Vic), Room 316**

In commemoration of the 50th anniversary of the Institute for the History and Philosophy of Science and Technology at the University of Toronto, its Director, Prof. Craig Fraser, is inviting all CSHPS members to a formal reception being held to celebrate the years of dedication by faculty, students, alumni and other colleagues to the historical and philosophical study of science and technology.

## SUNDAY MAY 28

8:45 - 10:15  
TRSM 2-099

### TECHNOLOGIES

Chair: Isaac Record, Michigan State University

**Island-building: Old and New, Far and Wide**

**Venilla Rajaguru** York University

**'The Crimson Thread of Kinship:’ Telegraphic Nationalism and the Construction of Canada 1867-1903**

**Claire Oliver** University of British Columbia

**The History of Computer-Aided Design (CAD) at MIT in the 1960s**

**Sophie LeBlanc** University of Toronto

8:45 - 10:15  
TRSM 2-119

### NEUROSCIENCE

Chair: David Colaço, University of Pittsburgh

**Interpretations of Neuroimaging Data as Explanations of Data Patterns**

**Jessey Wright** University of Western Ontario

**The Interaction of Technique and Data: Insights from neural microscopy**

**David Colaço** University of Pittsburgh

**Affordance signifiers as the objects of perception**

**Paul Patton** University of Toronto

8:45 - 10:15  
TRSM 3-099

## VICTORIAN SCIENCE

Chair: James Hanley, University of Winnipeg

[Ethnology, Progress, and Working-Class Improvement in Victorian England: The Bethnal Green Museum, 1872-7](#)

**Nastasha Sartore** University of Toronto

[John Herschel's Landscapes and Geology: The Cape Colony in the 1830s](#)

**Gregory A. Good** American Institute of Physics

[Thomas H. Huxley's Epistemological Project behind Agnosticism](#)

**Jiwon Byun** University of British Columbia

8:45 - 10:15  
TRSM 2-149

## REPRESENTATION

Chair: Nora Mills Boyd, University of Pittsburgh

[Inferring exoplanets, inferring exominds](#)

**Marc Champagne** Trent University

[Giving Voice to Stars: A Postphenomenological Investigation into Data Sonification in Astronomy](#)

**Einar Engström** York University

[A World Without Symmetry: An Account of Symmetry and Mathematical Representation in General Relativity](#)

**Noah Stemeroff** and **Charles Dyer** University of Toronto

10:15 - 10:30

COFFEE BREAK

10:30 - 12:00  
TRSM 2-099

## EARLY MODERN SCIENCE

Chair: Ernst Hamm, York University

[The Disenchanted Flute? Music, Max Weber, and Early Modern Science](#)

**Brandon Konoval** UBC

[Hume on the Rise and Diffusion of Scientific Inquiry and the Mechanical Arts](#)

**Margaret Schabas** UBC

[Is Mathematics a science?—the seventeenth century debate between logicians and mathematicians on necessary truths and scientific deductions](#)

**J. J. MacIntosh** University of Calgary

[Visions of Species: Perspective and Enlightenment Definitions of Species](#)

**William Nelson** University of Toronto

10:30 - 12:00  
TRSM 2-119

## PHILOSOPHY OF MEDICINE

Chair: Maya Goldenberg, University of Guelph

[Medicine Lost in 'Translation': The Structure and Aim of Medical Science](#)

**Jonathan Fuller** University of Toronto

[Objectifying the Subjective: Norms and Standards in Ophthalmology and the Epistemological Status of the Vision](#)

**Corinne Doria** Université Paris 1-Panthéon-Sorbonne

[On Pain Experience, Interdisciplinary Integration and Levels of Description, Explanation and Reality](#)

**Tudor Baetu** University of Bristol

[Fleshing Out Agency and Body Ownership](#)

**John Jenkinson** Western University



10:30 - 12:00  
TRSM 3-099

## HISTORY OF PSYCHOLOGY

Chair: Mark Solovey, University of Toronto

[Quelle\(s\) méthode\(s\) pour les sciences de l'esprit? Retour sur l'expérimentalisme singulier du psychologue Alfred Binet \(1857-1911\) à partir d'un manuscrit inédit](#)

**Alexandre Klein** Université Laval

[How McGill Got Its Psychology Department](#)

**Christopher D Green** York University

[Robert S. Woodworth, Charles H. Judd, and the Problem of Transfer](#)

**Michelle Hoffman** Bard College

[Wilhelm Reich: Visions of a Science of Life](#)

**Andrew Ede** University of Alberta

10:30 - 12:00  
TRSM 2-149

## SCIENTIFIC REALISM AND INSTRUMENTALISM

Chair: Dan McArthur, York University

[The Entity Model of Disorder](#)

**Craig Knox** University of Toronto

[Being Natural: Three Grades of Naturalistic Involvement](#)

**Fermin C Fulda** Western University

[On de Finetti's instrumentalist Philosophy of Probability](#)

**Joseph Berkovitz** University of Toronto

[Implications of Scientific Metaphor for the Scientific Realism Question](#)

**Andrew S. Reynolds** Cape Breton University

12:15 - 13:15

LUNCH BREAK

13:30 - 15:00  
TRSM 2-099

## SYMPOSIUM: THE RELATIONSHIP BETWEEN QUANTUM FIELD THEORY AND HIGH-ENERGY PARTICLE PHYSICS

Chair: Marie Gueguen Rotman Institute, Western University

[The possibility of paraparticles](#)

**Marie Gueguen** Rotman Institute, Western University

[Quasi-particles as a template for 'particles' in QFT](#)

**Doreen Fraser** University of Waterloo

[On the common structure of perturbative and axiomatic field theory in Borel summable models](#)

**Michael Miller** University of Pittsburgh

[Confirming QED](#)

**Chris Smeenk** Western University

13:30 - 15:00  
TRSM 2-119

## 150 ANS DE NATURALISATION DE L'ESPRIT

Chair: Hortense de Villaine, Université Paris Nanterre

**Addiction: quelles visions du monde pour quelle naturalisation ?**

**Anthony Ferreira** Université Paris Nanterre

**L'épiphénoménalisme et la naturalisation de la conscience**

**Hortense de Villaine** Université Paris Nanterre

**Le Moi peut-il être sauvé ? E. Mach et le débat contemporain**

**Alexandre Charrier** Université Paris Nanterre

**La mémoire de Ribot à Tulving et au-delà: la naturalisation des processus mnésiques et l'émergence de l'hypothèse constructive**

**Lorraine Gérardin-Laverge** Université Paris Nanterre

13:30 - 15:00  
TRSM 3-099

## THEORY CHANGE

Chair: Molly Kao, Université de Montréal

**Reconsidering the Duhem-Quine thesis: a partial resolution of the ambiguity of falsification**

**Matthew Burns** York University

**The Role of Philosophy and the a Priori in Scientific Theories and Theory Change**

**Dan McArthur** York University

**Scientific Realism, Molecular Bonding, and the Development of Coordination Theory**

**Amanda J. Nichols** and **Myron A. Penner** Oklahoma Christian University and Trinity Western University

**Driven toward a Socratic Scientific Realism by the Features of Theory Change**

**Timothy D. Lyons** Indiana University–Purdue University Indianapolis

13:30 - 15:00  
TRSM 2-149

## PHILOSOPHY OF PSYCHOLOGY

Chair: Marga Vicedo, University of Toronto

**The Case For An Alternative Reading of Heraclitean Notion of Soul**

**Siavash Joushaghani** York University

**Des usages philosophiques de l'associationnisme psychologique en France dans le dernier tiers du 19e siècle : le cas John Stuart Mill**

**Vincent Guillin** UQAM

**Hermann von Helmholtz's physiology between mechanics and philosophy**

**Nadia Moro** Higher School of Economics, Moscow

15:00 - 15:30

COFFEE BREAK: JOINTLY HELD WITH  
THE CANADIAN SOCIETY FOR THE HISTORY OF MEDICINE  
(PLEASE NOTE SPECIAL JOINT SESSION BELOW)

15:30 - 17:00  
TRSM 2-099

## SYSTEMS OF KNOWLEDGE IN MODERNITY

Chair: Robert Brain, UBC

**Friedrich Max Müller's Objection to Darwin on Language: Beyond Science versus Religion**

**Kristine Palmieri** University of Chicago

**Defining Navigational Expertise: The Education and Practice of Navigation in Eighteenth-Century England**

**Jason Grier** York University

**The Modalities of the Rational as Social Order: How to make an Institutional and Conceptual History of Sciences and Disciplines in Turkey**

**Dilek Sarmis** Paris

15:30 - 17:00  
TRSM 2-119

## INFERENCE AND ARGUMENTATION

Chair: Craig Fraser, University of Toronto

**Strategic Serendipity: Inferences and Institutions that Enable Scientific Discovery**

**Samantha Copeland** Norwegian University of Life Sciences

**Discovery vs. Justification: Unraveling the Context Distinction**

**Molly Kao** Université de Montréal

**Everett's Version of Everett**

**Sheldon Richmond** Independent Scholar

15:30 - 17:00  
TRSM 3-099

## PRENDRE SOIN DE CEUX QUI NE PEUVENT ÊTRE SOIGNÉS. AMBIVALENCES ET PARADOXES DE LA MÉDECINE FACE AUX CADAVRES

Chair: Alexandre Klein, Université Laval

« Dans le ventre du défunt, des bouts de cigares, un tuyau de pipe brisé, des fragments d'allumettes et de la poussière »: constitution d'une éthique des pratiques médicales post mortem en France (XIXe-début XXe siècles)

**Sandra Menenteau** Université de Poitiers

**Le mort dans le corps: personnalisation et réification du cadavre dans un laboratoire d'anatomie**

**Julien Bernard** Université Paris Nanterre

**Pratiques et représentations autour des cadavres dans les services palliatifs français. Ou la mise en place d'une nouvelle médicalisation de la mort**

**Pauline Launay** Université de Caen Normandie

15:30 - 17:00  
TRSM 2-149

## INDIGENOUS HISTORIES AND THE HISTORIES OF SCIENCE AND MEDICINE

Chair and Commentator: **Mary Jane McCallum** University of Winnipeg

**The Interwoven History of Mercury Poisoning in Ontario and Japan**

**Adam Mosa** Queen's University

**"A Marvel of Nature and Industry": Kitimat and the Global Aluminum Trade**

**Jordan Howell** Harvard University

**From Far and Wide: The Sioux Lookout Project, local needs, international scholars and Indigenous health research**

**Mary-Ellen Kelm** Simon Fraser University

**The Hudson's Bay Company, the North West Company and the History of Health Care in the Canadian North after WWII**

**Kristin Burnett** and **Travis Hay** Lakehead University

**Joint session with the Canadian Society for the History of Medicine / Session conjointe avec la Société canadienne d'histoire de la médecine.** This session is made possible in part thanks to the Aid for Interdisciplinary Sessions Programme 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.

17:00 - 17:15

COFFEE BREAK

17:15 - 18:30  
TRSM 2-149

## DRAKE LECTURE

**J.B.S Haldane's Passage to India: Cosmopolitanism and the Reconfiguration of Knowledge**

**Gordon McQuat** University of King's College

## MONDAY MAY 29

8:45 - 10:15  
TRSM 2-099

### MEDICAL EXAMINATIONS: PRINT AND HISTORY AT THE OSLER LIBRARY OF THE HISTORY OF MEDICINE

Chair and organizer: Christopher Lyons, McGill University

[Medical Innovation on the Western Front: The Canadian Army Medical Corps in 1917](#)

**Martha Hanna** University of Colorado

[Medicine's New Teaching Texts: The Artistic, Marketing and Technical Shifts Affecting Anatomical Atlases in the Nineteenth Century](#)

**Cindy L Stelmackowich** Carlton University

["The Touch Divine of Noble Natures Gone": Sir William Osler and the Power of the Book](#)

**Chris Lyons** McGill University

8:45 - 10:15  
TRSM 2-119

### EARLY MODERN SCIENCE

Chair: Brandon Konoval, University of British Columbia

[The Background to Copernicus: "Vaine Recherche" or Indispensable Quest?](#)

**F. Jamil Ragep** McGill University

[Baconian Induction or the Experimental Philosophy of the Royal Society](#)

**Jagdish Hattiangadi** York University

[Natural Philosophy, Geometry, and Deduction in the Hobbes-Boyle Debate](#)

**Marcus Adams** University at Albany, SUNY

8:45 - 10:15  
TRSM 3-099

### SCIENTIFIC PLURALISM: THEN AND NOW

Organizer and Chair: Justin Bzovy, Mount Allison University

[The Historical Turn and the 'Fact' of Pluralism](#)

**Jamie Shaw** University of Western Ontario

[Clines, Demes and Species: An Overlooked Source for Scientific Pluralism](#)

**Justin Bzovy** Mount Allison University

[The Many Faces of Scientific Pluralism](#)

**Anjan Chakravarty** University of Notre Dame

8:45 - 10:15  
TRSM 2-149

### PHILOSOPHY OF ECOLOGY: SCIENTIFIC CONCERNS AND CONSERVATION PURPOSES -SESSION I - PHILOSOPHY OF ECOLOGY: HISTORICAL AND THEORETICAL FOUNDATIONS

Organizer and Chair: David Montminy, Université de Montréal

[Novel Ecosystems: Do they Really Lower the Bar?](#)

**Eric Desjardins** University of Western Ontario

[Keystone species problem and pluralism](#)

**Sophia Rousseau-Mermans** Université de Montréal and Université Paris

[The Ecosystem Health Research Program and its Theoretical Underpinnings](#)

**Antoine C. Dussault** University of Toronto and Paris I

10:15 - 10:30

COFFEE BREAK

10:30 - 12:00  
TRSM 2-099

## NEW PERSPECTIVES ON SCIENCE IN PRE-MODERN ISLAM

Commentator and Chair: Sally P. Ragep, McGill University

'Alī al-Qūshjī in Istanbul: Theoretical Astronomy in the Early Modern Ottoman Empire

**Hasan Umut** McGill University

Ibn al-Shāṭir's Planetary Latitude Theory

**Sajjad Nikfahm-Khubravan** McGill University

Plagiarism in Scientific Works of the Islamic Period: Quṭb al-Dīn al-Shīrāzī's Conceptions

**Fateme Savadi** McGill University

10:30 - 12:00  
TRSM 2-119

## VISUAL AND LINGUISTIC TECHNOLOGIES

Chair: Andrea Valente, York University

Visualizing Science: Images in Republican China's Periodicals

**Noa Nahmias** York University

To show improvement": Making medical photographers in post-war Britain

**Drew Danielle Belsky** York University

Performing Authenticity: The Making-of-Documentary in Wildlife Film's Blue-Chip Renaissance

**Eleanor Louson** York University

From the Alcatraz to the Zootron, the history of Science is a world of trons

**David P.D. Munns** John Jay College, NY

10:30 - 12:00  
TRSM 3-099

## SCIENCE AND THE BODY

Chair: Delia Gavrus, University of Winnipeg

Potential: Rendering the Body as Machine

**Kasey Coholan** York University

Negotiating Risk and Responsibility: Radiation Safety in American Hospitals

**Vivien Hamilton** Harvey Mudd College

The Mind-Twist and the Brain-Spot: The Material Dimensions of Psychopathology in the Work of Neuropathologist Elmer E. Southard

**Tara H. Abraham** University of Guelph

Drugs, Prosthetics, and Toddlers – How science shaped the lived experiences of Canadian thalidomiders

**Christine Chisholm** Carleton University – Cancelled

10:30 - 12:00  
TRSM 2-149

## PHILOSOPHY OF ECOLOGY: SCIENTIFIC CONCERNS AND CONSERVATION PURPOSES - SESSION II - PHILOSOPHY OF ECOLOGY: MODELS, PREDICTIONS AND INFORMATION

Organizer and Chair: Eric Desjardins, University of Western Ontario

Data-Centric Ecology: Integration and Hierarchy of Models

**David Montminy** Université de Montréal

Prediction in Ecology: Promises, Obstacles and Clarifications

**Virginie Maris** Montpellier

Informative Ecological Models without General Ecological Forces: a reply to Sagoff (2016)

**Justin Donhauser** University of Western Ontario

12:05 - 13:25  
TRSM 2-149

**LUNCH — ANNUAL GENERAL MEETING  
& HADDEN PRIZE CEREMONY  
DÎNER — ASSEMBLÉE GÉNÉRALE ANNUELLE  
& REMISE DU PRIX HADDEN**

13:30 - 15:00  
TRSM 2-099

**HOW TO WRITE ON ASTROLOGY AND GEOGRAPHY IN THE GRAECO-ROMAN WORLD?**

Chair: Anne-Laurence Caudano, University of Winnipeg

**Authority and Graeco-Roman Astrology**

**Cristian Tolsa** Queen's University

**Knowledge and Foreknowledge in Ancient Astrology**

**Daryn Lehoux** Queen's University

**Ptolemy's Epistemology of Geography**

**Jacqueline Feke** University of Waterloo

13:30 - 15:00  
TRSM 2-119

**SCIENTONOMY: INTEGRATING HPS IN CANADA**

Organizer and Chair: Gregory Rupik, University of Toronto

**Why Would Historians and Philosophers of Science Want to Collaborate?**

**Hakob Barseghyan** University of Toronto

**The Dis-integration of the History and Philosophy of Science**

**Gregory Rupik** University of Toronto

**Towards a Science of Science**

**Nicholas Overgaard** University of Toronto

13:30 - 15:00  
TRSM 3-099

**CLASSIFICATION AND THE MIND SCIENCES**

Chair: Craig Knox, University of Toronto

**Natural Classification and Psychiatric Classification**

**Nick Slothouber** Western University

**Refaçonner les frontières diagnostiques. L'introduction du diagnostic de schizophrénie à la Clinique Psychiatrique Universitaire de Strasbourg (1922 -1932)**

**Julie Clauss** Strassbourg

**What can Science and Technology Studies tell us about ADHD**

**Andrew Brown** York University

13:30 - 15:00  
TRSM 2-149

**METAPHYSICS AND NATURALISM**

Chair: Fermin C Fulda, Western University

**Kantian Themes in Philosophy of Science: Hackian Nominalism vs. Chomskyan Metaphysics**

**J. Mozersky** Queen's University

**Incompressible Patterns: CRISPR vs. Dennett**

**Kathleen Creel** University of Pittsburgh

**Dispositionalism, Naturalism, and the Irreducibility of Determinable Properties**

**Travis Dumsday** Concordia University of Edmonton

15:00 - 15:15

COFFEE BREAK

15:15 - 16:45  
TRSM 2-099

## THE RATIONAL AND THE EMPIRICAL

Chair: Margaret Schabas, University of British Columbia

[No Safety in Numbers? Mathematical Skepticism in Cartesian Physics and Contemporary Environmental Modeling](#)

**Guilherme Sanches de Oliveira** University of Cincinnati

[Empirical versus Rational Abstraction: A Reflection on Carnap's notion of abstraction](#)

**Parzhad Torfehnezhad** Université de Montréal

[Quine's Flight from Analyticity](#)

**Yousuf Hasan** University of Western Ontario

15:15 - 16:45  
TRSM 2-119

## FROM AIR TO GASES BETWEEN CHEMISTRY AND PHYSICS: NEW PERSPECTIVES ON THE PRODUCTION AND CIRCULATION OF PNEUMATIC KNOWLEDGE IN THE LONG EIGHTEENTH CENTURY

Chair and commentator: Trevor H Levere, University of Toronto

[The "Subtile Aereal Spirit of Fountains": Mineral Waters and the History of Pneumatic Chemistry](#)

**Leslie Tomory** McGill University

[The Aerial State of Physical and Chemical Affairs: The Early Life of "Permanently Elastic Fluids" from Robert Boyle to Stephen Hales](#)

**Victor D. Boantza** University of Minnesota

[Pneumatic Chemistry in the Making: The Writings of James Keir and Pierre-Joseph Macquer, 1766–1779](#)

**Kristen M. Schranz** University of Toronto

15:15 - 16:45  
TRSM 3-099

## CAUSALITY AND EXPLANATION

Chair: Oliver Lean, University of Calgary

[Causal Selection in Safety Engineering](#)

**Brian J Hanley** University of Calgary

[Monistic Account of Explanations and Explanatory Depth](#)

**Erlantz Etxeberria** University of Western Ontario

[Perelmanian Proofs and the Room for Audiences in Mathematical Argument](#)

**Zoe Ashton** SFU

15:15 - 16:45  
TRSM 2-149

## MODELS AND SIMULATION

Chair: Justin Donhauser, Western University

[Computer Simulations, Mathematical Models, and Production of New Knowledge](#)

**Atoosa Kasirzadeh** University of Toronto

[Measurement, Computer Simulation and Observational Grounding](#)

**Eran Tal** McGill University

[Scientific Models, Superintuitionistic Logics and Semantic Anti-Realism](#)

**Corey Mulvihill** University of Ottawa