

**Canadian Society for the History and Philosophy of Science 2013 / Société canadienne d'histoire et de philosophie des sciences 2013**

Saturday 1 June / Samedi 1 juin

**18:00-22:00 – CLE B215 – Executive Meeting / Réunion du Comité Exécutif**

**Day I: Sunday 2 June / Jour I: Dimanche 2 juin**

**8:45-10:15 Session / Séance I.1**

<p align="center"><b>Session / Séance I.1A CLE A302 Philosophy of Mathematics</b></p>	<p align="center"><b>Session / Séance I.1B CLE A303 Environments, Ecosystems and Economics</b></p>	<p align="center"><b>Session / Séance I.1C CLE A307 Realism and Anti-Realism</b></p>
<p>Chair: <i>Nicolas Fillion, U. of Western Ontario</i></p> <p>What is the Internal Logic of Constructivist Mathematics? <i>Yvon Gauthier, U. Montreal</i></p> <p>On the Mathematical Constitution of Physical Facts <i>Joseph Berkovitz, U. Toronto</i></p> <p>How big do infinitesimals need to be in infinite fair lotteries? <i>Alexander R. Pruss, Baylor U.</i></p>	<p>Chair: <i>James Hull, U. of British Columbia, Okanagan</i></p> <p>The confluences of system, technology, and the environment in the work of Dr John Todd <i>Henry Trim, U. of British Columbia</i></p> <p>Science, Sunspots, and the Economics of W. S. Jevons <i>Calum Agnew, U. of King's College</i></p> <p>Situating Natural Capital in the History of Economic Thought <i>Tyler DesRoches, U. British Columbia</i></p>	<p>Chair: <i>TBA</i></p> <p>The Role of Cases in Arguing for (Anti-) Realism <i>Anjan Chakravartty, U. of Notre Dame</i></p> <p>Why Cassirer's structuralism isn't realism <i>David Brooke Struck, U. of Guelph</i></p> <p>Why Can't We "Test" Scientific Realism Against History of Science? <i>Sreekumar Jayadevan, U. of Hyderabad</i></p>

**10:30-12:00 Session / Séance I.2**

<p align="center"><b>Session / Séance I.2A CLE A302 Philosophies of Mind</b></p>	<p align="center"><b>Session / Séance I.2B CLE A303 Newton's Theology</b></p>	<p align="center"><b>Session / Séance I.2C CLE A307 Political sciences</b></p>
<p>Chair: <i>TBA</i></p> <p>Quality Space Theory <i>Matthew Ivanowich, Western U.</i></p> <p>Chimpanzee knowledge <i>Andrew Fenton, California State U. – Fresno/Dalhousie U.</i></p> <p>Dynamical systems and graph-theoretic approaches to the brain in explanation and discovery <i>Taylor Murphy, Washington U. in St. Louis</i></p>	<p>Chair: <i>Ian Stewart, U. of King's College</i></p> <p>Session organiser: <i>Yiftach Fehige</i></p> <p>Science and Religion in Newton's General Scholium to the Principia <i>Stephen Snobelen, U. of King's College</i></p> <p>Isaac Newton and Classical Theism <i>Paul Greenham, U. of Toronto</i></p> <p>The Theological Dimensions of Newton's Thought Experiments <i>Yiftach Fehige, U. of Toronto</i></p>	<p>Chair: <i>Robert Smith, U. of Alberta</i></p> <p>Post-War Scientific Politicking <i>Dana Kayes, U. of Toronto</i></p> <p>The Regulation of Scientific Research in Publicly Funded Institutions <i>Janet Hine, Princeton U.</i></p> <p>The Role of Science in Global Governance at mid-Twentieth Century <i>Lucie Edwards, U. of Waterloo</i></p>

**Canadian Society for the History and Philosophy of Science 2013 / Société canadienne d'histoire et de philosophie des sciences 2013**

**12:00-13:00 Lunch / Dîner**

**13:00-14:30 Session / Séance I.3**

Session / Séance I.3A CLE A302 Peirce's legacies	Session / Séance I.3B CLE A303 Objects and Experiments	Session / Séance I.3C CLE A307 Creating Knowledge
<p>Chair: <i>Anjan Chakravartty, U. of Notre Dame</i></p> <p>Information Preserves Structure Across Scientific Revolutions <i>John Collier, U. of KwaZulu-Natal</i></p> <p>Pragmatism and the scope of the problem of induction <i>Bryson Brown, U. of Lethbridge</i></p> <p>Peirce and Smolin on Cosmological Evolution <i>Kathleen Okruhlik, U. of Western Ontario</i></p>	<p>Chair: <i>Katharine Anderson, York U.</i></p> <p>J.T. Desaguliers and the Meaning of Public Demonstration for Newtonian Natural Philosophy <i>Jason Grier, York U.</i></p> <p>A Re-assessment of Experimentation in William Gilbert's De magnetete <i>Laura Georgescu, Ghent U.</i></p> <p>Categorizing a Cabinet of Curiosity <i>Emma Hughes, U. of Victoria</i></p>	<p>Chair: <i>Yvon Gauthier, U. of Montreal</i></p> <p>How Are Models and Explanations Related? <i>Collin Rice, U. of Pittsburgh, Yasha Rohwer, U. of Missouri</i></p> <p>Reconsidérer la pratique de théorisation du point de vue de l'«activity-based analysis» <i>Régis Catinaud, Université de Genève/Université de Lorraine, Archives Henri Poincaré</i></p> <p>On the Epistemological Analysis of Modeling and Computational Error in the Mathematical Sciences <i>Nicolas Fillion, U. of Western Ontario</i></p>

**14:45-16:15 Session / Séance I.4**

Session / Séance I.4A CLE A302 Values, Judgement and History	Session / Séance I.4B CLE A303 Epistemology	Session / Séance I.4C CLE A307 Roundtable discussion: Surveying the History of Science with Ede/Cormack
<p>Chair: <i>Christopher Stephens, U. of British Columbia</i></p> <p>Rudner's Challenge <i>Brandon Holter, U. of Calgary</i></p> <p>Causation by Omission and Causal Judgments <i>Dustin Olson, U. of Rochester</i></p> <p>“The Irrelevance of History of Science to Philosophy of Science”: Fifty years later <i>Ian Chase, U. of Western Ontario</i></p>	<p>Chair: <i>Letitia Meynell, Dalhousie University</i></p> <p>Towards An Inclusive Scientific Epistemology <i>Steven Bland, Huron U.</i></p> <p>X-Phi, Explication, and Formal Epistemology <i>James Justus, Florida State U.</i></p> <p>Volunteristic Epistemology <i>Dan McArthur, York U.</i></p>	<p>Session Organiser: <i>Gordon McOuat, U. of King's College</i></p> <p>Participants: <i>Gordon McOuat, U. of King's College</i> <i>Andrew Ede, U. of Alberta</i> <i>Lesley Cormack, U. of Alberta</i> <i>Ian Stewart, U. of King's College</i> <i>Andrea Woody, U. of Washington</i></p>

**16:30 – ENG/C.SCI 125 – Plenary Lecture**

**Introduction:** *Stephen D. Snobelen, U. of King's College*

**Robert Iliffe, U. of Sussex**  
**Sex, science and brain: Isaac Newton in the digital age**

**Canadian Society for the History and Philosophy of Science 2013 / Société canadienne d'histoire et de philosophie des sciences 2013**

**Day 2: Monday 3 June / Jour 2: Lundi 3 juin**

**9:00-11:00 Session / Séance II.1**

<p align="center"><b>Session / Séance II.1A CLE D125</b>  <b>Interpreting knowledge in the 17th and 18th centuries</b></p>	<p align="center"><b>CSHPS/CSHM Joint Session / Séance II.1B</b>  <b>ENG/C.SCI 125</b>  <b>Experimenting with Fluid Objects</b></p>	<p align="center"><b>Session / Séance II.1C CLE D267</b>  <b>Interpreting our Environment</b></p>
<p>Chair: <i>Trevor Levere, U. of Toronto</i></p> <p>Ancient Atomism and the Mechanical Philosophers <i>Sylvia Berryman, U. of British Columbia</i></p> <p>Military Medicine in 17th-Century China <i>Sarah Bansham, U. of British Columbia</i></p> <p>Newton and the Newton papers <i>Sarah Dry, Independent Scholar</i></p> <p>Science, Death, And The Eighteenth-Century Vampire Debates <i>Kathryn Morris, Dalhousie U.</i></p>	<p>Session Organizer: <i>Frank W. Stahnisch, U. of Calgary</i></p> <p>Chair and Commentary: <i>Delia Gavrus, McGill U.</i></p> <p>Experimenting with Living Animals and Humans in Nineteenth-Century Nutrition Physiology <i>Elizabeth Neswald, Brock U.</i></p> <p>Experimentalizing Life and Art in Fin-de-Siècle Europe <i>Bob Brain, U. of British Columbia</i></p> <p>Clinical Cancer Research in early Twentieth Century France <i>Tricia Close-Koenig, Université de Strasbourg</i></p> <p>On the Conditions of Neurophysiological Research in German-Speaking Refugee Neuroscientists in North-America, 1933 to 1963 <i>Frank W. Stahnisch, U. of Calgary</i></p>	<p>Chair: <i>Andrew Fenton, California State U. – Fresno/Dalhousie U.</i></p> <p>Scientific Institutions and Responsible Trust <i>Heidi Grasswick, Middlebury College</i></p> <p>How to Attain Reliable Inferences from Unrealistic Models in Climate Science <i>Martin Vezer, U. of Western Ontario</i></p> <p>Trust, Pluralism and Polar Bear Conservation <i>Jill Fellows, U. of British Columbia</i></p> <p>Observation and Simulation in Atmospheric Science <i>Greg Lusk, U. of Toronto</i></p>

**Canadian Society for the History and Philosophy of Science 2013 / Société canadienne d'histoire et de philosophie des sciences 2013**

**11:15-12:45 Session / Séance II.2**

<p align="center"><b>Session / Séance II.2A CLE D125 Science, philosophy and gender</b></p> <p>Chair: <i>Leslie Cormack, U. of Alberta</i></p> <p>What Does Feminist Epistemology Look Like? <i>Christopher Shirreff, U. of Western Ontario</i></p> <p>Gendering Animals <i>Letitia Meynell, Dalhousie U.</i></p> <p>Two Approaches to the Integration of Feminism with Evolutionary Theory <i>Sara Weaver, U. of Waterloo</i></p>	<p align="center"><b>Session / Séance II.1B CLE - D126 Relativism, Demarcation and Evidence</b></p> <p>Chair: <i>Yiftach Fehige, U. of Toronto</i></p> <p>Empirical Equivalence <i>Dan Goldstick, U. of Toronto</i></p> <p>Reexamining the Problem of Demarcation <i>Evan Westre, U. of Victoria</i></p> <p>A Criticism of Scientific Relativism of the Kuhnian Variety <i>Marko Vuckovic, Carlton U., Ottawa</i></p>	<p align="center"><b>Session / Séance II.1C CLE D267 The "Evolution" of Victorian Science</b></p> <p>Session Organiser: <i>Bernard Lightman, York U.</i></p> <p>Chair: <i>Hannah Gay, SFU/Imperial College</i></p> <p>The 'indisputable authority' of the Greenwich Observatory <i>Kenneth Corbett, U. of British Columbia</i></p> <p>William Huggins, Evolutionary Naturalism and the Nature of the Nebulae <i>Robert W. Smith, U. of Alberta</i></p> <p>The Faith of Scientific Naturalism <i>Bernard Lightman, York U.</i></p>
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**12:45-13:45 Lunch / Dîner**

**13:45-15:15 Session / Séance II.3**

<p align="center"><b>Session / Séance II.3A CLE D125 Continuities and Discontinuities in the History of Cold War American Science</b></p> <p>Session Organiser: <i>Patrick Slaney</i></p> <p>Chair: <i>TBA</i></p> <p>Radiation in Biology and Medicine <i>Katherine Zwicker, U. of Saskatchewan</i></p> <p>Is it a Human Right to not be Contaminated by Radiation or Threatened by Nuclear War? <i>Linda Marie Richards, Oregon State U.</i></p> <p>Science and Industry in the Classroom <i>Patrick David Slaney, U. of British Columbia</i></p>	<p align="center"><b>Session / Séance II.3B CLE D126 Natural Philosophy</b></p> <p>Chair: <i>Larry Stewart, University of Saskatchewan</i></p> <p>Wallis, Newton and the Limits of Reason <i>Adam Richter, U. of Toronto</i></p> <p>Locke, Providence, and the Limits of Mechanism: <i>Elliot Rossiter, U. of Western Ontario</i></p> <p>The fire without light and the missing foundations of Descartes' physiology <i>Barnaby Hutchins, Ghent U.</i></p>	<p align="center"><b>Session / Séance II.3C CLE D267 Kinds in Nature</b></p> <p>Chair: <i>Margaret Schabas, U. of British Columbia</i></p> <p>Moderate Locationism and Natural-Kind Essentialism <i>Travis Dumsday, Concordia U. College of Alberta</i></p> <p>Modus Darwin Redux <i>Christopher Stephens, U. of British Columbia</i></p> <p>Natural Kinds, Social Kinds, Eternal Kinds, and Copied Kinds <i>Muhammad Ali Khalidi, York U.</i></p>
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**15:30-17:30 Session / Séance II.4**

<p align="center"><b>Session / Séance II.4A CLE D125</b>  <b>From Biological Oceanography to The Fluid Envelope of our Planet and Beyond: Session in Honour of Eric L. Mills</b></p>	<p align="center"><b>Session / Séance II.4B CLE D126</b>  <b>Philosophy of biology</b></p>	<p align="center"><b>Session / Séance II.4C CLE D267</b>  <b>Negotiating Science in the Periphery</b></p>
<p>Session Organiser and Chair: <i>Hannah Gay, SFU/Imperial College</i></p> <p>Did French Oceanography Fail? <i>Antony Adler, U. of Washington</i></p> <p>The Creation of the Biological Boundaries of the Seas <i>Keith R. Benson, U. of British Columbia</i></p> <p>German Oceanography in the Period 1900-1925 <i>Mott T. Greene, U. of Puget Sound</i></p> <p>Terrestrial Physics and Polar Currents <i>Bruce Hevly, U. of Washington</i></p> <p>Commentary: <i>Eric Mills, Dalhousie U.</i></p>	<p>Chair: <i>Joseph Berkovitz, U. of Toronto</i></p> <p>How bacteria socialize <i>Makmiller Pedroso, U. of Calgary</i></p> <p>Problems with Pluralism and Emergent Causality <i>Martin King, U. of Guelph</i></p> <p>The Problem of Unbeneficial Features in Aristotle's Parts of Animals <i>Bryan Reece, U. of Toronto</i></p> <p>A Structuralist Account of Complex Biological Systems in Ecology <i>Corey Sawkins, U. of Guelph</i></p>	<p>Chair: <i>TBA</i></p> <p>Session Organiser: <i>Eric Johnson</i></p> <p>An Ethnography of Mutual Aid <i>Eric M. Johnson, U. of British Columbia</i></p> <p>The Maori-Latin Index and Scientific Botany in New Zealand <i>Geoff Bil, U. of British Columbia</i></p> <p>Scientific Expeditions as the Core of Russia's Colonial Science Project <i>Dmitry Mordvinov</i></p> <p>Towards the Institutionalization of Applied Entomology <i>Anastasia Fedotova</i></p>

**Canadian Society for the History and Philosophy of Science 2013 / Société canadienne d'histoire et de philosophie des sciences 2013**

**Day 3: Tuesday 4 June / Jour 3: Mardi 4 juin**

**9:00-10:30 Session / Séance III.1**

<p align="center"><b>Session / Séance III.1A CLE A205 Philosophies of Language</b></p> <p>Chair: <i>Bryson Brown, U. of Lethbridge</i></p> <p>Generative linguistics: Re-viewing the assembly of a human science <i>Jeffrey Wajsberg, York U.</i></p> <p>Carnap as Conceptual Engineer? <i>Christopher French, U. of British Columbia</i></p> <p>The VIBE Theory of Public Languages <i>Jonathan Life, Western U.</i></p>	<p align="center"><b>Session / Séance III.1B CLE A203 North American Science</b></p> <p>Chair: <i>Bob Brain, U. of British Columbia</i></p> <p>Session Organiser: <i>James Hull, U. of British Columbia, Okanagan</i></p> <p>Aboriginal Contributions to Science on the Northwest Coast between 1826 and 1860 <i>Darrell Racine, Brandon U.</i></p> <p>The Banksian Empire In British North America <i>Brian Schefke, U. of Washington</i></p> <p>Watts Across The Border <i>James Hull, U. of British Columbia, Okanagan</i></p>	<p align="center"><b>Session / Séance III.1C CLE A202 Scientific Expertise</b></p> <p>Chair: <i>Elizabeth Neswald, Brock U.</i></p> <p>Why it is important to distinguish between different types of scientific expertise <i>Frédéric Bouchard, Université de Montréal</i></p> <p>The Varieties of Scientific Expertise <i>Ben Almassi, College of Lake County</i></p> <p>Drug Addiction, Self-Experimentation and Insider Knowledge <i>Micah Anshan, York U.</i></p>
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**10:45-12:45 Session / Séance III.2**

<p align="center"><b>Session / Séance III.1A CLE A205 A Chemical Enlightenment</b></p> <p>Session Organiser: <i>Larry Stewart, U. of Saskatchewan</i></p> <p>Chair: <i>Paul Wood, U. of Victoria</i></p> <p>Reviving Thomas Beddoes <i>Larry Stewart, U. of Saskatchewan</i></p> <p>United by Science and Harried by Revolution <i>J. Marc Macdonald, U. of Saskatchewan</i></p> <p>The Successful Tipton Works of Mr. Keir <i>Kristen Schranz, U. of Toronto</i></p> <p>Dr. Thomas Beddoes and his library <i>Trevor H. Levere, U. of Toronto</i></p>	<p align="center"><b>Session / Séance III.1A CLE A203 19th century science</b></p> <p>Chair: <i>Bernard Lightman, York U.</i></p> <p>Writing Global Knowledge: Oceans and Texts <i>Katharine Anderson, York U.</i></p> <p>Savants, Amateurs et Curieux en France au XVIIIe siècle : à la frontière de l'utile et de l'agréable. <i>Marie Lemonnier, Université de Sherbrooke</i></p> <p>Seeing Canada with Scientific Eyes <i>David Orenstein, Toronto District School Board</i></p> <p>The Ontario Woman's Christian Temperance Union and eugenics <i>Riiko Bedford, U. of Toronto</i></p>	<p align="center"><b>Session / Séance III.1A CLE A202 Philosophy and physics</b></p> <p>Chair: <i>Gordon McOuat, U. of King's College</i></p> <p>Two Pictures of Thought Experiments <i>Geordie McComb, U. of Toronto</i></p> <p>The Role of Maxwell's Ether Models <i>Humayra Kathrada, U. of Waterloo</i></p> <p>Schematic Representation in Hertz's Principles of Mechanics <i>Lucien Lamoureux, U. of Western Ontario</i></p> <p>Alexander Friedman and the Origins of Modern Cosmology <i>Ari Belenkiy, SFU Surrey</i></p>
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**13:00-15:00 – CLE A127 – Annual General Meeting**

**15:00-17:00 – S.SCI/MATH A120 – Drake Lecture**

Chair: *Kathleen Okruhlik, U. of Western Ontario*

**Anne Fausto-Sterling, Brown U.**

**From Babies to Gender Identity: How can we change the paradigm?**

**17:00 – President's Reception**