

# Canadian Society for History and Philosophy of Science 2006 / Société canadienne d'histoire et de philosophie des sciences 2006

McLaughlin College (MC) and Curtis Lecture Hall, Université York University

Day I. Monday, May 29 / Jour I. Lundi, 29 Mai

7:40–9:10 Executive Meeting / Réunion du Comité Exécutif		
<b>9:10–10:30 Session/Séance I.1</b>		
<p style="text-align: center;"><b>Session I.1A MC 104</b> <b>History of Medicine</b> Chair/Président: Anne-Julie Houle (Montréal)</p> <p><b>9:10–9:50</b> Henry Kreuzman (College of Wooster) <i>Where, When, Who, and What: The Empirical Nature of Alexander Gordon's Arguments that Childbed Fever is Infectious</i></p> <p><b>9:50–10:30</b> Martin Fichman (York)/Jennifer Keelan (JFK School Govt.) <i>Resister's Logic: The Anti-vaccination Arguments of Alfred Russel Wallace and their Role in the Debates over Compulsory Vaccination in England, 1870-1900</i></p>	<p style="text-align: center;"><b>Session/Séance I.1B MC 111</b> <b>Scientific Discovery</b> Chair/Président: David Shein (Bard)</p> <p><b>9:10–9:50</b> Dan McArthur (York) <i>Discovery, Theory Change and Structural Realism</i></p> <p><b>9:50–10:30</b> Matthew D. Lund (Rowan) <i>Beyond the 'Discovery Machine': Analogy as a Logic of Discovery</i></p>	<p style="text-align: center;"><b>Session/Séance I.1C MC 112</b> <b>Perception: Visual, Spatial</b> Chair/Président: Krisanna Scheiter (Pennsylvania)</p> <p><b>9:10–9:50</b> Daryn Lehoux (Manchester) <i>Eyes and Observations in Ancient Science</i></p> <p><b>9:50–10:30</b> Matthias Neuber (Tübingen) <i>Psychology Meets Physics: Schlick's 'Method of Coincidences' and its Scientific Background</i></p>
<b>10:40–12:40 Session/Séance I.2</b>		
<p style="text-align: center;"><b>Session/Séance I.2A MC 104</b> <b>Social Histories of Disciplines and Practices</b> Chair/Président: Lesley Cormack (Alberta)</p> <p><b>10:40–11:20</b> James Delbourgo (McGill) <i>Colonial Collecting: Science and Slavery in Hans Sloane's Natural History of Jamaica</i></p> <p><b>11:20–12:00</b> Nicolas Lesté-Lasserre (l'École d. Hautes Études Sci. Soc.) <i>L'Astronomie Pratique au 18<sup>ème</sup> Siècle, une Forme d'Aristocratie</i></p> <p><b>12:00–12:40</b> Mina Kleiche Dray (Inst. de Recherche, Développement) <i>Impact des Interactions entre Université/Etat/Entreprise dans la Construction de la Communauté des Chimistes au Mexique</i></p>	<p style="text-align: center;"><b>Session/Séance I.2B MC 111</b> <b>Realism and Antirealism</b> Chair/Président: William Vanderburgh (Wichita)</p> <p><b>10:40–11:20</b> Robert G. Hudson (Saskatchewan) <i>Dark Matter and Realism</i></p> <p><b>11:20–12:00</b> K. Brad Wray (SUNY, Oswego) <i>Defending a Selectionist Explanation for the Success of Science</i></p> <p><b>12:00–12:40</b> David Shein (Bard) <i>On Retroactive Reference and Promiscuous Realism</i></p>	<p style="text-align: center;"><b>Session/Séance I.2C MC 112</b> <b>Paths Not Taken: Inevitability, Contingency, and Thought Experiments in the History of Science</b> Chair/Président: Anjan Chakravartty (IHPST, Toronto)</p> <p><b>10:40–11:10</b> Gregory Radick (Leeds) <i>The Factual and the Counterfactual in the History of Science</i></p> <p><b>11:10–11:40</b> Christopher D. Green (York) <i>What Difference Would it have made to the History of Psychology if the Johns Hopkins Philosophy Department had not Imploded in the mid-1880s?</i></p> <p><b>11:40–12:10</b> Sara T. Scharf (IHPST, Toronto) <i>Re-inventing the Dud: Are Theoretical Dead Ends Inevitable?</i></p> <p><b>12:10–12:40</b> P. Kyle Stanford (California, Irvine) <i>Theories of Generation and the Problem of Unconceived Alternatives</i></p>

<b>12:40-14:00</b>			<i>Lunch/Dîner</i>		
<b>13:00-14:00</b>			<b>STS/HPS Cluster Discussion</b>		
<b>14:00-15:20</b>			<b>Session/Séance I.3</b>		
<p><b>Session/Séance I.3A MC 104</b>  <b>Historical Issues in Paleontology and Paleoanthropology</b>  Chair/Président: Gregory Radick (Leeds)</p> <p><b>14:00-14:40</b>  Keynyn Brysse (IHPST, Toronto)  <i>'Groping in the Dark': The Burgess Shale and Evolutionary Theory</i></p> <p><b>14:40-15:20</b>  Jesse Richmond (California, San Diego)  <i>Digging for Agency : Explaining Historical Change in 20th C. Paleoanthropology</i></p>	<p><b>Session/Séance I.3B MC 111</b>  <b>Scientific Frameworks: Conventions and Constitutive Principles</b>  Chair/Président: Martin Thomson-Jones (Oberlin)</p> <p><b>14:00-14:40</b>  Michael J. DeMoor (Insitute for Christian Studies, Toronto)  <i>Friedman's Neo-Kantianism and Quinean Holism: Possibilities for Rapprochement</i></p> <p><b>14:40-15:20</b>  Kathleen Okruhlik (Western)  <i>Conventions, Bifurcations, and Constitutive Principles</i></p>	<p><b>Session/Séance I.3C MC 112</b>  <b>Social Organizations of Science</b>  Chair/Président: Andrew Ede (Alberta)</p> <p><b>14:00-14:40</b>  Robert Smith (Alberta)/Patrick McCray (California, S-B)  <i>Building the Next Big Machine</i></p> <p><b>14:40-15:20</b>  Francis Remedios (Leuven)  <i>Mirowski's Social and Philosophy of Science</i></p>			
<b>15:30-17:30</b>			<b>Session/Séance I.4</b>		
<p><b>Session/Séance I.4A MC 104</b>  <b>History of Numerals and Mathematics</b>  Chair/Président: Jean-Pierre Marquis (Montréal)</p> <p><b>15:30-16:10</b>  A. Boucenna (Ferhat Abbas)  <i>Sur L'Origine des Chiffres Arabes</i></p> <p><b>16:10-16:50</b>  Angelo De Bruycker (Catholic University, Leuven)  <i>Jesuits Doing Mathematics in the Seventeenth-Century Spanish Netherlands</i></p>	<p><b>Session/Séance I.4B MC 111</b>  <b>Natural Selection and the Causes of Evolution</b>  Chair/Président: Paul Thompson (IHPST, Toronto)</p> <p><b>15 :30-16 :00</b>  Frédéric Bouchard (Montréal)  <i>Heirarchical Selection and the Necessity for Causal Claims about Individuals in Natural Selection</i></p> <p><b>16:00-16:30</b>  Philippe Huneman (CNRS, Paris)  <i>Natural Selection as a Cause and as Explanation</i></p> <p><b>16:30-17:00</b>  Mohan Matthen (UBC)  <i>On Causes of Evolution</i></p> <p><b>17:00-17:30</b>  Denis Walsh (IHPST, Toronto)  <i>Dynamical vs. Statistical Interpretations of Selection and Drift</i></p>	<p><b>Session/Séance I.4C MC 112</b>  <b>Whistling Past the Graveyard: Obsolescence and Canadian Technology</b>  Chair/Président: Robert Smith (Alberta)</p> <p>Co-presented by CSHPS and the Canadian Science and Technology Historical Association (CSTHA)</p> <p><b>15:30-16:10</b>  Scott Campbell (IHPST, Toronto)  <i>Why Johnny Couldn't Program: Obsolescence and the History of Computing</i></p> <p><b>16:10-16:50</b>  Marionne Cronin (IHPST, Toronto)  <i>Fading Away: Technological Decline in Canadian Aviation</i></p> <p><b>16:50-17:30</b>  Jonathan Turner (IHPST, Toronto)  <i>The Arrow of Progress: The Canadian Aerospace Industry in the Cold War Arms Race</i></p>			
<b>17:00-19:00</b>			<b>Master's Reception, Bethune College</b>		
<b>Paul A. Delaney Gallery</b> <b>320 Norman Bethune College</b>			In celebration of the new Science and Technology Studies Program at York University		

**Day II. Tuesday, May 30/Jour II. Mardi, 30 Mai**

<b>9:10–10:30</b>		
<b>Session/Séance II.1A MC 104</b> <b>History of Psychology and the Mind</b> Chair/Président: Christopher D. Green (York)	<b>Session/Séance II.1B MC 111</b> <b>Philosophy of Physics</b> Chair/Président: Wayne Myrvold (Western)	<b>Session/Séance II.1C MC 112</b> <b>Issues in Clinical Medicine</b> Chair/Président: Delia Gavrus (IHPST, Toronto)
<b>9:10–9:50</b> Krisanna Scheiter (Pennsylvania) <i>Lewes and the Physiological-Psychological Problem</i>	<b>9:10–9:50</b> Alexandre Korolev (UBC) <i>Indeterminism, Acausality, and Time Irreversibility in Classical Physics</i>	<b>9:10–9:50</b> Jeremy Howick (LSE) <i>Placebo Controls: Epistemic Virtue or Vice ?</i>
<b>9:50–10:30</b> Sean Armstrong (Independent Scholar) <i>Freud and Hannibal: A Contribution to the Debate on Freud's Vision of Psychoanalysis as a Reformed Version of Judaism</i>	<b>9:50–10:30</b> Doreen Fraser (Pittsburgh) <i>A Dilemma of Theory Choice for Philosophers of Quantum Field Theory</i>	<b>9:50–10:30</b> Anne-Julie Houle (Montréal)/Mathieu Albert (Toronto) <i>The Development of an Interdisciplinary Research and Clinical Practice: The Case of Oncology</i>
<b>10:40–12:40</b>		
<b>Session/Séance II.2A MC 104</b> <b>Natural Philosophers, Physicians, and Industrialists in Eighteenth-century England</b> Chair/Président: Joan Steigerwald (York)	<b>Session/Séance II.2B MC 111</b> <b>Models: Explanation and Idealization</b> Chair/Président: P. Kyle Stanford (California, Irvine)	<b>Session/Séance II.2C MC 112</b> <b>Setting Standards?: The Increasing Authority of Regulatory Bodies in the Age of Public Health</b> Chair/Président: Claire Hooker (Toronto)
<b>10:40–11:20</b> Robert Iliffe (Imperial College, London) <i>Medicine, Natural History and Empire in Early Eighteenth Century London</i>	<b>10:40–11:20</b> J. J. MacIntosh (Calgary) <i>Models, Method, and Explanation in the Early Modern Period: 4 Case Studies</i>	<b>10:40–11:20</b> Vivien Hamilton (IHPST, Toronto) <i>The Curative Powers of Electricity: Appealing to Public Authority in Victorian Canada</i>
<b>11:20–12:00</b> Larry Stewart (Saskatchewan) <i>His Majesty's Subjects and the Experimental Realm of the Late Eighteenth Century</i>	<b>11:20–12:00</b> Gabriele Contessa (LSE) <i>Contextual Realism : Scientific Models, Representation, and the Breakdown of the Scientific Realism Debate</i>	<b>11:20–12:00</b> Brigit Ramsingh (IHPST, Toronto) <i>'Fit for Human Consumption': The Codex Alimentarius Commission and the Development of Food Safety Standards (1963-1970)</i>
<b>12:00–12:40</b> Trevor Levere (IHPST, Toronto) <i>Collaborations in Medicine and Science: Thomas Beddoes and the Lunar Society of Birmingham</i>	<b>12:00–12:40</b> Martin Thomson-Jones (Oberlin) <i>Models and Idealized Systems</i>	<b>12:00–12:40</b> Delia Gavrus (IHPST, Toronto) <i>Asserting Authority: The FDA's Strategy in Approving the New-Generation Antidepressants</i>

<b>12:40–14:00</b>		
<i>Council Meeting / Réunion de Conseil d'Administration</i>		
<b>12:40–14:00</b>		
<i>Lunch/Dîner</i>		
<b>14:00–15:20</b>		
<b>Session/Séance II.3</b>		
<b>Session/Séance II.3A MC 104</b> <b>Metaphors in Science</b> Chair/Président: Tara Abraham (York)	<b>Session/Séance II.3B MC 111</b> <b>Kinds and Constructivism</b> Chair/Président: Darrin Durant (York)	<b>Session/Séance II.3C MC 112</b> <b>Newton Revisited</b> Chair/Président: William Harper (Western)
<b>14:00–14:40</b> Andrew Reynolds (Cape Breton) <i>From Elementary Organisms to Chemical Factories: Changing Metaphors of the Cell</i>	<b>14:00-14:40</b> Jonathan Y. Tsou (Chicago) <i>Hacking on Looping Effects</i>	<b>14:00–14:40</b> Ori Belkind (Richmond) <i>Newton's Argument for Absolute Space</i>
<b>14:40–15:20</b> Mike Pettit (Toronto) <i>Hunting Duck-Rabbits</i>	<b>14:40-15:20</b> Guillaume Rochefort-Maranda (Bristol) <i>Rasmussen on the Construction of Facts</i>	<b>14:40-15:20</b> Edward Halper (Georgia) <i>Hegel's Criticism of Newton's Mechanics</i>
<b>15:30-16:50</b>		
<b>Session/Séance II.4</b>		
<b>Session/Séance II.4A MC 104</b> <b>Historical Conceptions of Sex and Bodies</b> Chair/Président: Kenton Kroker (York)	<b>Session/Séance II.4B MC 111</b> <b>Natural Philosophies: Descartes, Leibniz</b> Chair/Président: Ori Belkind (Richmond)	<b>Session/Séance II.4C MC 112</b> <b>Science Education and Pedagogy</b> Chair/Président: Bernard Lightman (York)
<b>15:30-16:10</b> Benny Goldberg (Pittsburgh) <i>Early Modern Reproductive Anatomy and the One-Sex Model: A Case Study of the Work of Regnier de Graaf</i>	<b>15:30-16:10</b> Susan Mills (Pennsylvania) <i>Teleology and the Healthy Human Body</i>	<b>15:30-16:10</b> Dana Rovang (Chicago) <i>'The Bird Wants to Fish': Free-will, Species Development, and Educational Movements in Early Nineteenth-Century Britain</i>
<b>16:10-16:50</b> Cornelius Borck (McGill) <i>Constructing the Utopian Body out of its Dismemberment in WWI: Raoul Hausmann's Philosophy of Prosthetic Synaesthesia</i>	<b>16:10-16:50</b> Jeffrey K. McDonough (Harvard) <i>Leibniz's Two Realms Revisited</i>	<b>16:10-16:50</b> Michelle Hoffman (IHPST, Toronto) <i>Factoring History into the Equation: History of Science in Ontario High School Physics Textbooks, 1911-Present</i>
<b>17:00–19:00</b>		
<b>President's Reception</b>		
<b>19:30–22:00</b>		
<b>CSHPS/SCHPS Banquet</b>		

**Day III. Wednesday, May 31/Jour III. Mercredi, 31 Mai**

<b>9:10–10:30</b>		
<b>Session/Séance III.1</b>		
<p><b>Session/Séance III.1A</b>  <b>Before and Beyond Darwin</b>                      Chair/Président: Frédéric Bouchard (Montréal)</p> <p><b>9:10–9:50</b>                      Trevor Pearce (Chicago)  <i>Complication of Circumstances: Darwin and the Economy of Nature</i></p> <p><b>9:50–10:30</b>                      Robert Brain (UBC)  <i>Memories of Protoplasm: Doctrines of Force in the Cell-State</i></p>	<p><b>Session/Séance III.1B</b>  <b>The Epistemology of Images</b>                      Chair/Président: Gabriele Contessa (LSE)</p> <p><b>9:10–9:50</b>                      Robyn Lynne Bluhm (Western)  <i>Beyond Blobology? – Is Functional Neuroimaging the New Phrenology?</i></p> <p><b>9:50–10:30</b>                      Letitia Meynell (Dalhousie)  <i>The Facts about Pictures: A Response to Perini</i></p>	<p><b>Session/Séance III.1C</b>  <b>Naturalism and Reductionism</b>                      Chair/Président: James Robert Brown (Toronto)</p> <p><b>9:10–9:50</b>                      Sorin Bangu (Toronto)  <i>An Old Problem in a New Setting: Maddy’s Mathematical Naturalism and Wigner’s Puzzle about Applicability</i></p> <p><b>9:50–10:30</b>                      Slobodan Perovic (St. Mary’s)  <i>Does the Principle of Natural Selection as a Law Concerning Physical Systems Grant Explanatory Autonomy of Biology?</i></p>
<b>10:40-12:40</b>		
<b>Session/Séance III.2</b>		
<p><b>Session/Séance III.2A</b>  <b>Histories of Entities and Technologies</b>                      Chair/Président: Marionne Cronin (IHPST, Toronto)</p> <p><b>10:40–11:20</b>                      Ruthanna Dyer (York)  <i>Reconstitution of the Organism: The Organism as a Research Technology</i></p> <p><b>11:20–12:00</b>                      Allan Olley (IHPST, Toronto)  <i>Savour of Extravagance: Punched Card Accounting Machines in Science, 1928-1945</i></p>	<p><b>Session/Séance III.2B</b>  <b>Reconsidering Einstein’s Evidence for Relativity</b>                      Chair/Président: Doreen Fraser (Pittsburgh)</p> <p><b>10:40–11:10</b>                      William Harper (Western)  <i>Turning Data into Evidence</i></p> <p><b>11:10–11:40</b>                      Mélanie Frappier (MSU-Mankato)  <i>Thought Experiments and Empirical Adequacy: Einstein and Poincaré on Distant Clocks Synchronization</i></p> <p><b>11:40–12:10</b>                      Robert DiSalle (Western)  <i>The Philosophical Origins of Relativity Theory, Reconsidered</i></p> <p><b>12:10–12:40</b>                      Carrie Klatt (Victoria)  <i>A Non-Empirical Preference for General Relativity</i></p>	<p><b>Session/Séance III.2C</b>  <b>Novel Prediction in Historical Practice</b>                      Chair/Président &amp; Commentator: Alison Wylie (Washington)</p> <p><b>10:40–11:10</b>                      Brian Baigrie (IHPST, Toronto)  <i>Novel Prediction and mid-19th Century Chemistry</i></p> <p><b>11:10–11:40</b>                      Paul Thompson (IHPST, Toronto)  <i>Novel Prediction and Evolutionary Biology</i></p> <p><b>11:40–12:10</b>                      James Robert Brown (Toronto)  <i>Novel Prediction and Particle Physics</i></p> <p><b>12:10–12:40</b>                      Alison Wylie (Washington)  <i>Commentary</i></p>

**12:40–14:30**

**Curtis Lecture Hall – F**

*Lunch & Annual General Meeting /  
Dîner & Assemblée Générale Annuelle*

**15:00-17:00**

**Curtis Lecture Hall – F**

**Stillman Drake Lecture /  
Conférence Stillman Drake**

Chair/Président : Gordon McOuat (King's)

Elisabeth Lloyd, Department of HPS  
University of Indiana, Bloomington

*Sex and the City:  
Redefining Female Desire and its Place in the  
Body Politic and the Political Body*

Co-presented by

CSHPS,  
the Canadian Society for Women in Philosophy,  
and the Canadian Women's Studies Association.