

## Annual Meeting/ Conférence Annuelle

**Canadian Society for History and Philosophy of Science / Société canadienne d'histoire et de philosophie des sciences  
Carleton University 26–28 May, 2009**

**Tuesday 26<sup>th</sup> May / Mardi, 26<sup>e</sup> Mai**

**8:00 – 9:00 am Executive Meeting / Réunion Executif**

**B842 Loeb**

### Session/Séance I.1

<b>I.1.a</b>	<b>I.1.b</b>	<b>I.1.c</b>
<p style="text-align: center;"><b>9:00–10:30 am</b>      <b>B249 Loeb</b></p> <p style="text-align: center;"><i>North American Sociology, 1930s–1950s</i> (Joint Session, CSA/CSHPS)</p> <p>Chair: Harold Riggins (Memorial)</p> <p>Neil McLaughlin (McMaster) “A Comparative Analysis of American Public Intellectuals from the 1950s and 1960s”</p> <p>Mark Solovey (Toronto) “Sociologist Harry Alpert and the National Science Foundation”</p> <p>Rick Helmes-Hayes (Waterloo) “John Porter and the New Liberalism in Canadian Sociology, 1950-1979”</p> <p>Donald Fisher (UBC) “The Discipline of Sociology in English-Speaking Canadian Universities, 1950-1990”</p>	<p style="text-align: center;"><b>9:00 –11:00 am</b>      <b>517 Southam*</b></p> <p style="text-align: center;"><i>History, Science &amp; Philosophy, 18<sup>th</sup> &amp; 19<sup>th</sup> c.</i></p> <p>Chair: Joan Steigerwald (York)</p> <p>Eric Palmer (Allegheny) “The best of all Panglosses”</p> <p>Omar Nasim (Max-Planck, Firenze) “Data, Phenomena and Non-Propositional Observational Records”</p> <p>Joseph Petrunic (Edinburgh) “The Tait-Clifford debate over mathematical foundations (1870-1880)”</p>	<p style="text-align: center;"><b>9:00 – 11:00 am</b>      <b>A602 Loeb*</b></p> <p style="text-align: center;"><i>Philosophy of Evolutionary Biology I: Thinking about Selection</i></p> <p>Chair: James Elwick (York)</p> <p>Jill Oliver (Waterloo) &amp; Shannon Dea (Waterloo) “Darwin and Sex Revisited”</p> <p>Peter Gildenhuys (Pittsburgh) “Explaining the Persistence of Biological Altruism without Invoking Group Selection”</p> <p>Eugene Earnshaw-Whyte (Toronto) “Selection and Drift: An elimination of process”</p>

**\* = Data Projector has been requested**


<b>Session/ Séance I.2</b>					
<p><b>I.2.a</b>            <b>11:00 am – 1:00 pm</b>            <b>516 Southam</b></p> <p style="text-align: center;"><i>Realism and Anti-Realism</i></p> <p>Chair: Ronald Giere</p> <p>Kathleen Okruhlik (Western) “Empiricist Structuralism and the Problem of Coordination”</p> <p>Daniel McArthur (York) “Metaphysics Constrained by Science: Ross and Ladyman’s Metaphysical Structural Realism”</p> <p>Corey Mulvihill (Waterloo) “Models and Modals: Scientific Models and Semantic Anti-Realism”</p>	<p><b>I.2.b</b>            <b>11:15 am – 1:00 pm</b>            <b>517 Southam*</b></p> <p style="text-align: center;"><i>Politics, Pedagogy and Popularization in Victorian Science</i></p> <p>Chair: Bernie Lightman (York)</p> <p>Gordon McOuat (King’s) “Diffusion of Really Useful Knowledge: A Victorian Challenge to Interest Free Science”</p> <p>Bernie Lightman (York) “Popularizing Evolution in Children’s Books”</p> <p>James Elwick (York) ‘An inconvenient test’: Victorian examinations, metrology, and accountability”</p>	<p><b>I.2.c</b>            <b>11:15 am – 1:00 pm</b>            <b>A602 Loeb*</b></p> <p style="text-align: center;"><i>Philosophy of Evolutionary Biology II: Systems and Phylogenies</i></p> <p>Chair: Ian Hesketh (Queen’s)</p> <p>Lisa Gannett (St. Mary’s) “Trees, Trellises, and the Garden of Eden”</p> <p>Kirsten MacDonald (Waterloo) <b>CANCELLED</b> “Evolutionizing Culture: Can It Be Done?”</p> <p>Frédéric Bouchard (Montréal) “How the definitions of community and ecosystem constrain how we define the evolution of symbioses”</p>			
<p><b>Also of interest...            11:30 am – 1pm            CPA Keynote address: Margaret Schabas (UBC)            Mackenzie (ME) 3380</b>  <b>“That Politics May be Reduced to a Science’: Hume and Smith on the Epistemic Status of the Moral Sciences”</b></p>					
<p><b>1:00 – 2:00 pm            Lunch /Dîner</b></p>					
<b>Session/ Séance I.3</b>					
<p><b>I.3.a</b>            <b>2:00 – 3:30 pm</b>            <b>516 Southam*</b></p> <p style="text-align: center;"><i>Realism and Anti-Realism II</i></p> <p>Chair: Corey Mulvihill (Waterloo)</p> <p>Michael McEwan (Waterloo) “A New Taxonomy of Idealizations, Abstractions and Approximations”</p> <p>Curtis Forbes (Toronto) “Is Constructive Empiricism Less Risky than Scientific Realism?”</p> <p>Dana Tulodziecki (Missouri-KC) <b>CANCELLED</b> “Underdetermination, methodological practices, and the case of John Snow”</p>	<p><b>I.3.b</b>            <b>2:00 – 4:00 pm</b>            <b>517 Southam*</b></p> <p style="text-align: center;"><i>Communicating Early-Modern Science</i></p> <p>Chair: Ric Arthur (McMaster)</p> <p>Kathryn Morris (King’s) “Fiction and Philosophy in Margaret Cavendish’s <i>The Blazing World</i>”</p> <p>Louis Sagnieres (Montréal) “Science, Trust and the Internet”</p> <p>Ian Stewart (King’s) “Thinking inside the box: the ‘new logic’ of Francis Bacon”</p>	<p><b>I.3.c</b>            <b>2:00 – 4:10 pm</b>            <b>A602 Loeb*</b></p> <p style="text-align: center;"><i>Darwinians and Non-Darwinians in Context</i></p> <p>Chair: Bernie Lightman (York)</p> <p>Hannah Gay (SFU &amp; ICL) “Chemist, Entomologist, Darwinian, and Man of Affairs: Raphael Meldola and the Making of a Scientific Career”</p> <p>Georgy Levit (King’s) “Bernhard Rensch’s (1900-1990) Panpsychistic Identism and the Modern Evolutionary Synthesis”</p> <p>Ian Hesketh (UBC) “Mythologizing the Oxford Debate of 1860”</p> <p>Trevor Pearce (Chicago) “The Spencer-Weismann Dispute in the 1890s”</p>			

<b>Session/ Séance I.4</b>					
<p><b>I.4.a</b>            <b>4:10 – 5:30 pm</b>            <b>516 Southam*</b></p> <p style="text-align: center;"><i>Daston, Galison, and Objectivity Reconsidered</i></p> <p>Chair: Gordon McOuat (King's)</p> <p>Danielle Hallet (UBC) "On the Subject of Goethe: Contributions to a History of Objectivity"</p> <p>Alan Richardson (UBC) "The Virtue Epistemology of Logical Empiricist Structural Objectivity"</p>	<p><b>I.4.b</b>            <b>4:10 – 5:30</b>            <b>517 Southam*</b></p> <p style="text-align: center;"><i>Systems and Networks in the History of Technology</i></p> <p>Chair: Ian Slater (York)</p> <p>Janis Langins (Toronto) "Vauban's theories of fortification and Vauban's disciples"</p> <p>Leslie Tomory (Toronto) "Building a stable network: gas in London 1812-1820"</p>	<p><b>I.4.c</b>            <b>4:20 – 5:30 pm</b>            <b>A602 Loeb*</b></p> <p style="text-align: center;"><i>Nietzsche, Darwin, and Darwinism</i></p> <p>Chair: James Elwick (York)</p> <p>Lukas Soderstrom (Montréal) "Nietzsche on Exaptation, Heredity and Evolution"</p> <p>Ben Mitchell (Toronto) "The Ends of Science in the Shadow of Nietzsche"</p>			
<p><b>President's Reception / Réception de la Présidente</b></p> <p><b>5 :00 – 7 :00 pm            Alumni Hall</b></p>					
<p><b>Joint Reception, CPA &amp; CSHPS, Hosted by the Department of Philosophy, Carleton University</b></p> <p><b>6:30 – 9:30 pm            Galleria, University Centre</b></p>					

<b>Wednesday 27<sup>th</sup> / Mercredi, 27<sup>e</sup> Mai</b>					
<b>Session/ Séance II.1</b>					
<p><b>II.1.a</b>            <b>9:00 – 11:00 am</b>    <b>502 Southam*</b></p> <p style="text-align: center;"><i>Models and Ontologies</i></p> <p>Chair: Anjan Chakravartty (Toronto)</p> <p>Ryan Samaroo (Western) “What does ‘contained in but not derivable from’ mean?”</p> <p>Alex Manafu (Western) “Configurational forces and the emergence of the chemical”</p> <p>Andrew Wayne (Guelph) “Idealization and Explanation in Physics”</p>	<p><b>II.1.b</b>            <b>9:00 – 11:30 am</b>    <b>A720 Loeb*</b></p> <p style="text-align: center;"><i>Methodological issues in Modern Medicine</i></p> <p>Chair: Frank Stahnisch (Calgary)</p> <p>Tracy Finn (Waterloo) “Classification and Diagnosis of Mental Illness: Insight from Autism Spectrum Disorders”</p> <p>Roger Stanev (UBC) "Jerome Cornfield’s Argument for a Causal Connection between Smoking and Lung Cancer"</p> <p>Robin Nunn (Toronto) “Randomized Controlled Anecdote: A Story of What Works in Medicine”</p> <p>Boaz Miller (Toronto) “The Social Epistemology of Values in Science: Breastfeeding and the Science of Good Motherhood”</p>	<p><b>II.1.c</b>            <b>9:00 – 11:00 pm</b>    <b>301 Paterson*</b></p> <p style="text-align: center;"><i>Science, Culture and Authority</i></p> <p>Chair: Shannon Dea (Waterloo)</p> <p>Kristen Hardy (York) “Boundaries of the Victorian Human”</p> <p>Vivien Hamilton (Toronto) “Can Trading Zones Have Experts?”</p> <p>Michael da Silva (King’s) “Paddling towards cultural synthesis: the canoe in Ontario museums”</p>			
<b>Session/ Séance II.2</b>					
<p><b>II.2.a</b>            <b>11:10–1:00 pm</b>    <b>502 Southam*</b></p> <p style="text-align: center;"><i>Models and Ontologies II</i></p> <p>Chair: Kathleen Okruhlik (Western)</p> <p>Anjan Chakravartty (Toronto) “Fundamental Physical Entities and their Properties”</p> <p>Alcibiades Malawi-Nelson (York) “Cybernetics’ machine ontology”</p> <p>Eran Tal (Toronto) “Simulation, Measurement and Accuracy”</p>	<p><b>II.2.b</b>            <b>11:40am–1:00 pm</b>    <b>A720 Loeb*</b></p> <p style="text-align: center;"><i>Methodological issues in Modern Medicine II</i></p> <p>Chair: Tara Abraham (Guelph)</p> <p>Frank Stahnisch (Calgary) “German-Speaking Neuroscientists in Canada after 1933”</p> <p>Patricia Liu (Toronto) “Persuading Outsiders: The Case of R.J. Reynolds and Its Support of the Prison Research Program (1980-1988)”</p>	<p><b>II.2.c</b>            <b>11:40 am – 1:00 pm</b>    <b>301 Paterson*</b></p> <p style="text-align: center;"><i>History and Philosophy of Mathematics</i></p> <p>Chair: Jim Brown (Toronto)</p> <p>Geordie McComb (Queen’s) “The Mathematical Aesthetics Thesis in the Philosophy of Science”</p> <p>Jean-Philippe Villeneuve (Cégep de Rimouski) “The Abstraction Process at the Beginning of Measure Theory in the late 19<sup>th</sup> century”</p>			

1:00 – 2:00 pm Lunch /Dîner			
1:00 – 2:00 pm		Executive Council Meeting/ Réunion de Conseil d' Executif	D880 Loeb
<b>Session/ Séance II.3</b>			
<p><b>II.3.a</b>      <b>2:00 – 5:30 pm</b>      <b>502 Southam*</b></p> <p style="text-align: center;"><i>Inconsistent Models: Truth, Context, and Perspective</i></p> <p style="text-align: center;"><i>Joint Symposium, CSHPS/CPA</i></p> <p>Ronald N. Giere (Minnesota) “Incompatible Theoretical Perspectives”</p> <p>Margaret Morrison (Toronto) “Inconsistent Models: Problems and Perspectives”</p> <p>Alex Rueger (Alberta) “ ‘Incompatible’ Models for Realists”</p> <p>Anjan Chakravartty (Toronto) “Perspectivism, Inconsistent Models, and Contrastive Explanation”</p>	<p><b>II.3.b</b>      <b>2:00 – 3:20 pm</b>      <b>A720 Loeb*</b></p> <p style="text-align: center;"><i>Modern Canadian Science and Technology</i></p> <p>Chair: Janis Langins (Toronto)</p> <p>Ian Slater (York) “The Taegeukgi and the Maple Leaf: The Pursuit of South Korean Export Markets by Atomic Energy Canada Ltd.”</p> <p>Richard. Milligan (McGill), Tyler McCreary (York) “The Historic and Contemporary Use of Indigenous Knowledge in Northern Resource Management Studies”</p>		
<b>Session/ Séance II.4</b>			
<p><b>II.4.b</b>      <b>3:30 – 5:30 pm</b>      <b>A720 Loeb*</b></p> <p style="text-align: center;"><i>Institutional Authority and the Authority of Science in Alchemical, Medical and Political Contexts</i></p> <p style="text-align: center;"><i>Joint Session, CSHPS/CHA</i></p> <p>Chair: Trevor H. Levere (Toronto)</p> <p>Victor D. Boantza (Toronto) “Alchemical Agendas, the New Science, and Institutional Authority at the Early <i>Académie Royale des Sciences</i>”</p> <p>Erich Weidenhammer (Toronto) “Reputation, Patronage and Natural Knowledge: John Pringle and the Royal Society”</p> <p>Jaipreet Virdi (Toronto) “Medical Authority and Medicalized Institutions: John Harrison Curtis &amp; the London Asylum for the Deaf and Dumb”</p>			

<b>Thursday, 28<sup>th</sup> May / Jeudi, 28<sup>e</sup> Mai</b>					
<b>Session/ Séance III.1</b>					
<p><b>III.1.a</b>      <b>9:00 am – 1:00 pm</b>      <b>517 Southam*</b></p> <p style="text-align: center;"><i>Symposium: Entanglements of Instruments and Media in Investigating Organic Worlds</i></p> <p>Chair: Lisa Gannett (St. Mary’s)</p> <p>Tara Abraham (Guelph) “On the mind and brain: Investigative practices in 20<sup>th</sup>-century neurophysiology and psychology”</p> <p>Aryn Martin (York) “Recalcitrant instruments, objects and investigators in the non-invention of a non-invasive prenatal genetic diagnosis technique”</p> <p>Nicole Nelson (Cornell) “Generating “anxiety like phenotypes” in the elevated plus maze: A measure of mouse anxiety or a model of human anxiety?”</p> <p>Joan Steigerwald (York) “Defining life in the eighteenth century: Instrumental reasoning, excitable matter and living subjects”</p> <p>Mathieu Charbonneau (Montréal) “Extended Thing Knowledge”</p>	<p><b>III.1.b</b>      <b>9:00 – 11:00 am</b>      <b>520 Southam*</b></p> <p style="text-align: center;"><i>Epistemic Values and Evidence</i></p> <p>Chair: Andrew Wayne (Guelph) Wayne Myrvold (Western) “Belief, Value, and Theory Choice”</p> <p>Mike Thicke (Toronto) “Bayesian Statistics in Gravitational Wave Astronomy”</p> <p>Antoine C.-Dussault (Montréal) “Putnam and science value-neutrality”</p> <p>Jacob Stegenga (UCSD) “Paradoxes of Amalgamating Multimodal Evidence”</p>	<p><b>III.1.c</b>      <b>9:00 – 11:00 am</b>      <b>417 Southam*</b></p> <p style="text-align: center;"><i>Natural Kinds</i></p> <p>Chair: Jim Brown (Toronto)</p> <p>Neil Williams (SUNY Buffalo) “Must Natural Kind Essences be Intrinsic?”</p> <p>James Overton (Western) “Domain Ontologies and Philosophy of Science”</p> <p>Serife Tekin (York) “Understanding Mental Illness: Moving Beyond Natural Kinds”</p>			
<b>Session/ Séance III.2</b>					
	<p><b>III.2.b</b>      <b>11:15 am – 1:00 pm</b>      <b>520 Southam*</b></p> <p style="text-align: center;"><i>The Logic of Science and the Status of Laws</i></p> <p>Chair: Alan Richardson (UBC)</p> <p>Duncan Maclean (McMaster) “Best Systems Analysis and the Problem of Undermining”</p> <p>Travis Dumsday (Calgary) “Scientific Essentialism and the Global Laws Problem”</p> <p>Aaron Barth (Western), Steve Bland (Western) “The Goals of Carnap’s Reconstructive Program”</p>	<p><b>III.2.c</b>      <b>11:15 am – 1:00 pm</b>      <b>417 Southam*</b></p> <p style="text-align: center;"><i>Philosophy of Quantum Mechanics</i></p> <p>Chair: Wayne Myrvold (Western)</p> <p>Michael Cuffaro (Western) “The Electron as Noumenon”</p> <p>Mark Shumelda (Toronto) “The Hole Argument in Quantum Gravity”</p> <p>Laurent Jodoin (Laval) “Causality, quantum mechanics and entropy increase”</p>			

<p><b>11:00 am – 12:30 pm (departure @ 10:30 am) Special Visit to Canada Museum of Science and Technology</b></p> <p>Note: this is limited to 30 people. Pre-register by e-mail at <a href="mailto:program.cshps@gmail.com">program.cshps@gmail.com</a> or at the CSHPS Conference Table—<u>first come first serve!</u></p>		
<b>1:00 – 2:30 pm</b>	<b>Lunch &amp; Annual General Meeting /Dîner &amp; Assemblée Générale Annuelle</b>	<b>518 Southam</b>
<b>3:00 – 5:00 pm</b>	<b>Stillman Drake Lecture / Conférence Stillman Drake</b>	<b>Theatre B, Southam*</b>
<p><b>Co-sponsored by / Avec le soutiens de:</b></p>		
 <p>MUSÉE CANADIEN DES CIVILISATIONS CANADIAN MUSEUM OF CIVILIZATION</p>		
<p><b>Professor Alison Wylie</b>, University of Washington <i>The Future of Archaeology: Collaborative Practice in Action</i></p>		
<p>Chair/Président : Richard Arthur (McMaster)</p>		