

Canadian Society for History and Philosophy of Science 2012 / Société canadienne d'histoire et de philosophie des sciences 2012

Carl Pollock Hall, University of Waterloo

Saturday, May 26 / Samedi, 26 Mai

7:00 pm – 10:00 pm CPH 3602 Executive Meeting / Réunion du Comité Exécutif

Day I: Sunday, May 27 / Jour I: Dimanche, 27 Mai

9 am – 11:30 am	Session/Séance I.1A	9 am – 11:30 am	Session/Séance I.1B	9 am – 12 pm	Session/Séance I.1C
	<p>Session/Séance I.1A CPH 3602</p> <p><i>Understanding Living Organisms/ Comprendre le vivant</i></p> <p>Human Manufacture or Product of Nature? The first life patent in Canada, 1976-1982 <i>Rebecca Moore, University of Toronto</i></p> <p>Thinking Outside the Mouse: Human Immunology, Animal Models and Organism-Environment Interactions. <i>Gillian Barker and Eric Desjardins, The University of Western Ontario</i></p> <p>From Pathways to Networks: Developments in the Science of Intracellular Signalling. <i>Andrew S. Reynolds, Cape Breton University</i></p>		<p>Session/Séance I.1B CPH 3604</p> <p><i>Medical Evidence/ Évidences médicales</i></p> <p>Is Gender-Specific Medicine Epistemologically Well-Grounded? <i>Cristina Amoretti and Nicla Vassallo, University of Genoa</i></p> <p>Assessing Medical Evidence <i>Jacob Stegenga, University of Toronto</i></p> <p>Evidence Amalgamation and the Principle of Total Evidence <i>Bert Leuridan, Universiteit Gent</i></p>		<p>Session/Séance I.1C RCH 211</p> <p><i>The Laboratory of the Mind/ Le laboratoire de l'esprit</i> Joint Session CPA/CSHPS – Séance Commune ACP/SCPHS</p> <p>A Muse of Fire <i>James Robert Brown, University of Toronto</i></p> <p>The Cognitive Science of Thought Experiments: Paul Thagard's Skepticism <i>Mike Stuart, University of Toronto</i></p> <p>A Waltonian Model of Thought Experiments <i>Letitia Meynell, Dalhousie University</i></p> <p>Thought Experiments and Computer Simulations: A Paradox for Empiricism? <i>Javier Lanao, University of Toronto</i></p>
	11:30 am – 1:00pm	Lunch / Dîner		12:00 pm – 1:00pm	Lunch / Dîner

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1:00 pm – 3:00 pm Session/Séance I.2		
<p align="center">Session/Séance I.2A CPH 3602</p> <p align="center"><i>Thinking About Ecology, Thinking Using Ecology/ Penser en écologie et avec l'écologie</i></p> <p>Objective lenses? Planet Earth's HD Cameras as Political and Situated. <i>Eleanor Louson, York University</i></p> <p>On the Normativity and Holism of Ecosystem Health <i>Antoine Corriveau-Dussault, Université de Montréal</i></p> <p>The Methodological Individualism of Individual-Based Ecological Modeling. <i>James Justus, Florida State University</i></p>	<p align="center">Session/Séance I.2B CPH 3604</p> <p align="center"><i>History and Philosophy of Celestial Mechanics/ Histoire et philosophie de la mécanique céleste</i></p> <p>Does Newton's Theory of Gravity Postulate Causal Action at a Distance? <i>Lina Jansson, Nanyang Technological University</i></p> <p>The Story Has No Villains: Mach's Critique of Newton <i>Nicholas Ray, University of Western Ontario</i></p> <p>The Hollow Moon: Inference in Celestial Mechanics <i>Allan Olley</i></p>	<p align="center">Session/Séance I.2C CPH 1346</p> <p align="center"><i>European Medicine: Contexts and History Médecine européenne: contextes et histoires</i></p> <p>"A Fever Caused by Sadness": Descartes' Psychosomatic Medicine. <i>Susan Mills Grant MacEwan University, City Centre Campus</i></p> <p>Innovation et Diffusion des Techniques de Diagnostic Prénatal en France de 1821 à 1970. <i>Hélène Richard, Université Paris 1 Sorbonne</i></p> <p>Blurring Boundaries by Focusing Images. Medical Science and Medical Practice in Interwar Strasbourg, France. <i>Tricia Close-Koenig, Université de Strasbourg</i></p>
3-3:30: Coffee and Snacks		
3:30 pm – 5:30 pm Session/Séance I.3		
<p align="center">Session/Séance I.3A CPH 3602</p> <p align="center"><i>History and Philosophy of Biology/ Histoire et philosophie de la biologie</i></p> <p>Evolutionary Developmental Biology and the Limits of Philosophical Accounts of Mechanistic Explanation <i>Ingo Brigandt, University of Alberta</i></p> <p>From Homology/Analogy to Homology/Novelty: 170 years of the Concept of Homology <i>Brian K. Hall, Dalhousie University</i></p> <p>Hans Jonas and Dialectical Opposition in Biology <i>P. William Hughes, Carleton University</i></p>	<p align="center">Session/Séance I.3B CPH 3604</p> <p align="center"><i>New Perspectives on Carnap/ Nouvelles perspectives sur Carnap</i></p> <p>The Prospects for a Neo-Carnapian Philosophy of Mathematics <i>Greg Lavers, Concordia University</i></p> <p>Carnap, Quine, and the Dogma of Reductionism <i>Steven Bland, Huron University College</i></p> <p>Understanding Carnap's Language <i>Parzhad Torfeghezhad, Concordia University</i></p>	<p align="center">Session/Séance I.3C CPH 1346</p> <p align="center"><i>Laws of Nature/ Lois de la nature</i></p> <p>Laws of Nature Don't Have Ceteris Paribus Clauses, They Are Ceteris Paribus Clauses <i>Travis Dumsday, Livingstone College</i></p> <p>Methodological Implications of the Uniqueness of the Universe for Modern Cosmology. <i>Yann Benétreau-Dupin, The University of Western Ontario</i></p> <p>Must Lange's Laws of Nature Be Complete? <i>Christopher Belanger, University of Toronto</i></p>

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Day II: Monday, May 28 / Jour II: Lundi, 28 Mai

9:00 am – 10:20 am Session/Séance II.1AB		9 am-12pm Session/Séance II.1C
<p align="center">Session/Séance II.1A CPH 3602 <i>Scientific Expertise – Part I</i> <i>L'expertise scientifique – 1ère partie</i></p> <p>Town and Lab Coat: The University of Toronto and Role of Expertise in City Governance <i>James Hull, University of British Columbia</i></p> <p>What is at Stake in Democratizing Knowledge? The Relation Between Knowledge and the Political <i>James Wong, Wilfrid Laurier University</i></p>	<p align="center">Session/Séance II.1B CPH 3604 <i>On Mechanistic Explanations/</i> <i>Sur les explications mécanistiques</i></p> <p>A Patchwork View of Mechanistic Explanations <i>Eric Hochstein, University of Waterloo</i></p>	<p align="center">Session/Séance II.1C Perimeter Institute, Alice Room</p> <p align="center"><i>Methodology and Cosmology Today</i> <i>Méthode dans la cosmologie actuelle</i></p> <p>Registration (Entrance of the PI/Entrée du PI)</p> <p>Newton's Scientific Method in Cosmology Today: The Transformation of Dark Energy from Wild Hypothesis to Accepted Background for Large Scale Cosmology. <i>Bill Harper, The University of Western Ontario</i></p>
10:20 am-10:30 am Break/Pause		
10:30 am – 11:50 am Session/Séance II.2AB		
<p align="center">Session/Séance II.2A CPH 3602 <i>Scientific Expertise – Part II</i> <i>L'expertise scientifique – 2ième partie</i></p> <p>How Institutional Norms Offer a Rational Justification for the Deference to Scientific Experts <i>Frédéric Bouchard, Université de Montréal</i></p> <p>On the Social Responsibility of Philosophers of Science <i>Wayne C. Myrvold, The University of Western Ontario</i></p>	<p align="center">Session/Séance II.2B CPH 3604 <i>Emergence</i> <i>Émergence</i></p> <p>Downward Determination and Downward Explanation <i>Alex Djedovic, University of Toronto</i></p> <p>Emergence and Levels in Early Systems Thinking <i>M. Hayden Thornburg, University of Cincinnati</i></p>	<p>The Phillips Relation as a Newtonian Phenomenon <i>Dylan Gault, The University of Western Ontario</i></p> <p>Dark Energy and Empirical Cosmology <i>James Taylor, University of Waterloo</i></p> <p>Visit of the Perimeter Institute</p> <p align="center"><i>This session is made possible thanks to the organizational and financial support of the Perimeter Institute.</i></p> <p align="center"><i>Cette session est rendue possible grâce au soutien financier et administratif du Perimeter Institute</i></p>
11:50 am – 1:15pm Lunch / Dîner		

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1:20 pm – 4:00 pm Session/Séance II.3

<p align="center">Session/Séance II.3A CPH 3602</p> <p align="center"><i>Early Interpretations of Quantum Mechanics/ Les premières interprétations de la mécanique quantique</i></p> <p>Reconsidering Bohr's Neo Kantianism <i>Dan McArthur, York University</i></p> <p>A New Approach to Niels Bohr's Philosophy of Complementarity <i>Micah Anshan, The University of King's College</i></p> <p>The Status of Quantum Mechanics in Russell's Mature Philosophy. <i>Dustin Olson, University of Rochester</i></p> <p>Einstein on Separability and the Very Possibility of Science. <i>Kent Peacock, University of Lethbridge</i></p>	<p align="center">Session/Séance II.3B CPH 3604</p> <p align="center"><i>Scientific Knowledge- Historical and philosophical perspectives /Le savoir scientifique- perspectives historiques et philosophique</i></p> <p>Putting Meat on Lockean Bones: An Argument for a Thick Lockean Thesis of Belief <i>Anthony Boese, University of St. Andrews</i></p> <p>The Trinity and the Cube: Nescience in the Epistemology of John Wallis <i>Adam Richter, University of Toronto</i></p> <p>Dewey on Science, Arts and Greek Philosophy <i>Matthew Crippen, American University in Cairo</i></p> <p>Is Scientific Knowledge Possible? <i>Alex Wilson, York University</i></p>	<p align="center">Session/Séance II.3C CPH 1346</p> <p align="center"><i>Reconsidering Logical Empiricism/ Reconsidérer l'empirisme logique</i></p> <p>On the "Logical Behaviourism" of Logical Positivism <i>Sean Crawford, University of Manchester</i></p> <p>Logical Empiricism's Political Perspective on Language <i>Basak Aray, Université Paris 1 Panthéon-Sorbonne</i></p> <p>Logical Empiricism Philosophy of Biology Reconsidered: An Examination of Felix Mainx's Foundations of Biology <i>Richard Gawne, Duke University</i></p> <p>Philipp Frank's Science, Facts, and Values: Refining the Role of Values in Logical Empiricism <i>Amy Wuest, Department of Philosophy</i></p>
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4:00-4:30 pm Coffee and Snacks

4:30 pm – 6:00 pm Physics Room 145

Stillman Drake Lecture/ Conférence Stillman Drake

Kenneth O. May Lecture/ Conférence Kenneth O. May

Andrew Hodges

Wadham College, Oxford University

'What does Alan Turing tell us about the history of science?'

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

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Day III: Tuesday, May 29 / Jour III: Mardi, 29 Mai

9:00 am – 11:00 am Session/Séance III.1		
<p>Session/Séance III.1A CPH 3602 <i>Inferences and sciences/ Inférences et science</i></p> <p>Abduction in Science and Cognition <i>Sheldon Chow, University of Western Ontario</i></p> <p>A New Measure of Correlation to Infer Causation <i>Nicole Jinn, University of British Columbia</i></p> <p>Measurement and Underdetermination <i>Chris Smeenk, The University of Western Ontario</i></p>	<p>Session/Séance III.1B CPH 3604 <i>On Theory Choice/ Sur le choix des théories</i></p> <p>Psillos Thinks We Ought to be Realists. But Why? <i>Marc Champagne, York University</i></p> <p>The Roles of History of Science and Philosophy of Science in T. S. Kuhn's Understanding of the Nature of Theory Choice in Science <i>Shelly Jordan</i></p> <p>Voluntarism, Values, and van Fraassen <i>Kathleen Okruhlik, The University of Western Ontario</i></p>	<p>Session/Séance III.1C CPH 1346 <i>On the History and Philosophy of Motion/ Sur l'histoire et la philosophie du mouvement</i></p> <p>Early Fourteenth-Century Theories of Motion: Thomas de Bailly and Hervaeus Natalis on Continuity and Actual and Potential Infinities <i>Brian Francis Conolly, Bard College at Simon's Rock</i></p> <p>Leibniz on the Relativity of Motion <i>Richard T.W. Arthur, McMaster University</i></p> <p>On Friedman's Characterisation of the Equivalence Principle <i>Ryan Samaroo, The University of Western Ontario</i></p>
11:00 – 11:20 pm Coffee and Snacks		
11:20 am – 12:40 pm Session/Séance III.2		
<p>Session/Séance III.2A CPH 3602 <i>When Artefacts Change Science/ Quand les artifacts changent la science</i></p> <p>Illuminating Turn of the Century Physics at the University of Toronto: The Case of the Crookes Tube. <i>Melissa Charenko, University of Toronto</i></p> <p>Wax, Models, and Anatomy: The Material Culture of the Body in Eighteenth-Century Italy <i>Lucia Dacome, University of Toronto</i></p>	<p>Session/Séance III.2B CPH 3604 <i>Consciousness and Cognition/ Conscience et connaissance</i></p> <p>On the evolution of an interpretive-access process of mind reading: the case of the default-mode network. <i>Taylor Murphy, University of Alberta</i></p> <p>Mechanistic Explanation and the Classicism-Connectionism Debate <i>Dany Pearlberg, Ohio State University</i></p>	<p>Session/Séance III.2C CPH 1346 <i>Scientific Representations/ Représentations scientifiques</i></p> <p>Lucien Lamoureux The University of Western Ontario <i>Where Is There? Self-Location in Structural Representation</i></p> <p>Towards an account of scientific representation <i>Agnes Bolinska, University of Toronto</i></p>

12:40 pm – 2:40 pm CPH 1346

Lunch & Annual General Meeting / Dîner & Assemblée Générale Annuelle

2:45 am – 4:45 pm Session/Séance III.3

Session/Séance III.3A CPH 3602	Session/Séance III.3B CPH 3604	Session/Séance III.3C CPH 1346
<p><i>Canadian Medicine in Context/ La médecine canadienne et son contexte</i></p> <p>The Vital Force of the Nation: Homeopathy and Biopolitics in Victorian Canada <i>Kristen A. Hardy, York University</i></p> <p>Dr. Emily Stowe and the founding of the Women's Medical College (1883): Negotiating a Place for Women in 19th-century Canadian Medicine. <i>Riiko Bedford, University of Toronto</i></p> <p>Representing the Health of Aboriginal children at the Spanish River Residential School, Ontario <i>Leah Wiener</i></p>	<p><i>Interpreting Quantum Mechanics/ Interpréter la mécanique quantique.</i></p> <p>Reflections on the Role of Entanglement in the Explanation of Quantum Computational Speedup <i>Michael Cuffaro, University of Western Ontario</i></p> <p>On the Philosophical Significance of the Pusey-Barrett-Rudolph Theorem <i>Morgan Tait, University of Western Ontario</i></p>	<p><i>Models/ Modèles</i></p> <p>'Models-as-mediators': is there a missing link? <i>Philippe Verreault-Julien, Erasmus Universiteit Rotterdam</i></p> <p>Animadversions on the Semantic View of Theories <i>Erik Curiel, University of Western Ontario</i></p> <p>Who is a suitably prepared model user? <i>Isaac Record, University of Toronto</i></p>

5-7pm Physical Activities Complex (PAC), University of Waterloo

Presidents Reception/ Réception des présidents