

Canadian Society for History and Philosophy of Science 2007 / Société canadienne d'histoire et de philosophie des sciences 2007

University of Saskatchewan/Université de Saskatchewan

Day I. Monday, May 28 / Jour I. Lundi, 28 Mai

7:30–9:00		
Executive Meeting / Réunion du Comité Exécutif Physic 130		
9:00–10:30		
Session/Séance I.1		
<p align="center">Session/Séance I.1A Physic 107 Enlightenment Science Chair/Président: Ian Hesketh</p> <p>9:00–9:30 Victor D. Boantz (Toronto) <i>Pneumatic Transmutations, the Constitution of Air(s), and Phlogiston's Last Hurrah</i></p> <p>9:30–10:00 Erich Weidenhammer (Halifax) <i>Late Eighteenth-Century English Approaches to Health and the Environment</i></p> <p>10:00–10:30 Ernst Hamm (York) <i>Outsiders, Insiders and Science in the Dutch Enlightenment</i></p>	<p align="center">Session/Séance I.1B Physic 130 Holism, Confirmation and Scientific Theories Chair/Président: Micheal McEwan</p> <p>9:00–9:30 Joe Morrison (Sheffield) <i>Three Holistic Theses</i></p> <p>9:30–10:00 Michael J. DeMoor (Amsterdam) <i>Holism and the Constitutive A Priori: Hegel, Friedman and Quine</i></p> <p>10:00–10:30 Jan Sprenger (LSE) <i>A confirmation-theoretic guide to explanation</i></p>	
10:45–12:45		
Session/Séance I.2		
<p align="center">Session/Séance I.2A Physic 107 Science, Art and Modernity on Both Sides of the Rhine Chair/Président: Joan Steigerwald</p> <p>10:45–11:15 Sofie Lachapelle (Guelph) <i>The Great Magician as Ambassador of Science: Robert-Houdin on the Stage in France and Algeria (1845-1871)</i></p> <p>11:15–11:45 Robert M. Brain (British Columbia) <i>Physiognomies of the Accused: Graphology, Psycho-Physiology and Battle of Images in the Dreyfus Affair</i></p>	<p align="center">Session/Séance I.2B Physic 130 Laws of Nature Chair/Président: Anjan Chakravartty</p> <p>10:45–11:25 J. J. MacIntosh (Calgary) <i>Robert Boyle on Laws of Nature</i></p> <p>11:25–12:05 Travis Dumsday (Calgary) <i>Aquinas on the Laws of Nature</i></p>	

<p>11:45–12:15 Cornelius Borck (McGill) <i>Montage: Stitching Science, Art, and Work together in Weimar Germany</i></p> <p>12 :15-12 :45 Oliver A. I. Botar (Manitoba) <i>The Biocentric Bauhaus</i></p>	<p>12:05–12:45 Kirk McDermid (Montclair State) <i>Physicalism and Miracles</i></p>	
Lunch/Dîner		
14:00–15:30 Session/Séance I.3		
<p style="text-align: center;">Session/Séance I.3A THORV 271 Joint Session with ACCUTE “Adaptation: The Plenary, Not the Movie” Three Perspectives on Adaptationism: Literary, Biological and Philosophical Chair/Président: Steven Bruhm</p> <p>Linda Hutcheon (Toronto) <i>Recent Literary Interest in Adaptation</i></p> <p>Gary Bortolotti (Saskatchewan) <i>Parallels and Homologies with Evolutionary Biology</i></p> <p>Gordon McOuat (King’s) <i>Adapting the Adaptationish Project — Very Dangerously, Mind You</i></p>	<p style="text-align: center;">Session/Séance I.3B Physic 130 Philosophy of Mathematics Chair/Président: Lawrence Deck</p> <p>14:00-14:30 María Ponte Azcárate (Brown) <i>Naturalism, mathematics and its applications to science: The role of the indispensability argument</i></p> <p>14:30-15:00 Makmiller Pedroso (Calgary) <i>Sets, Categories, and the Foundation of Mathematics</i></p> <p>15:00-15:30 Jean-Philippe Villeneuve (Montréal) <i>From Cauchy’s integral to Lebesgue’s integral axiomatization: When a new interpretation becomes a reinterpretation</i></p>	
15:45–17:15 Session/Séance I.4		
<p style="text-align: center;">Session/Séance I.4A Physic 107 Methodologies in Experimental Psychology and Neuro-Physiology Chair/Président: Tara Abraham</p> <p>15:45–16:15 Kenton Kroker (York) <i>Insomnia in the laboratory and the clinic</i></p>	<p style="text-align: center;">Session/Séance I.4B Physic 130 Scientific Representation, Models and Thought Experiments Chair/Président: Frédéric Bouchard</p> <p>15:45–16:15 Anjan Chakravartty (Toronto) <i>Informational versus Inferential Views of Scientific Representation</i></p>	

<p>16:15–16:45 Tracy Finn (Waterloo) <i>Hypothesis Testing in Psychology: An Investigation and Defense</i></p> <p>16:45-17:15 Gord Binsted (Saskatchewan) <i>The Difference Between Observation, Data and Evidence: A Case Study from Physiology</i></p>	<p>16:15–16:45 Micheal McEwan (Waterloo) <i>The Semantic View: Language Independence, Löwenheim-Skolem and Quantum Mechanics</i></p> <p>16:45-17:15 Mélanie Frappier (Minnesota State) <i>A Good Play with a Badly Written Third Act: Reflections on the Theoretical Dependence of Thought Experiments</i></p>	
<p>17:00-19:00</p> <p>Department of Philosophy Reception PCS Atrium, Commerce Building All members of CSHPS welcome</p>		

Day II. Tuesday, May 29/Jour II. Mardi, 29 Mai

9:00–10:30		
<p style="text-align: center;">Session/Séance II.1A Physic 107 Ampliative Inference, Causal Prediction and Naturalized Epistemology Chair/Président: Ben Almassi</p> <p>9:00–9:30 Ryan Samaroo (Western Ontario) <i>A Reichenbachian Reply to Earman’s Critique of the Gaifman-Smirnoff Theorem</i></p> <p>9:30–10:00 Erdal Atukeren (KOF Zurich) <i>On Granger-Causality</i></p> <p>10:00-10:30 Tudor Baetu (Montreal) Co-referential models and the cumulativity of scientific knowledge</p>	<p style="text-align: center;">Session/Séance II.1B Physic 130 Issues in Nineteenth Century Science Chair/Président: Ernst Hamm</p> <p>9:00–9:30 Elizabeth Neswald (Brock) <i>‘The Benefits of a Mechanics’ Institute and the Blessings of Temperance’. Science and Temperance in mid-nineteenth century Ireland</i></p> <p>9:30–10:00 Ian Hesketh (British Columbia) <i>“It is history itself that speaks”: Aperspectival Objectivity and the Science of History in Victorian Britain</i></p> <p>10:00-10:30 Kathleen Okruhlik (Western Ontario) <i>The Traffic between Epistemic and Ethical Issues in the Work of John Stuart Mill</i></p>	

Session/Séance II.2		
<p>10:45–12:15</p> <p style="text-align: center;">Session/Séance II.2A Physic 107 Episodes in Twentieth Century Physics: Attempts at Unified Theories and Cosmological Models Chair/Président: Yvon Gauthier</p> <p>10:45–11:15 Carrie Klatt (Victoria) <i>Conditions for the Unification of Gravity and Electromagnetism</i></p> <p>11:15–11:45 Brian Allan Woodcock (Western Ontario) <i>Quantum State Collapse Along a Light Cone: History and Objections</i></p> <p>11:45–12:15 Dylan Gault (Western Ontario) <i>The Quasar Challenge</i></p>	<p style="text-align: center;">Session/Séance II.2B Physic 130 Ancient Cosmologies Chair/Président: Walter Kreyszig</p> <p>10:45–11:15 Jacqueline Feke (Toronto) <i>Aristotle's Theological Cosmology</i></p> <p>11:15–11:45 Elizabeth Burns (Toronto) <i>Ancient Astronomical Mechanisms: Ptolemy's Planetary Hypotheses</i></p> <p>11:45–12:15 Salvatore di Piazza (Palermo) <i>Technai stochastikai et la théorie du hos epi to polu: la connaissance conjecturale dans la Grèce Antique</i></p>	<p style="text-align: center;">Session/Séance II.2C Physic 128 Sociology of Scientific Knowledge Chair/Président: Cornelius Borck</p> <p>10:45–11:15 Lynda Lange (Toronto) <i>Scholarly Prosperity and Institutional Epistemology in Early Modernity</i></p> <p>11:15–11:45 Jeff Kochan (Alberta) <i>Scepticism and the Sociology of Scientific Knowledge</i></p> <p>11:45–12:15 Karyn Freedman (Guelph) <i>Diversity and the Fate of Objectivity</i></p>
Council Meeting / Réunion de Conseil		
12:30–14:00		
d'Administration		
Physic 175		
12:15–14:00		
Lunch/Dîner		
14:00–15:30		
Session/Séance II.3		
<p style="text-align: center;">Session/Séance II.3A Physic 107 Structural Explanations in Relativity and Quantum Theory Chair/Président: Brian Allan Woodcock</p> <p>14:00–14:40 Iulian Toader (Notre Dame) <i>Structural Realism and the Problem of Inequivalent Representations in Algebraic Quantum Field Theory</i></p> <p>14:40–15:20 Yvon Gauthier (Montreal) <i>Minkowski's space-time diagrams: from the geometry of numbers to physical geometry</i></p>	<p style="text-align: center;">Session/Séance II.3B Physic 130 Histoire des sciences et des technologies biomédicales Chair/Président: Salvatore di Piazza</p> <p>14:00–14:30 Yohan Philippe (Sherbrooke) <i>Louis Pasteur et la génération spontanée</i></p> <p>14:30–15:00 Stéphanie Tésio (Laval) <i>La pharmacie civile et urbaine au XVIIIème siècle. Etude comparative (France-Canada)</i></p>	<p style="text-align: center;">Session/Séance II.3C Physic 128 Forging Disciplines Chair/Président: Kenton Kroker</p> <p>14:00–14:30 Katharine Anderson (York) <i>Oceans and Scientific Observation</i></p> <p>14:30–15:00 Vivien Hamilton (Toronto) <i>What do Doctors Need to Know about Physics? The Creation of Medical Physics Following the Discovery of X-Rays.</i></p>

	<p>15:00-15 :30 Fabrice Gzil (Sorbonne) <i>L'individualisation de la maladie d'Alzheimer (1906-1911): une découverte fondatrice ou une contre-pensée?</i></p>	<p>15:00-15 :30 Martha Harris (Toronto) <i>Emergence of a Chemical Physicist: Pauling and a Community on the Verge</i></p>
15:45-16 :45	Session/Séance II.4	
<p>Session/Séance II.4A Physic 107 Music as <i>Scientia</i> Chair/Président: María Ponte Azcárate</p> <p>15:45-16:15 Ohran Noh (Saskatchewan) <i>Art or Science OR Art and Science --- Wolfgang Amadeus Mozart from the Perspective of Franz Joseph Haydn's Compositionswissenschaft; Testing the Analytical Method of Heinrich Schenker on the Opening Movement of Mozart's Keyboard Sonata in F-Major, KV 533/494</i></p> <p>16:15-16:45 Walter Kreyszig (Saskatchewan) <i>The Greek systema teleion and the Guidonian systema hexachordum as scientia musicae in the Context of the Humanist historiographia and philosophia: Bridging National, Linguistic and Disciplinary Boundaries in the Trilogy of Franchino Gaffurio (1451-1522)</i></p>	<p>Session/Séance II.4B Physic 130 Canadian Industry: Organizations and Practices Chair/Président: Elizabeth Neswald</p> <p>15:45-16:15 Janet Martin-Nielsen (Toronto) <i>In Principle but not in Practice: Professional Engineering Organizations in 20th century Canada</i></p> <p>16:15-16:45 Renald Fortier (Canada Aviation Museum) <i>Weed'em and Reap - A Look at Agricultural Aviation in Canada in the Early Postwar Period</i></p>	<p>Session/Séance II.4C Physic 128 Material Practices in the Bio-Medical Sciences Chair/Président: Tracy Finn</p> <p>15:45-16:15 Tricia Koenig (Louis Pasteur, Strasbourg) <i>One's garbage is another's treasure: "Informed materials" in the pathology lab</i></p> <p>16:15-16:45 Howard Hsueh-Hao Chiang (Princeton) <i>Laboratory Practice, Biological Knowledge: The Intersecting Paths of Separation Science and Biomolecular Science, 1945-1965</i></p>
17:00–19:00	President's Reception	
19:30–22:00	CSHPS/SCHPS Banquet	

Day III. Wednesday, May 30/Jour III. Mercredi, 30 Mai

<p>9:00–10:30</p> <p>Session/Séance III.1A Physic 107 Conceptions of Space and Infinity Chair/Président: María Ponte Azcárate</p> <p>9:00–9:30 Brett Coppenger (Western Michigan) <i>The Notion of the Void in the History of Science</i></p> <p>9:30–10:00 Eran Tal (Toronto) <i>Kant and the Problem of Continuous Space-Perception</i></p> <p>10:00-10 :30 Lawrence Deck (Montréal) <i>Greek Antecedents of Hegel’s Doctrine of the Mathematical Infinite</i></p>	<p>Session/Séance III.1</p> <p>Session/Séance III.1B Physic 130 Challenging the Hierarchy of Evidence in Evidence-Based Medicine Chair/Président: Gord Binsted</p> <p>9:00–9:30 Robyn Bluhm (Western Ontario) <i>The Hierarchy of Evidence and Biomedical Research</i></p> <p>9:30–10:00 Kirstin Borgerson (Toronto) <i>The Value(s) of Objectivity in Evidence-based Medicine</i></p> <p>10:00-10 :30 Maya Goldenberg (Toronto) <i>Iconoclast or Creed? Objectivism, Pragmatism and Evidence-Based Medicine’s Hierarchy of Evidence</i></p>	
<p>10:45-12:15</p> <p>Session/Séance III.2A Physic 107 Problems in the Philosophy of Biology Chair/Président: Howard Hsueh-Hao Chiang</p> <p>10:45–11:15 Frédéric Bouchard (Montréal) <i>Termites, symbiosis and the necessity for causal explanations in evolutionary biology</i></p> <p>11:15–11:45 Rachel Bryant (Toronto) <i>"Invasive" species and the diversity-stability hypothesis</i></p> <p>11:45-12:15 Eric Desjardins (British Columbia) <i>Historicity and Irreversibility in Biology</i></p>	<p>Session/Séance III.2</p> <p>Session/Séance III.2B Physic 130 Bodies in Space: Measurement and Prediction Chair/Président: Ryan Samaroo</p> <p>10:45–11:15 Josipa G Petrunic (Edinburgh) <i>Continuity and the ether: William Kingdon Clifford (1845-1879) and the measurement of space in the 1860s</i></p> <p>11:15–11:45 Allan Olley (Toronto) <i>"In the most accurate way and by the shortest path." E. W. Brown and calculating machines</i></p> <p>11:45-12:15 Ben Almassi (Washington) <i>Trust in Expert Testimony: Arthur Eddington’s 1919 Eclipse Expedition and the British Response to General Relativity</i></p>	

<p>12:30–14:30</p>	<p>Lunch & Annual General Meeting / Dîner & Assemblée Générale Annuelle Physics 107</p>	
<p>15:00-17:00</p>	<p>Stillman Drake Lecture / Conférence Stillman Drake Physics 107</p> <p>Chair/Président : Gordon McOuat (King's)</p> <p>David Kaiser Program in Science, Technology, & Society and Department of Physics, Massachusetts Institute of Technology</p> <p><i>Toil, Trouble, and the Cold War Bubble: Physics and the Academy since World War II</i></p>	<p>Presented by THE CANADIAN LIGHT SOURCE CSHPS</p>
<p>17:00-19:00</p>	<p>Department of Philosophy Reception PCS Atrium, Commerce Building All members of CSHPS welcome!</p>	