

# Full Program

## Thursday - 23 June (Parallel Session I)

Parallel Session I (9:00-10:30)

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### 1.1 Symposium: Post-Aristotelian Science in the Fourteenth Century (HHH 25)

**Session Chair: Andrei Marasoiu (University of Virginia)**

*Petrus Thomae and Early Scotist Theories of Analogy*

- Garrett R. Smith (University of Notre Dame)

*Toward a Conception of Force: Peter Auriol's Critique of the Aristotelian View that Action is Motion*

- Gloria Frost (University of St. Thomas)

*Nicholas Bonetus' Doctrines of Natural and Mathematical Space and Time*

- William O. Duba (Radboud Universiteit Nijmegen)

### 1.2 Contributed Papers: Life Sciences (HHH 35)

**Session Chair: Thomas Bunce (Durham University)**

*Ethology as a Goethian Science: Method, Intuition, and the Science of Life*

- Shane Zappettini (Indiana University)

*Monkeys and Monads: The Unexpected Marriage between Darwinian Evolutionary Theory and Leibnizian Metaphysics*

- Jeremy Dunham (University of Sheffield)

### 1.3 Contributed Papers: Early Modern Perception and Reference (HHH 15)

**Session Chair: Patrick Connolly (Iowa State University)**

*Perception by Patterning: Cavendish against Hobbes on Perception*

- Marcus Adams (State University of New York, Albany)

*Perception as a Two-Stage Process: A Reidean Account*

- Marina Folescu (University of Missouri)

*Common Sensibles and Molyneux's Problem*

- Andrei Marasoiu (University of Virginia)

## Thursday - 23 June (Parallel Session II)

Parallel Session II (11:00-12:30)

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### 2.1 Symposium: After Newton and Leibniz: Kantian Foundations for Early Classical Physics (HHH 25)

Session Chair: Bennett McNulty (University of Central Arkansas)

*Reconciling Leibniz and Newton: Kant and du Châtelet*

- Katherine Dunlop (University of Texas, Austin)

*Continuity of Change in Kant's Dynamics*

- Bennett McNulty (University of Central Arkansas)

*Absolute Time from Kant's Metaphysics*

- Marius Stan (Boston College)

### 2.2 Symposium: What Drives Philosophical Progress? (HHH 35)

Session Chair: Adrian Currie (University of Calgary)

*Epistemology, Methodology and Philosophical Progress*

- Kirsten Walsh (University of Bucharest)

*Modernity and the History of Philosophy (1613-1779)*

- Kenneth Pearce (Valparaiso University)

*Progress, the Microscope, and Utopia in Margaret Cavendish*

- Michael Deckard (Lenoir-Rhyne University & University of Bucharest)

### 2.3 Contributed Papers: History and Laws in Hempel and Kuhn (HHH 15)

Session Chair: Thomas Uebel (University of Manchester)

*HOPOA: Hempel's Impacts on Archaeological Theory and Practice*

- William Krieger (University of Rhode Island)

*Historicizing Historical Explanation: the Origins of Hempel's Covering Law Model*

- Fons Dewulf (Ghent University)

*The Search for Kuhn-loss: A New Strategy for HPS*

- Jamie Shaw (Western University)

### 2.4 Contributed Papers: Chaos, Geometry, and Objectivity (HHH 20)

Session Chair: Michael Cuffaro (LMU München)

*Chaos Regained: On the Possibility of a New Era of Orbital Dynamics*

- Isaac Wilhelm (Rutgers University)

*Impurity of Methods: Finite Geometry in the Early Twentieth Century*

- Douglas Marshall (Carleton College)

*Redrawing Mathematical Objectivity: Jean Cavailles and Gilles-Gaston Granger; From the Philosophy of the Concept to a Philosophy of Style*

- Jean-Paul Cauvin (University of Pennsylvania)

## Thursday - 23 June (Parallel Session III)

Parallel Session III (14:00-16:00)

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### 3.1 Contributed Papers: Newton (HHH 25)

Session Chair: Ed Slowik (Winona State University)

*What Newton Meant by 'True and Absolute Motion'*

- Robert Rynasiewicz (Johns Hopkins University)

*The Newtonian Equivalence Principle: How Issac Newton's Discovery of the Relativity of Acceleration Led Him to Discover the Equivalence of Inertial and Gravitational Mass*

- Craig Fox (Western University)

*Newtonian Idealizations*

- Monica Solomon (University of Notre Dame)

*The Parallelogram Rule from Pseudo-Aristotle to Newton*

- David Miller (Iowa State University)

### 3.2 Symposium: Hylomorphism and Extension in Late Medieval and Early Modern Natural Philosophy (HHH 15)

Session Chair: Helen Hattab (University of Houston)

*The New Conception of Material Substance in the Fourteenth Century*

- Henrik Lagerlund (Western University)

*John Buridan on the (Meta)Physics of Extension*

- Francesca Bruno (Cornell University)

*Crathorn on Extension*

- Magali Roques (University of Geneva)

*Matter, Quantity and Extension in Gorlaeus and Descartes*

- Helen Hattab (University of Houston)

### 3.3 Mid-Twentieth-Century Philosophy of Science (HHH 35)

Session Chair: Peter Olen (Lake Sumter State College)

*Defining the Field: Early Venues for the Philosophy of Science*

- David Stump (University of San Francisco)

*Churchman and Philosophers, or Some of the Average-Sized Mortals who Founded Mid-20th-Century American Philosophy of Science*

- Alan Richardson (University of British Columbia)

*The Philosophy of Science in the Habermas-Luhmann Debates, 1971-1998*

- Gregory Moynahan (Bard College)

*Ordinary Language Philosophy & Mid-20th Century Philosophy of Science*

- Paul Franco (University of Washington)

### 3.4 Revolutionary HOPOS (HHH 20)

Session Chair: Christian Damböck (Institute Vienna Circle)

*Of Ballungen and Anarchism: The Influence of Otto Neurath on Paul Feyerabend*

- William Wilson (Virginia Tech)

*Flippant Anarchism: Feyerabend and the Student Movement*

- Matteo Collodel (MIUR)

*Scientific Philosophy in the Schlick Zirkel*

- Thomas Oberdan (Clemson University)

## Thursday - 23 June (Plenary Session I)

Plenary Session I (16:30-18:00): HHH Auditorium

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*Karine Chemla (ERC Project SAW & SPHERE, CNRS, and Université Paris Diderot)*

### Generality as a Value in Various Epistemological Cultures

The talk will put forward theses with respect to generality on the basis of two key examples. One, taken from the mathematical corpus that has come down to us from ancient China, will give us the opportunity to examine different practices of generality with respect to numbers and operations. This example also raises the theoretical problem of analyzing how actors understood and practiced generality, when generality can mainly (but not only) be grasped through its effects on the mathematical knowledge presented in a certain number of writings. The second example will take us to the 19th century in Europe, and will allow us to examine how actors understood and practiced generality in geometry. These examples will illustrate how we can gain a much more detailed understanding of the meanings and values actors attached to generality in scientific practice, if we focus on epistemological cultures, in a sense that will be discussed. The local approach to generality I advocate will also allow us to show how actors' philosophical work on generality in a specific mathematical context was read as such and adopted in another mathematical context, where it allowed practitioners to achieve major new scientific developments. Finally, in the two examples examined, generality will appear as an element in a set of epistemological values. We will outline how actors appear to have understood the relationships between these various values and also the structure of these sets of values.



## Friday - 24 June (Plenary Session IV)

Parallel Session IV (9:00-10:30)

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### 4.1 Symposium: From Powers to Forces: The Difficult Legacy of Aristotelianism in Early Modern Natural Philosophy (HHH 25)

**Session Chair:** Jennifer McKittrick (University of Nebraska at Lincoln)

*Two Aristotelian Responses to Mechanization: Kenelm Digby and John Sergeant on Substantial Forms*

- Han Thomas Adriaenssen (University of Groningen)

*Maupertuis and the Leibnizian Living Force*

- Christian Leduc (Université de Montréal)

*Sine qua non Causation: Kant and the Legacy of a Scholastic and Early Modern Debate*

- Andrea Sangiacomo (University of Groningen)

### 4.2 Symposium: Fourteenth-Century Theories of Logical Consequence (HHH 35)

**Session Chair:** Wilfried Sieg (Carnegie Mellon University)

*Ockham and Buridan on the Distinction between Formal and Material Consequences*

- Milo Crimi (UCLA)

*Consequence and Formality in the Logic of Walter Burley*

- Jacob Archambault (Fordham University)

### 4.3 Contributed Papers: Models and Representation (HHH 15)

**Session Chair:** Jordi Cat (Indiana University, Bloomington)

*Disciplining Little Models: Epistemology and Scale Models from the 17th Century to the Present*

- Susan Sterrett (Wichita State University)

*On the Analogy between Scientific Models and Maps: Insights from Medieval Cartography and Post-Representational Cartographic Epistemology*

- Guilherme S. Oliveira (University of Cincinnati)

### 4.4 Symposium: Nature and Life in Classical German Philosophy (HHH 20)

**Session Chair:** Liesbet De Kock (Vrije Universiteit Brussel)

*A Material Correlate of the Transcendental Unity of Apperception: Reconciling Nature and Consciousness in the Opus postumum*

- Michael Olson (Macquarie University)

*Schelling's Freiheitschrift and the Inevitability of Teleological Reason*

- Ashley Vaught (Independent Scholar)

*The Logic of Life and the Life of Logic: Hegel on the Continuity between the Organic and the Spiritual*

- Raoni Padui (St John's College, Santa Fe)

## Friday - 24 June (Parallel Session V)

Parallel Session V (11:00-12:30)

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### 5.1 Symposium: Dedekind's Mathematical Structuralism: 100 Years Later (HHH 20)

Session Chair: Alan Richardson (University of British Columbia)

*Steht es alles schon bei Dedekind? Dedekind's place in the history of structuralism*

- José Ferreirós (Universidad de Sevilla)

*Dedekind's structuralism: Creating concepts and deriving theorems*

- Rebecca Morris (Carnegie Mellon University) and Wilfried Sieg (Carnegie Mellon University)

*On Reconstructing Dedekind Abstraction Logically*

- Erich Reck (University of California, Riverside)

### 5.2 Contributed Papers: Aristotle, Harvey, and Cavendish (HHH 15)

Session Chair: Isaac Wilhelm (Rutgers University)

*The Oriel Noetics, Aristotle, and Newton*

- Joseph Milburn (University of Pittsburgh)

*William Harvey and Margaret Cavendish on the Generation of Animals: Materialist and Aristotelian Models of Explanation*

- Benjamin Goldberg (University of South Florida)

*Cavendish on Accidents: Identification and Reduction Strategies*

- Jonathan Shaheen (Ghent University)

### 5.3 Contributed Papers: Language and Imagination: Hobbes, Kant, Berkeley (HHH 25)

Session Chair: Domenica Romagni (Princeton University)

*Language, Memory and Universality in Hobbesian Scientia*

- Peter Distelzweig (University of St. Thomas)

*The Category-Theoretic Space of Kant's Imagination*

- Susan V. H. Castro (Wichita State University)

*Berkeley's Theory of Quasi-Entities*

- Kenneth Pearce (Valparaiso University)

### 5.4 Contributed Papers: Reichenbach and Philosophy of Science (HHH 35)

Session Chair: Kirsten Walsh (University of Bucharest)

*Reichenbach vs. Russell: the Metaphysics of Induction*

- Michael Shaffer (St. Cloud State University)

*From Peirce's Abduction to Lipton's Inference to the Best Explanation: How Two Historical Developments Fill the Gap*

- Mousa Mohammadian (University of Notre Dame)

*The Reichenbach-Einstein Debate on the Geometrization of the Electromagnetic Field*

- Marco Giovanelli (Universität Tübingen)

## Friday - 24 June (Parallel Session VI)

Parallel Session VI (14:00-16:00)

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### 6.1 Symposium: The Causal Powers Debate: Historical and Conceptual Perspectives (HHH 25)

Session Chair: Elise Frketich (KU Leuven)

*Aristotelian Powers and the Rise of Mechanism*

- Henrik Lagerlund (University of Western Ontario)

*Occasionalism and the Critique of Causal Powers: A Cautionary Tale*

- Benjamin Hill (University of Western Ontario)

*Resurgent Powers*

- Jennifer McKittrick (University of Nebraska, Lincoln)

### 6.2 Symposium: Carnap and Quine on the Analytic/Synthetic Distinction (HHH 15)

Session Chair: Greg Frost-Arnold (Hobart and William Smith Colleges)

*Carnap, Quine, Analyticity and the Foundations of Mathematics*

- Gregory Lavers (Concordia University)

*The Evolution of Quine's Revisability Thesis vs. Carnap*

- Yousuf Hasan (University of Western Ontario)

*What Are the Prospects for Analyticity?*

- Richard Creath (Arizona State University)

### 6.3 Contributed Papers: Neo-Kantianism (HHH 35)

Session Chair: Nathan Sasser (University of South Carolina)

*Cassirer, Kaila, and Helsinki Realism*

- Matthias Neuber (University of Tübingen)

*Cassirer on the Teleology of Mathematics and Science*

- Samantha Matherne (University of California, Santa Cruz)

*The Origins of Hermann Cohen's Logic of Pure Knowledge*

- Scott Edgar (St. Mary's University)

*(Neo-)Kantian Frameworks for the Foundations of Quantum Mechanics*

- Michael Cuffaro (LMU München)

## Friday - 24 June (Parallel Session VII)

Parallel Session VII (16:30-18:00)

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### 7.1 Contributed Papers: Philosophy of Mathematics (HHH 35)

Session Chair: Erich Reck (University of California, Riverside)

*19th century roots of Suppes' semantic conception*

- Wilfried Sieg (Carnegie Mellon University) and Aeyaz Kayani (Carnegie Mellon University)

*The Ontogeny of Quine's Ontology: Nominalism, Pythagoreanism, Platonism*

- Greg Frost-Arnold (Hobart and William Smith Colleges)

*Frege's Begriffsschrift notation: Design Principles and Trade-offs*

- Dirk Schlimm (McGill University)

### 7.2 Contributed Papers: Measurement and Realism (HHH 15)

Session Chair: Robert Rynasiewicz (Johns Hopkins University)

*Rethinking Duhem's Antirealism*

- Meghan Page (Loyola University Maryland)

*The Structure and Epistemic Import of Empirical Multiple Determination: The Case of Jean Perrin*

- Klodian Coko (Indiana University)

*Poincaré and Renouvier on Conventions in the Sciences: A Comparison*

- Warren Schmaus (Illinois Institute of Technology)

### 7.3 Contributed Papers: Descartes and Gassendi (HHH 20)

Session Chair: Magali Roques (University of Geneva)

*The Scientific Basis of Cartesian Sensory Skepticism*

- Anthony Crifasi (Benedictine College)

*Descartes's Non-functional, Quasi-substantive Vitalism*

- Barnaby Hutchins (Bar-Ilan University)

*Gassendi's Two Geometries*

- Delphine Bellis (Radboud University Nijmegen)

### 7.4 Contributed Papers: Causation and Laws of Nature (HHH 25)

Session Chair: Don Howard (University of Notre Dame)

*Intimate Connections: Wigner's Views on Symmetries and Conservation Laws*

- Pablo Ruiz de Olano (University of Notre Dame)

*Max Born's Philosophy of Causation*

- Thomas Bunce (Durham University)

*John Dewey on Causation and Laws of Nature*

- Matthew J. Brown (University of Texas, Dallas)



## Saturday - 25 June (Parallel Session VIII)

Parallel Session VIII (9:00-10:30)

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### 8.1 Contributed Papers: Psychology (HHH 15)

**Session Chair:** Alexander Klein (Cal State Long Beach)

*James on Instincts and Motivation*

- Kyle Bromhall (Independent Scholar)

*Fichte's Articulated Body as a Tertium Quid between Idealism and Early Psychophysiology: A Study of the Principle of Apperception in Fichte and Wundt*

- Liesbet De Kock (Vrije Universiteit Brussel)

*Behaviorism, Rationalism, and Explanation*

- Peter Olen (Lake Sumter State College)

### 8.2 Contributed Papers: Mathematics and Method from the 16th to the 18th Centuries (HHH 25)

**Session Chair:** Delphine Bellis (Radboud University Nijmegen)

*Giordano Bruno's Geometrical Atomism and 16th Century Mathematics*

- Paolo Rossini (Scuola Normale Superiore di Pisa)

*Explanatory Virtues in the 17th Century: Kepler and Mersenne's Competing Theories of Musical Consonance*

- Domenica Romagni (Princeton University)

*'s Gravesande's Empirical Concept of Laws of Nature and its Origins in Natural Law Theories*

- Jip Van Besouw (Vrije Universiteit Brussel)

### 8.3 Contributed Papers: Victorian HOPOS (HHH 35)

**Session Chair:** Marina Folescu (University of Missouri)

*'Numerical Syllogism,' Probabilities, and Actuarial Science: Augustus De Morgan's Contribution to Victorian Logic*

- Anna-Sophie Heinemann (Universität Paderborn)

*Herschel and Whewell on Residual Phenomena*

- Teru Miyake (Nanyang Technological University)

*The 'Two Aspects' Theory: Some Controversies over Neutral Monism and Pragmatism in Late Victorian & Edwardian Mental Philosophy*

- Thomas Staley (Virginia Tech)

## Saturday - 25 June (Parallel Session IX)

Parallel Session IX (11:00-12:30)

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### 9.1 Symposium: Naturalistic Accounts of the Mind, 1850-1900 (HHH 25)

Session Chair: Jonathan Tsou (Iowa State University)

*The Curious Case of the Decapitated Frog*

- Alexander Klein (Cal State Long Beach)

*'The Ordinary Cock-sure Evolutionist': Pragmatism, Naturalism, Adaptationism*

- Trevor Pearce (University of North Carolina, Charlotte)

*Vera Causa Reasoning in the Debate Over Human Uniqueness*

- Hayley Clatterbuck (University of Rochester)

### 9.2 Symposium: Scientific Explanation in Early Modern Europe (HHH 20)

Session Chair: Katherine Brading (University of Notre Dame)

*Naturalistic Explanation as Epistemological Firebreak for Hume and Boyle*

- Richard Fry (Southern Illinois University, Edwardsville) and James Mattingly (Georgetown University)

*Cartesian Cryptography and Norms of Scientific Explanation*

- Dana Matthiessen (University of Pittsburgh)

*Metaphysics and Explanation in Richard Bentley's Boyle Lectures*

- Patrick Connolly (Iowa State University)

### 9.3 Contributed Papers: History of Philosophy of Biology (HHH 15)

Session Chair: Samantha Matherne (University of California, Santa Cruz)

*Joseph Needham's Contributions to the Development of the Levels Concept in Biology (1929-1945)*

- Daniel Brooks (Konrad Lorenz Institute for Evolution and Cognition)

*The Operon Model and Scientific Explanation*

- Melinda Fagan (University of Utah)

*The Use of Karl Popper in Ecology*

- William Bausman (University of Minnesota)

### 9.4 Contributed Papers: Carnap, Explication, and Frameworks (HHH 35)

Session Chair: Gregory Lavers (Concordia University)

*Reconsidering Friedman's Neo-Kantian Reading of the Early Carnap*

- Nathan Sasser (University of South Carolina)

*Moving Beyond Antiquarianism: Explication and the Future of Philosophy of Science*

- Christopher French (University of British Columbia)

*Hilbert's Axiomatic Method and Carnap's General Axiomatics*

- Michael Stoeltzner (University of South Carolina)

## Saturday - 25 June (Parallel Session X)

Parallel Session X (14:00-16:00)

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### 10.1 Symposium: The Natural and the Normative at 25: Psychology, Perception, and Measurement in Kant and Helmholtz (HHH 35)

Session Chair: Scott Edgar (St. Mary's University)

*Empirical and Transcendental Psychology*

- Corey Dyck (Western Ontario)

*The Natural and the Normative Reconciled: Helmholtz's Theory of Measurement*

- Francesca Biagioli (Universität Konstanz)

*Helmholtz on Sensory Complexity*

- Lydia Patton (Virginia Tech)

*The Natural and the Normative and The Facts in Perception: Two Works Revisited*

- Gary Hatfield (University of Pennsylvania)

### 10.2 Symposium: Logical Empiricism and the German Youth Movement (HHH 15)

Session Chair: Michael Stoeltzner (University of South Carolina)

*'Pacifist, Anti-militarist, Anti-monarchist, perhaps also Socialist': Carnap (and other Prominent Members of the German Youth-Movement) facing World War I*

- Hans-Joachim Dahms (Institute Vienna Circle)

*Carnap, Reichenbach, Freyer. The Social Adaptiveness of Values, in the Context of Logical Empiricism and the German Youth Movement*

- Christian Damböck (Institute Vienna Circle)

*Rudolf Carnap and the Erlangen Conference (1923)*

- Christoph Limbeck-Lilienau (Institute Vienna Circle)

*Carnap's Turn to Philosophy of Science from the Perspective of his Diaries, Reading Lists and Personal Letters*

- Lois Marie Rendl (Institute Vienna Circle)

### 10.3 Contributed Papers: Ancient HOPOS (HHH 20)

Session Chair: Benjamin Goldberg (University of South Florida)

*Galen on Analytical Method in On the Diagnosis and Cure of the Soul's Errors*

- Donald Morrison (Rice University)

*Aristotle on the Domain Specificity of Scientific Inquiry*

- James Lennox (University of Pittsburgh)

*A Sliding Scale of Experiment-Kinds in Ancient Greek Science*

- Paul Keyser (Google, Inc. - Chicago)

*Aristotle, Pluralism, and the Essentialism Story*

- Justin Bzovy (Western University)

## 10.4 Contributed Papers: Mathematics and Method in the 18th Century (HHH 25)

Session Chair: Janet Folina (Macalester College)

*Émilie du Châtelet on the Fundamentality of Change*

- Aaron Wells (University of Notre Dame)

*Émilie Du Châtelet on Scientific Methodology*

- Katherine Brading (University of Notre Dame)

*Wolff and Kant on the Mathematical Method*

- Elise Frketich (KU Leuven)

*Epistemological and Methodological Ramifications of the New Mathematical Approach in Eighteenth Century Mechanics*

- Yannick Van den Abbeel (Vrije Universiteit Brussel)

## Saturday - 25 June (Plenary Session II)

Plenary Session II (16:30-18:00): HHH Auditorium

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*Thomas Uebel (University of Manchester)*

### Philosophy of History and History of Philosophy of Science

Philosophy of history and history of philosophy of science make for an interesting case of “mutual containment”: the former is an object of inquiry for the latter and the latter is subject to the demands of the former. This talk will discuss a past seminal turn in philosophy of history with an eye to the practice of historians of philosophy of science. The narrative turn by Danto and Mink represents both a liberation for historians and a new challenge to the objectivity of their findings. I will claim that good sense can be made of “working historical veins of possibility” (contrary to how the phrase was originally intended) and that already Danto and Mink provided materials (though they did not quite deploy them this way) to assuage fears of a reconstructionist free-for-all.

