



14TH CONGRESS OF LOGIC,
METHODOLOGY
AND PHILOSOPHY OF SCIENCE
NANCY, 2011

Scientific Program

(June 17th, 2011)

Table of Contents

Plenary lectures and special sessions	2
International Union of History and Philosophy of Science JOINT COMMISSION SYMPOSIUM	5
Section A1 – Mathematical Logic	7
Section A2 – Philosophical Logic	9
Section A3 – Logic and Computation	14
Section B1 – Methodology and Scientific Reasoning	15
Section B2 – Ethical Issues in the Philosophy of Science	22
Section B3 – Historical Aspects in the Philosophy of Science	23
Section C1 – Methodological and Philosophical Issues of Logic, Mathematics and Computer Science	27
Section C2 – Methodological and Philosophical Issues of Cognitive Science including Linguistics and Psychology	30
Section C3 – Methodological and Philosophical Issues of Biology	32
Section C4 – Methodological and Philosophical Issues of Chemistry	34
Section C5 – Methodological and Philosophical Issues of Physics	35
Section C6 – Methodological and Philosophical Issues of Medicine	38
Section C7 – Methodological and Philosophical Issues of Environmental Sciences	39
Section C8 – Methodological and Philosophical Issues of economics and Social Sciences	40
Section D – Methodological and Philosophical Issues in Technology	42
Affiliated Program	44
Public Program	45
Program Overview	46

Plenary lectures and special sessions

TUESDAY 19

2:00 PM – 5:00 PM

Congress Opening Ceremony

Opening plenary lecture:

Wilfrid Hodges, *DLMPS - Tarski's vision and ours*

WEDNESDAY 20

4:35 PM – 7:05 PM

Special Symposium

What is an Algorithm?

Chair: Helmut Schwichtenberg

Nachum Dershowitz, *What is an effective algorithm?*

Yuri Gurevich, *What's an algorithm?*

Yiannis Moschovakis, *t.b.a.*

THURSDAY 21

8:30 AM – 10:00 AM

Plenary lecture:

Huw Price, *Retrocausality – what would it take?*

Chair: Maria Carla Galavotti

2:15 PM – 7:05 PM

Special Symposium

Quantum Information - conceptual issues and new technological developments

Chair: Dennis Dieks

Hans Briegel, *Simulation, computation, and physics -- What can learn about the world?*

Jeffrey Bub, *Einstein and Bohr Meet Alice and Bob*

Robert Spekkens, *The invasion of physics by information theory*

Marek Zukowski, *Bell's Theorem and EPR correlations: the issue, the triumph of the scientific method, misinterpretations, and practical applications*

FRIDAY 22

8:30 AM – 10:00 AM

European Philosophy of Science Association Plenary lecture:

Philippe Mongin, *What the Decision Theorist Could Tell the Bayesian Philosopher*

Chair: Friedrich Stadler

10:30 AM – 1:00 PM

Special Symposium

Mathematics and the New Technologies

Chair: Benedikt Löwe

Jean-Paul van Bendegem, *Mathematics in the Cloud: the Web of Proofs*

Peter Koepke, *Formal Mathematics and Mathematical Practice*

Martina Merz, *The Internet: New Technology in Old Bottles?*

4:35 PM – 7:05 PM

Special Symposium

Evolutionary models in epistemology and philosophy of science:

Chair: t.b.a.

Hannes Leitgeb, *Probabilities, Conditionals, Laws*

Brian Skyrms, *Evolution of Signaling*

Peter Vanderschraaf, *t.b.a.*

SATURDAY 23

8:30 AM – 10:00 AM

Plenary lecture:

Marco de Baar, *Engineering technical artefacts and scientific instruments*

Chair: Anthonie Meijers

MONDAY 25

8:30 AM – 10:00 AM

Plenary lecture:

Jeremy Gray, *“The soul of the fact”: Poincaré and proof*

Chair: Gerhard Heinzmann

4:35 PM – 7:05 PM

Special Symposium

General Proof Theory

Chair: Kosta Došen

Dag Prawitz, *Is there a general concept of proof?*

Philip Scott, *Remarks on Recent Categorical Proof Theory*

William Lawvere, *Proof Theory and Presentation of Algebras*

TUESDAY 26

8:30 AM – 10:00 AM

Plenary lecture:

Saul Kripke, *t.b.a.*

Chair: Peter Schroeder-Heister

5:30 PM – 6:30 PM

Closing Ceremony

International Union of History and Philosophy of Science JOINT COMMISSION SYMPOSIUM

“Development of Cognition in Technology and Technosciences”

THURSDAY 21

1/ Understanding through making

ON SYNTHETIC BIOLOGY

10:15 AM – 11:15 AM

Joachim Schummer, *From Synthetic Chemistry to Synthetic Biology: The Revival of the Verum Factum Principle*

11:15 AM – 12:15 PM

Bernadette Bensaude-Vincent, *Synthetic Biology: the Construction of a Discipline with Interdisciplinary Contents*

12:15 PM – 12:30 PM

Break

GENERAL EPISTEMOLOGICAL CONSIDERATIONS

12:30 PM – 1:30 PM

Armin Grunwald, *Nano: the End of the Selfunderstanding of the Classical Natural Sciences*

1:30 PM – 3:00 PM

Break

2/ Coevolution of Technology and Society

3:00 PM – 4:30 PM

Roundtable: Responsible Development of Nanotech?

Participants: Arie Rip, Armin Grunwald, Elena Pariotti (Italy)

Facilitator: Imre Hronszky

4:30 PM – 4:45 PM

Break

4:45 PM – 5:30 PM

A. Damodaran, *Grand Narratives, Local Minds and Natural Disasters: Community Responses to Tsunami*

5:30 PM – 6:00 PM

Break

6:00 PM – 7:00 PM

Arie Rip, *How to Modulate Coevolution of Technology and Society?*

FRIDAY 22

Methodological problems

10:15 AM – 11:00 AM

Astrid Schwarz, *Realworld Simulation: a Conceptual Tool for Technoscientific Field Sciences*

11:00 AM – 11:45 AM

Gerhard Banse, *Design between Science and Art. Historical Remarks*

11:45 AM – 12:00 PM

Break

12:00 PM – 12:45 PM

Marc Pallot, *Group Cognition within Living Lab Research and Innovation, the Cycle of Experiential Knowledge*

12:45 PM – 1:30 PM

Imre Hronszky, *The Use of the Technological Paradigms Conception in History of Technology and Theoretical Economics*

1:30 PM – 2:15 PM

Closing Discussion

Section A1 – Mathematical Logic

THURSDAY 21

10:30 AM – 12:30 PM

Invited lecture: Martin Grohe, *Logic, Structure and Complexity*

Jaime Gaspar, *Copies of classical logic in intuitionistic logic*

Valery Khakhanian, *Properties of Universes in Realizability Models for Intuitionistic Set Theory and its Corollaries*

2:15 PM – 4:15 PM

Invited lecture: Justin Moore, *The Proper Forcing Axiom*

Riccardo Bruni & Peter Schuster, *Approximating Beppo Levi's Principio di Approssimazione*

Michael Arndt & Laura Tesconi, *Constructing a Proof-Tree: an Investigation on Composition of Derivations*

4:35 PM – 6:35 PM

Invited lecture: Joe Miller, *Beyond the Turing Degrees: Non-Diagonalizability and Universal Randomness*

Invited lecture: Paulo Oliva, *Gödel's functional interpretation of classical arithmetic and analysis*

FRIDAY 22

10:30 AM – 12:30 PM

Invited lecture: Simon Thomas, *Martin's Conjecture and countable Borel equivalence relations*

Newton Peron, *A Generalization of Dugundji Theorem*

Taishi Kurahashi, *On Kripke frames and arithmetical interpretations for QGL*

2:15 PM – 4:15 PM

Invited lecture: Patrick Speisegger, *Solving equations by quadratures using Model Theory*

Thomas Studer, *Dynamic Justification Logic*

Valeria de Paiva, *Lorenzen Games for Full Intuitionistic Linear Logic*

SATURDAY 23

10:30 AM – 12:30 PM

Invited lecture: Julia Knight, *Comparing classes of structures*

Sheila Veloso, Paulo Veloso & Paula Veloso, *On Piaget-like Monoids: Monoids for Logics*

Andrea Cantini & Laura Crosilla, *On constructive set theories with operations and related problems*

2:15 PM – 3:15 PM

Christian Wallmann, *Semantics for Tarskian consequence operations*

Karolina Kuzicheva & Alexander Kuzichev, *Two-level version of sequential logic: completeness and consistency aspects*

Section A2 – Philosophical Logic

TUESDAY 19

8:30 AM – 10:00 AM

Chienkuo Mi, *Truth as a Semantic Switch*

Gemma Robles, *The basic constructive logic for weak consistency in the ternary semantics with designated points*

Hartley Slater, *Quine's other way out*

10:30 AM – 12:30 PM

Alexandru-Viorel Muresan, *The Paradoxical Context of Logical Information: The Core of the Paradoxical Context of Information and Inference*

Barteld Kooi & Allard Tamminga, *Lost in Translation: the Logic of Paradox*

Karine Fradet, *Cooperation in the Prisoner's Dilemma*

José M. Méndez, Gemma Robles & Francisco Salto, *On the variable-sharing property and the axiom mingle*

THURSDAY 21

10:30 AM – 13:00 PM

Virginie Fiutek, Sujata Ghosh & Sonja Smets, *Higher-Order Belief Change in a Branching-Time Setting*

Barteld Kooi, *Information Change and First-Order Dynamic Logic*

Lorenz Demey, *Neighborhood Semantics for Dynamic Epistemic Logics*

Nicolas Clerbout, *Modal Dialogical Logic, Validity and Universal Satisfiability*

Neil Kennedy, *The Ways of Modality: On the Notion of Higher-Order Modality*

2:15 PM – 4:15 PM

Session A

Frederik Van De Putte, *Adaptive Belief Contraction*

Joke Meheus, *Adaptive Deontic Logics for Various Types of Normative Conflicts*

Christian Straßer, *An Adaptive Approach to Detachment in Conditional Logics of Normality*

Peter Verdee, *Towards non-monotonic mathematics: adaptive logic theories as a pragmatic foundation for mathematics.*

Session B

Mateusz Radzki, *Non-Fregean Logic and Ludwig Wittgenstein's Early Insight into Application of Logic*

Ioan Scheau, *The Errors of Bertrand Russell*

Paola Cantu, *Peano and Gödel*

4:35 PM – 7:05 PM

Symposium (Org: Marie Duži, Bjørn Jespersen & Pavel Materna), *Hyperintension, intension, extension*

- Roussanka Loukanova, *Algorithmic Intensionality and Underspecification of Verb-Phrase Ellipsis*
- Marie Duži, *Towards an extensional calculus of hyperintensions*
- Jens Christian Bjerring, *Non-Ideal Epistemic Spaces*
- Bjørn Jespersen, *Proposition, procedure, predication*
- Sebastian Sequoiah-Grayson, *Logical Hyperintensionality: From Consequences to Actions*

FRIDAY 22

10:30 AM – 12:30 PM

Invited lecture: Dag Westerståhl, *The importance of compositionality*

Iancu Lucica, *Logic of Paraconsistent Concepts*

Can Baskent, *Homotopies in Classical and Paraconsistent Modal Logics*

2:15 PM – 4:15 PM

Session A

Wen-fang Wang, *Against Classical Dialetheism*

Vladimir Popov & Vasilyi Shangin, *In the Vicinity of Sette Logic*

Mathieu Vidal, *For A Popperian Theory Of Conditionals*

Xunwei Zhou, *Material implication v. mutually inverse implication*

Session B

Albert J. J. Anglberger, *An Axiomatization of Paul Weingartner's 6-valued Deontic Logic and a Result Concerning its Possible Extensions*

Paul Weingartner, *Decidable Many-Valued Logic for the Application in Empirical Sciences*

Rafael Beneyto Torres & Jose Martinez Fernandez, *On some natural four-valued generalizations of Kleene logic*

Fabien Schang, *Logic as consequence in opposition*

4:35 PM – 7:05 PM

Symposium (Org: Alberto Naibo, Mattia Petrolo & Thomas Seiller), *The Meaning of Axioms: From Mathematics to Logic*

- Denis Bonnay, *Extending theories: Why and how ontology matters*
- Gilles Dowek, *The impact of Automated theorem proving on Proof theory*
- Alexandre Miquel, *Krivine's theory of classical realizability: A genuine alternative to the Brouwer-Heyting-Kolmogorov interpretation of proofs*
- Alberto Naibo, Paolo Maffezioli & Sara Negri, *Fitch's paradox in the light of structural proof theory*
- Mattia Petrolo & Thomas Seiller, *On the meaning of logical axioms*
- Samuel Tronçon, *The social meaning of axioms*

SATURDAY 23

10:30 AM – 12:30 PM

Symposium (Org: Luca Tranchini), *Proof Theory, Meaning and Paradoxes*

- Ole Hjortland, *Proof-theoretic semantics in the substructural era*
- Julien Murzi, *Validity and the Unprovability of Consistency*
- Luca Tranchini, *Proof-theoretic semantics, paradoxes and Dummett's fundamental assumption*

Hsin mei Lin, *Is the sensitive principle or the safety principle enough?*

2:15 PM – 4:15 PM

Session A

Thomas Piecha & Wagner de Campos Sanz, *Constructive Semantics and Classical Logic*

Bartosz Wieckowski, *Lorenzen Dialogues and Sequent Calculus: Equivalence, Correspondence, and Cut*

Roberto Ciuni & Andreas Pietz, *Which Constructive Negation for Falsificationism?*

Wagner de Campos Sanz & Thomas Piecha, *The BHK interpretation and extensions of NJ*

Session B

Stephen Read, *Proof-Theoretic Validity*

Diderik Batens, *The Consistency of Peano Arithmetic: Why Bother?*

Werner Stelzner, *Semantic foundations for the logic of assent*

Michael Arndt, *Localising Logical Rules in the Sequent Calculus*

4:35 PM – 7:05 PM

Symposium (org: Shahid Rahman), *New directions in dialogical logics*

- Matthieu Fontaine, *Weak Impermeabilism for Fictionality in a Dialogical Framework*
- Sébastien Magnier & Tiago de Lima, *Completeness on dialogues and dynamic epistemic logic*
- Mathieu Marion, *Game Semantics and the Manifestation Thesis*
- Shahid Rahman, *Conditional Right and Public Announcement, which kind of dynamic?*
- John Woods, *Advice on the Logic of Argument*

MONDAY 25**10:30 AM – 12:00 PM****Session A**Corina Strößner, *A Quantitative Logic of Normality*Joseph Vidal-Rosset, *Which Core Logic?*John Kearns, *Why Blame Aristotle? Rational Coherence and the Principle of Contradiction***Session B**Michel Paquette, *Illocutionary Logic and Social Interaction: Speech acts and the conversational record.*Carlos Areces, Patrick Blackburn, Antonia Huertas & Maria Manzano, *The Bird of the Hybrid Type Theory*Aleksandra Samonek, *Translation invariance as a criterion of likeness. An analysis of hybrid versimilitude theories***2:15 PM – 4:15 PM****Session A**Julio Arriaga Romero, *Skeptical doubt, the common doubt and the contextualism of Keith De Rose*Masashi Kasaki & Gillman Payette, *The Many Dimensions of Contextualism in Epistemology*Viacheslav Lyashov, *Explication as specific method of philosophical research*Konstantin Skripnik, *Logic as an art and logic as a science: is it only precedents or tradition?***Session B**Fabrice Pataut, *Strong Antirealism, Logical Rules and Structural Rules*Sven Ove Hansson, *Representing a finite mind*Matthias Unterhuber, *The Ramsey Test and Chellas-Segerberg Semantics*Tsai Wen Yu, *The Swamping Problem***4:35 PM – 7:05 PM****Invited Symposium****General Proof Theory****Chair: Kosta Došen****Dag Prawitz, *Is there a general concept of proof?*****Philip Scott, *Remarks on Recent Categorical Proof Theory*****William Lawvere, *Proof Theory as Presentations of Algebras***

TUESDAY 26

10:30 AM – 12:30 PM

Session A

Johannes Czermak & Kordula Swietorzecka, *Some Calculus of Change with S4-Necessity*

Ionel Narita, *Modal Analysis of Strict Implication*

Alberto Mario Mura, *A Partial Modal Semantics for the Adams Logic of Indicative Conditionals*

Session B

Toby Meadows, *Truth, Dependence & Supervaluation*

Tetsuji Iseda, *A statistical model of vagueness based on supervaluationism*

Viviane Durand-Guerrier, *An elementary model theoretic perspective in mathematics education*

Jui-Lin Lee, *Classical model existence and pure implicational logic*

2:15 PM – 4:15 PM

Session A

Severi Hämäri & Rafal Urbaniak, *Busting a Myth about Lesniewski and Definitions*

Hsing-chien Tsai, *Undecidability of Some Mereotopological Structures*

Boris Fyodorov, *Representation of Bolzano's content inferences with singular terms in the language of predicate logic*

Giuliano Bacigalupo, *Meinong and Husserl on Existence*

Session B

Byeong-uk Yi, *Compositionality and Translation*

Clayton Peterson, *On what grounds should we build deontic logic?*

Tjerk Gauderis, *Three Complications in modelling Abduction in Science*

Section A3 – Logic and Computation

THURSDAY 21

10:30 AM – 12:00 PM

Roy Dyckhoff, *Cut-Elimination, Substitution and Normalisation*

Michał Krynicki, Jerzy Tomasik & Konrad Zdanowski, *Logical properties of finite arithmetics*

Giuseppe Primiero, *Modal Types and their Procedural Semantics for Contextual Computing*

2:15 PM – 4:15 PM

Invited lecture: Etienne Grandjean, *How tightly close descriptive and computational complexity are: a personal view*

Invited lecture: Christof Löding, *Uniformization in automata theory*

SATURDAY 23

10:30 AM – 11:30 PM

Tor Sandqvist, *Computability Theory in Relation-Algebraic Form*

Peter Schuster, *Induction in Algebra*

2:15 PM – 3:15 PM

Invited lecture: Steve Awodey, *Homotopy Type Theory*

4:35 PM – 7:05 PM

Symposium (Org: Francesca Poggiolesi & Giuseppe Primiero), *Proof Systems at the Test of Computer Science: Foundational and Applicational Encounters*

- Agata Ciabattoni, *SAT in monadic Goedel logics: (un)decidability results and applications*
- Simon Kremer, *An Intuitionistic Foundation for Interactive Computation*
- Frank Pfenning, *Epistemic logic and computer security*
- Greg Restall, *Worlds, Times, Things and Selves — proof systems for modalities, quantifiers and indexicals*
- Lutz Strassburger, *Towards a Theory of Proofs of Classical Logic*
- Heinrich Wansing, *Encoding derivations in constructive logics*

MONDAY 25

10:30 AM – 12:30 PM

Invited lecture: Ulrich Berger, *Coinduction and program extraction in computable analysis*

Saeed Salehi, *Godel's Incompleteness Phenomenon from Computational Viewpoint*

Sam Sanders, *Computing the Infinite*

Section B1 – Methodology and Scientific Reasoning

TUESDAY 19

10:00 AM – 12:30 PM

Mieke Boon, *Why do we need Phenomena? What we can learn from the Engineering Sciences*

Erwan Lamy, *How to talk with a skeptic?*

WEDNESDAY 20

10:30 AM – 12:30 PM

Invited lecture: Hans Radder, *Does the Brain 'Initiate' Freely Willed Processes? A Critique of Libet-Type Experiments and Their Interpretation*

F.A. Muller, *On an Inconsistency in Constructive Empiricism*

Inmaculada Perdomo, *Scientific Representation: Uses and Interpretation of Models*

2:15 PM – 3:45 PM

Invited lecture: Wolfgang Spohn, *A Priori Principles of Reason*

Holger Andreas, *A Structuralist Theory of Belief Revision*

4:35 PM – 7:05 PM

Session A

Richard Dawid, *A Bayesian Model of No Alternative Arguments*

Gerhard Schurz, *Bayesian Confirmation of Creationism? On the Problem of Genuine Confirmation*

Erik P. Nyberg & Kevin B. Korb, *Conditioning and Unfaithfulness*

Wolfgang Pietsch, *The Limits of Probabilism*

Thomas Benda, *What Objective Probability Could Be*

Session B

Erez Firt, *On Emergence and Causation*

Kai-Yuan Cheng, *Dispositions, Conditionals, and Ordinary Conditions*

Christian Johann Feldbacher, *A Problem for Semantic Definitions of Analyticity*

Anna Leuschner, *Pluralism and Objectivity: On Longino's and Kitcher's Approaches*

THURSDAY 21

10:30 AM – 13:00 PM

Session A

Symposium (Org: Léna Soler), *Calibration in Scientific Practice*

- Léna Soler, Catherine Allamel-Raffin, Catherine Dufour, Jean-Luc Gangloff, Emiliano Trizio & Frédéric Wieber, *Calibration in everyday scientific practice: a conceptual framework*
- Eran Tal, *Calibration, Modeling and the International System of Units*
- Jonathan Livengood, *Tswett's Control Experiments and Mill's Method of Difference*

Jeu Jenq Yuann, *The Futility of Prescribing What Scientists Should Do: Supplementing van Fraassen's Empirical Stance with Scientific Practices*

Anna Estany, *The stabilizing role of material structure in scientific practice*

Session B

Symposium (Org: Andrei Rodin), *Integrity and Diversity of Traditions and Trends in Today's Philosophy of Science*

- Hourya Bénis-Sinaceur, *Jean Cavailles and the Philosophy of Concept*
- Elena Mamchur, *Should the Role of Epistemology in the Philosophy of Science be Reconsidered?*
- Jonathan Regier, *Representing a Relationship: The Historical and the Philosophical in the History and Philosophy of Science*
- Andrei Rodin, *Translation versus Formalization*
- Jean-Jacques Szczeciniarz, *French School and the Diversity of Traditions of Philosophy of Science*

2:15 PM – 4:15 PM

Invited lecture: Carlo Cellucci, *Philosophy of Mathematics: Making a Fresh Start*

Petros Stefanias & Ioannis M. Vandoulakis, *Proofs as spatio-temporal processes*

Fabio Sterpetti, *Towards a non-adaptationist approach to mathematics*

4:35 PM – 7:05 PM

Session A

Elliott Sober & Mike Steel, *Screening-Off (aka the Markov Property) and Causal Incompleteness – a No-Go Theorem*

Raphael Scholl, *Causal Inference, Mechanisms and the Semmelweis Case*

Uwe Scheffler & Max Urchs, *Both Billiard Ball and Butterfly?*

Alexander Gebharder, *Determining causal relevancies at event-level*

Raffaella Campaner, *Mechanistic and Neo-mechanistic Accounts of Causation: How Salmon Already Got (Much of) It Right*

Session B

Helmut Heit, *Reasons for Relativism. Feyerabend on Early Greek Thought*

Yasuo Nakayama, *Scientific Progress as Increase of Expressibility, Accuracy and Coherence*

Alberto Cordero, *Accumulation of Theory Parts and Meaning Variance*

Myhailo Marchuk, *Externalism, Internalism and the Conception of the Socio-Cognitive Potentialism*

Kevin Zollman & Erich Kummerfeld, *Conservatism in scientific research: a new problem*

FRIDAY 22**10:30 AM – 12:30 PM****Session A**

Arto Mutanen, *Interrogative model of inquiry as a logic of experiment*

Eduardo Castro, *Laws of Nature and Induction*

Joseph Brenner, *A New Logic for New Technology*

Anjan Chakravartty, *Pluralistic Ontologies for Scientific Realism*

Session B

Saray Ayala, *How can a purely cognitive philosophy of science deal with social biases? Embodied, situated and distributed cognition to the rescue!*

Fred Adams, *Extended Cognition Meets Epistemology*

Zenaida Yanes-Abreu, *Veritistic Social Epistemology. A Reliable Proposal?*

Cyrille Imbert, *Collective science: the loss of scientific understanding?*

2:15 PM – 4:15 PM**Session A**

Demetris Portides, *Scientific Representation, Denotation, and Explanatory Power*

Conor Mayo-Wilson, *Efficient Experimentation*

Molly Kao, *From Foundation to Function: Rethinking the Role of Data in Science*

Frederick Eberhardt, *Scientist vs. Nature – Priors, Strategies and Discovery*

Session B

Sandrine Darsel, *What do we learn from case studies?*

Jeff Kochan, *Reason, Emotion, and the Context Distinction*

Samir Gorsky, *The Logic of Surprise: Puzzle, Quantum Games and Information*

Simone Cheli, *Neither Between Nor Within: Selfhood and Otherness in Epistemology*

4:35 PM – 7:05 PM

Invited Symposium
Evolutionary Models in Epistemology and Philosophy of Science

Chair: t.b.a.

Hannes Leitgeb, *t.b.a.*
 Brian Skyrms, *Evolution of Signaling*
 Peter Vanderschraaf, *Changing Your Spots*

SATURDAY 23

10:30 AM – 12:00 PM

Invited lecture: Christopher Hitchcock, *Cause and Chance*

Alessandra Melas, *The Contemporary Notion of Chance and Salmon's Interactive Fork Model. An attempt to describe chance by means of some causal criterion.*

1:45 PM – 4:15 PM

Session A

Roman Roshkulets, *Metaphysical Aspects of Postpositivism*

Matteo Morganti, *Science-Based Metaphysics: On Some Recent Anti-Metaphysical Claims*

Majid Davoody Beni, *On the Ontology of Linguistic Frameworks: toward a comprehensive version of empiricism*

David McElhoses, *Difference-Making and Ontological Explanation*

Session B

Aidan Lyon, *Why Normal Distributions are Normal*

Dragos Bigu, *A similarity based model of scientific concept formation*

Xavier de Donato-Rodriguez, *Idealization, Scientific Modeling and Simulations: A New Analysis of Idealization as a Common Framework for the Study of Models and Simulations*

Ashley Graham Kennedy, *Idealization and Inference: How False Models Explain*

4:35 PM – 7:05 PM

Session A

José L. Falguera, *Identity of scientific concepts and theoretical dependence*

Ruey-Lin Chen, *A Theoretical Analogy: How is Darwin's theory of natural selection analogous to Malthus' theory of population*

Ioannis Votsis, *Simplicity as a Guide to Falsity?*

Maria Caamano, *Theory Success: Some Evaluative Clues*

Anna Ijjas, *Theory vs. Interpretation: From a Methodological Point of View*

Session B

Symposium (Org: Christopher Pincock), *The Interpretation and Scope of Models of Complex Systems*

- André Ariew, *Causation, idealization, and natural selection*
- Steven O. Kimbrough, *On Modeling Imperfect Rationality in Agent-Based Models*
- Christopher Pincock, *Mathematical Models of Biological Patterns: The Legacy of Hamilton's Selfish-Herd Model of Gregarious Behavior*
- Randall Westgren, *Metaphor and Models of Entrepreneurial Behavior*

MONDAY 25**10:30 AM – 12:30 PM****Session A**

Milena Ivanova, *Is the relativized a priori incompatible with scientific realism?*

Juha Saatsi, *Scientific Realism and Inferentially Veridical Representations*

Anna Ciaunica, *Higher- and Lower-Level Phenomena: a Nonhierarchical Approach to Fundamental Properties*

Emma Ruttkamp, *Re-positioning Realism*

Session B

Oded Balaban, *Cartography Revisited: A Key to Understanding Scientific Knowledge*

Jesús Zamora-Bonilla & Ana M. Rodríguez, *Confirmation, verisimilitude, and acceptance*

Theo Kuipers, *Refined Truth Approximation By Refined Belief Base Revision*

Ilkka Niiniluoto, *Rethinking Belief Revision by Truthlikeness*

2:15 PM – 3:45 PM

Invited lecture: Paul Humphreys, *The Differences Between Data from Simulations and Experiments*

Johannes Lenhard, *A Turn in Computational Modeling. The Case of Quantum Chemistry*

4:35 PM – 7:05 PM**Session A**

Ivan Gazeau, *Reasoning without language or logic*

Marianne Richter, *Visual Representation in the Light of Methodological Demands. A critical review of symbol theoretic attempts to operationalize scientific visualization*

Gary Fuller, *Narrative Explanations*

Rosa María Herrera, *Metaphors, the Solar System and Scientific Research*

Bertold Schweitzer, *From Malfunction to Mechanism*

Session B

Philipp W. Balsiger, *What makes an object 'epistemic'? Criteria of relevance for scientific collections and exhibitions*

Rafal Urbaniak, *Prioritize Adaptive Logics and the Epistemology of Thought Experiments in Physics*

Meinard Kuhlmann, *One Law, 23 Derivations: On the Plurality of Explanations of Planck's Law*

Richard Pettigrew, *Accuracy, Chance and the Principal Principle*

Joshua Haddock, *The Principal Principle, and Theories of Chance: An Account of Primitive Conditional Chance.*

TUESDAY 26**10:30 AM – 12:30 PM****Session A**

Matthias Egg, *Expanding Our Grasp: Can Causal Knowledge Save Realism from Stanford's New Induction?*

Paul Hoyningen-Huene, *The Ultimate Argument against Convergent Realism and Structural Realism: The Impasse Objection*

Ludwig Fahrbach, *How to defend Scientific Realism against the PMI*

Session B

Dunja Seselja, *Disambiguating the Notion of Pursuit Worthiness*

Vladimir Kuznetsov & Wolfgang Balzer, *From Philosophy of Science to Theories of Knowledge Systems*

Peeter Mürsepp, *The Aim of Science - Knowledge or Wisdom*

László Ropolyi, *Seven fundamental versions of philosophy of science*

2:15 PM – 4:15 PM**Session A**

Angelo Cei, *The Epistemic Structural Realist Program. Some Interference*

Yukinori Onishi, *The Scientific Realism Debate from the Epistemological Viewpoint*

Tobias Breidenmoser, *Theories of Axonal Transport in the Cell: Empirical Evidence against Scientific Realism*

Sreekumar Jayadevan, *Theory-Talk, Meta-Theory-Talk and Metaphysical-Talk: Intricacies and Pertinence of three Levels of Discourse in the Scientific Realism-Debate.*

Session B

Kunihisa Morita, *Pseudo-Scientific Explanation and Scientific Explanation*

Verusca Moss Simões dos Reis, *The Role of Philosophy of Science in the Understanding of "Post-Academic" Science*

Saana Jukola, *The commercialization of research - a threat to the objectivity of science?*

Anne-Sophie Godfroy, *How International Comparisons Transform Social Reality*

Berna Kilinc, *A Generalization of the Condorcet Jury Theorem*

François Lepage, *Two Impossibility results about revision of conditional probability*

Section B2 – Ethical Issues in the Philosophy of Science

WEDNESDAY 20

10:30 AM – 11:30 PM

Invited lecture: Heather Douglas, *Scientific Integrity in a Politicized World*

2:15 PM – 3:45 PM

Nicolas Lechopier, *Epistemethics : Lessons from an ethnographic study of global health research ethics concerning the articulation between research and practice*

Anna Leuschner, *Scientific Credibility in the Public Exemplifying Climatology: Why It Is Important, How It Is Challenged*

THURSDAY 21

10:30 AM – 12:00 PM

Invited lecture: Hugh Lacey, *On the co-unfolding of scientific knowledge and viable values*

Masahiro Matsuo, *Where the Opposition to Value-free Science Should Be Revised*

2:15 PM – 4:15 PM

Katarzyna Gan-Krzywoszynska & Piotr Leśniewski, *On Rationality, Irrationality and Counterrationality in Dynamics of Knowledge*

Witold Strawinski, *Philosophy of Science and Ethical Issues - from a Warsaw Perspective*

Vladimir Lobovikov, *Science, Episteme and Mathematical Ethics (A law of contraposition of episteme in algebra of formal ethics)*

Kelly Koide, *Scientific methods and strategies of research: a plurality of paths to the objectives of science*

Section B3 – Historical Aspects in the Philosophy of Science

THURSDAY 21

10:30 AM – 12:00 PM

Invited lecture: Mrs. Yemima Ben-Menhem, *Verificationism and Scepticism*

Renata Ziemska, *Inconsistency of Ancient Skepticism*

2:15 PM – 4:15 PM

Symposium (Org: Friedrich Stadler), *Thomas Kuhn's 'The Structure of Scientific Revolutions': Interpretations and Developments*

- Hans-Joachim Dahms, *Thomas Kuhn in England. Part I: Before and after the London Colloquium 1965*
- Michael Schorner, *Kuhn in England. Part II: The London Colloquium in the Philosophy of Science 1965*
- Christian Damböck, *Thomas Kuhn and the Structuralist View of Scientific Theories. The Formal and the Historical Perspective of Theory Change*
- Christoph Limbeck-Lilienau, *Kuhn's Naturalistic Approach and the Theory-Ladenness of Observation*

Daniel Kuby, *A source of Feyerabend's Decision-Based Epistemology: Hugo Dingler's voluntarism*

4:35 PM – 7:05 PM

Symposium (Org: Karine Chemla & Koen Vermeir), *A Plurality of Currents in Today's Historical Epistemologies*

- Koen Vermeir, *Style concepts in historical epistemology*
- Nadine de Courtenay, *Measurement and the social dimensions of scientific knowledge*
- Martin Kusch, *'Ways of Seeing' in Benjamin and Historical Epistemology*
- Julia Kursell, *Reflections on Historical Epistemology and the Investigation in Hearing*
- Emily Grosholz, *Reference and Analysis in the Study of Time: Classical Mechanics, Thermodynamics, Modern Cosmology*
- Thomas Sturm, *How might epistemology be historicized? Seven lessons from the debate over naturalized epistemology*

FRIDAY 22

10:30 AM – 1:00 PM

Symposium (Org: David Rabouin), *Confronting French Roots and Current Historical Epistemologies*

- Cristina Chimisso, *Life, Health and History: a re-assessment of Georges Canguilhem's concept of the normal state*
- Maarten Van Dyck, *Alexandre Koyré, Hegelian*
- Katharina Kinzel, *Wartofsky's historical epistemology and the critique of philosophical problems*
- David Rabouin, *Mathematical Style in Gilles Gaston Granger and What Can be Done With It*
- Paola Savoia, *Current Historical Epistemology and the History of the Human Sciences*

2:15 PM – 4:15 PM

Basak Aray, *Neurath on Pictures, Language and International Communication*

Koterski Artur, *The Unimportance of Quine's 'Two Dogmas of Empiricism'*

Alexander Fursov, *Theory underdetermination: The History of Science Perspective*

Pascale Roure, *History of Sciences and Language Criticism : A cross-referenced reading of Ernst Mach and Fritz Mauthner*

4:35 PM – 6:35 PM

Symposium (Org: Richard Zach), *Carnap's Linguistic Pluralism and Scientific Methodology*

- A. W. Carus, *Carnap's Principle of Tolerance as a Basis for Reasoning about Values*
- Richard Creath, *Carnap's Linguistic Pluralism in Observation and Theory*
- Pierre Wagner, *Rational choice, decision theory, and the principle of tolerance*
- Richard Zach, *Carnap, Tolerance, and the Foundational Debate in Mathematics*

Matteo Collodel, *Carnap's Vision or: How We Can Learn from the Past and Enlighten the Future of the Philosophy of Science*

SATURDAY 23

10:30 AM – 11:30 PM

Invited lecture: Martin Carrier, *On the Question Dynamics of Research: Modes of Finding and Losing Research Topics in Science*

2:15 PM – 4:15 PM

Silvia De Bianchi, *Symmetry and the enigma of space and time. Reflections on the origin of gauge theory*

Shinji Ikeda, *Gödel and Leibniz on Concepts and Relations*

Ioannis Vandoulakis, *On A.A. Markov's attitude towards Brouwer's intuitionism*

Georg Schiemer, *Semantics in Type Theory*

4:35 PM – 7:05 PM

Dagmar Provijn, *A study of analogical reasoning based on William Harvey's problems and analogies*

Zuraya Monroy-Nasr, *Cartesian Forces in a Soulless Physics*

Godfrey Guillaumin, *Cognitive and epistemic roles of measurement at the beginning of Scientific Revolution*

Hassan Tahiri, *Ibn al-Haytham's al-Shukuk or the Art of Controversy: How the Eleventh Century Arabic Scientist's Arguments Changed Astronomy Forever*

Oscar João Abdounur, *Compounding ratios, theories of ratio and geometry in theoretical music in the 16th century*

MONDAY 25

10:30 AM – 12:30 PM

João Principe, Kantian aspects of Poincaré's epistemological thoughts on XIXth century physics

Adam Grobler, Two Traditions of Conventionalism

David Stump, Poincaré's Two Types of Conventionalism

Scott Walter, Beyond Poincaré and Einstein: A. A. Robb's Theory of Space and Time

2:15 PM – 4:15 PM

Francesca Biagioli, *Between Kantianism and Empiricism: Otto Hölder's Philosophy of Geometry*

Davide Crippa, *Mathematics and the purity of methods: some historical considerations*

Jean-Pierre Ferrier, *Quality and Practise in Mathematics from Hilbert to Grothendieck*

János Tanács, *Some Semantic Considerations for the Conceptual Transition from Euclidean to non-Euclidean Geometry*

4:35 PM – 7:05 PM

Symposium (Org: Augusto J. Franco de Oliveira), *Poincaré, Philosopher of science: a historical and philosophical approach*

- Rosário Laureano, *Poincaré as founder of Deterministic Chaos Theory*
- María de Paz, *The role of hypothesis in Poincaré's natural philosophy*
- Isabel Serra, *Poincaré's thinking: from mathematics to physics*
- Olga Pombo, *Several concepts of intuition in Poincaré's philosophy of mathematics*
- Nuno Jerónimo, *Poincaré's anticipatory intuitionism*
- Augusto J. Franco de Oliveira, *Poincaré and the infinitesimals*

TUESDAY 26

10:30 AM – 12:30 PM

Simcha Kojman-Rozen, *Changes in the Perception of Time in Victorian Scientific Theories: Lyell, Darwin and Maxwell.*

Dana Jalobeanu, *Constructing natural historical facts: Baconian methodology in Newton's first paper on light and colors*

Raffaele Pisano, *Historical epistemology. Notes on Archimedes, Torricelli and Sadi Carnot*

Gabor A. Zemplén, *Methodological remarks on knowledge-production and text-production: Newton's optical controversy and methodological shifts.*

2:15 PM – 3:45 PM

Masaki Harada, *Kant, Fichte and Algebraic Operations: Philosophy of Algebra according to Jules Vuillemin*

Ivica Martinovic, *With Boškovic' against Kant: Ivan Krstitelj Horvath on space and time*

Hennie Lötter, *Evolution as metaphor for scientific progress*

Section C1 – Methodological and Philosophical Issues of Logic, Mathematics and Computer Science

THURSDAY 21

10:30 AM – 1:00 PM

Symposium (Org: José Ferreirós & Paolo Mancosu), *Philosophy of Mathematical Practice*

- Introductory lecture: Tom Archibald, *Fundamental mathematical objects in the late nineteenth century: a new look*

Roundtable:

- Kenneth Manders, *Human agency and mathematical reasoning*
- Brendan Larvor, *Propositional reasoning and sociological aspects*
- Valeria Giardino, *Nonpropositional reasoning and cognitive aspects*
- Dirk Schlimm, *Symbolic reasoning and historical aspects of math practice*

2:15 PM – 4:15 PM

Invited lecture: Dale Miller, *Synthetic connectives and their proof theory*

Luis Estrada González, *On the Meaning of Connectives (Apropos of a Non-Necessitarianist Challenge)*

Hervé Barreau, *Lukasiewicz and Lorenzen as interpreters of Aristotle's assertoric syllogistic*

4:35 PM – 7:05 PM

Philippe Rouilhan (de), *Remarks on Recursive Definitions of Truth*

Marcos Silva, *Muss Logik für sich selbst sorgen? On contrary propositions and material logical truth as problems to the neutrality of logic*

Libor Behounek, *Fuzzy logics as the logics of linearly decomposable resources*

Wilkin Piotr, *How formalized are informal proofs?*

Peter Gabrovsky, *EXLOG: A non-standard logic programming language for experiment based research*

FRIDAY 22

2:15 PM – 3:45 PM

Symposium (Org: Caroline Jullien), *Are aesthetics approaches in Philosophy of mathematics topical?*

- Roger Pouivet, *Is the expression “mathematical beauty” only a metaphor?*
- Maria Giulia Dondero, *Necessity in Works of Art and in Sciences*
- Caroline Jullien, *The Role of mathematics in the History of aesthetic*

4:35 PM – 7:05 PM

Jacintho Del Vecchio Junior, *Could Quine's argument of indispensability reinforce the anti-realism in philosophy of mathematics?*

Andrea Sereni & Marco Panza, *On the indispensable premises of indispensability arguments*

Min Tang, *Ontology without Abstract Objects: A Naturalistic Defense of Revolutionary Fictionalism*

Gabriel Tarziu, *What can science tell us about mathematical objects?*

Simon Friederich, *Motivating Wittgenstein's perspective on mathematical sentences as norms*

SATURDAY 23

10:30 AM – 12:00 PM

Invited lecture: Jean-Pierre Marquis, *Mathematical abstraction, Variation and Identity*

Susan Vineberg, *Explanation and Two Kinds of Investigation in the Foundations of Mathematics*

2:15 PM – 4:15 PM

Amirouche Moktefi, *Representing the 'universe of discourse': historical origin and philosophical relevance of a graphical convention in mathematics and logic*

Jean-Marie Chevalier, *Are Mathematics and Logic Sciences of Observation? A Semiotic Approach to Visual Thinking*

Ralf Kroemer, *The duality of space and function, and category-theoretic dualities*

Arne Seehaus, *Raise and Fall of Scientific Branches: On Progress in Mathematics*

4:35 PM – 6:35 PM

Elaine Landry, *The Genetic Versus the Axiomatic Method: Resolving Feferman '77*

Ahti-Veikko Pietarinen, *A Realist Modal-Structuralism*

Jacobo Asse, *Pluralism and Mathematical Objects*

Michèle Friend, *Presenting Pluralism in Mathematics*

MONDAY 25

10:30 AM – 12:30 PM

Sorin Costreie, *Frege on contentful mathematics*

Francesca Boccuni, *Plural Logicism*

Paula Quinon, *Computational Structuralism and Frege's Constraint*

Joachim Hertel, *Frege on the iPad*

1:30 PM – 4:15 PM

Symposium (Org: Philip Ehrlich), *Theories of Continua: Logical and Philosophical Reflections*

- José Ferreirós, *Shifts in the Conception of the Continuum*
- Maximo Dickmann, *The First-Order Logic of the Continuum*
- Philip Ehrlich, *The Unification of All Numbers Great and Small*
- Paolo Giordano, *Knowledge comes from the dialectic between two worlds: the case of Fermat reals*
- Erik Palmgren, *Constructive and non-constructive aspects of nonstandard analysis*
- Geoffrey Hellman, *On the Plurality of Continua*

4:35 PM – 6:35 PM

Mark van Atten, *Kant and real numbers*

Jari Palomäki, *Kant, Cantor and the Burali Forti's Paradox*

Jaakko Hintikka, *Axiomatizing Set Theory*

Jan Wolenski, *Constructivism and Metamathematics*

TUESDAY 26

10:30 AM – 12:30 PM

Samuel Fletcher & Jason Hoelscher-Obermaier, *Physical Computability, Efficiency, and the Church-Turing Thesis*

Nicola Angius, *Corroboration of Hypotheses and Experimental Computer Science in Software Testing*

Liesbeth De Mol, *The computer (as a medium) in mathematics. Mathematician-computer interaction, internalization, time and space squeezing*

Section C2 – Methodological and Philosophical Issues of Cognitive Science including Linguistics and Psychology

FRIDAY 22

10:15 AM – 12:45 PM

Marcin Milkowski, *Computational Mechanisms and Models of Computation*

Patrice Soom, *On levels of mechanisms*

Dairon Rodriguez, Jorge Hermsillo & Bruno Lara, *The chinese room argument and the symbol grounding problem: A new perspective*

Samuli Pöyhönen, *Should I split or should I lump? The epistemic-tool approach to scientific concept formation*

Delphine Blitman, *What Linguistic Nativism Tells Us About Innateness*

2:00 PM – 4:30 PM

Jerry Yang, *In defense of a multiple content structure of self-representationalism*

Xiaoli Liu, *Representation And Action: A Theory of Representation in the Evolution-Embodied Cognition Context*

Pierre Steiner, *It's all about differences: representation as a disunited explanatory kind in extended and distributed models of cognition*

Krystyna Bielecka, *Are Radical Externalism and Radical Internalism the Same?*

Manuel Liz & Margarita Vázquez, *Two approaches to the notion of point of view*

4:45 PM – 7:15 PM

Yannick Chin-Drian, *A Naive Realist View of Colour*

Lieven Decock, *Reflectance Physicalism and Contrast Colours*

Feng Yanxia, *Emergent, Mental Causation and Downward Causation*

Marcelo Eichler, *Perception and Physical Experience in Understanding of Physical and Chemical Changes in Matter*

Kenneth Aizawa, *The Autonomy of Psychology in the Age of Neuroscience*

SATURDAY 23

10:30 AM – 12:30 PM

Ulrike Hahn, *Measuring argument strength: A Bayesian approach*

Mariusz Urbański & Joanna Urbańska, *Abduction and Rumormongering to the Most Coherent Interpretation*

Shushan Cai & Hongguang Zhang, *The Role of Abduction in Learning and Cognition*

2:15 PM – 4:15 PM

Yan Gong, *Is rational-emotive behavior theory based on the methodology of critical rationalism?*

Simone Duca, *The Suppositional Ramsey Test in Decision Making*

Nimrod Bar-Am, *Towards a Rational Theory of Communication*

In-Rae Cho, *Reassessing the Rationality War*

4:35 PM – 7:05 PM

Gonzalo Munevar, *Damasio, Self and Consciousness*

Sascha Benjamin Fink, *How to falsify an NCC of specific conscious content*

Igor Nevvazhay, *Dual Nature of Consciousness*

Hernan Miguel, *The Causal Closure of the Physical and the Variable Realization*

Blazej Skrzypulec, *The concept of „object” in the visual binding theories*

MONDAY 25

10:30 AM – 12:00 PM

Cristiano Castelfranchi, *Grounding Social Theory on Action and Cognition*

Tomoyuki Yamada, *Dynamic Logics of Speech Acts as Formal Simulations of Social Interaction*

2:15 PM – 3:45 PM

Philippe Schlenker, *What is dynamic in meaning?*

Manuel Rebuschi, *De Dicto versus De Facto Attitudes*

4:35 PM – 6:05 PM

Valentine Reynaud, *Can innateness assumptions avoid the tautology problem?*

Lilia Gurova, *The principle based explanations are not extinct in cognitive science: the case of the basic level effects*

Dingzhou Fei, *Blackboard System as model of problem solving in Sudoku puzzles*

TUESDAY 26

10:30 AM – 12:00 PM

Fritz Hamm, *On anaphora resolution: some methodological remarks*

Michele Abrusci & Christian Retoré, *Quantification in ordinary language: from a critique of set-theoretic approaches to a proof-theoretic proposal*

2:15 PM – 4:15 PM

Joana Hois & Oliver Kutz, *Towards Linguistically-Grounded Spatial Logics*

Erwin Engeler, *Algebras of the Mind and Algebras of the Brain*

Oliver Kutz & Joana Hois, *Steering Ontological Blending*

Pawel Lupkowski, *Cooperative Answering and Inferential Erotetic Logic*

Section C3 – Methodological and Philosophical Issues of Biology

WEDNESDAY 20

10:30 AM – 11:30 AM

Invited lecture: Tim Lewens, *Pheneticism Reconsidered*

2:15 PM – 4:15 PM

Jean-Sébastien Bolduc, *Adaptationism: behind criticisms and typologies, the tool*

Walter Riofrio, *Cellular Dynamics at the Beginning of Prebiotic World*

Manuel de Pinedo-García, *Individuation for holists: (physical) dispositions and (biological) affordances*

Paolo Lattanzio & Raffaele Mascella, *On informational schemes in biology*

4:35 PM – 7:05 PM

Symposium (Org: Matteo Mossio & Francesca Merlin), *Evolution of biological complexity*

- Matteo Mossio, *How does organized complexity evolve?*
- Francesca Merlin, *Heterogeneity, evolution and complexity*
- Paul-Antoine Miquel, *Vicious and virtuous circles in molecular and cellular biology*
- Pierre-Alain Braillard, *Adaptive vs. neutralist models of the evolution of complexity*
- Werner Callebaut, *Beyond Flat Earth Systems Biology: Biocomplexity Research as an Exemplar of Multilevel, Multiscale Modeling*
- Arantza Etxeberria, *Towards an articulation of the generative and genealogical aspects of living organization*

THURSDAY 21

10:30 AM – 12:30 PM

Invited lecture: Michel Morange, *The rise of post-genomics and epigenetics: Continuities and discontinuities in the history of biological thought*

Emmanuel D'Hombres, *The Darwinian Muddle on the 'Division of Physiological Labor': An Attempt of Clarification*

Charles Wolfe, *From substantial to functional vitalism and beyond in biomedical thought: animas, organisms and attitudes*

2:15 PM – 4:15 PM

Íñigo Ongay, *A materialist account of scientific reasoning in Ethology.*

Lukasz Lamza, *Computational Biophysics as a Case Against Intertheoretic Reduction*

Christian Sachse, *Conservative reduction of biology*

Rong-Lin Wang, *On Rosenberg's Darwinian Reductionism*

4:35 PM – 7:05 PM

Maël Lemoine, *Function as a causal role in a biological model*

Alfonso Arroyo-Santos, *Metaphors as surrogate variables. The case of adaptive radiation*

Tarja Knuuttila & Andrea Loettgers, *Modeling/Experimenting? The Combinatorial Strategy in Synthetic Biology*

Laura Nuño de la Rosa, *Modelling development and evolution in three dimensions*

Stefan Petkov, *The Fitness Landscape Metaphor: Dead but Not Gone*

FRIDAY 22

10:30 AM – 1:00 PM

Andreea Esanu, *An Argument against The Evolutionary Contingency Thesis*

Donato Bergandi, *Ecology, Evolution, Ethics: In Search of a Meta-Paradigm*

Jean Gayon, *Economic natural selection: what concept of selection ?*

Peter Gildenhuys, *The Semantic Approach to Evolutionary Theory*

Hisashi Nakao & Edouard Machery, *The evolution of punishment*

2:15 PM – 4:15 PM

Hsien-I Chiu & Bo-Chi G. Lai, *A Moderate Solution to the Debate over Species Concept*

Jane Maienschein, *Are Embryos What We Thought They Were, and How Do We Know?*

Jon Umerez, *Epistemological reconstruction of the concept of level. Some preliminaries and a proposal*

Jonathan Birch, *Is the Concept of Life Response-Dependent?*

SATURDAY 23

10:30 AM – 12:00 PM

Thomas Reydon, *Addressing a theory-practice gap: What can kind essentialism contribute to understanding classificatory practices in biology?*

Edit Talpsepp, *Essentialism, Darwinism and theory theory*

Pablo Lorenzano, *The Status of the Hardy-Weinberg Law*

2:15 PM – 3:15 PM

Hsiao-Fan Yeh, *Why the Classical Mendelian Genetics are Necessary? - A Comparison of Lindley Darden's Mechanism Approach with C. Kenneth Waters' Genetic Approach*

Ellen Clarke, *Biological individuality in plants and beyond – a reconciliation for the genet-ramet dispute*

Section C4 – Methodological and Philosophical Issues of Chemistry

THURSDAY 21

10:30 AM – 12:30 PM

Davis Baird, *Many Ways of Knowing*

Alfred Nordmann, *Knowing and Making in an Impure Science*

FRIDAY 22

10:30 AM – 1:00 PM

Rein Vihalemm, *Philosophy of Chemistry against Standard Scientific Realism and Anti-Realism*

Jean-Pierre Llored, *Relational philosophy as root for the epistemology of chemistry*

Martín Labarca & Olimpia Lombardi, *The Ontological Autonomy of the Chemical World: Further Arguments*

Alexandr Pechenkin, *The paradigm changes in the study in the Belousov-Zhabotinsky reaction.*

Section C5 – Methodological and Philosophical Issues of Physics

WEDNESDAY 20

2:15 PM – 4:15 PM

Mathias Frisch, *Incantations of 'causation' and other philosophical sins, or: Rehabilitating Ritz*

Thomas Angelidis, *Special Relativity Prohibits Spacelike Causation and Some Implications*

Kent Peacock, *Would superluminal influences violate the Principle of Relativity?*

Christian Wüthrich, *How large is a structuralist universe?*

4:35 PM – 6:05 PM

Carl Hoefer, *Mach's Principle and the Philosophy of Space/time: What Nature is Trying to Tell Us*

Mike Tamir, *Proving the Principle: General Relativity and Geodesic Universality*

Marko Uršič, *Paradoxes of Transfinite Cosmology*

THURSDAY 21

10:30 AM – 13:00 PM

Pandora Hadzidaki, *Bohr's Model of the Atom: Methodology, Consistency and Fruitfulness*

Albert Solé, *Bohmian Mechanics Without Wave Function Ontology*

Iñaki San Pedro, *Causal Relevance of Measurement Operations in the EPR Paradox*

F.A. Muller, *Circumveiled by Obscuritads*

Lev Vaidman, *The past of a quantum particle*

FRIDAY 22

10:30 AM – 12:30 PM

Invited lecture: Roman Frigg, *Explaining the Approach to Equilibrium in Terms of Epsilon-Ergodicity*

Graziana Conte, *Information measures induced by partial Boolean algebras*

Louis Vervoort, *Probability is composed. The frequency interpretation of probability revisited*

2:15 PM – 4:15 PM

Emboussi Nyano, *Einstein's philosophy and post-critical philosophy of science*

Naoum Daher, *From Independent Models to a Unified Theory of Dynamics*

Leba Sleiman, *Problems and Promises of Scientific Method*

Sandra Mols, *Going Round the Lack of Time: Enforced Entrusting and Silent Inter-Expertise Trading in Time-Short Nanomagnetism Knowledge Making*

4:35 PM – 6:35 PM

Arnaud Mayrargue, *An illustration of the importance of the epistemological point of view and of the context in Sciences: the astronomical refraction case during the 18th century.*

Vassilios Karakostas, *Correspondence Truth and Quantum Mechanics*

Johannes Roehl, *Forces – relations or dispositions?*

Raquel Anna Sapunaru, *Leibniz Symmetry and Harmony*

Steffen Ducheyne, *Testing Universal Gravitation in the Laboratory, or the Significance of Research on the mean Density of the Earth and Big G, 1798-1898*

SATURDAY 23

10:30 AM – 12:00 PM

Invited lecture: Miklos Redei, *Einstein meets von Neumann: operational separability and operational independence in algebraic quantum field theory*

Tomasz Bigaj, *How to exchange quantum particles of the same type*

2:15 PM – 4:15 PM

Robert DiSalle, *Explanation, explication, and interpretation of space-time theories*

Mauro Dorato, *How to combine (and not to combine) metaphysics with physics*

Invited lecture: Michael Friedman, *Einstein and the A Priori*

4:35 PM – 7:05 PM

Pierre Uzan, *Quantum Theory Beyond Physics*

Morgan Tait, *The Case for Quantum State Realism*

Wayne Myrvold, *Prospects for quantum state monism*

Juan Sebastián Ardenghi, Sebastian Fortin & Olimpia Lombardi, *The conceptual meaning of reduced states: decoherence and interpretation*

Paul Näger, *Why quantum non-locality implies parameter dependence*

MONDAY 25

10:30 AM – 12:30 PM

Invited lecture: Craig Callender, *The Flow of Space?*

Aristidis Arageorgis, *Spacetime as a causal set: Universe as a growing block?*

Juliusz Doboszewski, *Specious Present in Branching Space-Times*

2:15 PM – 3:45 PM

Michael Cuffaro, *Many worlds, the cluster-state quantum computer, and the problem of the preferred basis*

Ariane Shahvisi, *The Gravity of the Past Hypothesis: Lessons Learnt from Earman and Wallace*

Graham Nerlich, *Bell's Lorentzian Pedagogy: a bad education*

4:35 PM – 6:35 PM

Nazim Bouatta & Jeremy Butterfield, *Emergence and Reduction Combined in Infinite Systems*

Elena Castellani, *Fundamentality, Elementariness and Scales*

Matt Farr, *On the Status of Temporal Unidirectionality in Physics*

Argyris Nicolaidis, *Relational Logic and Modern Science*

TUESDAY 26

10:30 AM – 12:30 PM

Symposium (org: Michael Stöltzner), *Epistemological perspectives on the Large Hadron Collider*

- Michael Stöltzner, *Higgs models and other stories about mass generation*
- Arianna Borrelli, *The practice of model-building in contemporary high energy physics: the example of "technicolor"*
- Koray Karaca, *Selectivity and Robustness in Experimental Research: Lessons from the Large Hadron Collider*

Alexandre Guay, *Objectivity and Physical Symmetries*

2:15 PM – 4:15 PM

Adan Sus, *Is Inertia Explained in General Relativity?*

Montgomery Link, *Rotating Universe*

Hajime Tanaka, Koji Nakatogawa & Hiroyasu Nagata, *A Proposition called T0906 and Gödel's Incompleteness Theorems*

Julien Bernard, *From the hole argument (A. Einstein) to the ball of clay argument (H. Weyl)*

Section C6 – Methodological and Philosophical Issues of Medicine

THURSDAY 21

2:15 PM – 3:15 PM

Renzong Qiu, *Ontological and Moral Status of Human-Nonhuman Animal Mix Organisms*

Xiaomei Zhai, *Philosophical and Ethical Issues in Use or Abuse of Human Body and Its Parts in Biomedical Technologies*

MONDAY 25

10:30 AM – 12:30 PM

Invited lecture: Miriam Solomon, *Evidence-Based Medicine and Mechanistic Reasoning in the Case of Cystic Fibrosis*

Stéphanie Van Droogenbroeck, *Experimental Philosophy and Evidence Based Medicine: Two Criticized Ways of Doing Science*

Jan De Winter, *How to Make the Research Agenda in the Health Sciences Less Distorted*

2:15 PM – 3:45 PM

Invited lecture: Anne Cambon-Thomsen, *t.b.a.*

Sébastien Janicki, *Between variability of the body and determinism of the care: a “mediated” relation*

4:35 PM – 6:05 PM

Chhanda Chakraborti, *Vulnerability from Infectious diseases and social determinants of health: In search for an ontology to guide health policy development*

Noemí Sanz, *How and why to Epistemologically Study Applied Bioethics to Nanomedicine*

Marc Kirsch, *When society speaks to science: politics, social representations and industrial interests in the medical definition of the concept of addiction, in the case of tobacco and nicotine.*

Section C7 – Methodological and Philosophical Issues of Environmental Sciences

FRIDAY 22

10:30 AM – 12:30 PM

Invited lecture: Kevin Elliott, *The Nature and Significance of Selective Ignorance in Environmental Research*

Constantin Stoenescu, *A New Way of Thinking in Environmental Sciences*

Michael Poznic & Rafaela Hillerbrand, *Climate science or climate fiction? The role of fictional elements in physics and in Earth sciences*

2:15 PM – 3:15 PM

Rodolfo Hernandez, *Let the water flow to the City: A recent history of the water saving technologies for agriculture in China*

Joel Katzav, *Hybrid models, climate models and inference to the best explanation*

Section C8 – Methodological and Philosophical Issues of economics and Social Sciences

FRIDAY 22

10:30 AM – 12:00 PM

Invited lecture: Don Ross, *The Evolution and Strategic Dynamics of Individualistic Norms*

Chrysostomos Mantzavinos, *Which Theory of Explanation for the Social Sciences? Unificationist, Mechanistic or Manipulationist?*

2:15 PM – 3:45 PM

Symposium (Org: Antonella Corradini, Nicolò Gaj, and Giuseppe Lo Dico), *Duality Within Human Sciences*

- Antonella Corradini, *The Epistemological Status of Empathy in the Human Sciences*
- Giuseppe Lo Dico, *The Place of Verbal Reports in Cognitive Psychology*
- Nicolò Gaj, *The Double Soul of Clinical Psychology: A Two-Faced Methodology between Monism and Dualism*

4:35 PM – 6:05 PM

Symposium (Org: Samuel Ferey), *Decision theory in economics: between logic and psychology*

- Jean-Sébastien Lenfant, *Between Axiomatics and Psychology: Probabilizing the Consumer in the 1950's*
- Brian Hill & Michaël Cozic, *On Representation Theorems, What does Ax add?*
- Samuel Ferey, *Normative stakes for behavioral economics*
- Nicola Giocoli, *Savage vs. Wald on "complete ignorance": was Bayesian decision theory the only available alternative for postwar economics?*

SATURDAY 23

10:30 AM – 12:00 PM

Invited lecture: Uskali Mäki, *Scientific Realism and Disciplinary Diversity: Revisionist Remarks*

Michiru Nagatsu, *A case for practical pluralism in the economic sciences*

2:15 PM – 4:15 PM

Wei Wang, *Are There Laws in the Social Sciences?*

Ana Maria Talak, *Reconsidering Values in Assessing the Progress of Historiography of Psychology*

Michel Bourdeau, *Two conflicting ideas upon the nature and the goals of man's action upon social phenomena*

Romulus Brancoveanu, *Weber's and Pareto's theories as methodological programs*

4:35 PM – 7:05 PM

Symposium (Christoph Lütge), *Business Ethics and Analytic Philosophy*

- Christian List, *Collective Responsibility and its Ethical Implications from an Analytic Perspective*
- Lisa Herzog, *Business Ethics and Virtue Ethics - Great Love or Strange Bedfellows?*
- Michael v. Grundherr, *Reasons and Incentives in the Health Care System*
- César Canton, *Exploring emotions' cognitive value through the analysis of moral language. Some implications for human resource management*
- Christoph Lütge, *Are Good Reasons and Incentives Compatible within a Contractarian Business Ethics?*

MONDAY 25

10:30 AM – 12:30 PM

Invited lecture: Donald McKenzie, *The Credit Crisis as a Problem in the Sociology of Knowledge*

Daniel Eckert, *Guilbaud's reading of Arrow's theorem*

Carlo Martini, *Modeling Expertise in Economics*

2:15 PM – 4:15 PM

Paul Weirich, *Decisions without Sharp Probabilities*

Silvia Haring & Paul Weingartner, *On the Conceptual Clarification of „Human Environment“, „Action Space“ and „Quality of Life“*

Adrian Miroiu, *Two approaches to representative voting*

Esa Diaz-Leon, *What is Social Construction?*

Section D – Methodological and Philosophical Issues in Technology

FRIDAY 22

10:30 AM – 12:30 PM

Invited lecture: Wendy Parker, *The Target of Testing: Models, Adequacy and Scientific Knowledge*

Marcello Frixione & Antonio Lieto, *Formal Ontologies and Semantic Technologies: A "Dual Process" Proposal for Concept Representation*

Baptiste Meles, *Nominalisme des choses et nominalisme des événements, des machines de Turing à la programmation fonctionnelle*

2:15 PM – 3:45 PM

Christopher Evans, *Technoscience: Illuminating new blue skies*

Insok Ko, *How to Recycle Asimov's Laws in Roboethics: an Intermediate Suggestion*

Nicolas Delhospital, *Science, Technology and Society. An Attempt to Think their Link through Maurice Blondel's (1861-1949) Philosophy of Action*

4:35 PM – 6:35 PM

Manjari Chakrabarty, *An Inquiry into the Character of Material Artifacts*

Yamina Bettahar & Benoît Roussel, *Production of intermediary objects in a collaborative network: Examples of impact on tools and methods in engineering innovation*

Pawel Garbacz, *Artefacts and Family Resemblance*

Margarita Vazquez & Manuel Liz, *Models, Commentaries, and Theories*

SATURDAY 23

10:30 AM – 12:00 PM

Invited lecture: Peter Kroes, *Knowledge and the design and making of technical artefacts*

Sven Ove Hansson, *What is so special with technological science?*

2:15 PM – 4:15 PM

Symposium (Org: Wybo Houkes), *Artefact Functions*

- Wybo Houkes, *Technical functions and the dynamics of innovation*
- Françoise Longy, *Theories of artefact function facing the challenge of wrong function attributions*
- Pieter Vermaas, *Technical functions and engineering-design methodology*

Luca Del Frate, *Technical malfunction in terms of states and events*

MONDAY 25

10:30 AM – 12:00 PM

Invited lecture: Roger Cooke, *Applications of Philosophy: the Bottom Half*

Martin Vezer, *Comparing methodologies of classical, natural, field and computer experiments deployed in climate change studies*

2:15 PM – 4:15 PM

S.G. Sterrett & Adrian Bejan, *Geometric configuration in nature and in design: is there a connection?*

Symposium (Org: Maarten Franssen & Sjoerd D. Zwart), *Design as a Challenge for the Philosophy of Science*

- Richard Buchanan, *t.b.a.*
- Sjoerd Zwart & Maarten Franssen, *Instrumental system as a sui generis kind of system central to engineering design*
- Riichiro Mizoguchi, *Functional ontology viewed from engineering point of view*
- Ibo van de Poel, *Trade-offs and commensurability in engineering design*

Affiliated Program

Links to the affiliated symposia webpages are available on the Congress' website, at:

<http://www.clmps2011.org/en/program/affiliated-program.html>

TITLE	ORGANIZERS/CHAIR	DATE
The Philosophy of Artificial Intelligence (<i>Conférences Pierre Duhem</i>)	Max Kistler	Tuesday, July 19
Logic, Knowledge and Agency (<i>Beth Foundation Symposium</i>)	Johan van Benthem & Henk Visser	Wednesday, July 20
The Philosophy of Mathematical Practice (<i>Association for the Philosophy of Mathematical Practice Symposium</i>)	Jessica Carter & Marco Panza	Wednesday, July 20
Rebuilding Logic and Rethinking Language in Interaction Terms (<i>LOCI Symposium</i>)	Alain Lecomte	Thursday, July 21
Logical Modelling: The Interface between the Formal and the Empirical (<i>Log/CCC symposium</i>)	Eva Hoogland & Benedikt Löwe	Thursday, July 21
Climate Science and Climate Change: Epistemological and Methodological Issues (<i>Société de Philosophie des Sciences Symposium</i>)	Anouk Barberousse, Cyrille Imbert & Stéphanie Ruphy	Thursday, July 21
Analysing Programs: Logic at Rescue (<i>LORIA Symposium</i>)	Véronique Cortier	Friday, July 22
Logical and Philosophical Foundations of science and Technology	Boris Chendov	Friday, July 22
The Logic of Opposition (<i>N.O.T. Symposium</i>)	Fabien Schang	Saturday, July 23
Science and Rationality (<i>International Academy of Philosophy of Science</i>)	Evandro Agazzi	Saturday, July 23
Ontology between Philosophy and Computer science	Heinrich Herre & Roberto Poli	Saturday, July 23
Intuitionistic Modal Logics and Applications	Natasha Aleshina & Valeria de Paiva	Monday, July 25
Methodological Problems of Technoscience	Vitaly Gorokhov & Armin Grunwald	Tuesday, July 26

Public Program

This is a public program of five lectures, in French. Lectures marked * are organized by the French Académie des Sciences. Lecture marked ** is organized by the Henri Poincaré Archives. All will take place:

Salle Raugraff - 13, rue des Ponts, Nancy

Wednesday, July 20 – 8:30 pm *

ÉTHIQUE ET ANTHROPOLOGIE : A PROPOS DES CELLULES SOUCHES

Mme Anne FAGOT-LARGEAULT, Académie des Sciences – Chaire de Philosophie des Sciences Médicales du Collège de France

M. Jean-Yves LE DÉAUT, Député de Meurthe-et-Moselle, Premier Vice-Président de la Région Lorraine

Thursday, July 21 – 8:30 pm *

L'HABITAT DU FUTUR

M. Didier ROUX, Académie des Sciences, Directeur Recherche & Développement et Innovation à Saint Gobain

Friday, July 22 – 8:30 pm *

EST-IL VRAI QUE LA TERRE TOURNE?

M. Jean-Pierre KAHANE, Professeur à l'Université Paris Sud, Orsay - Membre de l'Académie des Sciences

Saturday, July 23 – 6:30 pm **

CONSERVATISME ET MODERNITÉ: FREGE A IENA ET LES ANNEES D'APPRENTISSAGE DE CARNAP

M. Jacques BOUVERESSE, Professeur au Collège de France (Chaire de Philosophie du Langage et de la Connaissance) Conférence à part (= ne fait pas partie des « conférences du soir »)

Monday, July 25 – 8:30 pm *

ÉTHIQUE, MATHÉMATIQUES ET FINANCE

M. Hans FOELLMER, Professeur, Université Humboldt, Berlin

Slots	Tuesday 19	Wednesday 20	Thursday 21	Friday 22	Saturday 23	Sunday 24	Monday 25	Tuesday 26
8:30 AM - 10:00 AM	A2	B1 / B2 C3	Plenary lecture: Huw Price	Plenary lecture: Philippe Mongin	Plenary lecture: Marco de Baar		Plenary lecture: Jeremy Gray	Plenary lecture: Saul Kripke
10:30 AM - 12:30 PM	A2 B1	B1 / B2 C3 / C5	A1 / A2 / A3 B1 / B2 / B3 C1 / C3 / C4 / C5 IUHPS Joint Commission symp	A1 / A2 B1 / B3 C2 / C3 / C4 / C5 / C7 / C8 D Inv Symp (Mathematics and the New Technologies) IUHPS Joint Commission symp	A1 / A2 / A3 B1 / B3 C1 / C2 / C3 / C5 / C8 D		A2 / A3 B1 / B3 C1 / C2 / C5 / C6 / C8 D	A2 B1 / B3 C1 / C2 / C5
2:15 PM - 4:15 PM	Opening Ceremony Plenary lecture: Wilfrid HODGES	B1 / B2 C3 / C5	A1 / A2 / A3 B1 / B2 / B3 C1 / C3 / C6 Inv symp (Quantum Information) IUHPS Joint Commission symp	A1 / A2 B1 / B3 C1 / C2 / C3 / C5 / C7 / C8 D	A1 / A2 / A3 B1 / B3 C1 / C2 / C5 / C8 D		A2 B1 / B3 C1 / C2 / C5 / C6 / C8 D	A2 B1 / B3 C2 / C5
4:35 PM - 7:00 PM		Inv Symp (Algorithm)	A1 / A2 B1 / B3 C1 / C3 Inv symp (Quantum Information) IUHPS Joint Commission symp	A2 B1 / B3 C1 / C2 / C5 / C8 D Inv symp (Evolutionary Models)	A2 B1 / B3 C1 / C2 / C5 / C8		A2 B1 / B3 C1 / C2 / C5 / C6 Inv Symp (General Proof Theory)	B1 Closing Ceremony
7:00 PM				DLMPS General Assembly				
Affiliated program	The philosophy of artificial intelligence (Conférences Pierre Duhem)	Logic, knowledge and agency (Beth Foundation Symposium) + Philosophy of mathematical practice	Climate science and climate change: Epistemological and methodological issues (Symposium Société de Philosophie des Sciences) + Rebuilding Logic and Rethinking Language in Interaction Terms + Logical Modelling: The interface between the formal and the empirical (LogICCC)	Analyzing programs: Logic at rescue + Logical and philosophical foundations of science and technology	The logic of opposition + Science and rationality (Symposium Académie Internationale de Philosophie des Sciences) + Ontology between philosophy and computer science		Intuitionistic modal logics	Methodological problems of technoscience
Social program	Welcome banquet	Tours in Nancy	Tours in Nancy	Tours in Nancy	Tours in Nancy Concerts	Tours in Lorraine and/or Nancy	Tours in Nancy	Farewell banquet
Public program (in French)		Éthique & anthropologie : à propos des cellules souches	L'habitat du futur	Est-il vrai que la Terre tourne ?	Conservatisme et modernité: Frege à Léna et les années d'apprentissage de Carnap		Éthique, mathématiques et finance	

Slots	Tuesday 19	Wednesday 20	Thursday 21	Friday 22	Saturday 23	Monday 25	Tuesday 26
8:30 AM - 10:00 AM	Registration		Plenary lecture: Huw Price	Plenary lecture: Philippe Mongin	Plenary lecture: Marco de Baar	Plenary lecture: Jeremy Gray	Plenary lecture: Saul Kripke
10:30 AM - 12:30 PM			CP + inv (Grohe)	CP + inv (Thomas)	CP + inv (Knight)		
2:15 PM - 4:15 PM	Opening Ceremony + Plenary lecture: Wilfrid Hodges		CP + inv (Moore)	CP + inv (Speisegger)	CP		
4:35 PM - 7:00 PM			inv (Miller + Oliva)				

CP: Contributed papers

Inv: Invited speaker

**Section A1
Mathematical Logic**

Slots	Tuesday 19	Wednesday 20	Thursday 21	Friday 22	Saturday 23	Monday 25	Tuesday 26
8:30 AM - 10:00 AM	CP		Plenary lecture: Huw Price	Plenary lecture: Philippe Mongin	Plenary lecture: Marco de Baar	Plenary lecture: Jeremy Gray	Plenary lecture: Saul Kripke
10:30 AM - 12:30 PM	CP		CP	CP + inv (Westerstahl)	CP + symp: "Proof-theory, meaning and paradoxes"	CP	CP
2:15 PM - 4:15 PM	Opening Ceremony + Plenary lecture: Wilfrid Hodges		CP	CP	CP	CP	CP
4:35 PM - 7:00 PM			symp: "Hyperintension, intension, extension"	symp: "The Meaning of axioms: From Mathematics to Logic"	symp: "New directions in dialogical logics"	inv symp "General Proof Theory"	

Nota bene. Due to the number of contributions in this section,
we had to divide the contributed sessions in two

CP: Contributed papers

Inv: Invited speaker

**Section A2
Philosophical Logic**

Slots	Tuesday 19	Wednesday 20	Thursday 21	Friday 22	Saturday 23	Monday 25	Tuesday 26
8:30 AM - 10:00 AM	Registration		Plenary lecture: Huw Price	Plenary lecture: Philippe Mongin	Plenary lecture: Marco de Baar	Plenary lecture: Jeremy Gray	Plenary lecture: Saul Kripke
10:30 AM - 12:30 PM			CP		CP	CP + inv (Berger)	
2:15 PM - 4:15 PM	Opening Ceremony + Plenary lecture: Wilfrid Hodges		inv (Löding + Grandjean)		inv (Awodey)		
4:35 PM - 7:00 PM					symp: "Proof systems at the test of computer science"		

CP: Contributed papers
Inv: Invited speaker

Section A3
Logic and computation

Slots	Tuesday 19	Wednesday 20	Thursday 21	Friday 22	Saturday 23	Monday 25	Tuesday 26
8:30 AM - 10:00 AM			Plenary lecture: Huw Price	Plenary lecture: Philippe Mongin	Plenary lecture: Marco de Baar	Plenary lecture: Jeremy Gray	Plenary lecture: Saul Kripke
10:30 AM - 12:30 PM	CP	CP + Inv (Radder)	CP + symp: "Calibration in scientific practice" + symp: "Integrity and diversity of traditions and trends in today's philosophy of science"	CP	CP + Inv (Hitchcock)	CP	CP
2:15 PM - 4:15 PM	Opening Ceremony + Plenary lecture: Wilfrid Hodges	CP + Inv (Spohn)	CP + Inv (Cellucci)	CP	CP	CP + Inv (Humphreys)	CP
4:35 PM - 7:00 PM		CP	CP	inv symp "Evolutionary models in epistemology and philosophy of science"	CP + symp: "The interpretation and scope of models of complex systems"	CP	CP

Nota bene. Due to the number of contributions in this section, we had to divide the contributed sessions in two

CP: Contributed papers
Inv: Invited speaker

Section B1
Methodology and Scientific Reasoning

Slots	Tuesday 19	Wednesday 20	Thursday 21	Friday 22	Saturday 23	Monday 25	Tuesday 26
8:30 AM - 10:00 AM	<i>Registration</i>		Plenary lecture: Huw Price	Plenary lecture: Philippe Mongin	Plenary lecture: Marco de Baar	Plenary lecture: Jeremy Gray	Plenary lecture: Saul Kripke
10:30 AM - 12:30 PM		inv (Douglas)	CP + inv (Lacey)				
2:15 PM - 4:15 PM	Opening Ceremony + Plenary lecture: Wilfrid Hodges	CP	CP				
4:35 PM - 7:00 PM							

CP: Contributed papers
Inv: Invited speaker

Section B2
**Ethical Issues in the Philosophy of
Science**

Slots	Tuesday 19	Wednesday 20	Thursday 21	Friday 22	Saturday 23	Monday 25	Tuesday 26
8:30 AM - 10:00 AM			Plenary lecture: Huw Price	Plenary lecture: Philippe Mongin	Plenary lecture: Marco de Baar	Plenary lecture: Jeremy Gray	Plenary lecture: Saul Kripke
10:30 AM - 12:30 PM			CP + 1 inv (Ben-Menahem)	symp: "Confronting French Roots and Current Historical Epistemologies"	inv (Carrier)	CP	CP
2:15 PM - 4:15 PM	Opening Ceremony + Plenary lecture: Wilfrid Hodges		CP + symp: "Thomas Kuhn's 'The Structure of Scientific Revolutions': Interpretations and Developments"	CP	CP	CP	CP
4:35 PM - 7:00 PM			symp: "A Plurality of Currents in Today's Historical Epistemologies"	CP + symp: "Carnap's Linguistic Pluralism and Scientific Methodology"	CP	symp: "Poincaré, Philosopher of science: a historical and philosophical approach"	

CP: Contributed papers

Inv: Invited speaker

Section B3
Historical Aspects in the
Philosophy of Science

Slots	Tuesday 19	Wednesday 20	Thursday 21	Friday 22	Saturday 23	Monday 25	Tuesday 26
8:30 AM - 10:00 AM	Registration		Plenary lecture: Huw Price	Plenary lecture: Philippe Mongin	Plenary lecture: Marco de Baar	Plenary lecture: Jeremy Gray	Plenary lecture: Saul Kripke
10:30 AM - 12:30 PM			symp: "Philosophy of Mathematical Practice"		CP + inv (Marquis)	CP	CP
2:15 PM - 4:15 PM	Opening Ceremony + Plenary lecture: Wilfrid Hodges		CP + inv (Miller)	CP + symp: Are aesthetic approaches in philosophy of mathematics topical?	CP	symp: Theories of Continua: Logical and Philosophical Reflections	
4:35 PM - 7:00 PM			CP	CP	CP	CP	

CP: Contributed papers

Inv: Invited speaker

Section C1
Methodological and Philosophical
Issues of Logic, Mathematics and
Computer Science

Slots	Tuesday 19	Wednesday 20	Thursday 21	Friday 22	Saturday 23	Monday 25	Tuesday 26
8:30 AM - 10:00 AM	Registration		Plenary lecture: Huw Price	Plenary lecture: Philippe Mongin	Plenary lecture: Marco de Baar	Plenary lecture: Jeremy Gray	Plenary lecture: Saul Kripke
10:30 AM - 12:30 PM				CP	CP + inv (Hahn)	CP + inv (Castelfranchi)	CP + inv (Hamm)
2:15 PM - 4:15 PM	Opening Ceremony + Plenary lecture: Wilfrid Hodges			CP	CP	CP + inv (Schlenker)	CP
4:35 PM - 7:00 PM				CP	CP	CP	

CP: Contributed papers

Inv: Invited speaker

Section C2
Methodological and Philosophical
Issues of Cognitive Science

Slots	Tuesday 19	Wednesday 20	Thursday 21	Friday 22	Saturday 23	Monday 25	Tuesday 26
8:30 AM - 10:00 AM	Registration		Plenary lecture: Huw Price	Plenary lecture: Philippe Mongin	Plenary lecture: Marco de Baar	Plenary lecture: Jeremy Gray	Plenary lecture: Saul Kripke
10:30 AM - 12:30 PM		CP + inv (Lewens)	CP + inv (Morange)	CP	CP		
2:15 PM - 4:15 PM	Opening Ceremony + Plenary lecture: Wilfrid Hodges	CP	CP	CP			
4:35 PM - 7:00 PM		symp: "Evolution of biological complexity"	CP				

CP: Contributed papers

Inv: Invited speaker

Section C3
Methodological and Philosophical
Issues of Biology

Slots	Tuesday 19	Wednesday 20	Thursday 21	Friday 22	Saturday 23	Monday 25	Tuesday 26
8:30 AM - 10:00 AM	Registration		Plenary lecture: Huw Price	Plenary lecture: Philippe Mongin	Plenary lecture: Marco de Baar	Plenary lecture: Jeremy Gray	Plenary lecture: Saul Kripke
10:30 AM - 12:30 PM			inv (Baird + Nordmann)	CP			
2:15 PM - 4:15 PM	Opening Ceremony + Plenary lecture: Wilfrid Hodges						
4:35 PM - 7:00 PM							

CP: Contributed papers

Inv: Invited speaker

Section C4
Methodological and Philosophical
Issues of Chemistry

Slots	Tuesday 19	Wednesday 20	Thursday 21	Friday 22	Saturday 23	Monday 25	Tuesday 26
8:30 AM - 10:00 AM	Registration		Plenary lecture: Huw Price	Plenary lecture: Philippe Mongin	Plenary lecture: Marco de Baar	Plenary lecture: Jeremy Gray	Plenary lecture: Saul Kripke
10:30 AM - 12:30 PM			CP	CP + inv (Frigg)	CP + inv (Redei)	CP + inv (Callender)	CP + symp: "Epistemological perspectives on the Large Hadron Collider"
2:15 PM - 4:15 PM	Opening Ceremony + Plenary lecture: Wilfrid Hodges	CP		CP	CP + inv (Friedman)	CP	CP
4:35 PM - 7:00 PM		CP		CP	CP	CP	CP

CP: Contributed papers

Inv: Invited speaker

Section C5
Methodological and Philosophical
Issues of Physics

Slots	Tuesday 19	Wednesday 20	Thursday 21	Friday 22	Saturday 23	Monday 25	Tuesday 26
8:30 AM - 10:00 AM	Registration		Plenary lecture: Huw Price	Plenary lecture: Philippe Mongin	Plenary lecture: Marco de Baar	Plenary lecture: Jeremy Gray	Plenary lecture: Saul Kripke
10:30 AM - 12:30 PM						CP + inv (Solomon)	
2:15 PM - 4:15 PM	Opening Ceremony + Plenary lecture: Wilfrid Hodges		CP			CP + inv (Cambon- Thomsen)	
4:35 PM - 7:00 PM						CP	

CP: Contributed papers

Inv: Invited speaker

Section C6
Methodological and Philosophical
Issues of Medicine

Slots	Tuesday 19	Wednesday 20	Thursday 21	Friday 22	Saturday 23	Monday 25	Tuesday 26
8:30 AM - 10:00 AM	Registration		Plenary lecture: Huw Price	Plenary lecture: Philippe Mongin	Plenary lecture: Marco de Baar	Plenary lecture: Jeremy Gray	Plenary lecture: Saul Kripke
10:30 AM - 12:30 PM				CP + inv (Elliott)			
2:15 PM - 4:15 PM	Opening Ceremony + Plenary lecture: Wilfrid Hodges			CP			
4:35 PM - 7:00 PM							

CP: Contributed papers
Inv: Invited speaker

Section C7
Methodological and Philosophical
Issues of Environmental Sciences

Slots	Tuesday 19	Wednesday 20	Thursday 21	Friday 22	Saturday 23	Monday 25	Tuesday 26
8:30 AM - 10:00 AM	Registration		Plenary lecture: Huw Price	Plenary lecture: Philippe Mongin	Plenary lecture: Marco de Baar	Plenary lecture: Jeremy Gray	Plenary lecture: Saul Kripke
10:30 AM - 12:30 PM				CP + inv (Ross)	CP + inv (Mäki)	CP + inv (Mc Kenzie)	
2:15 PM - 4:15 PM	Opening Ceremony + Plenary lecture: Wilfrid Hodges			CP + symp: "Duality within human sciences"	CP	CP	
4:35 PM - 7:00 PM				symp: "Decision theory in economics: between logic and psychology"	symp: "Business ethics and analytic philosophy"		

CP: Contributed papers

Inv: Invited speaker

Section C8
Methodological and Philosophical
Issues of Economics and Social
Sciences

Slots	Tuesday 19	Wednesday 20	Thursday 21	Friday 22	Saturday 23	Monday 25	Tuesday 26
8:30 AM - 10:00 AM	Registration		Plenary lecture: Huw Price	Plenary lecture: Philippe Mongin	Plenary lecture: Marco de Baar	Plenary lecture: Jeremy Gray	Plenary lecture: Saul Kripke
10:30 AM - 12:30 PM				CP + inv (Parker)	CP + inv (Kroes)	CP + inv (Cooke)	
2:15 PM - 4:15 PM	Opening Ceremony + Plenary lecture: Wilfrid Hodges			CP	CP + symp: "Artefact functions"	CP + symp: "Design as a Challenge for the Philosophy of Science"	
4:35 PM - 7:00 PM				CP			

CP: Contributed papers

Inv: Invited speaker

Section D
Methodological and Philosophical
Issues in Technology