

**Programme of EPSA11**  
**Athens 5-8 October 2011**

**Wednesday, October 5<sup>th</sup>**

**11.00-14.00** Registration

**14.00-14.30 Opening of the conference** (Vergina)

Thomas Sfikopoulos, Vice-Rector of the University of Athens

Costas Dimitracopoulos, Chair of the dept of PHS, University of Athens

Friedrich Stadler, President of EPSA

Stathis Psillos, Chair of LOC of EPSA11

**14.30-16.00 Plenary lecture** (Vergina)

Chair: Stathis Psillos

Helen Longino (Stanford University)

*The Sociality of Scientific Knowledge: Not Just an Academic Question*

**16.00-16.30** Tea Break

**16.30-19.00 Parallel sessions**

*Models in Explanation* (Hypatia)

Chair: Dionysis Anapolitanos

Anna-Mari Rusanen: *Information Semantics and the Problem of Imaginary Models*

Alisa Bokulich: *Explanatory Models vs. Predictive Models: Some Lessons from Geomorphology*

Joel Katzav: *Climate models and Inference to the Best Explanation*

Demetris Portides: *Idealization and Scientific Models: Reducing the Information Content*

*Science and Democracy* (Socrates)

Chair: Kristina Rolin

Kristen Intemann and Inmaculada De Melo-Martín: *Scientific Dissent, Objectivity, and Public Policy*

José Luis Luján and Oliver Todt: *Epistemic and Non-Epistemic Values in Regulatory Science: The Case of Risk Assessment*

Matthew J. Brown: *The Democratic Control of the Scientific Control of Politics*

Rose-Mary Sargent: *Early Twentieth Century Debates over Science in the Public Interest*

Elisabeth Nemeth: *What is the Role Science Can (And Ought to) Play in Democratic Decision-Making? Harry Collins' "Normative Theory of Expertise" in Historical Perspective*

*Philosophy of the Life Sciences I* (Platon)

Chair: Kenneth Waters

Kirsten Schmidt: *What Genes are not—The Postgenomic Gene as a Process Gene*

Christopher Pearson: *Description versus Explanation in Developmental Biology*

Maria Kronfeldner: *The Full Slate: Human Nature and Causation*

Emily Parke: *Lessons from Arsenic Bacteria? Methodology and Implications of the Search for Alternative Life Forms*

*Philosophy of Experimental Practice* (Omiros)

*Chair:* Pieter Vermaas

Sally Riordan: *The First Determination of the Kilogram, 1790-1799: A Fresh Look at the Theoretical-Observational Divide*

Sjoerd D. Zwart: *Models as Artifacts: The Neutrality Thesis for Engineering Models*

Roger Stanev: *The Justification of Statistical Decisions in Clinical Trials*

Efi Kyprianidou: *On the Nature of Scientific Photography: Questions of Representing and Viewing*

Sophia Efstathiou and Eric Silverman: *Conceptual Frameworks and Interdisciplinarity: Modelling Ageing Populations*

*Philosophy of Psychology and Psychiatry (Solon)*

*Chair:* Drakoulis Nikolinakos

Adela Roszkowski: *The Cognitive Impenetrability of Perception and the Theory-ladenness of Observation Debate*

Panagiotis Oulis: *Explanatory Coherence, Partial Truth and the Distinction Between Validity and Utility of Psychiatric Diagnosis*

Thomas Sturm: *Metacognition and the Rationality Debate in Psychology*

Matt Bateman: *Experimental Inquiry in Cognitive Neuroscience*

**19.30-20.30 Opening Reception** (Palamas Cultural Centre of the University of Athens)

**Thursday, October 6<sup>th</sup>**

**09.00-11.00 Parallel sessions**

Symposium: *Is there a Nature of the Chemical Bond?* (Hypatia)

*Chair:* Theodore Arabatzis

Michael Weisberg, Julia Bursten, Robin Hendry and Paul Needham

Symposium: *From Evolution to Development and Back: Towards a Developmental Theory* (Socrates)

*Chair:* Uskali Mäki

Lucie Laplane, Francesca Merlin, Antonine Nicoglou and Thomas Pradeu

*Philosophy of Quantum Mechanics I* (Aristotle)

*Chair:* Dennis Dieks

Laura Felline: *It's a Matter of Principle. Principle Reconstructions of QT and Their Contribution to the Understanding of the Quantum World*

Juan Sebastián Ardenghi, Olimpia Lombardi And Martín Narvaja: *Consecutive Measurements and Modal Interpretations*

Albert Solé: *The Redundancy Argument and the Many Interpretations of Bohmian Mechanics*

Richard Healey: *How to Use Quantum Theory Locally to Explain EPR-Bell Correlations*

*Mechanisms in Explanation* (Omiros)

*Chair:* Erik Weber

Eleanor Knox: *The Limits of Abstraction: Finding Space for Novel Explanation*

Jaakko Kuorikoski and Petri Ylikoski: *How Organization Explains*

Robert Richardson, Fred Boogerd and Frank Bruggeman: *Articulating Mechanisms*

Samuel Schindler: *Mechanistic Explanations: Asymmetry Lost*

*Philosophy of the Cognitive Sciences I* (Solon)

Chair: Eduard Machery

Lilia Gurova: *Principles vs. Mechanisms in Cognitive Science*

Lena Kästner: *Interventionism Cannot Cross*

Markus Eronen: *Pluralistic Physicalism and the Causal Exclusion Argument*

Emma Martín Álvarez, Paco Calvo and Angel Garcia Rodriguez: *Cognitive Mechanisms as Biological, not Physical Mechanisms*

**11.00-11.30** Coffee Break

**11.30-13.30 Parallel sessions**

Symposium: *Symmetries, Superselection and Statistics* (Hypatia)

Chair: Steven French

Adam Caulton, David Baker, Hans Halvorson, Klaas Landsman and Noel Swanson

Symposium: *The Reliability of Climate Model Predictions* (Socrates)

Chair: Roman Frigg

Katie Steele, Charlotte Werndl, Arthur Petersen, Jan Sprenger and Seamus Bradley

*Realism and Anti-realism I* (Aristotle)

Chair: Anjan Chakravartty

Emma Ruttkamp: *A Novel Defence of the Retrospective Nature of Reference*

Alberto Cordero: *Theory-parts for Realists*

Dean Peters: *Partial Realism, Anti-realism and Deflationary Realism: Can History Settle the Argument?*

Luca Tambolo: *The Normative Naturalist against the Pessimistic Induction*

*Science as Collective Knowledge* (Omiros)

Chair: Vasso Kindi

Hanne Andersen: *Acting out of Line: On Joint Accept and Unilateral Rescission in Scientific Groups*

Cyrille Imbert: *Collective Science: How not to Lose Scientific Understanding?*

Adam Toon: *Friends at Last? Distributed Cognition and the Cognitive/Social Divide*

Thomas Boyer: *Is a Bird in the Hand Worth Two in the Bush? Or, Whether Scientists Should Publish Intermediate Results*

*Philosophy of the Cognitive Sciences II* (Solon)

Chair: Lilia Gurova

Víctor Verdejo: *Computationalism, Connectionism, Dynamicism and Beyond: Looking For An Integrated Approach To Cognitive Science*

Norman Sieroka: *Neurophenomenology of Hearing: Relations to Intentionality and Time Consciousness*

Lieven Decock and Igor Douven: *Qualia Compression*

**13.30-15.00** Lunch (Women's Caucus meeting 14.00-15.00 — Socrates)

**15.00-16.30 Plenary lecture** (Apollon)

Chair: Fritz Stadler

Dan Sperber (Institut Jean Nicod, ENS)  
*The Argumentative Theory of Reasoning and its Relevance to the Study of Science*

**16.30-17.00** Tea Break

**17.00-19.00 Parallel sessions**

Symposium: *Can We Really Lewis the Laws of Nature?* (Hypatia)

Chair: Gerhard Schurz

Thomas Müller, Marcus Schrenk, Jesse Mulder and Carl Hoefer

Symposium: *Cognitive and Evolutionary Foundations of Human Sociality* (Socrates)

Chair: Matti Sintonen

Francesco Guala, Benoit Dubreuil, Christophe Heintz, Eduard Machery and Alejandro Rosas

*Philosophy of Quantum Mechanics II* (Aristotle)

Chair: Miklos Redei

Aristidis Arageorgis and Chrysovalantis Stergiou: *On Particle Phenomenology Without Particle Ontology: How Much Local is Almost Local?*

Foad Dizadji-Bahmani: *Why I am not an Everettian*

Iñaki San Pedro: *Freeing Free Will from Conspiracy*

Dunja Seselja and Christian Straßer: *Abstract Argumentation Applied to Scientific Debates*

*Local Epistemologies* (Omiros)

Chair: James MacAllister

Saana Jukola: *Defending the Social View on Objectivity*

Maria Cristina Amoretti and Niela Vassallo: *Situatedness and Objectivity: Scientific Knowledge without Standpoints*

Endla Lõhkivi: *Is Workplace Culture Relevant for Philosophy of Science? A Case Study on Physics and Humanities*

Jouni-Matti Kuukkanen: *I Am Knowledge: Get Me Out of Here! On Localism and the Universality of Science*

*Philosophy of Mathematics* (Solon)

Chair: Costas Dimitracopoulos

Demetra Christopoulou: *On a Double Aspect of Natural Numbers as Abstract Particulars and/or Universals*

Paola Cantu: *Kant and 20th Century Philosophy of Mathematics*

Mark Colyvan: *A Ricci Curvature Tensor by any Other Name*

**Friday, October 7<sup>th</sup>**

**09.00-11.00 Parallel sessions**

Symposium: *New Challenges for Philosophy of Science* (Hypatia)

Chair: Maria-Carla Galavotti

Raffaella Campaner, Theo Kuipers, Daniel Andler, Olav Gjelsvik and Roman Frigg

Symposium: *The Social Organization of Research and the Flow of Scientific Information* (Aristotle)

Chair: Rose-Mary Sargent

Rebecca Kukla, Justin Biddle, Torsten Wilholt, Bryce Huebner and Eric Winsberg

*Formal Philosophy of Science I* (Thales)

Chair: Jesús Zamora Bonilla

Ilkka Niiniluoto: *Models, Simulation, and Analogical Inference*

Petros Stefanias: *Theories and Abstract Model Theory*

Gustavo Cevolani, Vincenzo Crupi and Roberto Festa: *More Verisimilar Banking: A Novel Analysis of the Linda Paradox*

Doukas Kapantais: *Formal Intuitionistic Semantics for Fitch's Paradox*

*Models and Simulations in the Life Sciences* (Hippocrates)

Chair: Alex Broadbent

Sara Green: *Exploratory Models - Reverse Engineering in Systems Biology*

Bettina Schmietow and Lorenzo Del Savio: *Cells from Computers: from Ethics to Epistemology*

Tim Räs and Raphael Scholl: *Why Do We Model?*

Emanuele Serrelli: *Mendelian Population as a Model, Intended as a "Stable Target of Explanation"*

*Philosophy of Quantum Mechanics III* (Solon)

Chair: Vassilis Karakostas

Jonathan Bain: *CPT Invariance, the Spin-Statistics Connection, and the Ontology of Relativistic Quantum Field Theories*

Karim Bschrir, Michael Epperson and Elias Zafiris: *Decoherence: A View from Topology*

Gordon Purves: *Lies, Damn Lies, and Quantum Statistics: Confirmation and False Posits*

Mario Bacelar Valente: *Are Virtual Quanta Nothing but Formal Tools?*

**11.00-11.30** Coffee Break

**11.30-13.30** Parallel sessions

Symposium: *Lawish Generalizations in the Special Sciences* (Hypatia)

Chair: Robin Hendry

Craig Callender and Jonathan Cohen, Julian Reiss, Daniel Steel, Andreas Hüttemann and Alexander Reutlinger

*Philosophy of the Life Sciences II* (Aristotle)

Chair: Rebecca Kukla

Johannes Martens: *Altruism, Correlation and Causality*

Till Grüne-Yanoff: *Evolutionary Game Theory, Learning Dynamics and Mechanisms*

Marta Bertolaso: *An Apparent Circular Causality to Account for the Phenotypic Stability of the Organism: Insights From the Biology of Cancer*

Alex Broadbent: *A Theory of General Causation for Epidemiology*

*Philosophy of Space and Time I* (Thales)

Chair: Mauro Dorato

Adán Sus: *The Physical Significance of Symmetries and Conservation Laws*  
Erik Curiel: *On the Thermodynamical Character of Black Holes in Classical General Relativity*  
F.A. Muller: *Structuralism and Space-Time*

*Trust and Peer Review in Science* (Hippocrates)

Chair: Henk de Regt

Susann Wagenknecht: *Epistemic Trust: An Empirical Study in Natural Science*

Jeroen De Ridder: *Trust in Science: Nicety or Necessity?*

Laszlo Kosolovsky: *The Role of 'Peer Review' in Science: Exploring How and Why the IPCC Blundered on the Melting Rate of Himalayan Glaciers*

*Theories of Theories* (Solon)

Chair: Paul Hoyningen-Huene

Francesca Pero: *Actual Theorizing and the Model-Theoretic Account*

Rogier De Langhe: *The Problem of Kuhnian Rationality*

Chuang Liu: *A Critique of the Deflationary View on Scientific Representation*

Fabian Lausen: *Heuristic Reductionism and the Concept of a Research Directive*

**13.30-15.00** Lunch

**15.00-16.30** General Assembly Meeting (EPSA) (Platon)

**16.30-17.00** Tea Break

**17.00-19.00** Parallel sessions

Symposium: *Perspectives on Spontaneous Symmetry Breaking in and Beyond the Standard Model* (Hypatia)

Chair: Richard Healey

Arianna Borrelli, Koray Karaca, Michael Stöltzner and Simon Friederich

Symposium: *Modelling Social Aspects of Science* (Aristotle)

Chair: Ilkka Niiniluoto

Jesús Zamora Bonilla, Stephan Hartmann, Ryan Muldoon, J. McKenzie Alexander, and Gerhard Schurz

*Theories of Natural Kinds* (Thales)

Chair: Thomas Reydon

Elena Casetta: *Outlining a Unified Framework for Assessment of the Biodiversity*

Samuli Pöyhönen: *Should I Split or Should I Lump? The Epistemic-Tool Approach to Scientific Concept Formation*

Miles Macleod: *What Kind of Kinds are Homologies? Studying Homology Concepts as Significant Kinds*

*Realism and Anti-realism II* (Platon)

Chair: Andreas Hüttemann

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

Simon Fitzpatrick: *Doing Away with the No Miracles Argument: Realism, Empirical Success and Confirmation*

Paul Teller: *Coherent Scientific Realism*  
Murat Bac: *Natural Ontological Misrepresentation and Subtleties of Neo-Realism*

*Formal Philosophy of Science II* (Solon)

Chair: Theo Kuipers

Franz Huber: *How to Confirm Counterfactuals*

Wolfgang Pietsch: *The Limits of Probabilism*

Peter Brüssel: *The Significance of Confirmation*

**20.30-22.30 Conference Dinner**

**Saturday, October 8<sup>th</sup>**

**09.00-11.00 Parallel sessions**

Symposium: *Where to Draw the Line Between What's Real and Unreal in Biological Knowledge* (Hypatia)

Chair: Mark Colyvan

Marcel Weber, Kenneth Waters, Steven French and Holger Lyre

Symposium: *Technical Functions and Artefacts in Philosophy* (Aristotle)

Chair: Chrysostomos Mantzavinos

Wybo Houkes, Pieter Vermaas, Mieke Boon, Thomas Reydon and Erik Weber

*Epistemic Virtues and Theory Assessment* (Thales)

Chair: Alberto Cordero

Milena Ivanova: *Can Theoretical or Intellectual Virtues Solve the Problem of Underdetermination of Theory by Data?*

Kate Hodeson and Kit Patrick: *Is Theory Choice Using Epistemic Virtues Possible?*

Harvey Siegel: *Relativism and the Strong Programme Reconsidered*

Vincent Ardourel: *Strong Underdetermination of Theories by Data: The Case of Different Mathematical Formulations of a Scientific Theory*

*Pluralism and Reductionism* (Hippocrates)

Chair: Daniel Andler

Stéphanie Ruphy: *'Foliated' Pluralism: A Philosophically Robust Form of Ontologico-Methodological Pluralism*

Robert Kowalenko: *'Styles of Scientific Thinking Can Kill'*

Anjan Chakravartty: *Realism about Scientific Taxonomy*

Henrik Thorén: *What is an Interdisciplinary Problem?*

*Philosophy of the Social Sciences* (Solon)

Chair: Stephan Hartmann

Yulie Foka-Kavaliaraki and Aristides Hatzis: *Economics, Evolution, and the Brain: From Rational Choice Theory to Ecological Rationality*

Thomas Uebel: *Narratives and Action Explanation*

Uskali Mäki: *On the Performance of the Performativity Thesis*

Jan Faye: *How Do We Understand in Science?*

**11.00-11.30 Coffee Break**

### **11.30-13.30 Parallel sessions**

Symposium: *Emotion in Scientific Reasoning* (Hypatia)

Chair: Hanne Andersen

James MacAllister, Jeff Kochan, Lisa Osbeck, Nancy Nersessian and Sabine Roeser

*Ontology and Structural Realism* (Aristotle)

Chair: Antigone Nounou

Federico Laudisa: *Can There be a Truly 'Ontological' Scientific Naturalism?*

Mauro Dorato: *How to Combine (And not to Combine) Physics and Metaphysics*

Vincent Lam and Christian Wüthrich: *No Categorical Support for Radical Ontic Structural Realism*

Kerry Mckenzie: *'Humean Structuralism' About Laws*

*Theories of Natural Selection* (Thales)

Chair: Miles Macleod

Jonathan Everett: *Evolutionary Theory and Thermodynamics: The Role of Statistics*

David Crawford: *Probability Measures and Biological Fitness*

Fridolin Gross and Cecilia Nardini: *Is Natural Selection a Mechanism?*

Francis Cartieri: *Is Neo-Darwinism in Crisis? Lamarck and Epigenetic Inheritance*

*Reduction and Idealization in the Physical Sciences* (Hippocrates)

Chair: Mauricio Suarez

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

Mathias Frisch: *Incantations of 'Causation' and Other Philosophical Sins, Or: Rehabilitating Ritz*

Ave Mets: *Measurement Theory, Nomological Machine and Measurement Uncertainties (in Classical Physics)*

Iulian Toader: *The Dappling Effects of Idealization*

*Philosophy of Space and Time II* (Solon)

Chair: Vassilis Sakellariou

Lisa Leininger: *Presentism, Eternalism, and the Possibility of Temporal Becoming*

Daniel Wohlfarth: *A New View of "Fundamentality" for Time Asymmetries in Modern Physics*

Henrik Zinkernagel: *A Critical Note on Time in the Multiverse*

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

### **13.30-14.30 Lunch**

### **14.30-16.00 Springer Lecture in the Philosophy of Science** (Vergina)

Chair: Martin Carrier

Nancy Cartwright (LSE)

*Evidence, Argument and Mixed Methods*

### **16.00-16.30 Closing**