

Conference
The Future of Philosophy of Science



Tilburg, 14.04.2010 - 16.04.2010

Synopsis

Philosophy of science deals with the foundations and the methods of science. While the scope of philosophy of science is rather uncontroversial, there is considerable disagreement about its methodology. A look into the relevant journals reveals that there is a plurality of approaches. Some researchers use the traditional method of conceptual analysis, others engage in formal modeling, conduct case studies and 'more recently' experiments, or consult the history of science in considerable detail. Despite the differences in these approaches, there also seem to be undeniable trends in our discipline, such as the increasing specialization, and the increasing co-operation with empirical scientists and policy makers. This conference will explore the future of philosophy of science. In particular, we are interested in how the different methods philosophers of science use relate to each other, whether they can fruitfully complement each other, and whether current trends allow predictions about the development of our field. We invite contributions that combine cutting-edge individual research with a general perspective on the methods and future of philosophy of science.

Organizers:

Stephan Hartmann (TiLPS), Jan Sprenger (TiLPS), Mark Colyvan (Sydney), Paul Griffiths (Sydney)

Keynote Speakers

Michael Friedman (Stanford University), Christopher Hitchcock (California Institute of Technology), Hannes Leitgeb (Ludwig Maximilian University of Munich), Samir Okasha (University of Bristol)

Program

Wednesday 14.04

10:00 - 10:45

10:45 - 11:00

11:00 - 11:30

Plenary session 1

Chair: Stephan Hartmann

11:00 - 12:15

12:15 - 01:30

Parallel sessions 1

Room DZ 005

13:30 - 13:45

Chair: Christopher Hitchcock

William BECHTEL: *“Understanding Endogenously Active Biological Mechanisms: A Philosophical Challenge”*

02:15 - 03:00

Alexander REUTLINGER: *“Non-Reductive Conceptual Analysis and Causal Modeling”*

03:00 - 03:30

Parallel session 2

Room DZ 005

Chair: Chiara Liscandra

03:30 - 04:15

Paul TELLER: *“How will philosophy of science treat explanation and confirmation?”*

Registration

Welcome and Introduction

Coffee break

Michael FRIEDMAN: *“A Post-Kuhnian Approach to History and Philosophy of Science”*

Lunch

Room DZ 006

Chair: Mark Colyvan

Matteo COLOMBO: *“Are Emotions the Ultimate Motives of Social Norm Compliance?”*

Chiara LISCIANDRA and Ryan MULDOON: *“On the Emergence of Social Norms: The Standing Ovation Problem”*

Coffee

Room DZ 006

Chair: Jonah Schupbach

Vincenzo CRUPI and Katya TENTORI: *“Epistemology ’ Formal and Empirical: Bayesian Confirmation Theory as a Case-Study”*

Room DZ 007

Chair: Alfred Nordmann

Jeongmin LEE: *“Bohr’s Transcendental Philosophy and the Birth of Quantum Mechanics”*

04:15 - 05:00

Anna LEUSCHNER: *“The Repoliticization of Philosophy of Science. On the Debate Between Helen Longino and Philip Kitcher”*

Jan-Willem ROMEIJN: *“Interventions: A Case Study in Formalisation”*

Michael STOELTZNER: *“Philosophy of Science Between Rigorous Method and Interdisciplinarity”*

05:00 - 05:15

Coffee

Plenary session 2

Chair: Mark Colyvan

05:15 - 06:30

Hannes LEITGEB: *“How to Reconcile General Philosophy of Science with Bayesianism: Reducing Belief Simpliciter to Degrees of Belief”*

Reception

06:30

Thursday 15.04

Parallel session 3

Chair: Stephan Hartmann

09:15 - 10:00

Ronald GIERE: *"Reflections on the Future of the Philosophy of Science, 2.0"*

10:00 - 10:45

Eran TAL: *"The Science of Measurement: Towards an Epistemology of Metrology"*

10:45 - 11:15

Parallel session 4

Room DZ 10

11:15 - 12:00

James JUSTUS: *"Explicative Definition: Defending Carnap on Concept Determination"*

12:00 - 12:45

Matteo COLLODEL: *"Carnap's Way Between Philosophy and Science: Understanding the Past to Illuminate the Future of the Philosophy of Science"*

12:45 - 02:15

Parallel session 5

Chair: William Bechtel

02:15 - 03:00

Paul FRANCO: *"Genetic and Structural Philosophies of Science"*

03:00 - 03:45

Alirio ROSALES: *"Between Narratives and Equations: Rethinking Fisher and Wright"*

Chair: Jan Sprenger

Fabien MEDVECKY: *"Economic Discounting at the Science-Policy Interface: A Fertile Ground for Philosophical Inquiry"*

Francis CARTIERI: *"Extending the Philosophy of Science: Forecasting and Science Policy"*

Coffee

Room DZ 6

Catarina DUTILH NOVAES: *"Formal Methods in Science as a Counterbalance to Confirmation Bias"*

Jonah SCHUPBACH: *"Comparing Probabilistic Measures of Explanatory Power"*

Lunch

Chair: Christopher Hitchcock

Jan SPRENGER: *"The Problem of Sound Inductive Inference: Bayesian Philosophers vs. Frequentist Scientists"*

Woosuk PARK: *"Friedman on Implicit Definition: In Search of the Hilbertian Heritage in Philosophy of Science"*

03:45 - 04:30

Matthew SLATER: *“Meta-
physics of Species for those
Afraid of Commitment”*

Mark COLYVAN: *“Philosophy of
Mathematics as Philosophy of Sci-
ence”*

04:30 - 05:15

Coffee

Plenary session 3

Chair: Jan Sprenger

05:15 - 06:30

Christopher HITCHCOCK:
*“Intuitions, Experiments, and
Analysis”*

07:30

Conference Dinner

Friday 16.04

Parallel session 6

Room DZ 7

Chair: Mark Colyvan

09:30 - 10:15

Jeroen VAN BOUWEL: *“Encompassing the Role of Values in Science and Expertise Using Models of Democracy: Plurality, Objectivity, and Responsibility”*

10:15 - 11:00

Leen DE VREESE, Erik WEBER and Jeroen VAN BOUWEL: *“The Primacy of Philosophy of Scientific Practice and its Consequences for General Philosophy of Science”*

11:00 - 11:30

Parallel session 7

Room DZ 6

Chair: Eran Tal

11:30 - 12:15

Alfred NORDMANN: *“Philosophies of Technology”*

12:15 - 13:00

Astrid SCHWARZ: *“Dynamics in the Formation of Ecological Knowledge”*

01:00 - 02:15

Room DZ 8

Chair: Michael Friedman

Paul GRIFFITHS: *“Conceptual Analysis and the Philosophy of Science”*

Massimo PIGLIUCCI: *“On the Scope and Future of Philosophy of Science”*

Coffee

Room DZ 8

Chair: William Bechtel

Foad DIZADJI-BAHMANI, Roman FRIGG and Stephan HARTMANN: *“Confirmation and Reduction: A Bayesian Account”*

Kristina LIEFKE: *“The Linguistic Challenge for Reduction”*

Lunch

Parallel session 8

Room DZ 6

Chair: Paul Griffiths

02:15 - 03:00

Maria JIMENEZ-BUEDO: *“Conceptual Tools for Assessing Experiments: The Notions of Internal and External Validity and Some of their Problems”*

03:00 - 03:45

António ZILHAO: *“Self-Defeating Action and Hyperbolic Discounting”*

03:45 - 04:15

Plenary session 4

Room DZ 4

Chair: Paul Griffiths

04:15 - 05:15

05:15 - 06:30

Room DZ 8

Chair: Ronald Giere

Sebastian LUTZ: *“Ideal Language Philosophy of Science”*

Thomas MÜLLER: *“Philosophy of Science and the Landscape of Modalities”*

Coffee

Round Table on the Future of Philosophy of Science

Samir OKASHA: *“Why does Darwin Matter for Philosophy?”*

Room DZ 10

Chair: Carlo Martini

Markus ERONEN: *“The Future of Psychoneural Reduction: A Defense of Pluralism”*

Kathryn PLAISANCE and Carla FEHR: *“Philosophers Responding to Controversial Science: Lessons from Evolutionary Psychology and Behavioral Genetics”*

Acknowledgement

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