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 Registration
10:45 - 11:00 Welcome and Introduction
11:00 - 11:30 Coffee break

Plenary session 1
Chair: Stephan Hartmann
11:00 - 12:15 Michael FRIEDMAN: “A Post-Kuhnian Approach to History and Philosophy of Science”

12:15 - 01:30 Lunch

Parallel sessions 1
Room DZ 005 Room DZ 006
13:30 - 13:45 Chair: Christopher Hitchcock Chair: Mark Colyvan
William BECHTEL: “Understanding Endogenously Active Biological Mechanisms: A Philosophical Challenge”
Matteo COLOMBO: “Are Emotions the Ultimate Motives of Social Norm Compliance?”

02:15 - 03:00
Chiara LISCIA ANDRA and Ryan MULDOON: “On the Emergence of Social Norms: The Standing Ovation Problem”

03:00 - 03:30 Coffee

Parallel session 2
Room DZ 005 Room DZ 007 Room DZ 007
Chair: Chiara Lisciandra Chair: Jonah Schupbach Chair: Alfred Nordmann
03:30 - 04:15 Paul TELLER: “How will philosophy of science treat explanation and confirmation?”
Vincenzo CRUPI and Katya TENTORI: “Epistemology Formal and Empirical: Bayesian Confirmation Theory as a Case-Study”
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”

06:30 Reception
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
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”

10:00 - 10:45
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”
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: “Metaphysics of Species for those Afraid of Commitment”
Mark COLYVAN: “Philosophy of Mathematics as Philosophy of Science”

04:30 - 05:15
Coffee

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
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
Coffee

Parallel session 7
Room DZ 6
Chair: Eran Tal
11:30 - 12:15
Alfred NORDMANN: “Philosophies of Technoscience”
12:15 - 13:00
Astrid SCHWARZ: “Dynamics in the Formation of Ecological Knowledge”
01:00 - 02:15
Lunch

Room DZ 8
Chair: Michael Friedman
09:30 - 10:15
Paul GRIFFITHS: “Conceptual Analysis and the Philosophy of Science”
10:15 - 11:00
Massimo PIGLIUCCI: “On the Scope and Future of Philosophy of Science”
11:00 - 11:30
Coffee

Room DZ 8
Chair: William Bechtel
11:30 - 12:15
Foad DIZADJI-BAHMANI, Roman FRIGG and Stephan HARTMANN: “Confirmation and Reduction: A Bayesian Account”
12:15 - 13:00
Kristina LIEFKE: “The Linguistic Challenge for Reduction”
01:00 - 02:15
Lunch
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>02:15 - 03:00</td>
<td>Maria Jiménez-Buedo</td>
<td>“Conceptual Tools for Assessing Experiments: The Notions of Internal and External Validity and Some of their Problems”</td>
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<tr>
<td>03:00 - 03:45</td>
<td>António Zilhao</td>
<td>“Self-Defeating Action and Hyperbolic Discounting”</td>
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<td>03:45 - 04:15</td>
<td>Thomas Müller</td>
<td>“Philosophy of Science and the Landscape of Modalities”</td>
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<td>04:15 - 05:15</td>
<td>Samir Okasha</td>
<td>“Why does Darwin Matter for Philosophy?”</td>
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<td>05:15 - 06:30</td>
<td>Kathryn Plaisance and Carla Fehr</td>
<td>“Philosophers Responding to Controversial Science: Lessons from Evolutionary Psychology and Behavioral Genetics”</td>
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Acknowledgement

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