





Institut Wiener Kreis Fakultät für Philosophie und Bildungswissenschaft

## Integrated June 26-28, 2014 History & Philosophy of Science Fifth Conference

## **Thursday June 26**

9.00 - 9.10:

**Welcome and Opening:** 

**Elisabeth Nemeth** 

(Dean of Faculty of Philosophy and Education)

John D. Norton

(University of Pittsburgh, Co-Conveners & HPS Committee)

Friedrich Stadler

(Institute Vienna Circle and Local Organizers)

9.10 - 9.50:

**Anjan Chakravartty** (University of Notre Dame)

"A Case Study of Case Studies:

Scientific Realism and Integrated HPS"

9.50 - 10.30:

Klodian Coko (Indiana University)

"Jean Perrin and the Philosophers' Stories: A Case Study on the Role of Case Studies in &HPS"

10.50 - 11.30:

Katherina Kinzel (University of Vienna)

"Narrative and Evidence: On the Role of Historical Case Studies in the Philosophy of Science"

11.30 - 12.10:

Mauricio Suarez (University of Madrid)

"The Modelling Attitude and its Roots in 19th Century Science"

12.10 - 12.50:

Richard Staley (University of Cambridge)

"Beyond the Conventional Boundaries of Physics":

On Relating Ernst Mach's Philosophy to his Teaching and Research in the 1870s and 1880s"

14.00 – 15.20: Symposium 1:

Scientific Discovery: Historical and Philosophical Dimensions

14.00 - 14.40:

Thomas Nickles (University of Nevada)

"Scientific Discovery and the End-of-History Fallacy"

14.40 - 15.20:

Samuel Schindler (Aarhus University)

"Scientific Discovery: That-what's and What-that's"

(University of Bern, Ludwig-Maximilians-Universität,

"Why the Dilemma of Case Studies Misses the Point:

**Towards an Explicit Methodology for Integrated History** 

15.20 - 16.00:

Richard Creath (Arizona State University) "The Unity of Science: Two Hundred Years of Controversy"

16.20 - 17.00:

Alan Shapiro (University of Minnesota) Raphael Scholl, Kärin Nickelsen, Tim Räz

Friedrich Steinle (Technische Universitaet Berlin)

ntegrated &HPS5 Program Committee

Theodore Arabatzis (University of Athens

Bernadette Bensaude-Vincent (Sorbonne)

ed Buchwald (California Institute of Technology)

**Don Howard (University of Notre Dame)** 

**Co-Conveners** 

John D. Norton (University of Pittsburgh)

**Local Organizers** 

Martin Kusch (Department of Philosophy)

(Dean of Faculty of Philosophy and Education)

**Friday June 27** 

9.00 - 9.40:

Jutta Schickore (Indiana University)

"'Control(led) Experiments' in

Historical and Philosophical Perspective"

9.40 - 10.20:

Monica Solomon (University of Notre Dame)

"Retreading the Path of Science: The Case of Independent Motions"

10.40 - 11.20:

Teru Miyake

(Nanyang Technological University)

"Scientific Inference and the Earth's Interior: Harold Jeffreys and Dorothy Wrinch at Cambridge"

11.20 - 12.00:

Laura Georgescu (Ghent University)

"Experiments and Concepts in Gilbert's De magnete"

12.00 - 12.40:

Thomas Uebel (University of Manchester)

"Values, Facts and Methodologies:

A Case Study in Philosophy of Economics"

14.00 - 14.40:

Amy A. Fisher (University of Puget Sound)

"Reconsidering Priestley's Defense of Phlogiston"

14.40 - 15.20:

Haixin Dang (University of Pittsburgh)

"William Henry Bragg and the Nature of X-Rays"

15.20 - 16.00:

**Grant Fisher and Buhm Soon Park** 

(Korea Advanced Institute of Science and Technology [KAIST])

"Checks-and-balances: Orbital Symmetry and Quantitative Methods in Late Twentieth Century Quantum Chemistry"

16.20 - 17.00:

Alan Chalmers (University of Sydney)

"Qualitative Novelty and the Scientific Revolution:

The Emergence of the Concept of Pressure"

17.00 – 17.40:

Henk W. de Regt (VU University Amsterdam) "Kelvin's Dictum Revived: The Intelligibility of Mechanisms"

18.00 - 19.00

**Invited lecture:** 

Jürgen Renn

(Max Planck Institute for the History of Science Berlin)

"On the Evolution of Knowledge:

From Cooperative Action to Science"

**Saturday June 28** 

9.00 - 9.40:

Ann-Sophie Barwich (Konrad Lorenz Institute) "Sensing the Unknown: Historicising the

Discoverability of the Olfactory Receptors within the Life on an Experimental System"

9.40 - 10.20:

**Guido Caniglia** (Arizona State University)

"Mathematical Theory, Natural Experiments and Ovarian Dissections: The Epistemology of Hamilton's Work on Tropical Social Wasps (1963-1968)"

10.40 – 12.40: Symposium 2:

Introspection and the Problem of the Stimulus-Error:

**Historical and Contemporary Debates** 

10.40 - 11.20:

**Uljana Feest** (Max Planck Institute for Human Development) "Stimulus Error and the Red Herring of Introspection"

11.20 - 12.00: Gary Hatfield (University of Pennsylvania)

"The Stimulus Error and Experimental Design:

The Manipulation of Perceptual 'Set'"

12.00 – 12.40:

Mazviita Chirimuuta (University of Pittsburgh)

"The Stimulus-Error, 'Equivocal Correlation' and Perceptual Constancy"

14.00 – 14.40:

Axel Gelfert and Jacob Mok (National University of Singapore) "Styles of Reasoning in Biology:

The Case of Models in Membrane and Cell Biology"

14.40 - 15.20:

Laura Nuño de la Rosa (Konrad Lorenz Institute)

"The Taxonomical and the Morphological Concepts of Type: Back to Aristotle"

15.20 - 16.00:

Joeri Witteveen (Utrecht University) "Negotiating a Causal-historical Theory of Reference:

The Emergence of the 'Type Method' in 19th Century Biological Taxonomy"

16.20 – 17.00: Dunja Šešelja and Christian Straßer (Ghent University) "Heuristic Reevaluation of the Bacterial Hypothesis

17.00 – 17.40: Mathieu Charbonneau (Konrad Lorenz Institute)

"Mechanical Molecular Models and Haptic Reasoning"

17.40 - 18.20: **Daniel J. Nicholson and Richard Gawne** 

of Peptic Ulcer Disease in the 1950s"

(University of Exeter, Duke University)

"Neither Logical Empiricism nor Vitalism, but Organicism: What the Philosophy of Biology Was"

18.40 - 19.40

**Invited lecture:** Jean Gayon (Sorbonne)

"Natural Selection vs. Descent with Modification: What Comes First? Reflections on Darwin and Sober"

17.00 - 18.00:

University of Lausanne)

and Philosophy of Science"

Jane Maienschein (Arizona State University) "Looking at Cells around 1900: Seeing Complex Systems"