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&HPS1 Program

revised 10/9/07

Conference in Integrated History and Philosophy of Science

Thursday, 11 October - Sunday, 14 October 2007

Center for Philosophy of Science

University of Pittsburgh

Conference Preprints at [philsci-archive](#)

Thursday, 11 October 2007

Afternoon

Holiday Inn Select, Carnegie Room

1:00-1:15 Don Howard and John D. Norton
Introductory Remarks

1:15-3:30 **Thematic Session:** *Evidence in Theory and Practice*

Chair: Robert Rynasiewicz

Moderator: Michela Massimi

Peter Achinstein

Atom's Empirical Eve: Methodological Disputes and How to Evaluate Them

Michela Massimi

From Duhem to van Fraassen: The Empiricist Tradition of 'Saving the Phenomena' against Galileo's Mathematization of Nature

John D. Norton

Einstein's Miraculous Argument (preprint)

3:30-4:00 Break

4:00-5:30 Chair: Peter Achinstein
Jutta Schickore
Genres of Justification (preprint)
Heather Douglas-cancelled
Roles for Values in Science

5:30-6:00 Break

6:00-7:30 Introduction: James Maher, Provost, University of Pittsburgh
Ernan McMullin
Sage Lecture: *On Integrated History and Philosophy of Science*
(preprint)
Chair: Don Howard

Friday, 12 October 2007

Morning

All talks in G24 Cathedral of Learning

8:00 - 9:00 Continental Breakfast
817 Cathedral of Learning, Center for Philosophy of Science

9:00-11:15 Chair: Jed Buchwald

- Aris Spanos
The Discovery of Argon: A Case for Error-Statistical Reasoning
Bernadette Bensaude-Vincent
Chemistry: An Ontology-Free Science? (preprint)
Anouk Barberousse
A Case of Irrationality? (preprint)
- 11:15-11:45 Coffee Break
817 Cathedral of Learning, Center for Philosophy of Science
- 11:45- 1:15 Chair: Richard Creath
Mary Domski
The God of Geometry, The God of Matter: The Connection Between Descartes's Math and Metaphysics (preprint)
Delphine Bellis
Cartesian Corpuscular Models and Their Potential Impact on Microscopy
- 1:15- 2:30 Lunch Break
- Afternoon
All talks in G24 Cathedral of Learning
- 2:30-4:00 **Thematic Session: Historical and Philosophical Considerations of Newton's Mechanics**
Moderator and Chair: Alan Shapiro
Chris Smeenk/George Smith
Measurement and Limits in the Principia, X
Andrew Janiak
Integrating H and P of S: Newton
- 4:00-4:30 Coffee Break
817 Cathedral of Learning, Center for Philosophy of Science
- 4:30-6:45 Chair: Paolo Palmieri
William R. Shea
Galileo Now and Then (preprint)
Giora Hon/Bernard R. Goldstein
The Law of the Lever According to Mach: Historically and Critically Presented
Amit Hagar
Length Matters: The Einstein-Swann Correspondence and the Constructive Approach to Special Relativity (preprint)

Saturday, 13 October 2007

Morning

All talks in G24 Cathedral of Learning

- 8:00 - 9:00 Continental Breakfast
817 Cathedral of Learning, Center for Philosophy of Science
- 9:00 -10:30 **Thematic Session: Scientific Experimentation I**
Chair: Jutta Schickore
Moderator: Bill Newman and Jutta Schickore
Koray Karaca
A Case Study in the Philosophy of Scientific Experimentation: Electron-Proton Inelastic Scattering Program in High Energy Particle Physics (preprint)
James Marcum

Newton 's Experimentum Crucis vs. Goethe's Series of Experiments: Implications for the Underdetermination Thesis (preprint)

10:30-11:00 Coffee Break
817 Cathedral of Learning, Center for Philosophy of Science

11:00-12:30 **Thematic Session: *Scientific Experimentation II***
Chair: Bill Newman
Moderator: Bill Newman and Jutta Schickore
Nico Bertoloni-Meli
A Lofty Mountain, Putrefying Flesh, Styptic Water, and Germinating Seeds: Methodological Reflections on Experimental Procedures from Pascal and Perier to Redi and Beyond
Paolo Palmieri
Experimental History of Science: Galileo's Experiments with Pendulums (preprint)

12:30- 2:00 Lunch Break and Experimental HPS Lab visit

Afternoon
All talks in G24 Cathedral of Learning

2:00- 4:15 **Thematic Session: *Beyond Case Studies***
Chair: Alan Chalmers
Moderator: Hasok Chang
Hasok Chang
Beyond Case Studies: History as Philosophy (preprint)
Theodore Arabatzis
Hidden Entities and Experimental Practice: Towards a Two-way Traffic Between History and Philosophy of Science (preprint)
Melinda Fagan
Integrative Pragmatism and Scientific Inquiry (preprint)

4:15- 4:45 Coffee Break
817 Cathedral of Learning, Center for Philosophy of Science

4:45- 6:15 Chair: Lindley Darden
Hanne Andersen
History and Philosophy of Modern Epidemiology
Alan Love
Consequences of an intelligent discussion about design with Darwin: Asa Gray's evolving perspective on teleology and natural theology

6:45- 9:00 Conference Dinner

Sunday, 14 October 2007

Morning
All talks in G24 Cathedral of Learning

8:00- 9:00 Continental Breakfast
817 Cathedral of Learning, Center for Philosophy of Science

9:00-11:00 **Panel Discussion Questions**
Chair: Jim Bogen
Why Integrate the History and Philosophy of Science?

11:00-11:30 Coffee Break
817 Cathedral of Learning, Center for Philosophy of Science

11:30-12:30 Introduction: Ernan McMullin, O'Hara Professor of Philosophy
Emeritus, University of Notre Dame
Peter K. Machamer
Seer Lecture: *The Future of Integrated History and Philosophy
of Science*
Chair: Sandra Mitchell

Local Program Committee

Peter Gildenhuys, Center for Philosophy of Science and History and
Philosophy of Science

John D. Norton, Center for Philosophy of Science and History and
Philosophy of Science

Paolo Palmieri, History and Philosophy of Science

James Tabery, Center for Philosophy of Science; History and Philosophy
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