**&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

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>1:00-1:15</td>
<td>Don Howard and John D. Norton</td>
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<td>Introductory Remarks</td>
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<td>1:15-3:30</td>
<td><strong>Thematic Session: Evidence in Theory and Practice</strong></td>
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<td>Chair: Robert Rynasiewicz</td>
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<td>Moderator: Michela Massimi</td>
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<td>Peter Achinstein</td>
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<td><em>Atom's Empirical Eve: Methodological Disputes and How to Evaluate Them</em></td>
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<td>Michela Massimi</td>
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<td><em>From Duhem to van Fraassen: The Empiricist Tradition of 'Saving the Phenomena' against Galileo's Mathematization of Nature</em></td>
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<td>John D. Norton</td>
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<td><em>Einstein's Miraculous Argument</em> (preprint)*</td>
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<td><strong>Break</strong></td>
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<td>3:30-4:00</td>
<td><strong>Break</strong></td>
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<td>4:00-5:30</td>
<td><strong>Chair: Peter Achinstein</strong></td>
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<td>Jutta Schickore</td>
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<td><em>Genres of Justification</em> (preprint)*</td>
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<td>Heather Douglas-cancelled</td>
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<td><em>Roles for Values in Science</em></td>
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<td>5:30-6:00</td>
<td><strong>Break</strong></td>
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<td>6:00-7:30</td>
<td><strong>Introduction: James Maher, Provost, University of Pittsburgh</strong></td>
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<td>Ernan McMullin</td>
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<td><em>Sage Lecture: On Integrated History and Philosophy of Science</em> (preprint)*</td>
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<td>Chair: Don Howard</td>
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### Friday, 12 October 2007

**Morning**
All talks in G24 Cathedral of Learning

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:00 - 9:00</td>
<td><strong>Continental Breakfast</strong></td>
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<tr>
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<td>817 Cathedral of Learning, Center for Philosophy of Science</td>
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<tr>
<td>9:00-11:15</td>
<td><strong>Chair: Jed Buchwald</strong></td>
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</table>
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  
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 of Science; and University of Utah  

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