

# 6th Biennial Conference of the Society for Philosophy of Science in Practice (SPSP) Rowan 2016

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## Full Program

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### Thursday, 16 June 2016

- 9:30am-2:00pm  **Pre-Conference Workshop: Empirical Methodology for Philosophy of Science** (Enterprise 409)
- 7:00pm-10:00pm  **Pre-Conference Informal Gathering** (Landmark Americana Tap & Grill)

### Friday, 17 June 2016

- 8:30am-9:00am  **Continental Breakfast & Coffee** (Eynon Anteroom)
- 9:00am-10:10am  **Plenary I - Julie Nelson, "Critiquing the Foundations of Economics, and Why It Matters"** (Eynon Ballroom)  
*Session Chair: Joe Rouse*
- 10:10am-10:30am  **Coffee Break** (Eynon Anteroom)

#### CONCURRENT SESSIONS I

<input checked="" type="checkbox"/> <b>Symposium - Repertoires: Dynamics of Scientific Collaboration in the Life Sciences</b> <i>Session Chair: Hanne Andersen</i> <i>Session Description: Sabina Leonelli; Rachel Ankeny</i> <i>The Functions Of Repertoires In Scientific Research</i> <i>Rachel Ankeny; Sabina Leonelli</i> <i>Repertoires Integrate Platforms And Research Programs</i> <i>Elihu Gerson; Alok Srivastava</i> <i>Emerging Model Organisms, Platform</i>	<input checked="" type="checkbox"/> <b>Contributed Papers - Instruments and Data</b> <i>Session Chair: Mieke Boon</i> <i>On The Application Of Science To Science Itself: Chemistry, Instruments, And The Scientific Labor Process</i> <i>George Borg</i> <i>The Evolution Of Instruments For Empirical Investigation: Choosing Between The Material And The Algorithmic Options</i> <i>Vincent Israel-Jost</i> <i>If You Go Too Far Western, You</i>	<input type="checkbox"/> <b>Contributed Papers - Issues in the Social Sciences</b> <i>Session Chair: Michael Stuart</i> <i>Ontological Investigations And Social Scientific Practice</i> <i>Simon Lohse</i> <i>Bias And Social Science Experiments</i> <i>Sharon Crasnow</i> <i>Using Philosophy Of Statistics To Make Progress In The Replication Crisis In Psychology</i> <i>Deborah Mayo; Caitlin Parker</i>	<input type="checkbox"/> <b>Symposium - Philosophy of Autism</b> <i>Session Chair: Abigail Gosselin</i> <i>Session Description: Jami L. Anderson; Ruth J. Sample; Susan V. H. Castro</i> <i>Self Identities And Self Diagnoses</i> <i>Jami L. Anderson</i> <i>Does Autism Spectrum Disorder Have A Gender?</i> <i>Ruth J. Sample</i> <i>Autism: A Kantian Imagination-based Theory</i> <i>Susan V. H. Castro</i>	<input type="checkbox"/> <b>Contributed Papers - Diverse Modeling Practices</b> <i>Session Chair: Emmanuele Ratti</i> <i>Animal Models Of Pain And The Puzzle Of Similarity</i> <i>Nina Atanasova</i> <i>Experimentation On Analogue Models</i> <i>Susan Sterrett</i> <i>There And Back Again: Comparative Resituation Of Models Between Ecology And Political Economy</i> <i>Jason Oakes</i>
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<i>Development And Repertoire Acquisition</i> Christopher DiTeresi	<i>Can't Trust Your Data Anymore</i> Stephan Guttinger			
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12:00pm-1:30pm

**Lunch** (Rowan Marketplace)

1:30pm-3:00pm

**CONCURRENT SESSIONS II**

<input type="checkbox"/> <b>Symposium - Diverse Practices with Model Organisms</b> <i>Session Chair: Rachel Ankeny</i> <i>Session Description: William Bechtel</i> <i>An Ethnographic Approach To Integrating Perspectives On Model Organisms</i> Rebecca Hardesty <i>The Epistemic Role Of Model Organisms In Biomedicine</i> Veli-Pekka Parkkinen <i>Developing Model Organisms For Model Organisms In The Study Of Sleep</i> William Bechtel	<input type="checkbox"/> <b>Symposium - Replication and Evidence: A Tenuous Relationship</b> <i>Session Chair: Deborah Mayo</i> <i>Session Description: Brian D. Earp; Veronica J. Vieland; Stuart Firestein</i> <i>What Kind Of Crisis Is Psychology (supposedly) In?</i> Brian D. Earp <i>Replication, Evidence, And Statistical Practice</i> Veronica J. Vieland <i>Replicate That...</i> Stuart Firestein	<input type="checkbox"/> <b>Contributed Papers - Organization and Engineering in Cognitive and Biological Sciences</b> <i>Session Chair: Jessey Wright</i> <i>Organizing Principles In Neuroanatomical And Physiological Practice</i> Philipp Haueis <i>From Neural Engineering To Scientific Understanding</i> Maria Serban	<input type="checkbox"/> <b>Contributed Papers - Citizen Science and Democratisation</b> <i>Session Chair: Henk de Regt</i> <i>Ebirding, Conservation, And Mapping The Moral Terrain Of Science At A Smaller Scale</i> Jon Rosenberg <i>Democracy And Planetary Defense: Involving Citizens In Technical Decisions Through Participatory Technology Assessment</i> David Tomblin; Zachary Pirtle <i>Trust, Objectivity, And The Democratisation Of Science</i> Inkeri Koskinen	<input type="checkbox"/> <b>Contributed Papers - Realism and Truth</b> <i>Session Chair: Joe Rouse</i> <i>Stability And Scientific Realism: The Coming Of Age Of Perturbation Theory</i> Massimiliano Badino <i>Pragmatist Coherence As The Source Of Truth And Reality</i> Hasok Chang <i>Residual Phenomena And The Mechanism Of Deep Earthquakes</i> Teru Miyake
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3:00pm-3:30pm

**Coffee Break** (4th and 5th Floor Enterprise)

3:30pm-5:30pm

**CONCURRENT SESSIONS III**

<input type="checkbox"/> <b>Symposium - In Pursuit of History</b> <i>Session Chair: Sabina Leonelli</i> <i>Session Description: Chiara Ambrosio</i> <i>"each Chief Step In Science Has Been A Lesson In Logic": (pragmaticist) Lessons From Peirce's History Of Science</i> Chiara Ambrosio	<input type="checkbox"/> <b>Contributed Papers - Understanding and Discovery</b> <i>Session Chair: Mieke Boon</i> <i>An Ethnography Of Scientific Imagination</i> Michael Stuart <i>Mechanism Discovery And Design</i> <i>Explanation: Where Causal Role Meets Biological Advantage</i> Function	<input type="checkbox"/> <b>Contributed Papers - Molecular Sciences</b> <i>Session Chair: Andrea Woody</i> <i>Articulating Organic Chemistry Into Structural Biochemistry</i> William Goodwin <i>Biochemistry Research Programs Through The 20th Century Use</i>	<input type="checkbox"/> <b>Contributed Papers - Disease and Diagnosis in Psychiatry and Medicine</b> <i>Session Chair: Nina Atanasova</i> <i>A Pragmatist Interpretation Of Schizophrenia</i> Abigail Gosselin <i>On The General Concept Of Mental Disorder And The Subordinate</i>	<input type="checkbox"/> <b>Contributed Papers - Issues in Social Epistemology</b> <i>Session Chair: Hanne Andersen</i> <i>Individual Vs. Collective Justification: What Happens In Research Groups?</i> Haixin Dang <i>Defending Limited Non-deference To</i>
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<a href="#">Between The Empty And The Blind: N. R. Hanson's Historiography Of Science</a> Matthew Lund	Dingmar van Eck; Julie Mennes ----- <a href="#">Discovery: Abduction In Everyday Practice Of Science</a> Frederick Grinnell	<a href="#">A Dual-column Programmatic Practice To Resolve And Reconstitute The Molecular Economy Of A Biological Activity</a> Alok Srivastava ----- <a href="#">On The Distinction Between 'models Of' And 'models For' In Molecular Biology</a> Emanuele Ratti ----- <a href="#">Multiscale Modeling In Nanoscience: Beyond Non-mereological Relations</a> Julia Bursten	<a href="#">Concepts Of Individual Disorders In Dsm-v</a> Maria Cristina Amoretti; Elisabetta Lalumera ----- <a href="#">Philosophical And Historical Perspectives On The Diagnosis Of Non-accidental Head Injury In Infants</a> Nicholas Binney ----- <a href="#">Explanatory Agnosticism In Translational Medicine</a> Spencer Hey; James Overton	<a href="#">Science Experts</a> Lawrence Lengbeyer ----- <a href="#">Big Data And The Evaluation Of Experts</a> Darcy McCusker
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6:00pm-7:30pm

**Dr. Lacovara's Fossil Lecture and Exhibit** (Eynon Ballroom)

7:30pm-9:30pm

**Book Fair**

**Dinner Reception**

## Saturday, 18 June 2016

8:30am-9:00am

**Continental Breakfast & Coffee** (4th and 5th Floor Enterprise)

9:00am-11:00am

### CONCURRENT SESSIONS IV

<input type="checkbox"/> <b>Symposium - Inductive and Other Epistemic Risks in Research: Conceptual Explorations</b> Session Chair: <a href="#">Henk de Regt</a> ----- Session Description: <a href="#">Torsten Wilholt</a> <a href="#">Expanding Epistemic Risk</a> Justin B. Biddle; Rebecca Kukla ----- <a href="#">Inductive Risk, Wishful Thinking, And Practical Reason</a> Matthew J. Brown ----- <a href="#">Risk, Judgments, And Objectivity In</a>	<input type="checkbox"/> <b>Contributed Papers - Simulation and Modeling in the Physical Sciences</b> Session Chair: <a href="#">Julia Bursten</a> ----- <a href="#">The Use Of Simulation Models In The Atlas</a> <a href="#">Experiment At Cern's Large Hadron Collider: Implications For Model-based Experimentation</a> Koray Karaca ----- <a href="#">Identifying Skills Of Mathematical Modelling And Computational Simulations</a> Brandon Boesch <a href="#">Philosophically</a>	<input type="checkbox"/> <b>Contributed Papers - Concepts, Kinds, and Classification</b> Session Chair: <a href="#">Daniel Schwartz</a> ----- <a href="#">Concepts As Forward-looking: Reframing The Question Of Referential Stability</a> Corinne Bloch-Mullins ----- <a href="#">The Structural Heterogeneity Of Scientific Concepts</a> Hyundeuk Cheon ----- <a href="#">Natural Kinds In Practice</a> Beckett Sterner ----- <a href="#">When Are A Priori Assumptions Warranted In The Metaphysics</a>	<input type="checkbox"/> <b>Contributed Papers - Philosophy Biology: Ontological and Epistemological Issues</b> Session Chair: <a href="#">Joe Rouse</a> ----- <a href="#">Evolutionary Process</a> John Dupre ----- <a href="#">Fuzzy Practice: Homologizing Liminality</a> <a href="#">Comparative Parts</a> Catherine Kendig ----- <a href="#">The Crocodile's Snout: The Epistemic Function Of Phylogenetics In Paleobiology</a> Adrian Currie ----- <a href="#">Refutation In Historical Sciences: Cavalier-smith's 'archezoa' Hypothesis</a> Thomas Bonnin	<input type="checkbox"/> <b>Contributed Papers - STSS perspectives</b> Session Chair: <a href="#">Sharon Crasnow</a> ----- <a href="#">Trading Zones In Peripheral Science: Scientific Practice From A Peripheral Point Of View</a> <a href="#">Deepanwita Dasgupta</a> ----- <a href="#">Philosophy Of Science Undisciplined: Recovering Ethics And Politics With Sts</a> Matthew Sample ----- <a href="#">"typically, But Not Exclusively": interactional Expertise, Language Use And The Politics Of Nanotechnology Terminologies Standardization</a> Sharon Ku; Frederick Klaessig ----- <a href="#">Transcending The Distinction Between Making And Using: The Phenomenology Of</a>
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<a href="#">Medical Research - Evaluating The Strengths And Weaknesses Of Meta-analysis</a> Saana Jukola	<a href="#">Understanding Models In Scientific Practice: The London &amp; London Case Study</a> Jan Potters	<a href="#">Of Scientific Practice?</a> Thomas Reydon	<a href="#">Technical Artifact Functions</a> Mark Thomas Young
<a href="#">Objectivity And Cognitive Interests</a> Torsten Wilholt	<a href="#">Chaos Regained: On The Possibility Of A New Era Of Orbital Dynamics</a> Isaac Wilhelm		

11:20am-12:30pm  **Plenary II - Alan Love, "Protocols and Potentiality: From Biological Practice to Scientific Metaphysics"** (Eynon Ballroom)

*Session Chair: Sabina Leonelli*

12:30pm-2:00pm  **Catered Lunch** (Eynon Ballroom)

**Panel Discussion with Advisory Board members in celebration of the 10th anniversary of SPSP**

2:00pm-3:10pm  **Plenary III - Andrea Woody, "Format and Function: Representational Practices in Chemical Contexts"** (Eynon Ballroom)

*Session Chair: Rachel Ankeny*

3:10pm-3:30pm  **Coffee Break** (4th and 5th Floor Enterprise)

3:30pm-5:30pm

### CONCURRENT SESSIONS V

<input type="checkbox"/> <b>Symposium - Ideals in Practice: Discovery and Decision-Making in Biomedicine</b> <i>Session Chair: Sara Green</i> <i>Session Description:</i> Sophie van Baalen <i>Personalised Medicine: A Negotiable Ideal Without Precise Definition</i> Giovanni De Grandis; Vidar Halgunset <i>From "personalized" To "precision" Psychiatry: What's In A Name?</i> Kathryn Tabb <i>The Socio-technical</i>	<input type="checkbox"/> <b>Contributed Papers - Values, Research Ethics, and Regulation</b> <i>Session Chair: Fred Grinnell</i> <i>The Interwovenness Of Societal, Institutional And Epistemic Dimensions Of Risk</i> <i>Controversies</i> Jeroen van der Sluijs <i>Research Ethics, Epistemic Trust And Bad Actors In The Retraction Watch Era</i> Barton Moffatt <i>What After The Morning After Pill? Values In The Science And Regulation Of Contraception</i>	<input type="checkbox"/> <b>Symposium - Philosophical Implications for Optimal Control in the Sciences over Vast Length and Time Scales</b> <i>Session Chair: Hasok Chang</i> <i>Session Description:</i> Herschel Rabitz; Andrea Woody <i>An Introduction To Optisci And Optimization Of Quantum (optiq) Phenomena</i> Benjamin Russell; Herschel Rabitz <i>Optimization In The Chemical Sciences (optichem)</i> Katharine Tibbetts; Herschel Rabitz	<input type="checkbox"/> <b>Contributed Papers - Mechanisms &amp; explanation</b> <i>Session Chair: John Dupre</i> <i>Mechanisms As Modal Patterns</i> Joseph Rouse <i>Patterns, Mechanisms And The Ontic/epistemic Distinction</i> Lena Kästner; Philipp Haueis <i>Abstraction, Idealization, And The Ontic View Of Explanation</i> Marta Halina <i>Understanding The Explanatory Power Of Dynamical Models In Systems Science</i> Karen Yan	<input type="checkbox"/> <b>Contributed Papers - Collaboration and Interdisciplinary Challenges</b> <i>Session Chair: Sabina Leonelli</i> <i>Terminological Ambiguity In Cross-disciplinary Collaboration</i> Julie Mennes <i>Explanation And Collaborative Practices</i> Melinda Fagan <i>Transdisciplinary Understanding In The Courtroom: The Case Of Legal Insanity</i> Henk de Regt; Gerben Meynen <i>Disciplinary Capture And Path Dependence: When Interdisciplinarity Goes Bad</i> Evelyn Brister
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<a href="#">Epistemology Of Clinical Decision-making</a> Sophie van Baalen; Annamaria Carusi	Christopher ChoGlueck <a href="#">Making Ecological Value Make Sense</a> Justin Donhauser	<a href="#">Natural Evolution Expressed In Terms Of Optimization (optievo)</a> Xiaojiang Feng; Jinhai Chen; Mohammad Seyedsayamdost; Herschel Rabitz		
<a href="#">Distributed Cognition In Critical Care Medicine</a> Thomas Cunningham		<a href="#">Commentary</a> Andrea Woody		

6:00pm-7:30pm

**Book Fair**

**Dinner**

## Sunday, 19 June 2016

8:30am-9:00am

**Continental Breakfast & Coffee** (4th and 5th Floor Enterprise)

9:00am-11:00am

### CONCURRENT SESSIONS VI

<input type="checkbox"/> <b>Symposium (sponsored by SRPoiSE) - Race and Inclusion in Science and in Science Policy</b> <i>Session Chair: John Dupre</i> Note: Talks to be followed by Panel and Open Discussion <a href="#">Measuring Inequality: Race And Gender In Science</a> Robin O. Andreasen; Heather Doty <a href="#">Discrimination And Accumulation</a> Ron Mallon <a href="#">We're Mismeasuring Diversity In Stem And Biomedicine: It's Time To Choose More Equitable Race And Ethnicity Variables</a> Sean M. Valles	<input type="checkbox"/> <b>Symposium - Securing Science in a Protean World</b> <i>Session Chair: James Bogen</i> <i>Session Description:</i> Nora Boyd; David Colaço; Aaron Novick; Raphael Scholl <a href="#">The Tree, The Labyrinth, And The Minefield</a> Nora Boyd <a href="#">The Identification Of Scientific Phenomena: Lessons From The Life Sciences</a> David Colaço <a href="#">Presume It Not: True Causes In The Search For The Basis Of Heredity</a> Aaron Novick; Raphael Scholl <a href="#">Stability Without Stasis: Ambition And Modesty Of Realism About True Causes</a> Raphael Scholl	<input type="checkbox"/> <b>Contributed Papers - Grappling with History</b> <i>Session Chair: Chiara Ambrosio</i> <a href="#">Simplicity As Integrity In Galileo's Dialogue Concerning The Two Chief World Systems</a> Daniel Schwartz <a href="#">How And How Not To Be Whiggish About 'phlogiston'</a> Jonathon Hricko <a href="#">Debating Darwin's Debts To Philosophy</a> Phillip Honenberger <a href="#">The Search For Kuhn-loss: A New Strategy For Hps</a> Jamie Shaw	<input type="checkbox"/> <b>Contributed Papers - Issues of Representation</b> <i>Session Chair: Andrea Woody</i> <a href="#">Who Makes Scientific Graphics, And What Makes Them "good" Graphics?</a> Benjamin Sheredos <a href="#">On The Elusiveness Of Intentional Gaps In Mathematical Proofs</a> Line E. Andersen <a href="#">Representation And The Analogy Between Scientific Models And Maps: Insights From Cartographic Epistemology And Practice</a> Gui Oliveira <a href="#">Inferentialism In Biological Practice</a> Daniel Burnston
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11:20am-12:30pm

**Plenary IV - Miriam Solomon, "The Historical Epistemology of Evidence-Based Medicine"** (Eynon Ballroom)

*Session Chair: Hanne Andersen*

12:30pm-2:00pm

**Lunch** (Rowan Marketplace)

2:00pm-3:30pm

### CONCURRENT SESSIONS VII

<input type="checkbox"/> <b>Symposium - Philosophy of Scientific</b>	<input type="checkbox"/> <b>Contributed Papers -</b>	<input type="checkbox"/> <b>Contributed Papers -</b>	<input type="checkbox"/> <b>Contributed Papers - Issues of</b>	<input type="checkbox"/> <b>Contributed Papers -</b>
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<p><b>Integrity: Distinguishing Error, Fraud, and Malpractice</b>  <i>Session Chair: Barton Moffatt</i>  <i>Session Description:</i>  Hanne Andersen; Douglas Allchin; David Budtz Petersen; Mikkel Willum Johansen; Frederik Voetman Christiansen  <i>Disentangling Discourse On Misconduct</i>  Hanne Andersen; Douglas Allchin  <i>When Students Go To The Lab: A Quantitative Study Of The Scientific Conduct Of Students' Relation To Experimental Data</i>  Mikkel Willum Johansen; Frederik Voetmann Christiansen</p>	<p><b>Engineering Practices</b>  <i>Session Chair: Susan Sterrett</i>  <i>The Strategy Of Engineering Cost Analysis?: Independence Within</i>  <i>Aerospace Cost Analysis Techniques</i>  Zachary Pirtle; Jay Odenbaugh; Zoe Szajnarfarber  <i>An Engineering Paradigm For The Philosophy Of Science: The Discovery Of Piezoelectricity As A Paradigm Example Of Science</i>  Mieke Boon; Nadine de Courtenay  <i>Induction And Evidence In Failure Analysis</i>  Inge De Bal</p>	<p><b>Neuroscience: Data and Imaging</b>  <i>Session Chair: Philipp Haueis</i>  <i>The Structured Use Of Concepts As Tools In Neuroimaging Experiments</i>  Eden Smith  <i>Meta-analyses In Neuroimaging: Integrating Data To Achieve Construct Stability</i>  Jessey Wright  <i>Ensuring Objective Validity: Functional Triangulation In Neuroscience And The Effects Of Social Biases</i>  Derek Oswick</p>	<p><b>Experimentation</b>  <i>Session Chair: Hasok Chang</i>  <i>Hypothesis-testing, Exploratory Experiments, And The Space In Between</i>  Emily C. Parke  <i>David Gooding's Philosophy Of Reconstruction</i>  Laura Georgescu  <i>What Is Wrong With Our View Of Prediction?</i>  Karim Bschir</p>	<p><b>Philosophy of Medicine: Data, Evidence, and Application</b>  <i>Session Chair: Rachel Ankeny</i>  <i>Individualized Medicine And The Epistemological Challenges Of Data Integration</i>  Megan Delehanty  <i>Personalizing Medicine In Silico And In Socio</i>  Sara Green  <i>Understanding Cancer Through The Practices Of Microbial Experimental Evolution</i>  Katherine Liu</p>
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3:45pm-4:30pm

**Closing Remarks, SPSP Business, and Planning** (Eynon Ballroom)

4:30pm-5:00pm

**Coffee Break** (Eynon Anteroom)

## Monday, 20 June 2016

9:00am-12:00pm

**Post-Conference Fossil Dig**

Create My Program