

# 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

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|-------------|---|
| 9:30-14:00  | <input checked="" type="checkbox"/> <b>Pre-Conference Workshop: Empirical Methodology for Philosophy of Science</b> |
| 19:00-22:00 | <input checked="" type="checkbox"/> <b>Pre-Conference Informal Gathering</b> (Landmark Americana Tap & Grill)       |

### Friday, 17 June 2016

- |             |   |
|-------------|---|
| 8:30-9:00   | <input checked="" type="checkbox"/> <b>Continental Breakfast &amp; Coffee</b> (Eynon Anteroom)  |
| 9:00-10:10  | <input checked="" type="checkbox"/> <b>Plenary I - Julie Nelson, "Critiquing the Foundations of Economics, and Why It Matters"</b> (Eynon Ballroom) |
| 10:10-10:30 | <input checked="" type="checkbox"/> <b>Coffee Break</b> (Eynon Anteroom)  |
| 10:30-12:00 | <b>CONCURRENT SESSIONS I</b>  |

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Symposium - Repertoires: Dynamics of Scientific Collaboration in the Life Sciences</b> <i>Session Description:</i> Sabina Leonelli; Rachel Ankeny <i>The Functions Of Repertoires In Scientific Research</i> Rachel Ankeny; Sabina Leonelli <i>Repertoires Integrate Platforms And Research Programs</i> Elihu Gerson; Alok Srivastava	<b>Contributed Papers - Instruments and Data</b> <i>On The Application Of Science To Science Itself: Chemistry, Instruments, And The Scientific Labor Process</i> George Borg <i>The Evolution Of Instruments For Empirical Investigation: Choosing Between The Material And The Algorithmic Options</i> Vincent Israel-Jost	<b>Contributed Papers - Issues in the Social Sciences</b> <i>Ontological Investigations And Social Scientific Practice</i> Simon Lohse <i>Bias And Social Science Experiments</i> Sharon Crasnow <i>Using Philosophy Of Statistics To Make Progress In The Replication Crisis In Psychology</i> Deborah Mayo; Caitlin Parker	<b>Symposium - Philosophy of Autism</b> <i>Session Description:</i> Jami L. Anderson; Ruth J. Sample; Susan V. H. Castro <i>Self Identities And Self Diagnoses</i> Jami L. Anderson <i>Does Autism Spectrum Disorder Have A Gender?</i> Ruth J. Sample <i>Autism: A Kantian Imagination-based Theory</i> Susan V. H. Castro	<b>Contributed Papers - Diverse Modeling Practices</b> <i>Animal Models Of Pain And The Puzzle Of Similarity</i> Nina Atanasova <i>Experimentation On Analogue Models</i> Susan Sterrett <i>There And Back Again: Comparative Resituation Of Models Between Ecology And Political Economy</i> Jason Oakes

<i>Emerging Model Organisms, Platform Development And Repertoire Acquisition</i> Christopher DiTeresi	<i>If You Go Too Far Western, You Can't Trust Your Data Anymore</i> Stephan Guttinger			
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12:00-13:30 ☒ **Lunch** (Rowan Marketplace)

13:30-15:00

### 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 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>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>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>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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15:00-15:30 ☒ **Coffee Break** (4th and 5th Floor Enterprise)

15:30-17:30

### CONCURRENT SESSIONS III

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

18:00-19:30 ☒ **Dr. Lacovara's Fossil Lecture and Exhibit** (Eynon Ballroom)

19:30-21:30 ☒ **Dinner Reception** (Eynon Ballroom)

## Saturday, 18 June 2016

8:30-9:00 ☒ **Continental Breakfast & Coffee** (4th and 5th Floor Enterprise)

9:00-11:00 **CONCURRENT SESSIONS IV**

<input type="checkbox"/> <b>Symposium - Inductive and Other Epistemic Risks in Research: Conceptual Explorations</b> <i>Session Description:</i> Torsten Wilholt	<input type="checkbox"/> <b>Contributed Papers - Simulation and Modeling in the Physical Sciences</b> <i>The Use Of Simulation Models In The Atlas Experiment At Cern's Large Hadron Collider: Implications For Model-based Experimentation</i> Koray Karaca	<input type="checkbox"/> <b>Contributed Papers - Concepts, Kinds, and Classification</b> <i>Concepts As Forward-looking: Reframing The Question Of Referential Stability</i> Corinne Bloch-Mullins	<input type="checkbox"/> <b>Contributed Papers - Philosophy Biology: Ontological and Epistemological Issues</b> <i>Evolutionary Process</i> John Dupre	<input type="checkbox"/> <b>Contributed Papers - STSS perspectives</b> <i>Trading Zones In Peripheral Science: Scientific Practice From A Peripheral Point Of View</i> Deepanwita Dasgupta
<i>Expanding Epistemic Risk</i> Justin B. Biddle; Rebecca Kukla	<i>Identifying Skills Of</i>	<i>The Structural Heterogeneity Of Scientific Concepts</i> Hyundeuk Cheon	<i>Fuzzy Practice: Homologizing Liminally</i> Catherine Kendig	<i>Philosophy Of Science Undisciplined: Recovering Ethics And Politics With Sts</i> Matthew Sample
<i>Inductive Risk, Wishful Thinking, And Practical</i>		<i>Natural Kinds In Practice</i>	<i>The Crocodile's Snout: The Epistemic Function Of Phylogenetics In Paleobiology</i> Adrian Currie	<i>"typically, But Not Exclusively": interactional Expertise, Language Use And The Politics Of Nanotechnology Terminologies Standardization</i>

<a href="#">Reason Matthew J. Brown Risk, Judgments, And Objectivity In Medical Research - Evaluating The Strengths And Weaknesses Of Meta-analysis Saana Jukola Objectivity And Cognitive Interests Torsten Wilholt</a>	<a href="#">Mathematical Modelling And Computational Simulations Brandon Boesch Philosophically Understanding Models In Scientific Practice: The London &amp; London Case Study Jan Potters Chaos Regained: On The Possibility Of A New Era Of Orbital Dynamics Isaac Wilhelm</a>	<a href="#">Beckett Sterner When Are A Priori Assumptions Warranted In The Metaphysics Of Scientific Practice? Thomas Reydon</a>	<a href="#">Refutation In Historical Sciences: Cavalier-smith's 'archezoa' Hypothesis Thomas Bonnin</a>	<a href="#">Sharon Ku; Frederick Klaessig Transcending The Distinction Between Making And Using: The Phenomenology Of Technical Artifact Functions Mark Thomas Young</a>
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11:20-12:30 ☒ **Plenary II - Alan Love, "Protocols and Potentiality: From Biological Practice to Scientific Metaphysics"** (Eynon Ballroom)

12:30-14:00 ☒ **Catered Lunch** (Eynon Ballroom)

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

14:00-15:10 ☒ **Plenary III - Andrea Woody, "Format and Function: Representational Practices in Chemical Contexts"** (Eynon Ballroom)

15:10-15:30 ☒ **Coffee Break** (4th and 5th Floor Enterprise)

15:30-17:30 **CONCURRENT SESSIONS V**

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

18:00-19:30 ☒ **Dinner** (Rowan Marketplace)

## Sunday, 19 June 2016

8:30-9:00 ☒ **Continental Breakfast & Coffee** (4th and 5th Floor Enterprise)

9:00-11:00

### CONCURRENT SESSIONS VI

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



12:30-14:00 ☒ **Lunch** (Rowan Marketplace)

14:00-15:30

**CONCURRENT SESSIONS VII**

<input type="checkbox"/> <b>Symposium</b> <b>- Philosophy of Scientific Integrity: Distinguishing Error, Fraud, and Malpractice Session</b> <i>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>Irreproducibility: Experimenter's Regress Or Scientific Misconduct?</i> David Budtz Pedersen ----- <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	<input type="checkbox"/> <b>Contributed Papers - Engineering Practices</b> <i>The Strategy Of Engineering Cost Analysis?: Independence Within Aerospace Cost Analysis Techniques</i> Zachary Pirtle; Jay Odenbaugh; Zoe Szajnfarber ----- <i>An Engineering Paradigm For The Philosophy Of Science: The Discovery Of Piezo-electricity As A Paradigm Example Of Science</i> Mieke Boon; Nadine de Courtenay ----- <i>Induction And Evidence In Failure Analysis</i> Inge De Bal	<input type="checkbox"/> <b>Contributed Papers - Neuroscience: Data and Imaging</b> <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	<input type="checkbox"/> <b>Contributed Papers - Issues of Experimentation</b> <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	<input type="checkbox"/> <b>Contributed Papers - Philosophy of Medicine: Data, Evidence, and Application</b> <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
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15:45-16:30 ☒ **Closing Remarks, SPSP Business, and Planning** (Eynon Ballroom)

16:30-17:00 ☒ **Coffee Break** (Eynon Anteroom)

**Monday, 20 June 2016**

9:00-12:00 ☒ **Post-Conference Fossil Dig**

