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

OpenConf Peer Review & Conference Management System

Thursday, 16 June 2016

9:30-14:00 **Pre-Conference Workshop: Empirical Methodology for Philosophy of Science** (Enterprise 409)

19:00-22:00 **Pre-Conference Informal Gathering** (Landmark Americana Tap & Grill)

Friday, 17 June 2016

10:30-12:00

8:30-9:00 **Continental Breakfast & Coffee** (Eynon Anteroom)

9:00-10:10 Plenary I - Julie Nelson, "Critiquing the Foundations of Economics, and Why It Matters" (Eynon Ballroom)

Session Chair: Joe Rouse

10:10-10:30 **Coffee Break** (Eynon Anteroom)

Correct Dream (Lynon Anteroom

CONCURRENT SESSIONS I

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

13:30-15:00

CONCURRENT SESSIONS II

CONCURRENT SESSIONS II					
Symposium - Diverse Practices with Model Organisms Session Chair:	Symposium - Replication and Evidence: A Tenuous Relationship	Contributed Papers - Organization and Engineering in Cognitive	Contributed Papers - Citizen Science and Democratisation Session Chair: Henk de Regt	Contributed Papers - Realism and Truth Session Chair: Joe Rouse	
Rachel Ankeny Session Description: William Bechtel An Ethnographic Approach To Integrating Perspectives On Model Organisms Rebecca Hardesty The Epistemic Role Of Model Organisms In Biomedicine Veli-Pekka Parkkinen Developing Model Organisms For Model Organisms In The Study Of Sleep William Bechtel	Session Chair: Deborah Mayo Session Description:	and Biological Sciences Session Chair: Jessey Wright Organizing Principles In Neuroanatomical And Physiological Practice Philipp Haueis From Neural Engineering To Scientific Understanding Maria Serban	Ebirding, Conservation, And Mapping The Moral Terrain Of Science At A Smaller Scale Jon Rosenberg Democracy And Planetary Defense: Involving Citizens In Technical Decisions Through Participatory Technology Assessment David Tomblin; Zachary Pirtle Trust, Objectivity, And The Democratisation Of Science Inkeri Koskinen	Stability And Scientific Realism: The Coming Of Age Of Perturbation Theory Massimiliano Badino Pragmatist Coherence As The Source Of Truth And Reality Hasok Chang Residual Phenomena And The Mechanism Of Deep Earthquakes Teru Miyake	

15:00-15:30 Coffee Break (4th and 5th Floor Enterprise)

15:30-17:30

CONCURRENT SESSIONS III

Symposium -	J
In Pursuit of	P
History	U
Session Chair:	a
Sabina Leonelli	Se
Session	Μ
Description:	Aı
Chiara Ambrosio	Oi
"each Chief Step	In
In Science Has	М
Been A Lesson In	Μ
Logic":	Di
(pragmaticist)	De
Lessons From	E
Peirce's History	W
Of Science	M
Chiara Ambrosio	Αc
Between The	Fι
Empty And The	Di
Blind: N. R.	Ju Di
Hanson's	Di
Historiography Of	

Symposium -

	Contributed Papers - Understanding
	and Discovery
	Session Chair:
	Mieke Boon
	An Ethnography
	Of Scientific
	Imagination
	Michael Stuart
	Mechanism
	Discovery And
	Design
	Explanation:
	Where Causal Role
	Meets Biological
	Advantage
	Function
	Dingmar van Eck;
	Julie Mennes
_	Discovery:

Contributed Papers -Molecular **Sciences** Session Chair: Andrea Woody Articulating Organic Chemistry Into Structural **Biochemistry** William Goodwin **Biochemistry** Research **Programs** Through The 20th Century Use A Dual-column **Programmatic** Practice To Resolve And

Diagnosis in **Psychiatry** and Medicine Session Chair: Nina Atanasova A Pragmatist Interpretation Of Schizophrenia Abigail Gosselin On The General Concept Of Mental Disorder And The Subordinate Concepts Of Individual Disorders In Dsm-v

Contributed

Disease and

Papers -

Contributed Papers -**Issues** in Social **Epistemology** Session Chair: Hanne Andersen Individual Vs. Collective Justification: What Happens In Research Groups? Haixin Dang Defending Limited Nondeference To Science Experts Lawrence Lengbeyer Big Data And The

Science Matthew Lund A New Comparative Model Of The Historiography Of Science: From Neutral Data Assessments To Comparisons Through Epistemic Values Jouni-Matti Kuukkanen Commentary Hasok Chang	Abduction In Everyday Practice Of Science Frederick Grinnell	For' In Molecular Biology Emanuele Ratti Multiscale Modeling In Nanoscience: Beyond Non- mereological Relations	Maria Cristina Amoretti; Elisabetta Lalumera Philosophical And Historical Perspectives On The Diagnosis Of Non-accidental Head Injury In Infants Nicholas Binney Explanatory Agnosticism In Translational Medicine Spencer Hey; James Overton	Evaluation Of Experts Darcy McCusker
		Julia Bursten		

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

19:30-21:30 Book Fair Dinner Reception

Saturday, 18 June 2016

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

9:00-11:00

CONCURRENT SESSIONS IV

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

Evaluating The Strengths And Weaknesses Of Meta-analysis Saana Jukola Objectivity And Cognitive Interests Torsten Wilholt Practice: The London & London Case Study Jan Potters Of Asserting Chaos Regained: On The Possibility Of A New Era Orbital Dynamics Isaac Wilhelm	Mark Thomas Young
--	-------------------

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

Session Chair: Sabina Leonelli

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

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

CONCURRENT SESSIONS V

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

Session Chair: Rachel Ankeny

15:30-17:30

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

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

Clinical Decision-	ChoGlueck	Terms Of	
making	Making Ecological	Optimization	
Sophie van	Value Make Sense	(optievo)	
Baalen;	Justin Donhauser	Xiaojiang Feng;	
Annamaria Carusi		Jinhai Chen;	
Distributed		Mohammad	
Cognition In		Seyedsayamdost;	
Critical Care		Herschel Rabitz	
Medicine		Commentary	
Thomas		Andrea Woody	
Cunningham			

18:00-19:30 Book Fair Dinner

Sunday, 19 June 2016

8:30-9:00

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

9:00-11:00

CONCURRENT SESSIONS VI

CONCURRENT SESSIONS VI					
Symposium (sponsored by SRPoiSE) - Race and Inclusion in Science and in Science Policy Session Chair: John Dupre Note: Talks to be followed by Panel and Open Discussion Measuring Inequality: Race And Gender In Science Robin O. Andreasen; Heather Doty Discrimination And Accumulation Ron Mallon We're Mismeasuring Diversity In Stem And	Symposium - Securing Science in a Protean World Session Chair: James Bogen Session Description: Nora Boyd; David Colaço; Aaron Novick; Raphael Scholl The Tree, The Labyrinth, And The Minefield Nora Boyd The Identification Of Scientific Phenomena: Lessons From The Life Sciences David Colaço Presume It Not: True	Contributed Papers - Grappling with History Session Chair: Chiara Ambrosio Simplicity As Integrity In Galileo's Dialogue Concerning The Two Chief World Systems Daniel Schwartz How And How Not To Be Whiggish About 'phlogiston' Jonathon Hricko Debating Darwin's Debts To Philosophy Phillip Honenberger The Search For Kuhn- loss: A New Strategy	Contributed Papers - Issues of Representation Session Chair: Andrea Woody Who Makes Scientific Graphics, And What Makes Them "good" Graphics? Benjamin Sheredos On The Elusiveness Of Intentional Gaps In Mathematical Proofs Line E. Andersen Representation And The Analogy Between Scientific Models And Maps: Insights From Cartographic Epistemology And		

11:20-12:30 Plenary IV - Miriam Solomon, "The Historical Epistemology of Evidence-Based Medicine" (Eynon Ballroom)

Session Chair: Hanne Andersen

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

14:00-15:30

CONCURRENT SESSIONS VII

Symposium - Philosophy of			Contributed Papers - Issues	Contributed Papers -
------------------------------	--	--	--------------------------------	-------------------------

Colombidia Francis		- c	District of the
	ng Neuroscience:		Philosophy
Integrity: Practices	Data and	Experimentation	of Medicine:
Distinguishing Session Cha		Session Chair: Hasok	Data,
Error, Fraud, Susan Sterre		Chang	Evidence,
and The Strategy		Hypothesis-testing,	and
Malpractice Of Engineeri		Exploratory	Application
Session Chair: Cost Analysi		Experiments, And	Session Chair:
Barton Moffatt Independent		The Space In	Rachel Ankeny
Session Within	Neuroimaging	Between	Individualized
Description:	Cost Experiments	Emily C. Parke	Medicine And
Hanne Andersen; Analysis Tacknisus	Eden Smith	David Gooding's	The
Douglas Allchin; David Budta Techniques Zachary Pirt	Meta-analyses In	Philosophy Of	Epistemological
David Blidtz I '	. Integring	Reconstruction	Challenges Of
Petersen; Mikkel Odenbaugh;	Integrating Data	Laura Georgescu	Data
willum Jonansen; 1700	7 0 7 101111010	What Is Wrong With	Integration
Frederik Voetman Szajnfarber	Construct	Our View Of Prediction?	Megan
Christiansen An Engineer	Stability	Karim Bschir	Delehanty
Diselitally Paradian Fo		Kariiii DSCIIII	Personalizing
Discourse On Missondust The Philosop	, Lindaring		Medicine In
MISCOITUUCL Of Science:	Ohy Objective Validity:		Silico And In
Hanne Andersen; The Discove			Socio
Douglas Alichin Of Piezo-	Triangulation In		Sara Green
Irreproducibility: electricity As	Neuroscience And		Understanding
Experimenter's Paradiam	The Effects Of		Cancer
Regress Or Fxample Of	Social Biases		Through The
Science	Derek Oswick		Practices Of
Misconduct? Mieke Boon;			Microbial
David Budtz Nadine de			Experimental
Pedersen Courtenay			<i>Evolution</i> Katherine Liu
When Students Induction Ar	nd		Katherine Liu
Go To The Lab: A Evidence In			
Quantitative Failure			
Study Of The Analysis Scientific Conduct			
Of Students' Inge De Bal			
Relation To			
Experimental Data			
Mikkel Willum			
Johansen;			
Frederik			
Voetmann			
Christiansen			

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**