Friday, 17 June

8:30am – 9:00am	Continental Breakfast (Eynon Anteroom)				
9:00am – 10:10am	Plenary Lecture 1 (Eynon Ballroom) Critiquing the Foundations of Economics, and Why It Matters (J. Nelson)				
10:10am – 10:30am	Coffee Break (Eynon Anteroom)				
10:30am – 12:00pm	1A (Enterprise 509)	1B (Enterprise 414)	1C (Enterprise 409)	1D (Enterprise 514)	1E (Enterprise 517)
	Repertoires: Dynamics of Scientific Collaboration in the Life Sciences	Instruments and Data	Issues in the Social Sciences	Philosophy of Autism	Diverse Modeling Practices
	The functions of repertoires in scientific research (R. Ankeny, S. Leonelli) ▪ Repertoires integrate platforms and research programs (E. Gerson, A. Srivastava) ▪ Emerging model organisms, platform development and repertoire acquisition (C. DiTeresi)	On the application of science to science itself: chemistry, instruments & the scientific labor process (G. Borg) ▪ The evolution of instruments for empirical investigation: choosing between the material & the algorithmic options (V. Israel-Jost) ▪ If you go too far western, you can't trust your data anymore (S. Guttinger)	Ontological investigations and social scientific practice (S. Lohse) ▪ Bias and social science experiments (S. Crasnow) ▪ Using philosophy of statistics to make progress in the replication crisis in psychology (D. Mayo, C. Parker)	Does autism spectrum disorder have a gender? (R. J. Sample) ▪ Autism: a Kantian imagination-based theory (S. V. H. Castro)	Animal models of pain & the puzzle of similarity (N. Atanasova) ▪ Experimentation on analogue models (S. Sterrett) ▪ There and back again: comparative resituation of models between ecology and political economy (J. Oakes)
12:00pm – 1:30pm	Lunch (Rowan Marketplace)				
1:30pm – 3:00pm	2A (Enterprise 509)	2B (Enterprise 514)	2C (Enterprise 409)	2D (Enterprise 414)	2E (Enterprise 517)
	Diverse Practices with Model Organisms	Replication and Evidence: A Tenuous Relationship	Organization & Engineering in Cognitive & Biological Sciences	Citizen Science and Democratisation	Realism and Truth
	An ethnographic approach to integrating perspectives on model organisms (R. Hardesty) ▪ The epistemic role of model organisms in biomedicine (V. P. Parkkinen) ▪ Developing model organisms for model organisms in the study of sleep (W. Bechtel)	What kind of crisis is psychology (supposedly) in? (B. D. Earp) ▪ Replication, evidence, and statistical practice (V. J. Vieland) ▪ Replicate that… (S. Firestein)	Organizing principles in neuroanatomical and physiological practice (P. Haueis) ▪ From neural engineering to scientific understanding (M. Serban)	eBirding, conservation, and mapping the moral terrain of science at a smaller scale (J. Rosenberg) ▪ Democracy and planetary defense: involving citizens in technical decisions through participatory technology assessment (D. Tomblin, Z. Pirtle) ▪ Trust, objectivity, and the democratisation of science (I. Koskinen)	Stability and scientific realism: the coming of age of perturbation theory (M. Badino) ▪ Pragmatist coherence as the source of truth and reality (H. Chang) ▪ Residual phenomena and the mechanism of deep earthquakes (T. Miyake)
3:00pm – 3:30pm	Coffee Break (Enterprise, 4th and 5th Floors)				
3:30pm – 5:30pm	3A (Enterprise 509)	3B (Enterprise 409)	3C (Enterprise 514)	3D (Enterprise 517)	3E (Enterprise 414)
	In Pursuit of History	Understanding and Discovery	Molecular Sciences	Disease and Diagnosis in Psychiatry and Medicine	Issues in Social Epistemology
	"Each chief step in science has been a lesson in logic": (pragmaticist) lessons from peirce's history of science (C. Ambrosio) ▪ Between the empty and the blind: n. r. hanson's historiography of science *(M. Lund)* ▪ *A new comparative model of the historiography of science: from neutral data assessments to comparisons through epistemic values (J.-M. Kuukkanen)* ▪ *Commentary* (H. Chang)	An ethnography of scientific imagination (M. Stuart) ▪ Mechanism discovery and design explanation: where causal role meets biological advantage function (D. van Eck, J. Mennes) ▪ Discovery: abduction in everyday practice of science (F. Grinnell)	Articulating organic chemistry into structural biochemistry (W. Goodwin) ▪ Biochemistry research programs through the 20th century use a dual-column programmatic practice to resolve and reconstitute the molecular economy of a biological activity (A. Srivastava) ▪ On the distinction between 'models of' and 'models for' in molecular biology (E. Ratti) ▪ Multiscale modeling in nanoscience: beyond non-mereological relations (J. Bursten)	A pragmatist interpretation of schizophrenia (A. Gosselin) ▪ On the general concept of mental disorder and the subordinate concepts of individual disorders in DSM-V (M. C. Amoretti, E. Lalumera) ▪ Philosophical and historical perspectives on the diagnosis of non-accidental head injury in infants (N. Binney) ▪ Explanatory agnosticism in translational medicine (S. Hey, J. Overton)	Individual vs. collective justification: what happens in research groups? (H. Dang) ▪ Defending limited non-deference to science experts (L. Lengbeyer) ▪ Big data and the evaluation of experts (D. McCusker)
6:00pm – 7:50pm	Dinner Reception (Eynon Ballroom)				
8:00pm – 9:30pm	Dr. Lacovara's Fossil Lecture and Exhibit (Eynon Ballroom)				

Saturday, 18 June

8:30am – 9:00am	Continental Breakfast and Coffee (Enterprise, 4th and 5th Floors)				
9:00am – 11:00am	4A (Enterprise 509)	4B (Enterprise 517)	4C (Enterprise 409)	4D (Enterprise 514)	4E (Enterprise 414)
	Inductive and Other Epistemic Risks in Research: Conceptual Explorations	Simulation and Modeling in the Physical Sciences	Concepts, Kinds and Classification	Philosophy of Biology: Ontological and Epistemological Issues	STSS Perspectives
	EXPANDING EPISTEMIC RISK (J. B. Biddle, R. Kukla) ▪ INDUCTIVE RISK, WISHFUL THINKING, AND PRACTICAL REASON (M. J. Brown) ▪ RISK, JUDGMENTS, AND OBJECTIVITY IN MEDICAL RESEARCH - EVALUATING THE STRENGTHS AND WEAKNESSES OF META-ANALYSIS (S. Jukola) ▪ OBJECTIVITY AND COGNITIVE INTERESTS (T. Wilholt)	THE USE OF SIMULATION MODELS IN THE ATLAS EXPERIMENT AT CERN'S LARGE HADRON COLLIDER: IMPLICATIONS FOR MODEL-BASED EXPERIMENTATION (K. Karaca) ▪ IDENTIFYING SKILLS OF MATHEMATICAL MODELLING AND COMPUTATIONAL SIMULATIONS (B. Boesch) ▪ PHILOSOPHICALLY UNDERSTANDING MODELS IN SCIENTIFIC PRACTICE: THE LONDON AND LONDON CASE STUDY (J. POTTERS) ▪ CHAOS REGAINED: ON THE POSSIBILITY OF A NEW ERA OF ORBITAL DYNAMICS (I. WILHELM)	CONCEPTS AS FORWARD-LOOKING: REFRAMING THE QUESTION OF REFERENTIAL STABILITY (C. Bloch-Mullins) ▪ THE STRUCTURAL HETEROGENEITY OF SCIENTIFIC CONCEPTS (H. Cheon) ▪ NATURAL KINDS IN PRACTICE (B. Sterner) ▪ WHEN ARE A PRIORI ASSUMPTIONS WARRANTED IN THE METAPHYSICS OF SCIENTIFIC PRACTICE? (T. Reydon)	EVOLUTIONARY PROCESS (J. Dupré) ▪ FUZZY PRACTICE: HOMOLOGIZING LIMINALLY COMPARATIVE PARTS (C. Kendig) ▪ THE CROCODILE'S SNOUT: THE EPISTEMIC FUNCTION OF PHYLOGENETICS IN PALEO-BIOLOGY (A. Currie) ▪ REFUTATION IN HISTORICAL SCIENCES: CAVALIER-SMITH'S 'ARCHEZOA' HYPOTHESIS (T. Bonnin)	TRADING ZONES IN PERIPHERAL SCIENCE: SCIENTIFIC PRACTICE FROM A PERIPHERAL POINT OF VIEW (D. Dasgupta) ▪ PHILOSOPHY OF SCIENCE UNDISCIPLINED: RECOVERING ETHICS AND POLITICS WITH STS (M. Sample) ▪ "TYPICALLY, BUT NOT EXCLUSIVELY":INTERACTIONAL EXPERTISE, LANGUAGE USE AND THE POLITICS OF NANOTECHNOLOGY TERMINOLOGIES STANDARDIZATION (S. Ku, F. Klaessig) ▪ TRANSCENDING THE DISTINCTION BETWEEN MAKING AND USING: THE PHENOMENOLOGY OF TECHNICAL ARTIFACT FUNCTIONS (M. T. Young)
11:20am – 12:30pm	Plenary Lecture 2 (Eynon Ballroom) Protocols and Potentiality: From Biological Practice to Scientific Metaphysics (A. Love)				
12:30pm – 2:00pm	Catered Lunch; Panel Discussion with Advisory Board members in celebration of the 10th anniversary of SPSP (Eynon Ballroom)				
2:00pm – 3:10pm	Plenary Lecture 3 (Eynon Ballroom) Format and Function: Representational Practices in Chemical Contexts (A. Woody)				
3:10pm – 3:30pm	Coffee Break (Enterprise, 4th and 5th floors); SPSP Newsletter Meeting (Enterprise, 3rd floor conference room)				
3:30pm – 5:30pm	5A (Enterprise 509)	5B (Enterprise 514)	5C (Enterprise 409)	5D (Enterprise 517)	5E (Enterprise 414)
	Ideals in Practice: Discovery & Decision-Making in Biomedicine	Values, Research Ethics and Regulation	Philosophical Implications for Optimal Control in the Sciences Over Vast Length and Time Scales	Mechanisms and Explanation	Collaboration and Interdisciplinary Challenges
	PERSONALISED MEDICINE: A NEGOTIABLE IDEAL WITHOUT PRECISE DEFINITION (G. de Grandis, V. Halgunset) ▪ FROM "PERSONALIZED" TO "PRECISION" PSYCHIATRY: WHAT'S IN A NAME? (K. Tabb) ▪ THE SOCIO-TECHNICAL EPISTEMOLOGY OF CLINICAL DECISION-MAKING (S. van Baalen, A. Carusi) ▪ DISTRIBUTED COGNITION IN CRITICAL CARE MEDICINE (T. Cunningham)	THE INTERWOVENNESS OF SOCIETAL, INSTITUTIONAL AND EPISTEMIC DIMENSIONS OF RISK CONTROVERSIES (J. van der Sluijs) ▪ RESEARCH ETHICS, EPISTEMIC TRUST AND BAD ACTORS IN THE RETRACTION WATCH ERA (B. Moffatt) ▪ WHAT AFTER THE MORNING AFTER PILL? VALUES IN THE SCIENCE AND REGULATION OF CONTRACEPTION (C. ChoGlueck) ▪ MAKING ECOLOGICAL VALUE MAKE SENSE (J. Donhauser)	AN INTRODUCTION TO OPTISCI AND OPTIMIZATION OF QUANTUM (OPTIQ) PHENOMENA (B. Russell, H. Rabitz) ▪ OPTIMIZATION IN THE CHEMICAL SCIENCES (OPTICHEM) (K. Tibbetts, H. Rabitz) ▪ NATURAL EVOLUTION EXPRESSED IN TERMS OF OPTIMIZATION (OPTIEVO) (X. Feng, J. Chen, M. Seyed-sayamdost, H. Rabitz) ▪ COMMENTARY (A. Woody)	MECHANISMS AS MODAL PATTERNS (J. Rouse) ▪ PATTERNS, MECHANISMS AND THE ONTIC/EPISTEMIC DISTINCTION (L. Kästner, P. Haueis) ▪ ABSTRACTION, IDEALIZATION AND THE ONTIC VIEW OF EXPLANATION (M. Halina) ▪ UNDERSTANDING THE EXPLANATORY POWER OF DYNAMICAL MODELS IN SYSTEMS SCIENCE (K. Yan)	TERMINOLOGICAL AMBIGUITY IN CROSS-DISCIPLINARY COLLABORATION (J. Mennes) ▪ EXPLANATION AND COLLABORATIVE PRACTICES (M. Fagan) ▪ TRANSDISCIPLINARY UNDERSTANDING IN THE COURTROOM: THE CASE OF LEGAL INSANITY (H. de Regt, G. Meynen) ▪ DISCIPLINARY CAPTURE AND PATH DEPENDENCE: WHEN INTERDISCIPLINARITY GOES BAD (E. Brister)
6:00pm – 7:30pm	Dinner (Rowan Marketplace)				

Sunday, 19 June

8:30am – 9:00am	Continental Breakfast and Coffee (Enterprise, 4th and 5th floors)				
9:00am – 11:00am	6A (Enterprise 509)	6B (Enterprise 514)	6C (Enterprise 409)	6D (Enterprise 517)	
	Race and Inclusion in Science and in Science Policy (sponsored by SRPoiSE)	Securing Science in a Protean World	Grappling With History	Issues of Representation	
	Measuring inequality: race and gender in science (R. O. Andreasen, H. Doty) ▪ Discrimination and Accumulation (R. Mallon) ▪ We're mismeasuring diversity in STEM and biomedicine: it's time to choose more equitable race and ethnicity variables (S. M. Valles)	The tree, the labyrinth and the minefield (N. Boyd) ▪ The identification of scientific phenomena: lessons from the life sciences (D. Colaço) ▪ Presume it not: true causes in the search for the basis of heredity (A. Novick, R. Scholl) ▪ Stability without stasis: ambition and modesty of realism about true causes (R. Scholl)	Simplicity as integrity in Galileo's dialogue concerning the two chief world systems (D. Schwartz) ▪ How and how not to be whiggish about 'phlogiston' (J. Hricko) ▪ Debating Darwin's debts to philosophy (P. Honenberger) ▪ The search for Kuhn-loss: a new strategy for HPS (J. Shaw)	Who makes scientific graphics, and what makes them "good" graphics? (B. Sheredos) ▪ On the elusiveness of intentional gaps in mathematical proofs (L. E. andersen) ▪ Representation and the analogy between scientific models and maps: insights from cartographic epistemology and practice (G. Oliveira) ▪ Inferentialism in biological practice (D. Burnston)	
11:20am – 12:30pm	Plenary Lecture 4 (Eynon Ballroom) The Historical Epistemology of Evidence-Based Medicine (M. Solomon)				
12:30pm – 2:00pm	Lunch (Rowan Marketplace)				
2:00pm – 3:30pm	7A (Enterprise 514)	7B (Enterprise 517)	7C (Enterprise 414)	7D (Enterprise 409)	7E (Enterprise 509)
	Philosophy of Scientific Integrity: Distinguishing Error, Fraud and Malpractice	Engineering Practices	Neuroscience: Data and Imaging	Issues of Experimentation	Philosophy of Medicine: Data, Evidence and Application
	Disentangling discourse on misconduct (H. andersen, D. Allchin) ▪ When students go to the lab: a quantitative study of the scientific conduct of students' relation to experimental data (M. W. Johansen, F. V. Christiansen)	The strategy of engineering cost analysis? Independence within aerospace cost analysis techniques (Z. Pirtle, J. Odenbaugh, Z. Szajnfarber) ▪ An engineering paradigm for the philosophy of science: the discovery of piezo-electricity as a paradigm example of science (M. Boon, N. de Courtenay) ▪ Induction and evidence in failure analysis (I. De Bal)	The structured use of concepts as tools in neuroimaging experiments (E. Smith) ▪ Meta-analyses in neuroimaging: integrating data to achieve construct stability (J. Wright) ▪ Ensuring objective validity: functional triangulation in neuroscience and the effects of social biases (D. Oswick)	Hypothesis-testing, exploratory experiments, and the space in between (E. C. Parke) ▪ David Gooding's philosophy of reconstruction (L. Georgescu) ▪ What is wrong with our view of prediction? (K. Bschir)	Individualized medicine and the epistemological challenges of data integration (M. Delehanty) ▪ Personalizing medicine in silico and in socio (S. Green) ▪ Understanding cancer through the practices of microbial experimental evolution (K. Liu)
3:45pm – 4:30pm	Closing Remarks, SPSP Business and Planning (Eynon Ballroom)				
4:30pm – 5:00pm	Coffee Break (Eynon Ballroom)				

Monday, 20 June

9:00am – 12:30pm	Fossil Dig (meeting at Student Center Circle)

Rowan University

Conference Sites

1 Student Center (Marketplace & Eynon Ballroom)
2 Marriott Courtyard Hotel
3 Enterprise Center
4 Rowan Boulevard Dorms
5 Barnes & Noble Bookstore
6 Landmark (bar & restaurant)
7 Library
P Parking (Lot J)

CARPENTER STREET
Chestnut Hall Lot
Edgewood Park Apartments
Lot B
Lot M
Lot W
Lot U
Lot J
Lot T
MAIN STREET
West Street
MULLICA HILL ROAD / ROUTE 322
Rowan Boulevard Garage
ROWAN BOULEVARD
Redmond Avenue
Holly Avenue
Mick Drive
West New Street
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