

SPSP 2013 General Schedule

WEDNESDAY, June 26

7:00-9:00 Informal pre-conference social gathering
Bedford Academy, 36 Prince Arthur Avenue (416-921-4600)

THURSDAY, June 27

9:00-10:10 Opening Remarks + Plenary Session 1
10:10-10:30 Morning Tea
10:30-12:30 Concurrent Sessions I
12:30-2:00 Lunch
1:00-2:00 Lunch meeting: SPSP newsletter interest group
2:00-3:30 Concurrent Sessions II
3:30-4:00 Afternoon Tea
4:00-5:30 Concurrent Sessions III
5:40-6:50 Plenary Session 2

FRIDAY, June 28

9:00-10:10 Plenary Session 3
10:10-10:30 Morning Tea
10:30-12:30 Concurrent Sessions IV
12:30-2:00 Lunch
2:00-3:30 Concurrent Sessions V
3:30-4:00 Afternoon Tea
4:00-5:30 Concurrent Sessions VI
5:45-7:00 Reception

SATURDAY, June 29

9:00-10:10 Plenary Session 4
10:10-10:30 Morning Tea
10:30-12:30 Concurrent Sessions VII
12:30-2:00 Lunch
2:00-3:30 Concurrent Sessions VIII
3:30-4:15 Closing Remarks, SPSP Business & Planning
4:15-5:00 Afternoon Tea

WEDNESDAY, June 26

7:00-9:00

Informal pre-conference social gathering

Bedford Academy, 36 Prince Arthur Avenue (416-921-4600)

By tradition, SPSP has an informal gathering the evening before the conference begins so people can socialize and make contact in advance of the formal sessions. Please join us at Bedford Academy, a local pub, for a drink and light eats (at your own cost).

THURSDAY, June 27

9:00-10:10

Opening Remarks + Plenary 1

“The Roles of Mathematics in Scientific Practice(s)”, Ian Hacking
(Chair: Hasok Chang)

10:10-10:30

Morning Tea

10:30-12:30

Concurrent Sessions I

Symposium S1: De-idealization in the Sciences

“Idealization and de-idealization as an epistemic strategy in experimental practices”,
Mieke Boon

“De-idealizing general principles in systems biology”, Sara Green

“Explanatory Models and De-idealization”, Julie Jebeile & Ashley Graham Kennedy

“Six problems of de-idealization in economics: What does de-idealization tell us
about idealization?”, Tarja Knuuttila & Mary S. Morgan

Symposium S2: Scientific Research Funding: Practices, Problems, Philosophies

“Lost In Translation: How Michael Jordan, the Atomic Bomb, and Zombies Are
Undermining the Effectiveness of Scientific Research”, Gregory Petsko

“How I Learned to Stop Worrying and Love the Scientific Lottery”, Shahar Avin

“Philosophies for the Funding of Scientific Research Programmes, Or, Why Some
Research Areas Attract So Much Investment”, Maureen A. O'Malley

“The Epistemology of Fruitfulness”, Chris Haufe

Symposium S3: Taxonomic Practices in the Scientific Study of Cognition: Do Valid Constructs Matter?

“Natural Cognitive Kinds: Innateness as a Case Study”, Muhammad Ali Khalidi

“Is construct validity necessary for mechanistic explanations of cognitive
functions?”, Jacqueline A. Sullivan

“Taxonomic practices in the scientific study of cognition: A view from the trenches”,
Kristina Visscher

commentator: Kristina Visscher

Contributed Papers: Technology and Ontology at the Molecular Level

(Chair: John Capps)

“Biology as Technology? The Ontological Perplexity of Synthetic Biology Products”,
Sune Holm

“Defining Reproduction in the Age of Genetic Engineering”, Monika Piotrowska

“Biochemical Kinds and Protein Classification”, Jordan Bartol

“Connecting ontology and practices: The case of nanochemistry”, Jean-Pierre Llored

Contributed Papers: Interpreting Theories and Laws

(Chair: Kristina Rolin)

“Methodological Preservationism”, Robert Hudson

“Plausibility as a cognitive value”, Sindhuja Bhakthavatsalam

“Conventionalism as Contingency”, Sjoerd D. Zwart

“Boundary Conditions, Laws, and Nomological Content in Quantum Scattering Theory”, Bihui Li

12:30-2:00

Lunch

1:00-2:00

Lunch meeting: SPSP newsletter interest group

(Everyone welcome – grab a lunch and come back)

2:00-3:30

Concurrent Sessions II

Symposium S4: Research systems and the organization of practices

“Structuring Problems, Coordinating Research”, Beckett Sterner

“Coordinating Collective Research in Developmental Biology: Types as Reference Standards”, Christopher A. DiTeresi

“Research systems as institutions and organizations”, Elihu M. Gerson

Symposium S5: Meeting the brain on its own terms?

“Letting Be – Constitution in Scientific Practice”, Jan Slaby

“Exploratory Experiments in Neuroscience? – Lessons from History”, Philipp Haueis

“Exploratory Brain Research: The Case of Resting State Functional Connectivity Studies”, Daniel S. Margulies

Contributed Papers: Professionals, Participants, and Communication

(Chair: Leah McClimans)

“The Journey between Discovery and Scientific Change”, Sarah M. Roe

“Science Worlds: Toward more expansive notions of scientific practice and participation”, Jonathan Rosenberg

“Citizen science, professional scientists: Epistemic and ethical issues in public participation in scientific research”, Janet D. Stemwedel

Contributed Papers: Theorizing Practice

(Chair: Tarja Knuuttila)

“Historical narratives and narrativized actions. On the role of narrative in the reconstruction of scientific practices”, Katherina Kinzel

“Scientific Significance”, Joseph Rouse

“Grouping practices from a ‘naturalistic’ point of view: a meta-theoretical comment”, Alba Amilburu

3:30-4:00

Afternoon Tea

4:00-5:30

Concurrent Sessions III

Symposium S6: Mathematical (and applied mathematical) Conceptual Practice

“Expressive means and Mathematical Conceptualization”, Kenneth Manders
“Group Theory or No Group Theory: Understanding Atomic Spectra”, Josh Hunt
“Character and Object”, Jeremy Avigad & Becky Morris

Contributed Papers: Explanation in the Biological Sciences

(Chair: Denis Walsh)

“Systems biology and the limits of philosophical accounts of mechanistic explanation”, Ingo Brigandt

“The Invisibility of Scientific Practice in Interdisciplinary Explanations”, Alan C. Love

Contributed Papers: Determining What Counts as Knowledge

(Chair: Marga Vicedo)

“Scientific Understanding in Medicine”, Leen De Vreese

“What is the source language of translational research?”, Jason Scott Robert

“What Counts as Knowledge in Plant Science?”, Sabina Leonelli

Contributed Papers: Scientific Publication Practices

(Chair: Susann Wagenknecht)

“Scientific authorship, pluralism and practice”, Barton Moffatt

“Double-speak in science: Scientific standards versus peer review practices”, Carole J. Lee

“Social epistemology of e-prints in scientific practice”, Ben Almassi

5:40-6:50 **Plenary 2**

“Establishing causes in medical practice: The role of cases”, Rachel Ankeny
(Chair: Andrea Woody)

FRIDAY, June 28

9:00-10:10 **Plenary 3**

“Model Taxa as Platforms for Biological Research”, James Griesemer
(Chair: Sabina Leonelli)

10:10-10:30 **Morning Tea**

10:30-12:30 **Concurrent Sessions IV**

Symposium S7: Interdisciplinary Integration: The Real Grand Challenge?

“Values, data and institutional practices: The evolution of Public Health and City Planning”, Giovanni De Grandis

“Mapping interdisciplinarity in neuroeconomics”, David Budtz Pedersen

“If ‘Integration’ is at the heart of Integrative Interdisciplinary Research, what is it? Some Philosophical Reflections”, Michael O’Rourke & Stephen Crowley

“Integration, Method and Applied Ethics”, Rune Nydal

“Interdisciplinary Groups and Intercultural Meaning-Making”, Zara Mirmalek

“Is It Possible to Give Scientific Solutions to Grand Challenges?”, Sophia Efstathiou

Symposium S8: Methods for Making: Synthesis and Theoretical Structure in Chemistry

“Epistemology and the Synthetic: Lessons from Nanosynthesis”, Julia Bursten

“Making Water — With Electricity”, Hasok Chang

“Gaining a Foothold: Integrating Novel Concepts into the Experimental Life of Organic Chemistry”, William Goodwin

“Structure and Synthesis in Chemistry”, Robin Findlay Hendry

“The Diverse Landscape of Relevance Judgments: The ‘Bump/Hole’ Strategy in Organic Synthesis”, Andrea Woody

Contributed Papers: What and How We Measure in Medical Science

(Chair: Kirstin Borgerson)

“Epistemic Iteration: Enrichment and Self-Correction of Patient-Reported Outcome Measures”, Laura Cupples

“Untangling Fitness, Well-Being and Health in a Multidisciplinary Evolutionary Biology Collaborative Project”, Sean A. Valles

“Measuring Quality of Life in the Shadow of Science”, Leah McClimans

“Representing Scientific Investigations”, James A. Overton

Contributed Papers: Measurement, Models, and Materiality

(Chair: Joe Rouse)

“Measurement Uncertainty and Modeling Uncertainty: Towards a Unified Account”, Eran Tal

“Models of Interventions”, Susan G Sterrett

“When materiality does and does not matter”, Jo Donaghy

“A non-manipulationist account of invariance”, Federica Russo

12:30-2:00

Lunch

2:00-3:30

Concurrent Sessions V

Symposium S9: Scientific Representations Across History and Practice

“Deflationary Representation and Practice”, Mauricio Suárez

“Extrapolating with models: Against similarity and inferential approaches”, Christopher Pincock

“Iconic Representations and Representative Practices”, Chiara Ambrosio

Symposium S10: Talking Junk about Transposons: Levels of selection and conceptions of functionality in genome biology

“Junk and the genome”, T. Ryan Gregory

“Appeal for an element-level perspective of transposable element evolution”, Tyler A. Elliott

“Function-talk in transposon biology”, Stefan Linquist

Contributed Papers: Frameworks for Discussing Science and Values

(Chair: Heather Douglas)

“Non-Epistemic Values and the Multiple Goals of Science”, Kevin Elliott & Daniel McKaughan

“The Role of Values in Science and Policy”, Neelam Sethi

“Values in Science: A Liberal Egalitarian Approach”, Kristina Rolin

Contributed Papers: Collaboration, Community, and Consensus

(Chair: Sergio Sismondo)

“Collaborative Research and its Impact on Theoretical Innovation”, K. Brad Wray

“Seeking consensus, and how to account for dissent in the meantime”, Laszlo Kosolovsky & Jeroen Van Bouwel

“Scientific practice as collective undertaking: reflections on the concept of 'community'”, Susann Wagenknecht

Contributed Papers: Making Sense of Modeling

(Chair: Mieke Boon)

“What Are the Epistemic Contributions of Models? Separating the Heuristic and Evidential Roles of the DMP Model”, François Claveau & Melissa Vergara Fernández

“Who is a suitably prepared model user?”, Isaac Record

“In Praise of Erroneous Models”, Holly VandeWall

3:30-4:00

Afternoon Tea

4:00-5:30

Concurrent Sessions VI

Symposium S11: Diagrams as Vehicles of Reasoning and Explanation: Perspectives from Chronobiology

“Graphical Practice: Scientists as Interpreters of Diagrams”, Benjamin Sheredos

“Homogeneity Constraints and Reasoning about Complex Mechanisms”, Daniel C. Burnston

“Reasoning with Mechanism Diagrams”, William Bechtel

Contributed Papers: Classification and Categories in Medicine and Psychiatry

(Chair: Catherine Elgin)

“Genomic ‘Soft’ Realism: a framework for understanding the use of a plurality of population categories in epidemiology”, Santiago José Molina

“What comorbidity tells about diagnoses in psychiatry”, Hanna van Loo & Jan-Willem Romeijn

“DSM-5 and Psychiatry's Second Revolution: Theoretical vs. Descriptive Approaches to Psychiatric Classification”, Jonathan Y. Tsou

Contributed Papers: Communities and Institutions: Objectivity, Equality, and Trust

(Chair: Evelyn Brister)

“The Trustworthiness of Scientific Institutions: The Implications of Situated Knowing”, Heidi Grasswick

“An Account of Epistemic Equality”, Boaz Miller

“Longino's criteria for objective communities and pharmaceutical research: The case of SSRIs”, Saana Jukola

Contributed Papers: Issues in Model Building

(Chair: Mauricio Suarez)

“The role of scientific practice in the analysis of theories”, Francesca Pero

“Models and Modelling in Learning Science: Mediating Between Distributed and Personal Cognition”, Ismo T. Koponen

“Successive Refinement of Earth Models”, Teru Miyake

Contributed Papers: Intellectual Property, Patents, and Commercial Interests

(Chair: Elihu Gerson)

“The Patent System's Ontological Project”, Andrew Chin

“Knowledge, Ignorance, and Intellectual Property Rights: The Case of GM Seeds”,
Justin Biddle

“The Promise and Problems of Open-Source Drug Design”, Alexandra Bradner

5:45-7:00 **Reception**

SATURDAY, June 29

9:00-10:10 **Plenary 4**

“Toward a political economy of epistemic things”, Sergio Sismondo

(Chair: Mieke Boon)

10:10-10:30 **Morning Tea**

10:30-12:30 **Concurrent Sessions VII**

Symposium S12: Coherence in science after the practice turn

“A coherentist account of observation”, Vincent Israel-Jost

“A coherentist and contingentist reading of the robustness of experimental results”,
Léna Soler

“Practices, actions coherence and cohesion mechanisms”, Régis Catinaud

Symposium S13: Epidemiological Evidence and Medical Practice

“Does Philosophy of Science Have a Place at the Bedside?”, Ross Upshur

“The Logic of Generalizing Clinical Trial Evidence”, Jonathan Fuller

“Mechanisms in Epidemiology and in Evidence-Based Medicine”, Robyn Bluhm

“An Argument for Fewer Clinical Trials”, Kirstin Borgerson

Symposium S14: Scientific Understanding Without Truth

“Exemplification in Scientific Understanding”, Catherine Z. Elgin

“Non-Factive Understanding”, Kareem Khalifa

“Scientific Understanding Beyond Truth: Modal Understanding”, Soazig Le Bihan

“Scientific Understanding without Scientific Realism”, Henk W. de Regt

Contributed Papers: Issues in Economic History and Practice

(Chair: Joseph Berkovitz)

“An Argument for Local Critique in Philosophy of Economics: The Case of Rational
Choice Theory”, Catherine Herfeld

“Mill's Bioeconomics”, Margaret Schabas

“Experimental Philosophy of Economics: A Study of Choice”, Michiru Nagatsu

Contributed Papers: Computation and Simulation

(Chair: Robin Hendry)

“Computational Models as Experimental Systems”, Catherine Stinson

“Integrating Simulation and Experiment: hybrid research in Systems Biology”, Miles
MacLeod & Nancy Nersessian

“Computational models and medical science: the honeymoon is over”, Annamaria
Carusi

12:30-2:00 **Lunch**

2:00-3:30 **Concurrent Sessions VIII**

Contributed Papers: Issues in Biology

(Chair: Alan Love)

“The Discovery of enzymatic RNAs: a Mechanist Approach”, Jin-Yeong Ghim

“Major and Minor Groups in Evolution”, Peter Gildenhuys

“Why what is impossible in practice is more relevant than what is impossible in principle”, Marta Bertolaso

Contributed Papers: Issues in the Cognitive Sciences

(Chair: Jackie Sullivan)

“Subjective Report and Operationalization in the Study of Consciousness”, Worth (Trey) Boone

“Socially and morally responsible cognitive neuroimaging: Mental rotation case study”, Vanessa Bentley

“Cognitive Scientists Are Not Computational Functionalists”, Mikio Akagi

Contributed Papers: Issues for Science Policy and Assessment

(Chair: Janet Stemwedel)

“Two Problems for Science Policy”, Vincenzo Politi

“One Way to Use an Ecosystem Theory for Decision Making in Environmental Policy”, Justin Donhauser

“The target of climate model assessment”, Joel Katzav

Contributed Papers: Inter, Multi, and Trans-Disciplinarity

(Chair: Sabina Leonelli)

“The gap between epistemic and institutional practices in multidisciplinary research”, Rebecca Kukla & Bryce Huebner

“Obstacles to Interdisciplinary Scientific Research in Conservation and Natural Resources Management”, Evelyn Brister

“Philosophy of transdisciplinarity: The limited applicability of the concept of Mode 2 knowledge production”, Line Breian, Henrik Thorén, & Johannes Persson

Contributed Papers: Issues of Explanation

(Chair: Henk De Regt)

“Mechanisms and the pragmatics of model explanation”, Maria Serban

“Mathematical Explanation in Practice”, Davide Rizza

“Clarifying Value Judgments in the Pragmatics of Explanations”, Barry DeCoster

3:30-4:15 **Closing Remarks, SPSP Business & Planning**

4:15-5:00 **Afternoon Tea**