

**Society for Philosophy of Science in Practice 10<sup>th</sup> Biennial Conference**  
**Draft Programme (16 April)**  
(chairs and rooms will be added later)

**Conference location:**

University Conference Center, Close-Hipp Building (8<sup>th</sup> Floor), University of South Carolina

**THURSDAY 16 MAY**

**8:30 – 9:00**            **Registration (XX)**

**9:00 – 9:15**            **Opening session (XX)**

**9:15 – 10:30**         **Plenary Lecture 1**

Chiara Ambrosio (University College London): **The Art of Doing**  
Chair:  
XX

**10:30 – 11:00**         **Coffee Break (XX)**

**11:00 – 12:30**         **Concurrent Sessions 1**

Contributed talks 1A Chair: Julia Bursten <b>Symposium: Sowing a Philosophy of Agricultural Science (41)</b> The Pursuit of Useful Knowledge in Agriculture, 1887–1920	Contributed talks 1B XX <b>Philosophy of cognitive science &amp; psychology</b> Perception, Belief, and the Laws of Appearance <i>Philip Groth (66)</i>	Contributed talks 1C XX <b>Scientific Methodology I (progress &amp; change)</b> Distributive Creativity, Epistemic Environments and Scientific Progress <i>Ioan Muntean (102)</i>	Contributed talks 1D XX <b>Philosophy of Medicine I</b> A Biological and Philosophical Comparison of Early Fetal Tissue and Tumors in the Post-Roe Era	Contributed talks 1E XX <b>History &amp; Philosophy of science</b> The Animal Leyden Jar: Analogy and Exploratory Experimentation in the
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<p><i>Joshua Tonkel</i> Implementing Sustainable Agricultural Practices: A Partial Overlaps Approach <i>Ryan E. McCoy</i> Digging deep in the sociality of interaction: lessons from knowledge-making in potato science <i>Julia Bursten &amp; Catherine Kendig</i></p>	<p>The explanatory power of network dynamics <i>Dingmar van Eck</i> (81) Uncertainty, Control, and Affective Affordances: Towards an Integrated Enactivist Account of OCD <i>Joshua Barden</i> (100)</p>	<p>Epistemic Actions: A Scientonomic Framework <i>Joshua Allen</i> (74) How to Get Pregnant (Or: Pregnancy, Methodology, and Metaphilosophy) <i>Maja Sidzinska</i> (29)</p>	<p><i>Haley Cionfolo &amp; Caleb Hazelwood</i> (5) The Epistemic Risks of Regulation, Side Effect Reporting and the Risk of Wishful Speaking <i>Ilvie Prince</i> (44) Experiments as the target of models: On the validation of computer simulation models in drug regulation <i>HyeJeong Han</i> (78)</p>	<p>History of Electrophysiology <i>Richard Vagnino</i> (42) Mound Builders and Mound Blunders: 19th Century Archaeology and the Image of Science <i>TJ Perkins</i> (67) How HPS can enhance scientific learning and inquiry today: the case of electrolysis <i>Hasok Chang</i> (95)</p>
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**12:30 – 14:00**      **Lunch**

Suggested places for lunch:  
XX  
XX

14:00 – 16:00

Concurrent Sessions 2

<p>Contributed talks 2A Chairs: Federica Bocchi &amp; Stefano Canali <b>Symposium: Demanding Evidence and Addressing Justice at the Intersection of Health and Environmental Sciences</b> (31) Two senses of ‘evidence’ in Evidence-Based Conservation <i>Federica Bocchi</i> Discursive entrenchment: genetic epidemiology in precision medicine <i>Ariane Hanemaayer</i> Can Wearables Fix Validity in Evidence-Based Medicine? <i>Stefano Canali</i> Are Protected and Conserved areas effective for biodiversity conservation? A reflection on Methods and tools for decision-making <i>Helena Alves Pinto</i></p>	<p>Contributed talks 2B XX <b>Philosophy of Biology I (evolution)</b> Larger-Scale Databases and Research on Human Evolution <i>Matilde Carrera</i> (110) Individualized niche construction in population-environment systems <i>Marshall Abrams</i> (103) Disentangling Domestication: Are Humans Domesticated? <i>Jason Zinser</i> (62) Rethinking Time in Heterochrony <i>Cassandra Zie Yang</i> (72)</p>	<p>Contributed talks 2C XX <b>Scientific Methodology II (pluralism &amp; disagreement)</b> Multiverse analysis as a plausible solution to the replication crisis <i>Mariusz Maziarz</i> (17) The Evidential Significance of Model Disagreement <i>Matthew Maxwell</i> (69) Dissent as an Internal Self-Control Mechanism <i>Ann-Christin Fischer</i> (9) Pragmatic Pluralism <i>Erman Sozudogru</i> (47)</p>	<p>Contributed talks 2D <b>Ethics &amp; Scientific Integrity</b> The construction of GE mosquitoes with gene drives as the solution to the high incidence of mosquito-borne diseases: An epistemically and ethically responsible scientific practice? <i>Zahra Meghani</i> (55) Academic Discussions on Human Enhancement Meet Science: A Quantitative Analysis <i>Tomasz Żuradzki, Piotr Bystranowski &amp; Vilius Dranseika</i> (86) Epistemic self-servingness – The corrupting effects of seeking knowledge <i>Alexander Christian</i> (92), How Can We Know if You’re Serious? Ethics Washing, Trustworthy AI, and Science Governance in Practice <i>Justin Biddle</i> (117)</p>	<p>Contributed talks 2E <b>Philosophy of Physics &amp; Astronomy</b> Back to the Problem of Space <i>Joshua Eisenthal</i> (25) Signatures: A core concept from particle physics practice and its philosophical significance <i>Michael Stoeltzner &amp; Peter Maettig</i> (38) ‘Instruments of Our Own Species’: How Observational Elitism in Astronomy Delayed the Discovery of Personal Observational Differences <i>Matthew D. Lund &amp; Janna Katharina Müller</i> (98) Deux clefs de la Physique : Calculation and Experiment in Du Chatelet’s Physics of Fire <i>Michael Veldman</i> (109)</p>
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**16:00 – 16:30**      **Coffee Break (XXX)**

**16:30 – 18:00**      **Concurrent Sessions 3**

<p>Contributed talks 3A</p> <p><b>Philosophy &amp; Scientific Practice</b>          Scientific Practice &amp; the Metaphysics of History  <i>Adrian Currie</i> (8)          Scientific Practice and a Fourth Dogma of Empiricism  <i>Joseph Rouse</i> (30)          Searching for the Big Picture in Philosophy of Scientific Practice  <i>Beckett Sterner</i> (111)</p>	<p>Contributed talks 3B</p> <p><b>Philosophy of Neuroscience</b>          On Generalizing Stipulated Functions  <i>Caitlin Mace</i> (84)          Mapping the Brain - the tyranny of Hubel and Wiesel  <i>Stuart Firestein</i> (10)          Beyond One-Size-Fits-All: Reframing Cognitive Variations and Individual Differences in Cognitive Science and Neuroscience Research  <i>Yi-Hsuan Kao</i> (53)</p>	<p>Contributed talks 3C</p> <p><b>Scientific Methodology III (causation)</b>          Against standardising mean differences  <i>Ina Jäntgen</i> (64)          No Cause for Concern: Why even indefinitely many potential confounders do not undermine randomized experiments  <i>Raphael Scholl &amp; Fabio Molo</i> (88)          From metaphysics to epistemology of causal production: using variation to trace transmission of information  <i>Phyllis Illari &amp; Federica Russo</i> (46)</p>	<p>Contributed talks 3D</p> <p><b>Science &amp; Society I</b>          The President and the Hurricane  <i>Brandon Boesch</i> (13)          Science and societal problems  <i>Julie Mennes</i> (91)          Standpoint Theory &amp; Science Policy: Indigenous Peoples and Wildfire Management  <i>Adam Smith</i> (104)</p>	<p><del>Contributed talks 3E</del></p>
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**18:30 – 20:30**      **Welcome event (cocktail hour) at [701 Whaley](#).**

**FRIDAY 17 MAY**

**9:15 – 10:45**

**Concurrent Sessions 4**

<p>Contributed talks 4A</p> <p><b>Research across Disciplines &amp; Cultures</b>          Organized Entanglement: A Case Report of Casual Interdisciplinary Organization in a Biological Research Project  <i>James Griesemer &amp; Elihu Gerson</i> (83)          Interdisciplinary Research &amp; Integration in Social Robotics  <i>Erik Weber &amp; Julie Mennes</i> (57)          “Yes   No   Other”: Error, Uncertainty, and Ontic Risk in Cross-Cultural Databases  <i>Andrew Buskell</i> (15)</p>	<p>Contributed talks 4B</p> <p><b>Philosophy of Biology II</b>          Dynamic Monism for Biological Function  <i>Milan Ney</i> (68)          Models of Information in Structural Biology  <i>Agnes Bolinska</i> (107)          A Framework for Evaluating Behavioral Traits  <i>Lauren Wilson</i> (63)</p>	<p>Contributed talks 4C</p> <p><b>Scientific Methodology IV</b>          Crafting Scientific Narratives  <i>Devin Gouvêa</i> (75)          Evaluative Categories and their Blinding Effect  <i>Simon Brausch &amp; Sam Ducourant</i> (28)          Error Repertoires  <i>Douglas Allchin</i> (21)</p>	<p>Contributed talks 4D</p> <p><b>Philosophy of Artificial Intelligence I (explainability &amp; opacity)</b>          Why is it (still) Difficult to Understand Black-Box Models? Explainable Artificial Intelligence and the Experimenters’ Regress  <i>Siyu Yao</i> (32)          Explainability with Large Language Models: The Meta-Explainability Problem  <i>Alberto Termine, Andrea Ferrario &amp; Alessandro Facchini</i> (49)          Of Opaque Oracles - AI poses no new problems for social epistemology of scientific knowledge  <i>Jakob Ortmann</i> (52)</p>	<p><del>Contributed talks 4E</del></p>
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**10:45 – 11:15**

**Coffee Break (XXX)  
 Poster session (XXX)**

**11:15 – 12:30 Plenary Lecture 2**

Leah McClimans (University of South Carolina): **TBD**  
 Chair: ?  
 XXX

**12:30 – 14:00 Lunch**

**14:00 – 16:00 Concurrent Sessions 5**

Contributed talks 5A	Contributed talks 5B	Contributed talks 5C	Contributed talks 5D	Contributed talks 5E
Chair: Dana Matthiessen <b>Symposium:</b> <b>Measurement Across the Life Sciences: Conceptual Issues (35)</b> Measurement in High-Throughput Biology: Moving Beyond the “Objective” and “Data-Driven” Ideals <i>Dana Matthiessen</i> Measuring and Extending Biological Sex <i>Marina DiMarco &amp; Aja Watkins</i> Measuring Biological Function in Biomechanics <i>Alan Love</i> Measurement of Fitness and Estimation of its Properties <i>Ruth Shaw</i>	<b>Miscellaneous</b> Reversing Gene Drives: Insights from the Art of Restoration <i>Monika Piotrowska (37)</i> Decoding Sustainability: A comparison between Life Cycle Assessment and the Institutional Compass <i>Maria del Rosario Martinez Ordaz, Michèle Friend &amp; Ahmad Yaman Abdin (97)</i> Colonialism in the Geosciences: A Closer Look at Extractive Practices <i>Leticia Castillo Brache (114)</i> Normative Work for Concept Functions: From	<b>Science Communication</b> A pink lie: How France fell in love with a placebo <i>Juliette Ferry-Danini (19)</i> When is it rational to distrust scientists? <i>Sally Geislar &amp; Bennett Holman (70)</i> Sensational cognitive claims <i>David Colaço (82)</i> What Is Epistemic Intimidation, and What Should We Do About It? <i>Manuela Fernández Pinto &amp; Anna Leuschner (89)</i>	<b>Philosophy of Medicine II</b> The Value of "Research" in Osteopathic vs Allopathic Medical Education: A conceptual analysis in context <i>Devora Shapiro 40</i> Data Integrity Through Validation Method Revelation in Real-World Evidence <i>Yun-Ying Kuo &amp; Karen Yan (26)</i> Using the interventionist theory to unify exploratory and hypothesis-driven activities in biomedical research <i>Yin Chung Au (48)</i>	<b>Metaphysics of Science</b> Natural Selection, Scientific Practice, and the Boundaries of a Biological Individual <i>Caleb Hazelwood (33)</i> Pragmatic Idealism <i>Christopher Spano (54)</i> Mathematics and the meshing of plans: Doctrine, Drill, and Shared Agency <i>Elliott Hauser (116)</i> Reconciling Process and Structure: Towards a Process-based Ontic Structural Realism <i>Yihan Jiang (22)</i>

	Scientific Concepts to Conceptual Engineering <i>Ingo Brigandt (16)</i>		Values in Psychosocial Measurement <i>Sebastian Rodriguez Duque (99)</i>	
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**16:00 – 16:30**      **Coffee Break (XXX)**  
**Poster session (XXX)**

**16:30 – 18:00**      **Concurrent Sessions 6**

Contributed talks 6A  Chair: Aja Watkins Symposium: Philosophy on Fire. Evidence, Ethics, and Explanations in Fire Science and Fire Policy (39) Regime change, new tinder, and fire ecology in a novel pyrocene <i>Derek Halm</i> Evidence in Fire Science <i>Aja Watkins</i> Climate Change, Wildfires, and Causation <i>Jay Odenbaugh</i>	Contributed talks 6B  <b>Science &amp; Society II (evidence-based policy)</b> Evidence in Evidence-Based Management: Challenging Weber et al. (2023) <i>Paride del Grosso &amp; Kato Van Roey (51)</i> Counteractive Mechanisms and Effect Indeterminacy in Evidence-based Policy <i>Qianru Wang (36)</i> Using Scientific Knowledge to Democratize Authoritarian Societies <i>Viorel Pâslaru (115)</i>	Contributed talks 6C  <b>Philosophy of artificial Intelligence II</b> Artificial Intelligence Benchmarks and Degenerating Research <i>Catherine Stinson (77)</i> Promises and perils of big data: Philosophical constraints on chemical ontologies <i>Rebekah Duke, Ryan McCoy, Chad Risko &amp; Julia Bursten (80)</i> The rise of the robots: automation, AI, and the future of research <i>Stephan Guttinger (96)</i>	Contributed talks 6D  <b>Philosophy of Biology III</b> The Future of the Model Organism Repertoire <i>Rachel Ankeny &amp; Sabina Leonelli (14)</i> Model Systems Across the Lab and the Field: Organismal Samples <i>Emma Cavazzoni &amp; Sabina Leonelli (23)</i> Specialisation of stem cell biology and its downside: Three case studies <i>Yoshinari Yoshida &amp; Sabina Leonelli (113)</i>	<del>Contributed talks 6E</del>
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**19:00**      **Conference diner (BBQ)** in the garden of the [Anne Frank Center](#) on campus

**SATURDAY 18 MAY**

**9:15 – 10:45 Concurrent Sessions 7**

<p>Contributed talks 7A</p> <p>Chair: Celso Neto</p> <p><b>Symposium: Individuality and Genealogy Across Living Systems</b> (61)</p> <p>Phylogenetic Complexity and its Consequences <i>Maureen Kearney</i></p> <p>Applying the Recursive Account of Individuality <i>Matt Haber</i></p> <p>Individuating Human Lineages <i>Celso Neto</i></p>	<p>Contributed talks 7B</p> <p><b>Science &amp; Values</b></p> <p>A Virtue Epistemological Rejection of the Value-Free Ideal <i>Sindhuja Bhakthavatsalam</i> (76)</p> <p>Science and Value: An Empirical Analysis <i>Myron Penner, Amanda Nichols &amp; Matthew Billet</i> (56)</p> <p>Revitalizing the Value-Free Ideal of Science: The Temporal Role of Values <i>Hanyu Ma</i> (20)</p>	<p>Contributed talks 7C</p> <p>Chair: Erik Weber</p> <p><b>Scientific Explanation</b></p> <p>Computational Explanations as a Guide to What is Worth Explaining <i>Annabelle Tao</i> (123)</p> <p>Scientific explanations in the wild: on learning from case studies in the philosophy of science in practice <i>Julie Schweer</i> (58)</p>	<p>Contributed talks 7D</p> <p><b>Philosophy of Medicine III</b></p> <p>Loving Ignorance, Expert Trustworthiness, and Patient Integration in Psychiatric Research <i>Manasa Gopakumar</i> (24)</p> <p>Toward an Affective Account of Distrust in Medical Science <i>Katherine Furman</i> (45)</p> <p>A cross-cultural study on the ethics and moral psychology of HPV vaccination <i>Andrea Quint, Phuc Nguyen, María Alejandra Petino Zappala &amp; *Nora Heinzelmann</i> (50)</p>	<p><del>Contributed talks 4E</del></p>
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**10:45 – 11:15 Coffee Break (XX)**

**11:15 – 12:30 Plenary Lecture 3**

<p>Sean Valles (Michigan State University): <b>Being A Philosopher of Science In Practice, in an Inequitable World</b></p> <p>Chair: XX</p>
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**12:30 – 14:00**      **Lunch**

**14:00 – 15:00**      **Closing session**

14.00 -- 14:15	Closing remarks
14:15 -- 15:00	SPSP business meeting (all participants welcome)
XX	