

**Wednesday 15 July**

**Society for Philosophy of Science in Practice (SPSP)  
11<sup>th</sup> Biennial Conference  
Cambridge, UK  
15–18 July 2026**

**Conference Program (session chairs to be added)**

**Tuesday, 14 July**

**5–9pm Pre-conference social event (Novi, 12 Regent Street)**

**Wednesday, 15 July**

**9.00am–10.15am Registration and coffee (University Centre)**

**10.30am–10.45am Opening (Babbage Lecture Theatre)**

**10.45am–12.15pm Keynote 1 (Babbage LT): Ulana Feest, "The Fine Print of Experimental Inferences in Psychology and Beyond" (Chair: Hasok Chang)**

**12.30pm–1.30pm Lunch (Dining Hall, University Centre)**

**1.30–3.00pm Parallel Session 1 (1.5 hours)**

**1A. Symposium: "The Institutional Turn in Science and Values" (Hicks Room, University Centre)**

**Faik Kurtulmus**, Managing Values in Science: Why Background Institutions Matter

**Anna Leuschner and Kevin Elliott (symposium organizers)**, Institutionalizing Values and Science: The Value-Ladenness of Methodological Standardization in Troubled Times

**Ahmad Elabbar**, Collective Inquiry and Conscientious Disobedience: Epistemic Conventions, Bias, and the "Greenhouse Detection Problem," circa 1990

**1B. Symposium: "Evidential Pluralism in Practice" (Cormack Room, University Centre)**

**Jon Williamson**, Evidential pluralism and evidence review

**Michael Wilde (symposium organizer)**, Evidential pluralism and medical education

**Alexandra Trofimov**, Evidence-based law

**1C. History of Philosophy of Science (Riverside Room, University Centre)**

**Ovidiu Babeş**, What's Wrong with Circles and Lines? Early Moderns against Mathematical Sciences of Nature

**Max Dresow**, The Road Not Taken: Stephen Toulmin and the Primacy of Practice in (Mid-Century) Philosophy of Science

**Fons Dewulf**, The Socio-Cultural Origins of Modern HPS

**1D. Models and Perspectives (Meade Room, University Centre)**

**Grant Fisher**, *In vitro* models and replacement alternatives in toxicology: Exemplification, representation, and disruption

**Christina Ni and Karen Yan**, Making epistemic perspectives explicit: The case for explicit causal-variable assumptions in psychedelic trial reporting

**Clément Lasselin and Alexis Geisler-Roblin**, Model-based interpretations of field study results in geology and the risk of idealization-alignment

**1E. Extrapolation in the Life Sciences [60-minute session] (Board Room, HPS Department)**

**Yoshinari Yoshida**, Transferring cells from zoos to laboratories: The issue of accessibility in "cellular anthropology," and its epistemic consequences

**Patrick McGivern**, Extrapolating from tissue models

**1F. Symposium: "Philosophy of Forensic Science" (Learning Gallery, Whipple Museum, HPS Department)**

Chair: Saana Jukola

**Saana Jukola and Enno Fischer (symposium organizer)**, Social epistemology of expert disagreement in forensic medicine

**Alexander Gebharter and Michał Sikorski**, The relevance principle from a causal perspective

**Edoardo Peruzzi**, On the role of scientific models in the law

**General discussion** (30 minutes)

**1G. Measurement in Biomedicine (Seminar Room 2, HPS Department)**

**Sebastian Rodriguez Duque**, The ethics of measurement: Measurement-based care in youth mental health

**Jolien C. Francken**, A philosophical toolbox for improving measurement in cognitive neuroscience

**Yun-Ying Kuo**, Measurement as epistemic scaffolding: The role of patient-centered measurement in clinical practice

**1H. Rethinking Concepts (Cockcroft Lecture Theatre, Cockcroft Building)**

**Maël Lemoine**, Can conceptual analysis be scientifically relevant?

**Charles Pence**, Digital humanities and concepts in practice

**Marina DiMarco**, Imprecise sexes

**3.00–3.30pm Coffee (Dining Hall, University Centre; AND Seminar Room 1, Department of HPS)**

**3.30–5.30pm Parallel Session 2 (2 hours)**

**2A. Symposium: "Scientific Consensus in the Wild: The Methodological, Epistemic, and Political Foundations of the Institute for Ascertaining Scientific Consensus (IASC)" (Hicks Room, University Centre)**

**Peter Vickers**, Towards an Institute for Ascertaining Scientific Consensus: Lessons from Three Global Pilot Studies

**Owen Towler and Jesse Hamilton (symposium organizer)**, Between Deference and Denial: How Scientific Consensus Mapping Democratizes Public Policy

**Rory Jubber**, IASC for the Birds?

**Haixin Dang**, commentary

**2B. Symposium: "Equitable Open Science: A Practice-Based Philosophical Approach" (Cormack Room, University Centre)**

**Emma Cavazzoni (symposium organizer)**, Tensions in Preparing and Maintaining the Feld for Data-Intensive Plant Science Research: When Standardized AI Meets Local Complexity

**Nathanael Sheehan**, Closed-Openness in Practice: A Comparative Analysis of Data Sharing Across Diverse Research Environments

**Rachel A. Ankeny (and Cassandra Sedran-Price)**, Strategies for Open Science with Indigenous Data in the Life Sciences in Australia

**Sabina Leonelli**, Towards Equitable Open Science: Addressing Structural Injustice

**2C. Symposium: "Mathematics in Practice: A DMRCP (Diversity of Mathematical Research Cultures and Practices) Symposium"**

Chair: **Benedikt Löwe** (symposium organizer)

**Deborah Kant**, Approaches to mathematical practices

**Mikkel Willum Johansen**, Investigating mathematical diagrams using empirical methods

**Matthew Inglis**, How does the believability of true mathematical statements influence the inferences that mathematicians draw from them?

**2D. New Directions in the Philosophy of Science in Practice (Meade Room, University Centre)**

**Hakob Barseghyan (and Dubian Cañas)**, Interface Ontologies for Collaborative Integrated HPS

**Chen Long Guo**, Explaining with Networks in the Social Sciences

**Tvrtko Vrdoljak**, More-than-Human Explanation: Epistemic Payoffs of non-Sociocentric Historiography

**Alberto Cordero**, Active Knowledge for Realists

**2E. Pluralism and Explanation in the Psychological Sciences (Board Room, HPS Department)**

**Michael Young**, Disorders of Consciousness and Varieties of Dysfunction

**Yen-Tung Lee and Karen Yan**, Progress in Psychology: A Practice-First Reconstruction

**Luiza Yuan and Dingmar van Eck**, Improving Theory-Building in Psychology by contrastive explanation

**Johanna Silva-Stüger**, Integration in Psychotherapy: From Ideals of Unification Towards Assimilative Pluralism

**2F. Symposium: "Navigating Broad Shallows and Narrow Depths in the Study of a Large Interdisciplinary Life Sciences Research Project" (Learning Gallery, Whipple Museum, HPS Department)**

**James Griesemer (symposium organizer)**, Natural History of Thickety Social Experiments in Interdisciplinarity: The ADF Program, 2022-2024

**Kelli Barr and Andrew Bollhagen**, Talking It Over: Toward a Social Epistemology of Deliberation in Science

**Shane Jinson**, Bringing It All Back Home: Interdisciplinary Workers from Diverse Social Worlds Unite Large Collectives with Common Knowledge

**2G. New Work on Mechanisms (Seminar Room 2, HPS Department)**

**William Bechtel**, Overcoming Over-localization of Function: Insights from Circadian Biology

**Saúl Pérez-González**, Making Evidence of Mechanisms More Reliable

**Kristian Barman and André Curtis-Trudel**, What's Mechanistic in Mechanistic Interpretability?

**María Jiménez-Buedo and Saúl Pérez-González**, The Elusive Catalogue: Mechanisms and Generality in the Practice of Analytical Sociology

**2H. History and Philosophy of Cosmology and Astronomy [60-minute session] (Cockcroft Lecture Theatre, Cockcroft Building)**

**Sarwar Ahmed**, The Epistemology of Multi-Messenger Observations

**Andrés E. Vázquez-Quijano**, Why "Predictive Fertility" Fails as a Criterion of Theory Choice in Cosmology?

**5.30–8.00pm Drinks reception and Poster session (Dining Hall, University Centre)**

**Please see the end of this document for the list of all posters and poster presenters.**

**Thursday, 16 July**

**9.00–10.30am Parallel Session 3 (1.5 hours)**

**3A. Symposium: "Resistance to Reduction: Mindfulness, Hallucination, and Empathy in the Lab and in the Clinic" (Hicks Room, University Centre)**

**Riana Betzler**, A Dose of Empathy?

**Agnes Bolinska (symposium organizer)**, Mindfulness as an "Active Ingredient"?

**Michael Dickson**, Chasing Shadows: The Laboratory Study of Hallucination

**3B. Symposium: "After the Practice Turn: What's Next?" (Cormack Room, University Centre)**

**Caleb Hazelwood** (and Aja Watkins, symposium organizer), The Purview and Fruitfulness of Practice-Oriented Philosophy of Science

**Morgan Thompson**, Limitations of Parker's Epistemic Projection Account of Legitimate Values in Science

**Jacqueline Mae Wallis**, Making Flies, Organoids, Simulations, and Mice Play Nice: Evaluating Experimental Ensembles in Translational Biomedical Research

**3C. Symposium: "Frameworks for Reparative Science"**

**Hannah Allen (symposium organizer)**, Practicing Pursuitworthiness: Promotoras and Community-Based Science in the Colonias

**Ian Peebles**, Disentangling Race-Based Discriminations

**Jada Wiggleton-Little**, Missed in a Missed Disease: Nonwhite Women with Endometriosis and the Right to be Known

**(No Session 3D)**

**3E. Expertise, Identity and Governance (Board Room, HPS Department)**

**T. K. Blesil**, Rethinking Interactional Expertise in Gravitational Wave Science

**Jonathan Hall and Mila Rosa Carden**, Embodied Scientific Practice: Identity Development and Epistemic Innovation Among Scientists With Disabilities

**Sergei Shevchenko**, Active or Organized Matter: When Biological Experiments Bridge Theory and Governance

**3F. Symposium: "Institutional Neutrality" (Learning Gallery, Whipple Museum, HPS Department)**

**Francesco Nappo**, Whose pathways? Evaluating Ensembles of Emission Scenarios

**Ann-Christin Fischer and Kevin Elliott**, Ignorance by Design: Endometriosis and the Injustice of Scientific Standards

**Ezgi Sertler (symposium organizer)**, Institutional Neutrality: Problems, Commitments, Concerns

**3G. Symposium: "Investigating Biological Variation" (Seminar Room 2, HPS Department)**

**James Lowe (symposium organizer)**, Constituting Variables in Causal AI

**Cristina Villegas**, Modeling Evolutionary Variation with Causal Probability

**Alan C. Love**, What is a Trait That It Might Vary? Genetics and Variation in Developmental Biological Practice

**3H. Symposium: "Public, Democratic, Amateur: Different Modes of Doing Science", Part 1 (Cockcroft Lecture Theatre, Cockcroft Building)**

**Sophie Veigl**, Use-based experts are turning away from science — but where are they going?

**Elis Jones (symposium organizer)**, Measuring ecosystem health

**Rena Alcalay**, Creeping doubt of chronicity

**Anna Alexandrova**, commentary

**10.30–11.00am Coffee (Dining Hall, University Centre; AND Seminar Room 1, Department of HPS)**

**11.00am–12.30pm Parallel Session 4 (1.5 hours)**

**4A. Symposium: "Institutions in Practice: Rethinking Scientific Organizations" (Hicks Room, University Centre)**

**Torsten Wilhott**, Science and the Government: Two Forms of Politicization

**Justin B. Biddle (symposium organizer)**, Managing Values through Ethics Boards: Limitations and Tradeoffs

**Haixin Dang**, Transparency and Its Discontents: Rethinking Openness in Scientific Institutions

**Joyce C. Havstad**, What's Wrong with Publish or Perish?

**4B. Symposium: "Ethical and Methodological Challenges in Human Population Genetics" (Cormack Room, University Centre)**

**Celso Neto (symposium organizer)**, Signal and noise in human population genetics

**Yasmin Haddad**, Adequacy-for-purpose and ancestry inference

**Matilde Carrera**, Underdetermination in demographic inferences: The case of parameter unidentifiability

**4C. Symposium: "Applying Knowledge in Practice: Epistemology, Methodology, and Legitimacy" (Riverside Room, University Centre)**

**Henk-Jan van den Brink**, Epistemic and methodological consequences of orienting science towards applications: The case of biomass chemistry in the context of the chemical industry

**Karoliina Pulkkinen (symposium organizer)**, From a maid of industry to its mother: A closer

examination of output legitimacy of science and technology

**Mieke Boon**, How is it possible to apply knowledge? Conceptual modelling as scientific methodology

**4D. Models, Risk and Uncertainty (Meade Room, University Centre)**

**Malvina Ongaro** (and Lorenza Petrini), An integrative perspective on models for multi-risk research

**Rafaela Hillerbrand and Claudia Eckert**, Content and process models as a tool in (philosophy of) science

**Paul-Edouard Gerard** (and Nicolas Brault and Michel Dubois), When farmers make experiments, they sometimes bet on the unexpected — and this is not serendipity

**4E. Tools of Discovery and Learning (Board Room, HPS Department)**

**Matteo Costa**, When Anomalies Become Possibilities: Serendipity and the Co-Emergence of New Affordances in Scientific Discovery

**Hanti Lin**, A Plea for History and Philosophy of Statistics and Machine Learning

**Clara Jing Hohmann**, Not What, but How is Epistemic Plurality in Engineering? A Cross-cultural Comparison of Irrigation Practices

**4F. Symposium: "Early Modern Scientific Practice from Margaret Cavendish's Perspective" (Learning Gallery, Whipple Museum, HPS Department)**

**Kirsten Walsh (symposium organizer)**, Navigating agential distance: Cavendish on the pitfalls of experimentation

**Maria Del Mar Yunis**, Maker's knowledge in the imaginary world: The poetic science of Margaret Cavendish and Giambattista Vico

**Peter West**, What if Cavendish had been a member of the Royal Society? Counterfactual theorising about historical and intellectual networks via computer network simulations

**4G. Symposium: "Paleosciences Beyond Earth: Evidence, Narrative, and (the Limits of) Analogy" (Seminar Room 2, HPS Department)**

**Franziska Reinhard (symposium organizer)**, Martian-Leopard Spots, Iteration, and One-Shot Science

**Siyu Yao**, From Hot Jupiter to Jupiter: Narratives, Knowledge-How, and Exoplanetary Science as Epistemic Resource

**Matthew Brewer**, Classification, Analogical Reasoning, and Uniformitarian Assumptions in Planetary Science

**4H. Symposium: "Public, Democratic, Amateur: Different Modes of Doing Science", Part 2 (Cockcroft Lecture Theatre, Cockcroft Building)**

**Evan Josselin**, The democratic promise of citizen science: Clarifying an ambiguous concept

**Richard Williams**, The Feasibility Power of Experts

**Overall discussion of papers from both parts of the symposium**

**12.30–1.30pm Lunch (Dining Hall, University Centre)**

**12.45–1.30pm Meet the Journal Editors (Cormack Room, University Centre)**

**Chair: Rachel Ankeny**

Do you have questions about publishing in science in practice-related journals that you have been afraid to ask? Want to get reinvigorated about publishing that article sitting in the 'bottom drawer'? Trying to make a more informed choice about your target journal? This session is for you! Please join us for an informal session including Q&A with editors from many of the major philosophy of science-related journals. You can pick up food from the main conference lunch and bring it with you to the meeting room. Please contact [rachel.ankeney@wur.nl](mailto:rachel.ankeney@wur.nl) for more information.

**1.30–3.30pm Parallel Session 5 (2 hours)**

**5A. Symposium: "Is Philosophy of Science in Practice the Best Way to Realize the Science-Philosophy Continuum?" (Hicks Room, University Centre)**

**James Ladyman**, Natural Philosophy: Science in Philosophical Practice and Philosophy in Scientific Practice

**Thomas Pradeu (symposium organizer)**, Philosophy in Science vs. Philosophy of Science in Practice: Antagonism or Complementarity?

**Héloïse Athea** (and Lucie Laplane), PhilLabo: Philosophy in the Laboratory

**Marie I. Kaiser**, How Interdisciplinarity Works in Practice: Lessons from Collaborations Between Biology and Philosophy

**5B. Symposium: "Methods of Integrated History and Philosophy of Science" (Cormack Room, University Centre)**

Chair: Agnes Bolinska

Symposium organizer: Hasok Chang

**Mauricio Suárez**, Case Studies, Historical Episodes, and Integrated History and Philosophy of Science

**Thomas Bonnin**, Complementary Architecture: Contemporary Lessons from the First Modern Hospitals

**Hauke Riesch**, Prophecy and Science

**Jan Baedke**, Local Plant Knowers and Epistemic Injustice: Linking the History of Botany with Biodiversity Conservation through Virtual Herbaria

**Rachel Ankeny**, commentary

**5C. Symposium: "Towards a Comparative Philosophy of Science"**

Chair: Karim Bschr and Simon Lohse

**Karim Bschr and Simon Lohse (symposium organizers)**, Introduction: From Fragmentation to Comparative Philosophy of Science

**Federica Russo**, Data Generation and Analysis Across the QUALitative-QUANTitative Spectrum: A reassessment and a Proposal

**Raphael Scholl**, Revisiting Styles of Scientific Thinking

**Henk de Regt**, Scientific Understanding Across Disciplines: *in varietate concordia?*

**Discussion** (20 mins)

**5D. New directions in Biology (Meade Room, University Centre)**

**Elian Schure**, Transitioning South Africa: an examination of the "transition" framework in South African gut microbiome research

**Julia Tinland**, Mapping the epistemological, operational, and ethical challenges of genomic risk stratification in oncology: Insights from a narrative literature review

**Predrag Šustar**, Exposomics' functional profile

**Parvathi Vijay and Ignazio Arrabito**, What makes Big Biology worth pursuing? New dimensions of scientific value

**5E. New Directions in the Philosophy of Social Science (Board Room, HPS Department)**

**Charlotte Constanze Poller**, Between Thickness and Comparability: Value Pluralism and Measurement Drivers in Global Well-Being Metrics

**Tatu Nuotio**, Towards a Pluralistic Account of Social Norms' Influence for Behavioral Policy

**Paride Del Grosso**, Supporting the Validity of the 'Variety of Evidence Thesis': Evidential Pluralism in Evidence-based Management

**Yihui Cheng**, Niche Construction Theory as an Explanation-Seeking Strategy in Sociology

**5F. Symposium: "Making Data Speak: Philosophy of Archaeology in Practice" (Learning Gallery, Whipple Museum, HPS Department)**

**Mathilde Lequin (symposium organizer)** (and Adeline Le Cabec), Investigating the Value of Digital Data in Archaeology

**Andra Meneganzin**, Taming Comparative Innovativeness In the Middle Pleistocene

**Anton Killin** (and Ross Pain), Locating Normativity in the Archaeological Record

**Chiara Pertile and Mathilde Lequin** (and Solange Rigaud), Bridging Observed and Inferred Behaviour: Toward a Primate Model for Archaeology

**5G. Symposium: "Maps, Graphs and Sonifications: Data Viz and Scientific Practice(s)" (Seminar Room 2, HPS Department)**

**Brandon Boesch**, Representational Licensing of Snowfall Forecast Maps

**Corey Dethier (symposium organizer)**, The Case of the Mislabeled Axis

**Jamee Elder** (and Juliusz Doboszewski, *et al.*), Making Black Hole Music

**James Nguyen**, Defending Representationalism

**Thursday 16 July**

**5H. Philosophy of Medicine (Cockcroft Lecture Theatre, Cockcroft Building)**

**Piet Fritz Pankratz**, Iterating Concepts in Endocrinology

**Zdenka Brzović**, When Diagnosis Is Not Classification: Clinical Uncertainty in Rheumatology

**Yin Chung Au**, A Tale of Two Pragmatic Values: On the Translational Gap between Biology and Medicine

**Tatsuyuki Sato**, Outsourcing of Inference in Clinical Medical Research and its Practical Implications

**3.30–4.00pm Coffee (Dining Hall, University Centre; AND Seminar Room 1, Department of HPS)**

**4.00-5.30pm Keynote 2 (Babbage Lecture Theatre): Matthew Lund, “How Scientific Practice Unlocks the History of Science: The Case of the Personal Equation” (Chair: Julia Bursten)**

**6.00–9.00pm Conference dinner: garden party (Leckhampton, Grange Road)**

**Friday, 17 July**

**9.00–11.00am Parallel Session 6 (2 hours)**

**6A. Symposium: "Pragmatic Understanding in Scientific Practice" (Hicks Room, University Centre)**

**Oscar Westerblad (symposium organizer)**, Engineering Methods for Better Understanding

**Michael T. Stuart**, Pragmatic Understanding and Scientific Robotics

**Sebastian de Haro** (and Eline De Jong), A Contextual Approach to Technological Understanding

**André Curtis-Trudel and Siyu Yao**, Deep Learning in Deep Space: How AI Guides Pursuit in Frontier Space Science

**6B. Symposium: "Race, Genetic Diversity, and Health" (Cormack Room, University Centre)**

**Abigail Nieves Delgado**, Global health and the logic of underrepresentation: "Filling the gap" with Global South samples

**Carolina Mayes**, Diversity and disempowerment: Community brokers, epistemic injustice, and the compulsion of genomic representation

**Lauren Wilson (symposium organizer)**, How do considerations of race inform scientific practice in genomic research on human health?

**Matthew Maxwell**, Population subdivision and the search for disease-linked loci: Must K be arbitrary?

**6C. Symposium: "Exiled Empiricists: Academic Practices and Reception of Logical Empiricism"**

**Nina IJdens**, From *Hörsaal* to Classroom: The Reception of émigré Philosophers in American Education

**Claudia Cristalli (symposium organizer)**, The Unity of Science in Practice: Charles W. Morris on Value

**Sander Verhaegh**, *Kulturkampf*: The Cultural Reception of Logical Empiricism in North America

**Ties van Gemert**, Logical Empiricism in France: Scholarly Practices and Moral Virtues

**6D. Scientific Communities and Communication (Meade Room, University Centre)**

**Mikkel Willum Johansen** (and Helene Vindmar), Null-hypothesis testing in preprints

**Henry Weatherburn**, Is the solution to the replicability crisis in science scientific audit?

**Noa Cohen**, Epistemic rights as a framework for promoting integrity in scientific research

**Jaiden Zak**, From glaciers to journals: on the "epistemic gap" in field-based geoscience

**Friday 17 July**

**6E. Evidence-based Policy [90-minute session] (Board Room, HPS Department)**

**Niklas Gärtnner**, What Counts as Evidence? Reconsidering Evidence-Based Policy for Climate Change Adaptation

**Kato Van Roey**, Evidence-Based Policy and Distributive Epistemic Injustice

**Qianru Wang**, From Inductive Risk to Policy-Warrant Risk: Rethinking the Justificatory Role of Systematic Reviews

**6F. Symposium: "Infrastructure as Method: Scaffolding Technologies in Translational Research and Practice" (Learning Gallery, Whipple Museum, HPS Department)**

**Sophia Efstathiou**, Infrastructures of effacement: Structuring human–animal encounters in the animal lab

**Catherine Kendig**, Experimental systems as technological infrastructures: Soil ecology–inspired gut microbiome research

**Robert Meunier (symposium organizer)**, Epistemological consequences of infrastructures as interfaces of translation in biomedicine

**Ariane Hanemaayer**, From research to standard of care: Infrastructures and institutions in the making of a newborn screening program in the NHS

**6G. Symposium: "Technology-driven scientific Change: Conceptual, Historical, and Ethnographic Perspectives on Single-Cell Biology" (Seminar Room 2, HPS Department)**

**Fridolin Gross (symposium organizer)**, Towards theory-free classifications in single-cell biology?

**Meike Wiegand**, From microscopy to single-cell sequencing: Epistemic cultures and multi-modal data integration in cell-type classification

**Ignazio Arrabito**, The Human Cell Atlas project as a case study: Are foundational data resources still relevant for the biomedical community?

**Patrick Ferree**, Why small science lives on: The case of cell atlas makers

**6H. Bias, Trust and Expertise (Cockcroft Lecture Theatre, Cockcroft Building)**

**Manuela Fernández Pinto** (and Allison Wolf, Alejandra Bermúdez Jiménez, and Laura Vargas Santiago), Epistemic Injustices in the Use of Hormone Replacement Therapy Following the Women's Health Initiative (WHI) Study

**Christopher ChoGlueck**, Evolution's Bonus, or the Many Ways to be Biased about Female Orgasm

**Hannah Hillgardt and Hanna Metzen**, Trust in and the Authority of Science: Why it is Worth Distinguishing

**Anatolii Kozlov and Helene Scott-Fordsmand**, Philosophers and Scientists in Practice: Building Local Research Cultures with Field Philosophy

**Friday 17 July**

**11.00–11.30am Coffee (Dining Hall, University Centre; AND Seminar Room 1, Department of HPS)**

**11.30am–12.30pm Parallel Session 7 (1 hour)**

**7A. History and Philosophy of Experiments (Hicks Room, University Centre)**

**Pieter T. L. Beck**, Laboratory Learning: Epistemic Virtues and Teaching Practices in 19th-Century Experimental Chemistry

**Michael Stoeltzner**, Inventing Fluctuations: Philosophical Practices in Looking Through the Microscope

**7B. New Biomedical Technologies (Cormack Room, University Centre)**

**Qiman Liu**, The Medicalization of the Cyborg: How Smart Wearable Devices Reshape Our Understanding of Health

**Anaïs Rameau**, Examining Epistemic and Ethical Practices in Voice Data Collection among Voice Biomarker Industry Researchers

**7C. Rethinking Patients (Riverside Room, University Centre)**

**Daan Kenis**, Participatory Research as Epistemic Repair: The Case of R2D2-MH

**HyeJeong Han, Yun-Ying Kuo, and Karen Yan**, What is Patienthood in Clinical Practices? A Tool-First Approach to Conceptual Engineering

**(No session 7D)**

**7E. Mechanistic Explanations in Biology (Board Room, HPS Department)**

**Yichu Fan**, Different Theories of Constitutive Relevance Relation as Conceptual Tools for Mechanistic Discovery in Neurobiology

**Emmanuelle Maciel**, Integrating Omics in the Practices of Molecular Biology Small Labs: Experimental Units and Mechanistic Explanations

**7F. Ecosystems and Earth Sciences (Learning Gallery, Whipple Museum, HPS Department)**

**Andrew Zeppa**, Classifying Change and Changing Classifications: Ecosystem Kinding in an Age of Climate Change

**Pablo Lima**, Geopolitics, Diplomacy and International Collaboration: Expanding the Boundaries of HPS in Ocean Sciences

**7G. Brain and Behavior (Seminar Room 2, HPS Department)**

**Maria Serban**, Methodological Tractability and Explanatory Adequacy: Reconceptualising the Individual-Population Debate in Neuroscience

**Ludo Schoenmakers**, Understanding Animal Behaviour: What's Good for the Goose...?

**Friday 17 July**

**7H. Quantum Mechanics in Practice (Cockcroft Lecture Theatre, Cockcroft Building)**

**Matthew Brown**, Nancy Cartwright's Philosophy of Quantum Mechanics in Practice

**Thijs Latten**, The Ontology of Engineering a Quantum Computer: Connecting the Interpretations of Quantum Mechanics to Engineering Practice

**12.30–1.30pm Lunch (Dining Hall, University Centre)**

**12.45–1.30pm Meet the SPSP Newsletter Team (Cormack Room, University Centre)**

**Chair: Elis Jones**

Are you interested in contributing to the SPSP newsletter? Since 2012, a group of volunteers has maintained a twice-yearly newsletter for SPSP members. Join the current team for an informal chat over lunch, with an opportunity to ask questions and discuss the range of ways to potentially contribute. Contributing to the newsletter is a creative, fun and low-commitment way to get to know the wider community and support the society. You can pick up food from the main conference lunch and bring it with you to the meeting room.

Contact [elis.jones@tum.de](mailto:elis.jones@tum.de) for more information.

**1.30–3.00pm Parallel Session 8 (1.5 hours)**

**8A. Symposium/Roundtable: "Aesthetic Directions in Philosophy of Science in Practice: Charting the Field, and Looking at the Future" (Hicks Room, University Centre)**

**Chiara Ambrosio**

**Milena Ivanova**

**Alice Murphy**

(Gemma Anderson-Tempini, *in absentia*)

**8B. Values in Science (Cormack Room, University Centre)**

**Kristina Rolin and Erik Inkinen**, Socially Responsible Science and Engineering in Practice: Promise and Perils of Institutional Policies

**Jakob Ortmann and Kevin C. Elliott**, Reflexivity and the Ethics of Assertion: Revisiting "Values and Science"

**Julia Bursten and Catherine Kendig** (and Jennifer Jhun), Yield: Measurement, Values, and the Aims of Agricultural Science

**Friday 17 July**

**8C. History and Philosophy of Cosmology and Astronomy**

**Anastasiia Lazutkina**, Getting the Antenna Inside the Theory: How the CMB Was Detected Before It Was Discovered

**Janna Müller**, Spotting Planets: Appearance, Motion, and the Making of the Planetary in 19th Century Astronomy

**Nichole Levesley**, Demarcation in Action: Negotiating the Scope of Scientific Cosmology, 1948–1965

**8D. Philosophy of Living Systems (Meade Room, University Centre)**

**Tamar Schneider**, Microbial Entangled Lives: Exploring the Interconnections of Metabolism through Ecofeminism and Indigenous Soil Wisdom

**Jan Pieter Konsman** (and Martin Zach), Putting a Leash on Homeostasis with Constraints from Scientific Practice

**Anaïs Lamoureux**, Rethinking Improvements to the Clonal Evolution Model Through Its Epistemic Purposes

**8E. Methods in the Physical Sciences (Board Room, HPS Department)**

**Manjari Chakrabarty**, The Complex Interplay of Early Modern Science and Technological Practices in the Invention of Newcomen's Engine

**Niall Roe**, The Method of Methods: C. S. Peirce on Statistics and Scientific Practice

**Shaul Katzir**, Coordination and Instrumentation in the Discovery of Seasonal Fluctuations in the Length of the Day

**8F. Philosophy and Scientific Methodology (Learning Gallery, Whipple Museum, HPS Department)**

**Daniele Molinari**, Participation and Immersive Imagination in Thought Experiments

**Brian Robinson and Gina M. Pizzo** (and Chad Gonnerman, Troy Hall, Aaron McCright, and Katie Plaisance), Testing the Disciplinary Assumption: Philosophical Commitments Across Scientific Disciplines

**Julie Mennes and Brian Robinson** (and Chad Gonnerman, Stephen Crowley, Chet McLeskey, and Michael O'Rourke), From Surfacing to Shaping: Rethinking the Toolbox Dialogue Method in the Philosophy of Scientific Practice

**8G. Philosophy and Aging (Seminar Room 2, HPS Department)**

**Alessandro Blasimme** (and Oliver Buchholz), What Are We Measuring When We Measure Age? Accuracy and Actionability in the Clinical Use of Biological Age Clocks

**Sara Green** (and Antonia Kaspar), Promissory Science and the Commodification of Aging

**Amirreza Liaghat**, Epistemic Iteration and Measurement of Aging

**8H. AI and Methodology (Cockcroft Lecture Theatre, Cockcroft Building)**

**Enrong Pan and Ziming Wang**, Non-Causal Unificationist Explanation: A Philosophical Methodology for the Epistemology of Artificial Intelligence

**Gregor Greslehner**, Has AlphaFold Solved the Protein Folding Problem?

**Stefano Canali**, Addressing Artificialisation in Scientific Practice

**Friday 17 July**

**3.00–3.30pm Coffee (Dining Hall, University Centre; AND Seminar Room 1, Department of HPS)**

**3.30-5.00pm Keynote 3 (Babbage Lecture Theatre): Hasok Chang, "PSP, Inquiry and Science Education"** (Chair: Catherine Kendig)

**5.00–5.30pm Closing ceremony (Babbage Lecture Theatre)**

**5.30-6.00pm Business meeting (Babbage Lecture Theatre)**

(Chairs: Chiara Ambrosio, Justin Biddle, and Manuela Fernández Pinto)

## **Saturday, 18 July**

**Please note that space is limited on the Saturday post-conference events, and only those conference attendees who have registered separately for them on Eventbrite are allowed to attend.**

### **9.00am–4.00pm Post-conference Workshop. Science in Translation: Philosophers Communicating Through Media and Museums (Cormack Room, University Centre)**

The Consortium for Socially Relevant Philosophy of/in Science and Engineering (SRPoiSE) and the Center for Public Engagement with Science (PEWS) at the University of Cincinnati are both organizations interested in how science, philosophy, and public discourse can productively engage.

One of the current gaps in knowledge and skills that both organizations are interested in addressing is the lack of understanding and experience among philosophers of science related to how scientists and science-adjacent institutions like museums engage the broader public. We believe that the SPSP attendees in particular will be interested in learning more about these topics and translating that knowledge into different institutional contexts around the world. As a result, SRPoiSE and PEWS are proposing a jointly-hosted workshop to immediately follow the SPSP conference on Saturday, July 18.

The workshop is scheduled from 9am until 4pm and participants will get to choose from a guided tour of the Whipple Museum of the History of Science (Department of HPS), or the Polar Museum (Scott Polar Research Institute). By the end of the workshop, participants will have draft materials to carry out their own science communication activities.

### **5.00-6.30pm The Bookshop Band and Egenis (Performance and Discussion) (Cormack Room, University Centre)**

[The Bookshop Band](#) are the musical offspring of an artistic love-affair between a group of award winning folk songwriters, Beth Porter and Ben Please, and an independent bookshop in the UK, Mr B's Emporium of Reading Delights. The songs are the musical outpouring of the band's own response to books they have read.

Throughout the second half of 2024, Beth and Ben had an artist's residency at [Egenis](#), the Centre for the Study of the Life Sciences at Exeter University, attending lectures, seminars and reading groups, interviewing researchers, and generally soaking up the academic vibes. Out of this, 10 songs were produced and (fitting with their discursive approach to songwriting) they were coupled with responses from the researchers who inspired them. These were performed for several audiences in Exeter in early 2026.

In this session, the Bookshop Band will perform four of these new songs, coupled with responses from Kirsten Walsh and Adrian Currie, followed by a discussion with the audience about the collaborative process of doing philosophy of science with songwriting and songwriting with the philosophy of science.

# List of Posters

## List of Posters and Presenters

(5.30–8.00pm, Wednesday 15 July, Dining Hall, University Centre)

No.	Presenter	Poster Title
1	Ana Maria Possamai	No Atoms, No Chemistry? Dalton's Chemistry Just Before Atomic Theory
2	Anne Fenoy	A Philosophical Approach to Rare Diseases
3	Brendan Kelters	Causal Process Modelling for Better Evaluation and Planning
4	Deepika Bansal	Can science education really remove superstitions?
5	Elena Popa	Investigating Population Health through a Performative Lens
6	Elizabeth Coody	Effects of incorporating scientific uncertainty into undergraduate STEM classes
7	Florian Riemer	Integrating HPS: Leveraging Complementary Science in the analysis of hydrogen-forming enzymes
8	Ingo Brigandt	Fostering integration across the diverse methodological landscape of human behaviour research
9	Ingrid Lamminpää	Authority, legitimacy, and the role of the researcher in adapting and validating protocols: an epistemological analysis
10	Jacob Hamel-Mottiez	Bias and Expertise: Think tank framing in Canadian news media
11	Keryn Hassall	Social science, metaethics and public policy: Conceptual problems in the “turn to values”
12	Leyre Celada-Marcén	The teratological blindspot: challenges for a philosophical understanding of normativity in the developmental study of malformations and synthetic embryos
13	Marc Raguz	Redefining Fitness for Purpose: lessons from fusion energy systems design.
14	Mario Chalita	A Blind Morphism from the Iteration of Multimodal Determination and Model Design
15	Mila Rosa Librea-Carden	From Stories to Epistemology: Preservice Teachers' NOS Ideas Informed by Scientists with Disabilities' Narratives
16	Monika Ryzdewski	A Proposed Linguistic Turn in Philosophy of Science
17	Phillip Kieval	Is Cognition Low-Dimensional?
18	Ron Gray	Reconnecting “Science Practices”: What Science Education Can Learn from Philosophy of Science in Practice
19	Sabreen Syeed	An Ethnomethodological Demystification of the Algorithmic
20	Sélène Domino	Is PSP bound to ontological pluralism, and what does it entail? A metaphysical discussion in the context of an inquiry with biologists.
21	Stefan Bernhardt-Radu	How can an integrated history and philosophy of science help in the context of the debate between new mechanism and processual ontology? The relevance of the other biological synthesis of Julian S. Huxley (1887-1975)
22	Tashmia Sabera	Menarche, Menopause, and Missing Male Markers: Gendered Kinds in the Classification of Age
23	Ukyo Shimizu	Toward a Unified Approach to Philosophy of Science and Clinical Research Ethics: The Values-in-Science Standard and the Social Value Requirement
24	Yael Friedman	On synthetic medical data: values hierarchies, reification, and zombies
25	Yuyou Wu	An Enactive Account of Scientific Models and Representations
26	Zina Ward	Clusters and Clustering: Natural Kinds Meet Statistical Practice

Please can cast your vote for the best poster here:

<https://manuferpi83.github.io/SPSP-2026---Poster-Voting/>