Program*

Friday, October 19

Biology: The Non-Propositional Side PSA Symposium

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Chair:	John Beatty, University of Minnesota

Speakers:	Michael Ruse, University of Guelph
•	James R. Griesemer, University of California—Davis
	Peter J. Taylor, University of California—Berkeley
	William Wimsatt, University of Chicago

Recent Work on State Vector Reduction PSA Symposium

Chair:	Daniel Greenberger, City College of New York
Speakers:	Philip Pearle, Hamilton College Gian-Carlo Ghirardi, University of Trieste Abner Shimony, Boston University

Logical Empiricism PSA Contributed Papers

Chair:	Jane Duran, University of California—Santa Barbara
Papers:	How Not to Russell Carnap's Aufbau Alan Richardson, University of Minnesota
	The Problem of Protocol Statements and Schlick's Concept of 'Konstatierungen' Zhenming Zhai, University of Kentucky

*Only the PSA part of the program is listed here. Not included are the 4S program or sessions sponsored jointly by PSA and 4S.

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Positivism and the Pragmatic Theory of Observation Thomas Oberdan, Clemson University

Logicism, Pragmatism and Metascience: Towards a Pancritical-Pragmatic Theory of Meta-Level Discourse G.S. Axtell, University of Hawaii

Conceptual Change and Discovery Contributed Papers

Chair:	Barbara von Eckardt, University of Nebraska
Papers:	Paradigms, Populations and Problem-Fields: Approaches to Disagreement Douglas Allchin, University of Chicago
	Local Incommensurability and Communicability Xiang Chen, Virginia Polytechnic Institute and State University
	Laudan's Model of Axiological Change and the Bohr-Einstein Debate Henry J. Folse, Jr., Loyola University—New Orleans
	Getting to the Truth Through Conceptual Revolutions Kevin Kelly, and Clark Glymour, Carnegie Mellon University
	Herbert Simon's Computational Models of Scientific Discovery Stephen M. Downes, University of Cincinnati
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Friday, October_19

Recent Work in the History of Philosophy of Science PSA Symposium

Chair: Don Howard, University of Kentucky

Speakers:

Robert Disalle, University of Western Ontario Thomas Ryckman, Northwestern University Joia Lewis, California State University Klaus Hentschel, University of Hamburg

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Friday, October 19

Philosophy of Biology Contributed Papers

Chair:

Papers:

Marc Ereshefsky, Washington University

On the Possibility of Directed Mutations in Bacteria: Statistical Analyses and Reductionist Strategies Sahotra Sarkar, Boston University

Why the Anti-Reductionist Consensus Won't Survive: The Case of Classical Mendelian Genetics C. Kenneth Waters, Rice University

Behavior, Biology, and Information Theory Dennis M. Senchuk, Indiana University

The Phenotype as the Level of Selection: Cave Organisms as Model Systems Thomas C. Kane and Robert C. Richardson, University of Cincinnati and Daniel W. Fong, The American University

Friday, October 19

Probability, Belief, and Induction Contributed Papers

Chair:

Papers:

Paul Horwich, M.I.T.

Conditional Probabilities, Conditionalization, and Dutch Books Jordan Howard Sobel, University of Toronto

When Fair Betting Odds are Not Degrees of Belief Teddy Seidenfeld, M. J. Schervish and J. B. Kadane, Carnegie Mellon University

Assessing Inductive Logics Empirically Howard Smokler, University of Colorado

Philosophy of Quantum Theory Contributed Papers

Chair:

Paul Teller, University of Illinois-Chicago

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Papers:

Independence from Future Theories: A Research Strategy in Quantum Theory Alexander Rueger, University of Oregon

Causal Independence in EPR Arguments Jeremy Butterfield, Cambridge University

Jarrett Completeness and Superluminal Signals Frederick M. Kronz, University of Texas—Austin

Friday, October 19

Explanation in Special Sciences Contributed Papers

Chair:	Alan Nelson, University of California—Irvine
Papers:	Stich, Content, Prediction, and Explanation in Cognitive Science Charles S. Wallis, University of Minnesota
	Assessing Functional Explanations in the Social Sciences Harold Kincaid, University of Alabama—Birmingham

Friday, October 19

Reasoning from Phenomena: Lessons from Newton PSA Symposium

Chair:	George Smith, Tufts University
Speakers:	William Harper, University of Western Ontario Jon Dorling, University of Amsterdam Howard Stein, University of Chicago

Friday, October 19

Realism Contributed Papers

Chair:	Jarrett Leplin, University of North Carolina
Papers:	Acceptance Without Belief Patrick Maher, University of Illinois—Urbana- Champaign

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Scientific Realism, Perceptual Beliefs, and Justification Richard Otte, University of California—Santa Cruz

How the Models of Chemistry Vie James R. Hofmann, California State University—Fullerton

Reinventing Certainty: The Significance of Ian Hacking's Realism Alan G. Gross, Purdue University—Calumet

Measurement in Quantum Mechanics Contributed Papers

Chair:

Jeffrey Bub, University of Maryland

Papers:

Kochen's Interpretation of Quantum Mechanics Frank Arntzenius, University of Southern California

The Infinite Apparatus in the Quantum Theory of Measurement Don Robinson, University of Toronto

Interpreting State Reduction From the Practices-up Alberto Cordero, CUNY—Queens

Wanted Dead or Alive: Two Attempts to Solve Schrödinger's Paradox David Albert, Columbia University and Barry Loewer, Rutgers University

Friday, October 19

Explanation and Representation in Biology Contributed Papers

Chair:

Philip Kitcher, University of California—San Diego

Papers:

The Explanatory Tools of Theoretical Population Biology Gregory Cooper, SUNY—Potsdam

The Chromosome Theory of Mendelian Inheritance: Explanation and Realism in Theory Construction Marga Vicedo, University of Valencia

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Does Representational Content Arise From Biological Function? Richard J. Hall, Michigan State University

Friday, October 19

Roundtable on Sources for History of Philosophy of Science

Chair: Don Howard, University of Kentucky Participants will include: W. Gerald Heverly, Curator of the Archive for Scientific Philosophy, Hillman Library, University of Pittsburgh A.J. Kox, Assistant Director of the Vienna Circle Archive, Amsterdam

Saturday, October 20.

Science as Process PSA Symposium

Chair:	Robert Brandon, Duke University
Speakers:	Brent D. Mishler, Duke University Noretta Koertge, Indiana University Michael Bradie, Bowling Green State University David L. Hull, Northwestern University

Computer Simulations in the Physical Sciences PSA Symposium

Chair:	James Woodward, California Institute of Technology
Speakers:	Paul Humphreys, University of Virginia Ronald Laymon, Ohio State University Fritz Rohrlich, Syracuse University

Evaluation of Hypotheses and Theories

Contributed Papers

Chair:	Sandra Mitchell, University of California—San Diego
Papers:	Measuring the Success of Science Ilkka Niiniluoto, University of Helsinki

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Island Biogeography, Species-Area Curves, and Statistical Errors: Applied Biology and Scientific Rationality Kristin Shrader-Frechette, University of South Florida

Ten Types of Scientific Progress Andre Kukla, University of Toronto

Theory Pursuit: Between Discovery and Acceptance Laurie Anne Whitt, Michigan Technological University

Beyond Numerical and Causal Accuracy: Expanding the Set of Justificational Criteria Jeffry L. Ramsey, University of Chicago

Saturday, October 20

Causation

Contributed Papers

Chair:	Ellery Eells, University of Wisconsin
Papers:	Singular Causation and Law Gürol Irzik, Bogazici University, Istanbul
	Causes and Laws: The Asymmetry Puzzle Henry Byerly, University of Arizona

Saturday, October 20

Philosophy of Experiment Contributed Papers

Chair:

Papers:

Davis Baird, University of South Carolina

Scientific Evidence: Creating and Evaluating Experimental Instruments and Research Techniques William Bechtel, Georgia State University

Theory of the Apparatus and Theory of the Phenomena: The Case of Low Dose Electron Microscopy Zeno G. Swijtink, Indiana University

Reproducibility as a Methodological Imperative in Experimental Research Michael J. Hones, Villanova University

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Saturday, October 20

Self-Organization, Selection and Evolution PSA Symposium

Chair:	Marjorie Grene, Virginia Polytechnic Institute and State University
Speakers:	Richard Burian, Virginia Polytechnic Institute and State University Robert C. Richardson, University of Cincinnati Robert E. Page, Jr., University of California—Davis Stuart Kauffman, University of Pennsylvania

Statistical Inference and Theory Change

PSA Symposium

Chair:	Deborah G. Mayo, Virginia Polytechnic Institute and State University
Speakers:	Wesley Salmon, University of Pittsburgh Henry Kyburg, Jr., University of Rochester Peter Gärdenfors, Lund University

Mathematical and Physical Objects: An Ontological Dispute PSA Symposium

Chair:	Geoffrey Hellman, University of Minnesota
Speaker:	Michael Resnik, University of North Carolina
Commentor:	Susan Hale, Texas A & M University
Speaker:	Emily Grosholz, Pennsylvania State University
Commentor:	Christopher Menzel, Texas A & M University

Saturday, October 20.

Perception in Science and Philosophy of Science Contributed Papers

Chair:		Bonnie Paller, California State University—Northridge
Papers:		Observation: An Empirical Discussion Daniel Gilman, Pennsylvania State University
	· .	Visual Perception and the Wages of Indeterminacy Richard Montgomery, West Virginia University

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Saturday, October 20

Philosophy of Physics Contributed Papers

Chair:

Papers:

John Norton, University of Pittsburgh

Mathematical Physics and Elementary Logic Brent Mundy, Syracuse University

Time-Travel and Topology Tim Maudlin, Rutgers University

Epistemological Time Asymmetry Steven F. Savitt, University of British Columbia

Saturday, October 20

PSA President's Lecture

Thomas S. Kuhn, M.I.T.

Sunday, October 21

Rudolf Carnap Centennial PSA Symposium

Chair:

Adolf Grünbaum, University of Pittsburgh

Speakers: Michael Friedman, University of Illinois—Chicago Burton Dreben, Harvard University Richard Creath, Arizona State University

Implications of the Cognitive Sciences for Philosophy of Science PSA Symposium

Chair:	Thomas Nickles, University of Nevada
Speakers:	Ronald N.Giere, University of Minnesota
	Howard Margolis, University of Chicago
Commentors:	Nancy Nersessian, Princeton University
	Steve Fuller, Virginia Polytechnic Institute and
	State University of Virginia

Three Views of Experiment: Atomic Parity Violation PSA Symposium

Chair:	Robert Ackermann, University of Massachusetts
Speakers:	Allan Franklin, University of Colorado Andrew Pickering, University of Illinois— Urbana-Champaign Michael Lynch, Boston University

Laws, Conditions and Determinism PSA Symposium

Chair:	John Earman, University of Pittsburgh
Speakers:	Roger Jones, Berea, Kentucky Larry Sklar, University of Michigan Mark Wilson, University of Illinois—Chicago

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