

PSA 2006 Program

Thursday

Thursday, 1:00-4:00pm

PSA Governing Board [LORD BYRON]

Thursday, 2:00-4:00pm

Concurrent Sessions A

A1. PHILOSOPHY OF SCIENCE I (CONTRIBUTED PAPERS), CYPRESS

"The Career of Simplicity in Quine's Philosophy of Science," **Richard Creath**, *Arizona State University*

"A New Solution to the Puzzle of Simplicity," **Kevin Kelly**, *Carnegie Mellon University*

"The Communication Structure of Epistemic Communities," **Kevin Zollman**, *University of California, Irvine*

"A Philosopher's Guide to Empirical Success," **Malcolm Forster**, *University of Wisconsin, Madison*

Chair: **David Baker**, *Princeton University*

A2. PHILOSOPHY OF BIOLOGY I: CAUSATION (CONTRIBUTED PAPERS), SEYMOUR

"Context Sensitivity in Biological Causation," **Jesse Hendrikse**, *University of Calgary*

"Neo-Functional Analysis: Phylogenetical Restrictions on Causal Role Functions," **Predrag Sustar**, *University of Rijeka*

"Can There be Stochastic Evolutionary Causes?" **Patrick Forber**, *Stanford University*, and **Kenneth Reisman**, *Stanford University*

Chair: **Uljana Feest**, *Max Planck Institute for the History of Science*

A3. MULTIPLE REALIZABILITY, EXPLANATION, AND THE SPECIAL SCIENCES (SYMPOSIUM), GROUSE

"Memory Consolidation, Multiple Realizations and Modest Reductions,"

Jacqueline A. Sullivan, *University of Pittsburgh*

"Is the Recipe for Multiple Realization a Recipe for Disaster?" **Lawrence A. Shapiro**, *University of Wisconsin*

"Autonomy and Multiple Realization," **Robert C. Richardson**, *University of Cincinnati*

"Two Confusions Concerning Multiple Realizability," **Thomas W. Polger**, *University of Cincinnati*

Chair: **Anastasia Panagopoulos**, *University of Minnesota*

A4. NEW FOUNDATIONS FOR SPACETIME THEORIES (WORKSHOP), STANLEY

"The Dynamical Approach to Space-Time Structure," **Harvey R. Brown**, *Oxford University*

"Explanation and Relativity for the Regularity Relationist," **Nicholas Huggett**, *University of Illinois at Chicago*

"What Does It Take to Explain Inertia?" **Carl Hoefer**, *Universitat Autònoma de Barcelona*

"Give Spacetime a Chance," **Oliver Pooley**, *Oxford University*

Chair: **Peter Lewis**, *University of Miami*

A5. JUDGMENT AGGREGATION AND COMPLEX COLLECTIVE DECISIONS (SYMPOSIUM), OXFORD

"The Revision of Judgements," **Martin van Hees**, *University of Groningen, the Netherlands*

"Logic, Metamathematics and the Theory of Social Choice," **Marc Pauly**, *Stanford University*

"Distance-based Approaches to Aggregation Problems in Judgment Aggregation and Social Choice Theory," **Daniel Eckert**, *University of Graz, Austria*, and **Gabriella Pigozzi**, *King's College, London*

"The Aggregation of Causal Networks," **Richard Bradley**, *London School of Economics*, **Franz Dietrich**, *University of Maastricht*, and **Christian List**, *London School of Economics*

Chair: **Gabriella Pigozzi**, *King's College, London*

A6. BAYESIAN EPISTEMOLOGY (CONTRIBUTED PAPERS), PRINCE OF WALES

"Putting Expectations in Order," **Alan Baker**, *Swarthmore College*

"How to Put Self-Locating Information in its Place," **Paul Bartha**, *University of British Columbia*

"The Epistemic value of Explanation," **Andr  s Paez**, *Universidad de los Andes*

"Does Evidential Variety Depend on How the Evidence is Described?" **Greg Novack**, *University of Wisconsin-Madison*

Chair: **Wolfgang Spohn**, *University of Konstanz*

A7. ECONOMIC MODELS – ISOLATING TOOLS OR CREDIBLE PARALLEL WORLDS? (SYMPOSIUM), BALMORAL

“Credible Worlds: The Status of Theoretical Models in Economics,”

Robert Sugden, *University of East Anglia*

“How Do We Get From Model to Policy?” **Nancy Cartwright**, *London School of Economics*, and the *University of California at San Diego*

“Credibility Revisited,” **Till Gruene-Yanoff**, *Royal Institute of Technology at Stockholm*

Chair: **Jesús P. Zamora-Bonilla**, *Universidad Nacional de Educacion a Distancia*

Thursday, 4:00—4:30pm

Coffee break, Perspectives level (34th floor)

Thursday, 4:30-6:45pm

Concurrent Sessions B

B1. THREE EPISTEMOLOGICAL PARADIGMS IN MEDICAL RESEARCH (WORKSHOP), CYPRESS

“The Role of Consensus Conferences in an Age of Evidence-Based Medicine,” **Miriam Solomon**, *Temple University*

“The Hierarchy of Evidence and Evidence-Based Medicine,” **Robyn Bluhm**, *University of Western Ontario*

“Epistemic Problems with the Randomized Controlled Trial,” **Harold Kincaid**, *University of Alabama at Birmingham*

“Epistemological Advantages of Randomized Controlled Trials,” **David Teira**, *UNED, Madrid*

“The Shortage of Evidence in Evidence-Based Medicine,” **Stefan Timmermans**, *University of California at Los Angeles*

“Gold, Silver and Bronze: the ‘Evidence Hierarchy’ and EBM,” **John Worrall**, *London School of Economics*

Chair: **Sharin Clough**, *Oregon State University*

B2. PHILOSOPHY OF BIOLOGY II (CONTRIBUTED PAPERS), SEYMOUR

“Flowing Genes and Cohesive Species,” **Robert A. Wilson**, *University of Alberta*, and **Matthew Barker**, *University of Maryland, College Park*



“Ecological and Lyupanov Stability,” **James Justus**, *University of Texas, Austin*

“Seeing the Forest and the Trees: On the Very Idea of an Ecological Community,” **Jay Odenbaugh**, *Lewis and Clark College*

“What is Biologically Possible?” **Jason Michael Zinser**, *Florida State University*

Chair: **J. McKenzie Alexander**, *London School of Economics*

B3. THE ROLE OF CAUSAL EXPLANATIONS IN UNDERSTANDING NATURAL SELECTION (SYMPOSIUM), GROUSE

“Is There a Plurality of Structures for Explaining Evolutionary Dynamics?” **Robert A. Skipper, Jr.**, *University of Cincinnati*

“The Role of Causal Processes in the Neutral and Nearly Neutral Theories,” **Michael R. Dietrich**, *Dartmouth College*, and **Roberta L. Millstein**, *University of California, Davis*

“Causal Processes, Fitness and the Differential Persistence of Lineages,” **Frédéric Bouchard**, *University of Montreal*

“Stable Models and Causal Explanation in Evolutionary Biology,” **Bruce Glymour**, *Kansas State University*

Chair: **Kyle Stanford**, *University of California, Irvine*

B4. PHILOSOPHY OF PHYSICS I: SPACETIME (CONTRIBUTED PAPERS), STANLEY

“Nonlocal Information in Special and General Relativity,” **Steven Weinstein**, *University of Waterloo*

“The Singular Nature of Spacetime,” **Vincent Lam**, *University of Lausanne*

“Logic or Physics?” **Phil Dowe**, *University of Queensland*

“Spacetime and Structure: Structural Realism, Neo-Kantianism Idealism, or Relativized A Priorism,” **Edward Slowik**, *Winona State University*

“The Anderson-Friedman Absolute Objects Program: Several Successes, One Difficulty,” **James Pitts**, *University of Notre Dame*

Chair: **Roman Frigg**, *London School of Economics*

B5. COMPUTATIONAL EMERGENCE AND ITS APPLICATIONS (SYMPOSIUM), OXFORD

“Diachronic Emergence and Computation,” **Jacques Dubucs**, *IHPST, CNRS/Université Paris I*

“Computational and Conceptual Emergence,” **Paul Humphreys**, *University of Virginia*

“Emergence of Properties and Emergent Processes: Refocusing the Computational Approach,” **Philippe Huneman**, *IHPST, CNRS/Université Paris I*

“Cellular Automata as Models of Nature,” **John Symons**, *University of Texas at El Paso*

“Emergence, Levels of Description, and the Complexity of Prediction,”

Cosma Shalizi, *Carnegie Mellon University*

Chair: **Philippe Huneman**, *IHPST, CNRS/Université Paris I*

B6. DECISION AND GAME THEORY (CONTRIBUTED PAPERS), PRINCE OF WALES

“Dependency Equilibria,” **Wolfgang Spohn**, *University of Konstanz*

“Initiating Coordination,” **Paul Weirich**, *University of Missouri*

“Hierarchy Maintenance, Coalition Formation and the Origins of

Altruistic Punishment,” **Yasha Rohwer**, *Florida State University*

“Optimal Judgment Aggregation,” **Jesús P. Zamora-Bonill**, *Universidad*

Nacional de Educacion a Distancia, and **David Tiera**, *Universidad*

Nacional de Educacion a Distancia

Chair: **Brad Armendt**, *Arizona State University*

B7. A NEW LOOK AT UNIFICATION IN SCIENCE: THE HOWS AND WHYS (SYMPOSIUM), BALMORAL

“Unification and Coherence,” **Stephan Hartmann**, *London School of Economics*

“Unification and Universal Principles,” **Margaret Morrison**, *University of Toronto*

“Bayesianism and Unification,” **Wayne C. Myrvold**, *University of Western Ontario*

“Bayesian Epistemic Unification, the No Miracles Argument and the Base Rate Fallacy,” **Paul Teller**, *University of California at Davis*

Chair: **Bas van Fraassen**, *Princeton University*

Thursday, 7:00-8:30pm

JOINT RECEPTION WITH PSA, HSS, AND 4S IN THE EXHIBIT HALL AND REGENCY FOYER

Friday

Friday, 7:45–8:45am

EDITORIAL BOARD MEETING, *PHILOSOPHY OF SCIENCE* [SEYMOUR]

Friday, 9:00–11:45am

Concurrent Sessions C

(Coffee break, 10:00-10:15, in exhibit hall)

C1. EVOLUTIONARY MODELS AND EVOLUTIONARY PSYCHOLOGY (CONTRIBUTED PAPERS), CYPRESS“Perverse Engineering,” **Chris Haufe**, *Columbia University*“Massive Modularity and Brain Evolution,” **Edouard Machery**, *University of Pittsburgh*“The Robustness of Signalling,” **Simon Huttegger**, *Konrad Lorenz Institute for Evolution and Cognition Research*“Prospects for a Dual Inheritance Model of Emotional Evolution,” **Stefan Linquist**, *University of Queensland*Chair: **Andrea Scarantino**, *University of Georgia***C2. SCIENCE AND VALUES (CONTRIBUTED PAPERS), SEYMOUR**“Norms for Values in Scientific Belief Acceptance,” **Heather Douglas**, *University of Tennessee*“Carnap’s Logical Empiricism, Values, and American Pragmatism,” **Thomas Mormann**, *The University of Donostia - San Sebastian*“Why Transient Underdetermination Matters: Values and Social Organization in Kitcher’s Science, Truth, and Democracy,” **Justin Biddle**, *University of Notre Dame*“The Fundamentalist Attack on Science: A Problem That Won’t Just Disappear,” **Stephen Morris**, *Missouri Western State University*Chair: **Joseph Pitt**, *Virginia Tech***C3. PHILOSOPHICAL ISSUES IN EXPERIMENTAL ECONOMICS (SYMPOSIUM), GROUSE**“Inductive Generalisation in Experimental Economics,” **Robert Sugden**, *University of East Anglia*

“External Validity and the Rational Scrutiny of Models of Rationality,”

Deborah Mayo, *Virginia Tech*

"Social Preferences in Experimental Economics," **Jim Woodward**, *California Institute of Technology*

"The Role of Paradigmatic Experiments: Testing, Measurement, and Inference," **Francesco Guala**, *University of Exeter*

Chair: **Cristina Bicchieri**, *University of Pennsylvania*

C4. PHILOSOPHY IN THE TRENCHES: FROM NATURALIZED TO EXPERIMENTAL PHILOSOPHY (OF SCIENCE) (SYMPOSIUM), STANLEY

"The X-Phi(les): Unusual Insights into the Nature of Inquiry," **Jonathan M. Weinberg**, *Indiana University*, and **Stephen Crowley**, *Indiana University*

"How to Test Philosophical Analyses of a Scientific Concept: Notes from the Field," **Karola Stotzm**, *Indiana University*

"An Empirical Assessment of the Moral – Conventional Distinction: Experimental Philosophy in Action," **Stephen P. Stich**, *Rutgers University*, and **Daniel Kelly**, *Rutgers University*

"The Competition Between Folk Theories and Scientific Theories," **Joshua Knobe**, *University of North Carolina, Chapel Hill*

Chair: **Edouard Machery**, *University of Pittsburgh*

C5. NEW APPROACHES TO EQUILIBRIUM IN THERMODYNAMICS AND STATISTICAL MECHANICS (SYMPOSIUM), LORD BYRON

"Objective Chance in Statistical Mechanics," **Roman Frigg**, *London School of Economics*

"Reduction and Renormalization," **Robert Batterman**, *University of Western Ontario*

"Do 'Boxes' of Stars Obey Thermodynamics?" **Craig Callender**, *University of California at San Diego*

"Boltzmann, Gibbs and the Concept of Equilibrium," **David Lavis**, *King's College, London*

"Taking Algebra Too Seriously: On the Illusion of Irreversible Behavior in Statistical Dynamics," **Jos Uffink**, *University of Utrecht*

Chair: **Lawrence Sklar**, *University of Michigan*

C6. PHILOSOPHY OF PHYSICS II: INTERPRETATIONS OF QUANTUM MECHANICS (CONTRIBUTED PAPERS), CONSTABLE

"Bohr's Interpretation and the Copenhagen Interpretation – Are the Two Mutually Exclusive?" **Ravi Gomatam**, *Bhaktivedanta Institute*

"The Problem of Theory Choice for the Interpretation of Quantum Field Theory," **Doreen Fraser**, *University of Pittsburgh*

"Empty Waves in Bohmian Quantum Mechanics," **Peter J. Lewis**, *University of Miami*



“Reconstructing Quantum Theory Instead of Interpreting It,” **Alexei Grinbaum**, *LPHS - Archives Henri Poincare*
 Chair: **Rob Deltete**, *Seattle University*

C7. PHILOSOPHY OF SCIENCE II: MODELS (CONTRIBUTED PAPERS), KENSINGTON

“How Computer Simulations are like Telescopes and Microscopes,” **Ryan Muldoon**, *University of Pennsylvania*

“Imaginary-Constitutives. The Ontology of Scientific Models,” **Samuel Schindler**, *University of Leeds*

“Model Selection and the Multiplicity of Patterns in Empirical Data,”

James W. McAllister, *University of Leiden*

“Seeking Representations of Phenomena: Phenomenological Models,” **Demetris Portides**, *University of Cyprus*

Chair: **David Tiera**, *Universidad Nacional de Educacion a Distancia*

Friday, 12:00-1:30pm

ORGANIZATIONAL MEETING OF THE SOCIETY FOR PHILOSOPHY OF SCIENCE IN PRACTICE (SPSP) [KENSINGTON]

Friday, 12:00-1:30pm

PSA BUSINESS MEETING [LORD BYRON]

Friday, 1:30-3:10pm

Concurrent Sessions D

D1. THE ROLE OF VALUES IN WESTERN AND INDIGENOUS SCIENCE (WORKSHOP), CYPRESS

“A New Look at David Abram’s Defense of Animism,” **Kevin de Laplante**, *Iowa State University*

“Beyond Value Neutrality - An Alternative to Monetary Monism in Ecological Economics,” **Bryan G. Norton**, *Georgia Institute of Technology*

“Conservation Biology as Crisis Science; or Should Biologists Be Advocates?” **Jay Odenbaugh**, *Lewis and Clark College*

“Value, Reality, and the More-Than-Human World,” **Gregory M. Mikkelsen**, *McGill University*
 Chair: **John Huss**, *Reed College*

D2. PHILOSOPHY OF PSYCHOLOGY (CONTRIBUTED PAPERS), SEYMOUR

“Bird Brains and Aggro Apes: Questioning the Use of Animals in the Affect Program Theory of Emotion,” **Chuck Stieg**, *University of Minnesota*
 “Two Causal Mistakes in Wegner’s Illusion of Conscious Will,” **Holly K. Andersen**, *University of Pittsburgh*
 “What is an Emotion?” **Andrea Scarantino**, *Georgia State University*
 Chair: **Eric Agner**, *University of Alabama*

D3. EXPORTING CAUSAL KNOWLEDGE IN BIOLOGY (SYMPOSIUM), GROUSE

“Realism vs. Projectibility: Tradeoffs in Experimental Ecological Genetics,” **Robert Brandon**, *Duke University*
 “Exporting Causal Knowledge in Evolutionary and Developmental Biology,” **Sandra D. Mitchell**, *University of Pittsburgh*
 “How Practical Know-how about Experimentation can Contextualize Theoretical Knowledge,” **C. Kenneth Waters**, *University of Minnesota*
 Chair: **Christopher Eliot**, *Hofstra University*

D4. STRUCTURAL REALISM AND THE SPECIAL SCIENCES (SYMPOSIUM), STANLEY

“Structural Realism and the Social Sciences,” **Harold Kincaid**, *University of Alabama at Birmingham*
 “Ontic Structural Realism and Economics,” **Don Ross**, *University of Alabama at Birmingham and University of Cape Town*
 “Structural Realism and the Relationship Between the Special Sciences and Physics,” **James Ladyman**, *University of Bristol*
 Chair: **Paul Humphreys**, *University of Virginia*

D5. PHILOSOPHY OF CHEMISTRY (CONTRIBUTED PAPERS), LORD BYRON

“Modelling Molecules: Beyond the Epistemic-Pragmatic Dichotomy,” **Henk W. de Regt**, *Vrije Universiteit Amsterdam*
 “Why Water is Not H₂O, and Other Critiques of Essentialist Ontology from the Philosophy of Chemistry,” **Holly Vande Waal**, *University of Notre Dame*
 “Reduction and Emergence in Chemistry - Two Recent Approaches,” **Eric Scerri**, *University of California, Los Angeles*
 Chair: **Ryan Muldoon**, *University of Pennsylvania*

D6. ARE THERE PRINCIPLES OF RATIONAL CHOICE THAT BRIDGE INDIVIDUAL AND COOPERATIVE GROUP DECISION MAKING? (SYMPOSIUM), CONSTABLE

“Coherent Choice Functions and Cooperative Decision Making,” **Teddy Seidenfeld**, *Carnegie Mellon University*

“Coherent Cooperation,” **Robert Nau**, *Duke University*

“Consensus as Shared Agreement,” **Isaac Levi**, *Columbia University*

Chair: **William Harper**, *University of Western Ontario*

D7. PHILOSOPHY OF SCIENCE III: REPRESENTATION (CONTRIBUTED PAPERS), KENSINGTON

“Visual Representations in Science: A Reply to Perini,” **William Goodwin**, *Swarthmore College*

“Scientific Representation, Similarity, and Prediction,” **Gabriele Contessa**, *London School of Economics*

“The Selection Question and the Causal Theory of Reference,” **Arash Pessian**, *University of Cambridge*

“In Praise of Purposeful ‘Misrepresentation’: Toward a Productive Understanding of Models,” **Tarja Knuuttila**, *University of Helsinki*

Chair: **Susan Vineberg**, *Wayne State University*

Coffee Break: 3:10-3:30pm in Exhibit Hall

Friday, 3:30-5:30pm

Concurrent Sessions E

E1. TOWARDS A MORE POLITICAL PHILOSOPHY OF SCIENCE (SYMPOSIUM), CYPRESS

“Toward a More Political Philosophy of Science: Lessons from the Past?” **John Beatty**, *University of British Columbia*

“Neutrality, Impartiality, Engagement, Advocacy: Is there a Philosophical Stance?” **Helen Longino**, *Stanford University*

“Politics as Method: The Case of Medical Research,” **James Robert Brown**, *University of Toronto*

“Philosophy of Science: A Subject with a Great Future,” **Janet A. Kourany**, *University of Notre Dame*

Chair: **Noretta Koertge**, *Indiana University*

E2. THE VAGARIES OF DETERMINISM AND INDETERMINISM (SYMPOSIUM), SEYMOUR

"An Unexpectedly Simple Failure of Determinism," **John Norton**, *University of Pittsburgh*

"How to Think About John Norton's Dome Example," **David Malament**, *University of California, Irvine*

"Varieties of Determinism and Indeterminism in Classical and Quantum Mechanics," **John Earman**, *University of Pittsburgh*

Chair: **Harvey Brown**, *Oxford*

E3. AUTHOR MEETS CRITICS: CRISTINA BICCHIERI'S *THE GRAMMAR OF SOCIETY* (SYMPOSIUM), GROUSE

"Ethics & Norms: Surveys and Experiments," **Peter Danielson**, *University of British Columbia*

"Norms and Games," **Russell Hardin**, *New York University*

"Fairness and Social Norms," **Daniel Hausman**, *University of Wisconsin*

"Reply to Critics," **Cristina Bicchieri**, *University of Pennsylvania*

Chair: **Paul Weirich**, *University of Missouri*

E4. ORGANISMS VERSUS MODELS IN THE HISTORY OF LIFE (SYMPOSIUM), STANLEY

"Where The Rubber Meets The Road: The Cambrian Explosion and the Evolution of Life," **Kim Sterelny**, *Australian National University*, and *Victoria University of Wellington, New Zealand*, and **Brett Calcott**, *Australian National University*

"Gestalt-Switching and the Transitions," **Peter Godfrey-Smith**, *Harvard University*, and **Ben Kerr**, *University of Washington*

"Hierarchical Organization and the Major Transitions: a Rank-free Approach," **Samir Okasha**, *University of Bristol*

Chair: **John Matthewson**, *Australian National University*

E5. PHYSICS: NEW SOLUTIONS TO HISTORICAL PROBLEMS (CONTRIBUTED PAPERS), LORD BYRON

"Newton's Method and Mercury's Perihelion before and after Einstein," **William Harper**, *University of Western Ontario*

"Hypotheses Fingo: Herschel and the Myth of Hypothetical Science in 19th Century Britain," **Laura Snyder**, *University of Pittsburgh*

"On Force in Cartesian Physics," **John Manchak**, *University of California, Irvine*

"Indeterminism, Asymptotic Reasoning, and Time Irreversibility in Classical Physics," **Alexandre Korolev**, *University of British Columbia*



Chair: **Kent Staley**, *Saint Louis University*

E6. PHILOSOPHY OF MATHEMATICS AND PHYSICS (CONTRIBUTED PAPERS), CONSTABLE

“You Can’t Mean That: Yablo’s Figuralist Account of Mathematics,”

Sarah Hoffman, *University of Saskatchewan*

“Mathematical Idealization,” **Christopher Pincock**, *Purdue University*

“A General Conceptual Framework for Decoherence in Closed and Open Systems,” **Olimpia Lombardi**, *Universidad Nacional de Quilmes*, and

Mario Castagnino, *Universidad de Buenos Aires* and **Roberto Laura**, *Universidad Nacional de Rosario*

Chair: **Giacomo Sillari**, *University of Pennsylvania*

E7. PHILOSOPHY OF SCIENCE IV: CAUSATION (CONTRIBUTED PAPERS), KENSINGTON

“Interventions and Causal Inference,” **Frederick Eberhardt**, *Carnegie Mellon University* and **Richard Scheines**, *Carnegie Mellon University*

“Time-Series, Indeterminism, and the Principle of the Common Cause,”

Julian Reiss, *Complutense University, Madrid*

“Perceiving Causation via Videomicroscopy,” **Megan Delehanty**, *University of Calgary*

Chair: **Stephen Kellert**, *Hamline University*

Friday, 6:30-7:30pm

JOINT RECEPTION WITH PSA/HSS, PERSPECTIVES LEVEL (34TH FLOOR)

Friday, 9:00-11:00pm

GRADUATE STUDENT PARTY (REGENCY FOYER)

Saturday

Saturday, 7:45–8:45am

PSA WOMEN'S CAUCUS BREAKFAST [BALMORAL]

Saturday, 9:00-11:45am

Concurrent Sessions F

(Coffee break, 10:00-10:15, in exhibit hall)

F1. EVOLUTIONARY INNOVATION AND NOVELTIES (SYMPOSIUM), CY-PRESS

"Evolutionary Innovations and Developmental Resources: From Stability to Variation and Back Again," **Jonathan Kaplan**, *Oregon State University*

"Explaining the Origins of Evolutionary Novelty: Criteria of Adequacy and Multidisciplinary Prerequisites," **Alan C. Love**, *University of Minnesota*

"Evolutionary Novelty: Back to Square One," **Massimo Pigliucci**, *State University of New York at Stony Brook*

"Does the Concept of Evolutionary Novelty Make Sense?" **Günter P. Wagner**, *Yale University*

"Darwin's Argument and Cyclic Controversy Regarding the Causes of Evolutionary Innovation," **Mary Jane West-Eberhard**, *Smithsonian Tropical Research Institute*

Chair: **Karola Stotz**, *Indiana University*

F2. CHEMICAL BONDS (SYMPOSIUM), SEYMOUR

"Chemical Bonds in Causal Explanations of Chemical Reactions," **Janet D. Stemwedel**, *San José State University*

"Two Concepts of Chemical Bond," **Robin Findlay Hendry**, *Durham University*

"Resisting Chemical Atomism: Duhem's Argument," **Paul Needham**, *University of Stockholm*

"Robust Properties of Chemical Bonds," **Michael Weisberg**, *University of Pennsylvania*

"Chemical Reactions, Non-Kekulé Molecules, and Very Weak Bonds," **Jerome A. Berson**, *Yale University*

Chair: **Eric Scerri**, *University of California, Los Angeles*



F3. MECHANISMS: BEYOND BIOLOGY TO PSYCHOLOGY AND CHEMISTRY (SYMPOSIUM), GROUSE

“Mechanisms in Biology: Recent Work and Beyond,” **Lindley Darden**, *University of Maryland, College Park*

“Mechanisms and Their Explanatory Challenges In Organic Chemistry,” **Jeffrey L. Ramsey**, *Smith College*

“Mechanisms in Psychology: What are the Operations?” **William Bechtel**, *University of California, San Diego*

Chair: **James Tabery**, *University of Pittsburgh*

F4. NATURALISTIC METAETHICS (SYMPOSIUM), STANLEY

“Reliable Methods of Moral Learning: The Case of Parenting,” **William Rottschaefer**, *Lewis and Clark College*

“Reaching for the Moon: Evolutionary Moral Realism,” **John Collier**, *University of Natal*, and **Michael Stigl**, *University of Lethbridge*

“Must Naturalists Be Nihilists? Metaethics and the Evolutionary Dynamics of Moral Norms,” **Marion Hourdequin**, *Brandeis University*

“Rules in Moral Psychology,” **Shaun Nichols**, *University of Utah*

“Stories and Moral Judgment: The Neuroscience of Framing Effects in Moral Cognition (With a Realist Coda),” **William Casebeer**, *United States Air Force Academy*

Chair: **William Rottschaefer**, *Lewis and Clark College*

F5. PHILOSOPHY OF PHYSICS III: QUANTUM INFORMATION AND COMPUTATION (CONTRIBUTED PAPERS), LORD BYRON

“The Many-Worlds Interpretation and Quantum Computation,” **Armond Duwell**, *University of Erfurt*

“Is Measurement a Black Box? On the Importance of Understanding Measurement Even in Quantum Information and Computation,” **Michael Dickson**, *University of South Carolina*

“On the Efficiency of Quantum Computation,” **Jeffrey Bub**, *University of Maryland*

Chair: **Nicholas Huggett**, *University of Illinois at Chicago*

F6. AUTHOR MEETS CRITICS: SANDY ZABELL'S SYMMETRY AND ITS DISCONTENTS (WORKSHOP), CONSTABLE

“Bayesian Frameworks for Induction,” **Jim Joyce**, *University of Michigan*

“Symmetry and Frequencies in Statistics from Mill to Pearson,” **Ted Porter**, *University of California, Los Angeles*

“Reply to Critics,” **Sandy Zabell**, *Northwestern University*

Chair: **Brian Skyrms**, *University of California, Irvine*

**F7. AUTHOR MEETS CRITICS: GEORGE REISCH'S HOW THE COLD WAR
TRANSFORMED PHILOSOPHY OF SCIENCE (WORKSHOP),
KENSINGTON**

“Dædalus and the Labyrinth of History: Logical Empiricist Unity and American Pluralism,” **Alan Richardson**, *University of British Columbia*

“The Politics of Logical Empiricism,” **Thomas Uebel**, *University of Manchester*

“Pragmatism, Activism, and the Icy Slopes of Logic in George Reisch's Portrait of the Philosophy of Science as a Young Field,” **David Stump**, *University of San Francisco*

“Reply to Critics,” **George Reisch**, *Independent scholar*

Chair: **Heather Douglas**, *University of Tennessee at Knoxville*

Saturday, 12:00-1:00pm

**MEET THE EDITOR: INSIDE THE JOURNAL PHILOSOPHY OF SCIENCE
[CYPRESS]**

Saturday, 1:30-3:45pm

Concurrent Sessions G

**G1. CAN INTROSPECTIVE REPORTS BE SCIENTIFIC EVIDENCE?
(SYMPOSIUM), CYPRESS**

“How to Use Introspection to Measure Happiness,” **Anna Alexandrova**, *University of California, San Diego*

“Introspection as a Source of Public Evidence,” **Gualtiero Piccinini**, *University of Missouri, St. Louis*

“Why Cognitive Scientists Should Trust Introspection (with Caution and Care),” **Alvin Goldman**, *Rutgers University*

“The Unreliability of Naive Introspection,” **Eric Schwitzgebel**, *University of California, Riverside*

Chair: **Holly Andersen**, *University of Pittsburgh*

**G2. PHILOSOPHY OF BIOLOGY III (CONTRIBUTED PAPERS),
SEYMOUR**

“Patterns, Models, and Predictions: Defending Robert MacArthur's Approach to Ecology,” **Yoichi Ishida**, *University of Nevada*



“The Empirical Inadequacy of Species Cohesion by Gene Flow,”

Matthew Barker, *University of Maryland, College Park*

“How Do Natural Selection and Random Drift Interact?” **Marshall**

Abrams, *George Washington University*

“Optimality Modeling and Explanatory Generality,” **Angela Potochnik**,
Stanford University

Chair: **Andre Arew**, *University of Missouri, Columbia*

G3. AUTHOR MEETS CRITICS: SHERRI ROUSH'S TRACKING TRUTH (WORKSHOP), GEORGIA A

“Likelihoods, Counterfactuals, and Epistemology,” **Branden Fitelson**,
University of California, Berkeley

“Drawing the Right Morals: Tracking Truth and Scientific Realism,”

Kyle Stanford, *University of California, Irvine*

“Tracking the Evidence,” **Brian Weatherson**, *Cornell University*

“Reply to Critics,” **Sherri Roush**, *University of California, Berkeley*

Chair: **Jim Joyce**, *University of Michigan*

G4. WHERE NEUROSCIENCE MEETS PHYSICS: LAWS, EXPLANATION, AND THE HODGKIN-HUXLEY MODEL OF THE ACTION POTENTIAL (SYMPOSIUM), GEORGIA B

“On the Use of Physical Theory in Neurobiological Explanation,” **Marcel Weber**,
University of Basel

“Theories, Models, and Equations in Systems Biology,” **Kenneth F. Schaffner**,
University of Pittsburgh

“The Epistemic (not Explanatory) Role of Laws and Mathematical Models at the Interface of Biology and Physics: The Case of the Hodgkin and Huxley Model of the Action Potential,” **Carl F. Craver**, *Washington University, St. Louis*

Chair: **Jim Bogen**, *University of Pittsburgh*

G5. PHILOSOPHY OF PHYSICS IV: QUANTUM MECHANICS (CONTRIBUTED PAPERS), LORD BYRON

“Structure of Holism,” **Brandon Fogel**, *Illinois Institute of Technology and the University of Notre Dame*

“Can Classical Structures explain Quantum Phenomena?” **Alisa Bokulich**, *Boston University*

“Ostentatiously Extravagant but not Quite Incoherent: On the Many Worlds Approach and the Growth of Imagination,” **Alberto Cordero**,
Queens College, CUNY

“The Standard Model as a Philosophical Challenge,” **Edward MacKinnon**,
California State University, East Bay

Chair: **Jeff Barrett**, *University of California, Irvine*

G6. EXPLANATION AND REASONING STYLES IN MATHEMATICS (SYMPOSIUM), CONSTABLE

“Formal Verification and Mathematical Understanding,” **Jeremy Avigad**, *Carnegie Mellon University*

“Finding the Right Definition in Mathematics, with Consequences for Ontology,” **Jamie Tappenden**, *University of Michigan*

“Explanation and Unification: A Case Study from Real Algebraic Geometry,” **Paolo Mancosu**, *University of California, Berkeley*

“Dedekind, Structural Reasoning, and Mathematical Explanation,” **Erich Reck**, *University of California, Riverside*

Chair: **Richard Zach**, *University of Calgary*

G7. PHILOSOPHY OF PROBABILITY AND STATISTICS (CONTRIBUTED PAPERS), KENSINGTON

“Symmetry and Probability,” **Jill North**, *New York University*

“Accuracy and Vague Opinion,” **Samuel Ruhmkorff**, *Simon's Rock College of Bard*

“Why Functional Form Matters: Revealing the Structure in Structural Models in Econometrics,” **Damien Fennell**, *London School of Economics*

“The Curve Fitting Problem, Akaike-type Model Selection, and the Error Statistical Approach,” **Aris Spanos**, *Virginia Tech*

Chair: **Deborah Mayo**, *Virginia Tech*

Saturday, 4:30-6:00pm

AWARD PRESENTATION TO PSA ESSAY CONTEST WINNERS [GEORGIA A & B]

PRESIDENTIAL ADDRESS, “SIGNALS,” BRIAN SKYRMS [GEORGIA A & B]

Saturday, 6:30-8:00pm

PRESIDENTIAL RECEPTION, PERSPECTIVES LEVEL (34TH FLOOR)