

Registration

Officer's Club

Sunday, July 10, 2011, 3 p.m. – 6 p.m.

President's Welcome

Officer's Club

Sunday, July 10, 2011, 5 p.m. – 6 p.m.

Opening Reception

Bandstand

Sunday, July 10, 2011, 6 p.m. – 9 p.m.

Registration

Monday, July 11, 2011, 8 a.m. – 11 a.m.

9 a.m. - 10:30 a.m., Monday, July 11

Room: Lambs Canyon (HSEB 3515)

Evolution, God, and Truth

Eric Rogers, Crossing the Milvian Bridge: Plantinga, Evolutionary Success, and 'True Belief'

Adam Shapiro, William Paley's Advice to the Evolutionary Theist

Tudor Baetu, How Contingent Is Evolution? Mechanistic Constraints on Evolutionary Outcomes

9 a.m. - 10:30 a.m., Monday, July 11

Room: City Creek Canyon (HSEB 2948)

Ecological Concepts and the Biological Hierarchy

Diego Méndez, Emergence of the Vegetation Continuum Concept in Ecology as a Type of Aufhebung

Christopher Lean, The Ecological Species Concept Should Be More Than a Citation

John Collier, Two Notions of Biological Hierarchy

9 a.m. - 10:30 a.m., Monday, July 11

Room: Mill Creek Canyon (HSEB 2938)

Selection, Groups, and Variation

John Basl, Ecosystem Selection and the Trait-Group Framework

Christopher Dimond, Multilevel Selection and an Expansion of the Phenotypic Gambit

Björn Brunnander, Selection and Variation

9 a.m. - 10:30 a.m., Monday, July 11

Room: Parleys Canyon (HSEB 2110)

Pragmatism & Biology: An Exchange of Ideas

Trevor Pearce, The Dialectical Biologist, circa 1890: Dewey and the Oxford Hegelians

David Depew, How to Read Dewey's 'The Influence of Darwinism on Philosophy'

Judy Johns Schloegel, Pragmatism and American Biology: The Case of Herbert Spencer Jennings, 1890-1925

Organizer: Trevor Pearce

9 a.m. - 10:30 a.m., Monday, July 11

Room: Bell Canyon (HSEB 1730)

What Use is Human Nature? Part I

Maria Kronfeldner, What Use was Human Nature?

Richard Samuels, Do Human Beings Have a Nature?

Paul Griffiths, If Human Nature does not Constrain Human Possibilities, Why?

Organizers: Karola Stotz and Paul Griffiths

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11 a.m. - 12:30 p.m., Monday, July 11

Room: *Lambs Canyon (HSEB 3515)*

Imaging Techniques in Medicine & the Life Sciences

Nola Semczyszyn, Visual Representation and Expert Vision: Problems and Politics in the Interpretation of Obstetric Aonograms

Laura Perini, Image Interpretation: Bridging the Gap from Raw Data to Evidential Representation

Megan Delehanty, Medical Imaging: What Kind of Experiment?

Organizer: *Laura Perini*

11 a.m. - 12:30 p.m., Monday, July 11

Room: *Emigration Canyon (HSEB 2958)*

Darwin's Casino: Chanciness in Evolutionary Theory

Marshall Abrams, Selection and Drift: Distinguishable Causal Factors – Not Processes, Not Independently Manipulable

Charles Pence, Chance in Evolution: A Reassessment

Christopher French, Drifting Notions of Stochasticity in Evolutionary Biology

11 a.m. - 12:30 p.m., Monday, July 11

Room: *City Creek Canyon (HSEB 2948)*

Conceptual and Epistemic Issues in Ecology

Robert Hudson, Introducing the Term 'Ecosystem'

William Bausman, Philosophical Interest in the Neutral Model of Ecology

Michael Goldsby, Levins Got it Backwards

11 a.m. - 12:30 p.m., Monday, July 11

Room: *Mill Creek Canyon (HSEB 2938)*

Visions of Tropical Diversity

William Kimler, Narratives and Visual Representations in a Persistent Vision of Tropical Abundance

David Steffes, Understanding Natural Diversity through the Tropics: Darwin and the 'Biodiversity' Movement of the 1970s/80s

Matthew Chew, The Last Nineteenth Century Naturalist: Charles Elton's Visits to the American Tropics

Organizer: *William Kimler*

11 a.m. - 12:30 p.m., Monday, July 11

Room: *Parleys Canyon (HSEB 2110)*

Evolving Populations

Mathieu Charbonneau, Individuals, Populations, and the Extension of Darwinism

Peter Godfrey-Smith, Selection, Individuality, and the Alternation of Generations

John Matthewson, α

11 a.m. - 12:30 p.m., Monday, July 11

Room: *Bell Canyon (HSEB 1730)*

What Use is Human Nature? Part II

Karola Stotz, What are the Implications of a Human Nature Based on Developmental Plasticity for Human Health and Disease?

Kristen Hawkes, Life History Comparisons and Human Evolution

Edouard Machery, Virtues of the Nomological Notion of Human Nature

Organizers: *Karola Stotz and Paul Griffiths*

11 a.m. - 12:30 p.m., Monday, July 11

Room: *Neffs Canyon (HSEB 1700)*

Roundtable: Debating Entwicklungsgeschichte I — Disputed Interpretations

Sabine Brauckmann

Lynn K. Nyhart

John M. Opitz

Robert J. Richards

Jeffrey H. Schwartz

Organizer: *Sabine Brauckmann*

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11 a.m. - 12:30 p.m., Monday, July 11

Room: King's Peak (Medical School classroom A)

Conceptualizing Evolvability

Rachael Brown, What Evolvability Really Is – A Probabilistic Analysis

Brett Calcott, Tinkering Revised: Evo-Devo as Diachronic Engineering

Anya Plutynski, Commentary

Organizer: Anya Plutynski

11 a.m. - 12:30 p.m., Monday, July 11

Room: Grandeur Peak (Medical School classroom B)

Managing Uncertainties and Constructing Concepts in Medicine

Michelle De Stefano, The Differing Constructs of a Disease

Sean Valles, Navigating the Epistemic Challenges to Personalized Genomic Medicine

Judith Friedman, Stories of Continuity and Change: Counseling at Risk Families Throughout the 20th Century

11 a.m. - 12:30 p.m., Monday, July 11

Room: Ensign Peak (Medical School classroom C)

Theoretical Issues in the History and Philosophy of Developmental Biology

Elizabeth O'Neill, Homeostasis and Homeorhesis: Waddington's Distinction between Stabilized States and Stabilized

Francisco Güell, Towards a Zubirian Model of Organismic Development

Fabrizio McManus, Can Development be Explained Mechanistically?

11 a.m. - 12:30 p.m., Monday, July 11

Room: Deseret Peak (Medical School classroom D)

Evo-Devo, Phylogenetics, and Conceptual Change in Evolutionary Biology

Miles MacLeod, Homology Concepts as Kind Concepts: The Epistemic Dimension of Homology Concepts and Their Disputes

Lindsay Craig, The Developmental Synthesis in Evolutionary Biology: Reconciliation and Explanation

Francis Cartieri, The Specter of Lamarck: Is There Reason to Fear?

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2 p.m. - 4:00 p.m., Monday, July 11

Room: *Lambs Canyon (HSEB 3515)*

Groundbreaking Women: History and Historiography

Christiane Groeben, 'First Ladies' at the Naples Zoological Station

Pinna Abir-Am, Women Biologists as a First Time Majority in a Nobel Prize (2009): Lessons from the History of Their Predecessor in UC-Berkeley's Department of Cell & Molecular Biology

Nurit Kirsh, Elisabeth Goldschmidt – A Tragedy or Success Story?

2 p.m. - 4:00 p.m., Monday, July 11

Room: *Emigration Canyon (HSEB 2958)*

Homology and the Explanation of Phenotypic Evolution

Steve Elliott, Evolutionary Novelty as a Challenge to the Theory of Fixation

Kate MacCord, Mammalian Dentitions as a Case Study for Phenotypic Evolution: Integrating Complementary Epistemologies

Taylor Murphy, What Homology Contributes to Understanding the Imagination

Grant Ramsey, Can Homology Be Unified?

2 p.m. - 4:00 p.m., Monday, July 11

Room: *City Creek Canyon (HSEB 2948)*

Evaluating Adaptationism(s) and Alternatives

Stephan Kopsieker, Extending Adaptationism

Elisabeth Lloyd, Adaptationism in Action

Roger Sansom, An Empirical Approach to the Form/Function/Adaptationism Issue

Valerie Racine, Evolutionary Explanations of Complex Adaptations

2 p.m. - 4:00 p.m., Monday, July 11

Room: *Mill Creek Canyon (HSEB 2938)*

Heterogeneity and Evolution: Looking for the Organism Level

Francesca Merlin, Developmental Stochasticity: The Specific Heterogeneity of Individual Organisms

Eva Boon, No Rule to the Exception: The Role of Genetic Heterogeneity in Evolution

Marta Bertolaso, Tumor Heterogeneity: Insights from the Biology of Cancer on the Hierarchical Organization of Organisms

Frédéric Bouchard, There are No Organisms, Just Complex Multi-Species Individuals. So What are the Bearers of Adaptation?

Pierre-Alain Braillard, Heterogeneity in Development: More than Noise

Organizers: *Francesca Merlin and Eva Boon*

2 p.m. - 4:00 p.m., Monday, July 11

Room: *Parleys Canyon (HSEB 2110)*

Understanding Organisms and Individuality: Organismality, Multicellularity and Major Transitions

Matt Herron, Multicellularity and Cellular Differentiation in the Volvocine Green Algae

Lynn Nyhart, The Political Organism: The Circulation of Political, Economic, and Biological Analogies in the 1840s and 50s

Scott Lidgard, Darwin on Individuality, Polymorphism, and 'Modularity' in a Colonial Animal

Mark Borrello, Commentary

Organizers: *Mark Borrello and Will Ratcliff*

2 p.m. - 4:00 p.m., Monday, July 11

Room: *Bell Canyon (HSEB 1730)*

Biology's First Law: Authors Meet Critics

Doug Erwin, ZFEL in Paleontological Perspective

Derek Turner, McShea and Brandon's Zero-Force Evolutionary Law (ZFEL) and the Distinction Between Passive and Driven Evolutionary Trends

Lily Huang, Can Selection Be Background?

Dan McShea and Robert Brandon, Responses to Our Critics

Organizer: *Chris Haufe*

2 p.m. - 4:00 p.m., Monday, July 11

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Room: Neffs Canyon (HSEB 1700)

Roundtable: Debating Entwicklungsgeschichte II — Disputed Legacies

Scott F. Gilbert

Alan Love

Jane M. Maienschein

Marsha Richmond

Ron Amundson

Organizer: Scott F. Gilbert

2 p.m. - 4:00 p.m., Monday, July 11

Room: King's Peak (Medical School classroom A)

How Eugenics Does Its Work

Megan Bertagnolli, Educating the Public: Photography, Mental Hygiene and the Visual Culture of Eugenics

Steeves Demazeux, The Politics of Eugenics in Light of the 1918 Statistical Manual

Rob Wilson, The Eugenic Mind

Garland Allen, 'Culling the Herd:' Eugenics and the Conservation Movement in the United States, 1900-1940

Organizer: Rob Wilson

2 p.m. - 4:00 p.m., Monday, July 11

Room: Grandeur Peak (Medical School classroom B)

Hybrids, Populations, and Types: Was Race Rethought in the Mid-Twentieth Century?

Christine Manganaro, Amalgamation of a Different Color: Scientific and Popular Ideas about Biological Assimilation in Territorial Hawai'i

Tracy Teslow, Rejecting Race, Embracing Man? Ruth Benedict, Gene Weltfish and 'The Races of Mankind'

John P. Jackson, Jr., Is Race Real? The Postwar Dispute between Sherwood Washburn and Ashley Montagu

Michelle Brattain, 'Lottery of the Genes:' The Popular Discourse of Genetics and Race in the Postwar US

Organizer: John P. Jackson, Jr.

2 p.m. - 4:00 p.m., Monday, July 11

Room: Ensign Peak (Medical School classroom C)

Mormonism and Evolution

James McLachlan, William H. Chamberlin and the 1911 Modernism Controversy

Duane Jeffery, LDS Owned Brigham Young University and Evolution: Progress in an Evolving Program

David H. Bailey, Creationism and Intelligent Design: False Friends

Steven L. Peck, Mormonism's Current Experience with Creationism: Responses and Challenges

Organizer: Steven L Peck

2 p.m. - 4:00 p.m., Monday, July 11

Room: Deseret Peak (Medical School classroom D)

Niche Construction Theory: Challenges and Applications

Ayelet Shavit, Why is Niche Construction So Rarely Recorded, and What's Wrong with That?

Emanuele Archetti, Overcoming the Organismic/Ecological Divide in Niche Construction Theory

Ben Kerr, Evolutionary Effects of Niche Construction Feedback

Organizer: Emanuele Archetti

4:30 p.m. - 6:30 p.m., Monday, July 11

Officer's Club

Integrating History, Philosophy and Social Studies of Biology: David L. Hull's Contributions

Jane Maeinschein

Dick Burian

Chris Horvath

Bob Richards

Ed Wiley

Lisa Lloyd

Ana Barahona

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9 a.m. - 10:30 a.m., Tuesday, July 12

Room: *Lambs Canyon (HSEB 3515)*

Evolution and Ideology

Michael Brady, The Forgotten History of Evolution in America

Emilie Raymer, A Man of His Times: Thorstein Veblen and University of Chicago Evolutionists, 1891-1906

Hyung Wook Park

Frank Macfarlane Burnet, Peter Brian Medawar, and the Construction of Immunological Tolerance

9 a.m. - 10:30 a.m., Tuesday, July 12

Room: *Emigration Canyon (HSEB 2958)*

The Pluralism of Modeling in Biology: The Light and the Dark Side

Stuart Glennan, Agent-based Models and Scientific Understanding

Greg Cooper, The Explanatory Role of individual Based Models in Ecology

Fridolin Gross, Dynamical Systems Thinking as an Alternative Heuristic for Molecular Biology?

9 a.m. - 10:30 a.m., Tuesday, July 12

Room: *City Creek Canyon (HSEB 2948)*

Norms for Representing Biological Diversity: Species, Hierarchies, and Museum Displays

Lucie Bittner, Use and Abuse of Monistic Philosophy and Concepts in View of Protistan Diversity Studies

Richard Stephenson, A Defense of Rank Free Classification of Taxa in Paleontology

Lukas Rieppel, Exhibiting Prehistory at the American Museum of Natural History

9 a.m. - 10:30 a.m., Tuesday, July 12

Room: *Mill Creek Canyon (HSEB 2938)*

Biological Levers, Altruism, and Emotion

Gillian Barker, Altruism and Biological Leverage

Michael D. Doan, Behavioral Interaction and the Emotions: Is 'Narrow' Evolutionary Psychology Enough?

O'Neal Buchanan, Embodied Emotions and Biological Leverage

Organizer: *O'Neal Buchanan*

9 a.m. - 10:30 a.m., Tuesday, July 12

Room: *Parleys Canyon (HSEB 2110)*

Human Kinds and Human Minds: Revisiting the Debate Over Race and IQ

Yuriditzi Pascacio Montijo, One Nature of Intelligence, or Many? A Proposal to Characterize the Different Natures of Human Intelligence

Jonathan Kaplan, Race and Intelligence: Does Genomics Change Anything?

Matthew Kopec, Sesardic's 'Race': A Philosophical Destruction of a Non-Biological Concept

9 a.m. - 10:30 a.m., Tuesday, July 12

Room: *Neffs Canyon (HSEB 1700)*

Chromosomes and Genes: Out from the shadow of DNA

Maria Jesus Santesmas, Circulating Chromosomes: From Plants to Human Tumors

Nathan Ha, Murray Barr and the Development of the Sex Chromatin Test

Andrew Hogan, Visualizing the 'Fragile X': Diagnostic Cytogenetics in the 1970s and 1980s

Organizer: *Maria J. Santesmas and Edna Suarez*

9 a.m. - 10:30 a.m., Tuesday, July 12

Room: *Bell Canyon (HSEB 1730)*

Experiments and Beyond: New Epistemological Perspectives in Biological Research

Guido Caniglia, Listening to our Experiments. Darwin's Dilemmas, Lillie's Paradox and the Genetic Regulatory Architecture of Insect Societies

Lijing Jiang, Seeing Experiments Differently: Viktor Hamburger and Rita Levi-Montalcini's Study of Neuron Development before 1950

Marta Halina, Reconceptualizing Behavior through Experiments in Comparative Psychology

Michel Morange, Commentary

Chair: Sandra Mitchell

Organizer: *Guido Caniglia*

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9 a.m. - 10:30 a.m., Tuesday, July 12

Room: King's Peak (Medical School classroom A)

Crossing Over: Exchanging Methods, Models, and Concepts in Biology and Medicine

Katherine Liu and Jason Scott Robert, Reconnecting Basic Research to Medicine via Angiogenesis Inhibitors

Jason Byron, Modeling Bacterial Evolution

Jan Baedke, 'Extended Synthesis' and Extended Methodology: The Limits of Interventionism in Epigenetics

9 a.m. - 10:30 a.m., Tuesday, July 12

Room: Grandeur Peak (Medical School classroom B)

The New Mechanism – Critical Perspectives

Laura Franklin-Hall, The Emperor's New Mechanisms

Arnon Levy, What's at Stake in the Mechanisms Debate?

Andrew Melnyk, From New Mechanistic Explanation to Good Old-Fashioned Reductionism

Organizer: Arnon Levy

9 a.m. - 10:30 a.m., Tuesday, July 12

Room: Ensign Peak (Medical School classroom C)

Philosophy of Psychology Meets Philosophy of Biology

Chris Zarpentine, Moral Psychology as Pastiche: Evolution, Computation, and Neuropsychology

David Haury, Knowledge, Beliefs, Cognitions, and Acceptance of Evolution

Brian McLoone and Steven Orzack, Philosophy of Biology and Philosophy of Psychology: A Study in Contrasts

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11 a.m. - 12:30 p.m., Tuesday, July 12

Room: *Lambs Canyon (HSEB 3515)*

Nothing in Common? Diverse Approaches to the Philosophical Study of Evolutionary Change

Emily Schultz, Does Culture Evolve on its Own? Outlining an Alternative Anthropological Account of Processes of Natural-Cultural Stability and Change

Hisashi Nakao and Edouard Machery, The Evolution of Punishment

Sarah Roe, The Journey from Discovery to Scientific Change

11 a.m. - 12:30 p.m., Tuesday, July 12

Room: *Emigration Canyon (HSEB 2958)*

Reductionism and Complexity

Lucas Matthews, Explanation of Psychiatric Disorders and Complex Biological Systems Benefits from Philosophical Perspectives

David Frank, Neuroeconomics, Reductionism, and Explanatory Extension: The Case of Utility

Fabian Lausen, Research Directives and Heuristic Reductionism

11 a.m. - 12:30 p.m., Tuesday, July 12

Room: *City Creek Canyon (HSEB 2948)*

Individuals, Units of Selection, and Levels of Organization

Shijian Yang, Holobionts as Units of Natural Selection

Jon Umerez, Levels of Organization in Biological Systems A Conceptual Analysis

Andrew Hamilton, From Types to Individuals: Hennig's Ontology and The Development of Phylogenetic Systematics

11 a.m. - 12:30 p.m., Tuesday, July 12

Room: *Mill Creek Canyon (HSEB 2938)*

Reappraising the Prospects for the Gene after the First Decade of the 21st Century

Charbel Niño El-Hani, The Crisis of the Gene: Recent Developments

Laurence Perbal, Postgenomics and Postmodernity: The Case of the Gene

Tom Fogle, Commentary

Organizer: *Charbel Niño El-Hani*

11 a.m. - 12:30 p.m., Tuesday, July 12

Room: *Parleys Canyon (HSEB 2110)*

The Human Scope of Evo-Devo

Ron Amundson, Human Relations in Light of Evo-devo

Eva Jablonka, Human Culture: An Epigenetic View

Jim Griesemer, Commentary

Organizer: *Linnda Caporael*

11 a.m. - 12:30 p.m., Tuesday, July 12

Room: *Bell Canyon (HSEB 1730)*

Between Archeology and Anatomy: Human Evolution Across Disciplines

Nathalie Richard, Human Evolution According to Gabriel de Mortillet and John Lubbock (France, England c. 1860-1870)

Matthew Goodrum, Crafting a New Science: Defining Paleoanthropology and Its Relationship to Prehistoric Archeology (1860-1890)

Jesse Richmond, Discipline and Credibility in the Post-War Australopithecine Controversy

Organizer: *Richard G. Delisle*

11 a.m. - 12:30 p.m., Tuesday, July 12

Room: *Neffs Canyon (HSEB 1700)*

Populations and Genes: Out from the Shadow of DNA

Edna Suárez and Ana Barahona, Post-war and Post-revolution: Human Heredity in Mexico

Angela N. H. Creager, Mutation in the Atomic Age

Lisa Gannett, Anthropology and the 'New Systematics'

Organizer: *Maria J. Santesmases and Edna Suarez*

11 a.m. - 12:30 p.m., Tuesday, July 12

Room: *King's Peak (Medical School classroom A)*

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Why Bother? The Value of Applying HPS

Jessica Bolker, Introduction

Melinda Fagan, Applied HPS and Stem Cell Research

Respondent: Gerald Spangrude

Chris Haufe, Structure and Funding of Science

Respondent: Vaughn Cooper

Organizer: Jessica Bolker

11 a.m. - 12:30 p.m., Tuesday, July 12

Room: Grandeur Peak (Medical School classroom B)

Normativity, Nativism, and Neo-Anti-Darwinism

Aron Vadakin, Evolution, Normativity, and Normative Judgment

Danielle Wylie, Moral Nativism and Modularity

Rafael Ventura, Fodor's Neo-Anti-Darwinism

11 a.m. - 12:30 p.m., Tuesday, July 12

Room: Ensign Peak (Medical School classroom C)

Mentoring and Metaphor in the Development of Natural Selection

Alistair Sponsel, Making a Man of Science: Lyell as a Personal Mentor to Darwin

Jakub Novak, Alfred Russel Wallace and the Buttercup: The Aesthetic Experience of Nature as Part of Wallace's Intellectual Biography

Melissa Charenko, Responses to Darwin's Use of a Malthusian Metaphor in Canada

11 a.m. - 12:30 p.m., Tuesday, July 12

Room: Deseret Peak (Medical School classroom D)

Modeling Across Boundaries

Joshua Smart, Beg, Borrow, Steal: Evolutionary Economics as Model Borrowing

Erik Svetich, Modeling 'Spandrels'

Alistair Isaac, Circadian Rhythms and Mechanistic Modeling

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2 p.m. - 4:00 p.m., Tuesday, July 12

Room: *Lambs Canyon (HSEB 3515)*

Varieties of French neo Lamarckism

Laurent Loison, The Importance of Positivism in French neo-Lamarckism: The Case of Botanical Georgraphy, 1880-1900

Raf de Bont, Evolution in the Field: Lamarckian Ethology in France and Belgium, 1870-1940

Snait B. Gissis, Lamarckism and Sociology: Early Durkheim (1885-1892) and French neo-Lamarckisms

Jean Gayon, Commentary

Organizers: *Snait Gissis and Laurent Loison*

2 p.m. - 4:00 p.m., Tuesday, July 12

Room: *Emigration Canyon (HSEB 2958)*

Biological Epistemology and Gender Theory

Catherine Clune-Taylor, A Biological Critique of 'Disorder of Sex Development'

Jocelyn Bosley, Sex, Laws, and the Founding of 'Biologie'

Letitia Meynell, Cognitive Ethology as Ecofeminist Methodology

Laura Seger, The One-Dimensional Grandma: Gender Bias in Evolutionary Explanations of Menopause

2 p.m. - 4:00 p.m., Tuesday, July 12

Room: *City Creek Canyon (HSEB 2948)*

Development and Environment

David J. Depew and Bruce H. Weber, Organisms, Environments, and the Limits of the Modern Synthesis

Stuart A. Newman, Lamarck's Dangerous Idea

Antonine Nicoglou, Towards a Theory of Development: Rethinking the Role of Environment

Arnaud Pocheville, Niche Construction, Extended Development, and Extended Inheritance

Organizer: *Antonine Nicoglou*

2 p.m. - 4:00 p.m., Tuesday, July 12

Room: *Mill Creek Canyon (HSEB 2938)*

Race: Controversies and Misunderstandings

Eric Hoffman, Concepts of Race, Person and Human Species in the 'Genomics Age': Paradoxes, Category Mistakes and Cognitive Dissonance

Quayshawn Spencer, Why There is No Space for Race in Phylogenetics

2 p.m. - 4:00 p.m., Tuesday, July 12

Room: *Parleys Canyon (HSEB 2110)*

Multicellularity, Coloniality and Symbiosis: Organismality, Multicellularity and Major Transitions II

Jan Sapp, The Symbiome: An Historical Overview

William C. Ratcliff, Experimental Evolution of Multicellularity

Ellen Clarke, A Solution to the Problem of Biological Individuality

Frédéric Bouchard, Commentary

Organizers: *William C. Ratcliff and Mark Borrello*

2 p.m. - 4:00 p.m., Tuesday, July 12

Room: *Bell Canyon (HSEB 1730)*

Recent Challenges to Disciplinary Integration: Human Evolution Across Disciplines

Jessica Mikels-Carrasco, Sherwood Washburn's New Physical Anthropology: Rejecting the 'Religion of Taxonomy'

Ian Tattersall (read by Jeffrey Schwartz), Paleoanthropology and Evolutionary Theory

Jeffrey H. Schwartz, 'Molecular Systematics' and the Subversion of Paleoanthropology

Richard G. Delisle, Paleoanthropology's Vertical Integration of Disciplines: From Cladograms, to Phylogenies, to Scenarios, and Well Beyond

Organizer: *Richard G. Delisle*

2 p.m. - 4:00 p.m., Tuesday, July 12

Room: *Neffs Canyon (HSEB 1700)*

Reconvening the 1998 Philosophy of Science Genetics-Development-Behavior Debate

Kenneth F. Schaffner, Revisiting 'Genes, Behavior, and Developmental Emergentism'

Erik Jorgensen, The Irreducibility of the Worm

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William C. Wimsatt, Innateness Re-examined in Light of Evolutionary Developmental Biology

Paul E. Griffiths, The Triumph of Development

Organizer: James Tabery

2 p.m. - 4:00 p.m., Tuesday, July 12

Room: King's Peak (Medical School classroom A)

How to Apply HPS: Key Issues and Topics

Alan C. Love, Doing Biology More Philosophically?

Respondent: Tom Kemp

Richard M. Burian, On Coping with Floods of Molecular and Functional Data

Ronald Jenner, The Roles of Historical and Philosophical Awareness in studying Deep Metazoan Evolution

Respondent: Randy Irmis

Laura Perini, (Re)Presenting Data: Style, Substance, and Medium as Message

Organizer: Jessica Bolker

2 p.m. - 4:00 p.m., Tuesday, July 12

Room: Grandeur Peak (Medical School classroom B)

Roundtable: Biology Outside the Box

Manfred Laubichler, A Poet's Vision of Nature's Creativity: Johann Wolfgang von Goethe's Conception of Morphology and Georg Büchner's "third way" between Idealism and Empiricism

Robert A. Skipper, Jr., R.A. Fisher: Making Mathematical Biology

Michel Morange, François Jacob: Tinkering with Weapons, Bacteriophages and Words

Erika Lorraine Milam, The Naked Ape is All Wet: Elaine Morgan and the Aquatic Ape

Luis Campos, Drew Endy: Out As In - The Case of Synthetic Biology

Organizers: Michael Dietrich and Oren Harman

2 p.m. - 4:00 p.m., Tuesday, July 12

Room: Ensign Peak (Medical School classroom C)

Perspectives on the Evolution of Mind and Behavior

Wayne Christensen, A Systems Approach to the Evolution of Cognition

Julio Munoz-Rubio, Evolutionary Psychology: Interdiscipline or Fragmentary Analyses of Human Mind?

Sherrie Lyons, Human Nature and the Pursuit of Happiness: The Promise of Phrenology, Evolution and Neurobiology

Tomi Kokkonen, Psychological Innateness and Biology

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Poster Session

4 p.m. – 6 p.m., Tuesday, July 12, 2011, *Officer's Club*

Marshall Abrams, Symbolic Cultural Evolution: Simulating Coherence in Cultural Evolution

Frederico Alvim Carvalho and Jesús Raúl Navarro García, The Biological Struggle against Anopheles and the Expansion of *Gambusia* in Spain: A Historical-Environmental Study about Health, Environmental Disaster and Repression in Spain in the First Third of the Twentieth Century

Alba Amilburu, An Organizational View of Biological Essences

Nina Atanasova, Simulation vs. Explanations in DST, Evo-Devo, and Medical Research

Sylvia Blad, Detachment and the Human Genome

Chad Campbell, Historical, Functional and Philosophical Conceptualizations of 'the gene' and Their Implications for Science Education

Lynn Chien-Hui Chiu, Modeling the Inside/Outside Interactions

David Crawford, The Role of Cellularization in the Evolutionary Development of Hierarchy in the Kingdom Fungi

Dina Drits and Louisa A. Stark, Online Biology Resources Provide Background Information for Science and Society Discussions

Martin Earl, Mapping Linnaeus' *Philosophia Botanica*

Christopher Eliot, What are Ecological Communities?

Susie Fisher, Teaching Environmental Ethics in the 21st Century

Devin Gouvêa, The Dark Side of Intelligent Design: Making Sense of the Movement's Scientific Efforts

Francisco Güell, The Stages of the Early Embryo: Towards a More Adequate Descriptive Framework

Gabriela Guerrero, Literature's Re-appropriation of Scientific Concepts: A Case Study with the Notion of Inheritance (A tour across time from Frankenstein and Dracula to present-time Cyberpunk)

Benjamin Hardisty, Escalation and Heterogeneity

Kory Johnson, Ecological Models of Cognitive Labor in Multiple Dimensions

Ivonne Kuri, Gerald Edelman's Model about the Higher-Order Consciousness Evolution Research

Lucas J. Matthews, On the Value of Uncertainty in Phylogenetic Bootstrap Proportions

Luke McGowan, Mechanisms as Evolutionary Characters

Elsa Muro, Crucial Features of Epigenetic Information

Kathryn S. Plaisance and Carla Fehr, Socially Relevant Philosophy of Science

Ricardo Santos do Carmo, Nei Freitas Nunes-Neto & Charbel Niño El-Hani, Teleological and Functional Explanations in High School Biology Textbooks

Laura M. Seger, The One-Dimensional Grandma: Gender Bias in Evolutionary Explanations of Menopause

Patrice Showers Corneli, Seeing the Evolutionary Forest from the Trees: Clarifying Cone Snail Phylogenetics.

David Suárez Pascal, Adaptation and Value

Collin Rice and Yasha Rohwer, Explaining Biological Phenomena with Idealized Models

Emanuele Serrelli, The Structure of Population Genetics

James Tabery and Teneille Brown, Testing the Blades on the 'Double-Edged Sword:' A National, Experimental Survey of US Trial Court Judges

ISHPSSB 2011, Salt Lake City, Utah, USA, July 10-14

9 a.m. - 10:30 a.m., Wednesday, July 13

Room: Lambs Canyon (HSEB 3515)

Philosophical, Evolutionary, and Neuroscientific Perspectives on Affective Experience

Paul Davies, The Practical Point of View From the Biological Point of View

Michael Trestman, Investigating the Phylogenetic Distribution of Consciousness

Thomas Ebke, What is Neo-Finalism? Raymond Ruyer in the Light of Contemporary Brain Research

9 a.m. - 10:30 a.m., Wednesday, July 13

Room: Emigration Canyon (HSEB 2958)

Evolutionary Architectures of Mind

Jonatan Garcia Campos, Evolutionary Aspects of Dual-Process Theories of Reasoning

Paola Hernandez Chavez, Assessing Evolutionary Considerations in Modular Theories of Mind

Ruth Garcia and José Luis González Recio, Ramón y Cajal on the Neuron: Progress in Biology from a Lakatosian and Laudanian Outlook

Organizer: Paola Hernandez

9 a.m. - 10:30 a.m., Wednesday, July 13

Room: City Creek Canyon (HSEB 2948)

Theoretical and Practical Implications of Paleontological Research

Kevin Francis, Strategies of Generalization in Mass Extinction Debates

Elizabeth Dobson, Raising the Dead and Buried: Ancient DNA Research and the Meaning of Fossils

Kyle Burchett, Anthropogenic Mass Extinction: Homo sapiens and the Evolution of the Biosphere since the Pleistocene

9 a.m. - 10:30 a.m., Wednesday, July 13

Room: Mill Creek Canyon (HSEB 2938)

The Social Lives of Biological Theories: A Historical Drama in Three Episodes

Devin Gouvêa, Pangenesis and the Debate over Evolutionary Mechanisms, 1868-71

Joy Wattawa, Darwin Dissipated: When Natural Selection Met Heat Death

Daniel Liu, The Shoggoth of Science: Protoplasm and the Biological Disciplines, 1890-1940

Organizer: Devin Gouvêa

9 a.m. - 10:30 a.m., Wednesday, July 13

Room: Parleys Canyon (HSEB 2110)

Evo-devo and Explanatory Integration I: Biological Practices

Ingo Brigandt, 'Developmental Constraint' in the 1980s

Arantza Etxeberría, Descriptions Dignified: Patterns and Processes in Evo-devo

Manfred Laubichler, Commentary

Organizers: Ingo Brigandt and Alan Love

9 a.m. - 10:30 a.m., Wednesday, July 13

Room: Bell Canyon (HSEB 1730)

Theories, Models, and Data in Population Genetics: Population Genetics as a Multidimensional Discipline

Alirio Rosales, How to Think About Population Genetics: The Dimensions of Theory

Yoichi Ishida, Roles of Models in Population Genetics: Sewall Wright's Analysis of the *Linanthus* Data

Jon Seger, 'Missing Heritability' and the Genetics of Genes That Can't be Identified

Organizers: Yoichi Ishida/Alirio Rosales

9 a.m. - 10:30 a.m., Wednesday, July 13

Room: Neffs Canyon (HSEB 1700)

Hierarchy Theory of Evolution

Dan R. Brooks, Metaphors for the Extended Synthesis: Something Old, Something New

Silvia Caianiello, Modularity and Hierarchy Theory

Linnda Caporael, Grounding Human Social Cognition in Hierarchical Group Structure

Organizer: Emanuele Serrelli

9 a.m. - 10:30 a.m., Wednesday, July 13

Room: King's Peak (Medical School classroom A)

Issues in the Philosophy of Animal Cognition

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Nicholas Shea, Metarepresentation and Reward Prediction Errors in Non-Human Animals

Andrew Fenton, Neuroscience and the Problem of Other Animal Minds: Why It May Not Matter as Much as Some Think

Amanda Leonard, The Myth of Gender in Companion Animals: The Effects of Anthropomorphism on Spay/Neuter Rates

9 a.m. - 10:30 a.m., Wednesday, July 13

Room: Grandeur Peak (Medical School classroom B)

The Fine Art of Science and the Fine Science of Art

Rachel Mundy, Sonic Specimens and Musical Evolution

Alkistis Elliott-Graves, Abstraction and Conceptualization in Invasive Species Research

9 a.m. - 10:30 a.m., Wednesday, July 13

Room: Ensign Peak (Medical School classroom C)

Heuristic Guidelines and Experimental Practice in Biology

Mike Buttolph, 'In promise unsurpassed': Mendelian Genetics and the Scientific Status of Biology

Veli-Pekka Parkkinen, Gene Knockouts and Mechanistic Understanding

Susie Fisher, 'DNA make RNA (makes protein)' – DNA/RNA Hybridization and the Making of Molecular Genetics

9 a.m. - 10:30 a.m., Wednesday, July 13

Room: Deseret Peak (Medical School classroom D)

Probability and Evolution

Jun Otsuka, Causal Modeling in Evolutionary Biology

Joshua Haddock, Simplicity and Confirmation: AIC, Bayesianism, and Likelihoods

Ryota Morimoto, Bayesian Interpretation of Probability in Genetic Drift Model

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11 a.m. - 12:30 p.m., Wednesday, July 13

Room: Lambs Canyon (HSEB 3515)

Expertise across Disciplinary Communities: Philosophy, Behavioral Genetics, and Evolutionary Psychology

Kathryn Plaisance, Interactional Expertise: A Case Study in Philosophy and Behavioral Genetics

Carla Fehr, Criticisms of Evolutionary Psychology: Critical Discourse across Epistemic Communities

John Dupré, Commentary

11 a.m. - 12:30 p.m., Wednesday, July 13

Room: Emigration Canyon (HSEB 2958)

Synthetic Biology: Ontological and Epistemological Issues

Dan Nicholson, Biology as Engineering: The Philosophical Basis of Synthetic Biology

Werner Callebaut, Synthetic Biology – Making as Knowing?

Michel Morange, Commentary

Maureen O'Malley, Commentary

Joan Fujimura, Commentary

Organizers: Dan Nicholson and Werner Callebaut

11 a.m. - 12:30 p.m., Wednesday, July 13

Room: City Creek Canyon (HSEB 2948)

Biological Taxa, Essentialism, and the Individuality Thesis

Kenneth Vernon, Ostensive Definitions and Species Names

Makmiller Pedroso, Does Kripke's Argument for Origin Essentialism Apply to Biological Species?

Jerzy Brzozowski, Essentialism Has Never Been Dead

11 a.m. - 12:30 p.m., Wednesday, July 13

Room: Mill Creek Canyon (HSEB 2938)

On the Importance of Terms in Biology

Gregory Radick, Heredity's Baggage

Thierry Hoquet, Natural Cuckolds? Sociobiological Jargon and its Feminist Critiques

Lucie Laplane, Issues of Terminology in Biology: The Case of Cancer Stem Cells

Organizers: Lucie Laplane, Thierry Hoquet and Gregory Radick

11 a.m. - 12:30 p.m., Wednesday, July 13

Room: Parleys Canyon (HSEB 2110)

Evo-devo and Explanatory Integration II: Physical Science

Laura Nuño de la Rosa, 3D Modeling and Organicism in Development and Evo-devo

Alan Love, Physics Meets Biology in Evo-devo

Sabine Brauckmann, Commentary

Jessica Bolker, Commentary

Organizers: Ingo Brigandt and Alan Love

11 a.m. - 12:30 p.m., Wednesday, July 13

Room: Bell Canyon (HSEB 1730)

The Philosophy and the History of Biology from Latin America

Maximiliano Martinez, Eugenio Andrade and Sergio Martinez, Constraints, Path Dependence, and the Phylotypic Stage

Alejandro Rosas, Moral Polymorphism

Paulo Abrantes, Culture and Transitions in Individuality

Organizer: Maximiliano Martinez

11 a.m. - 12:30 p.m., Wednesday, July 13

Room: Neffs Canyon (HSEB 1700)

Hierarchy Theory of Evolution

Gregory P. Dietl, Toward a Unified Ecology in Macroevolution

Niles Eldredge, A Matter of Individuality: Hierarchy Theory at the Dawn of Evolutionary Biology

William Miller, III, Macroevolutionary Consonance and Expansion of the Modern Synthesis

Organizer: Emanuele Serrelli

11 a.m. - 12:30 p.m., Wednesday, July 13

ISHPSSB 2011, Salt Lake City, Utah, USA, July 10-14

Room: King's Peak (Medical School classroom A)

Research Systems

Elihu M. Gerson, Research Systems as Units of Comparative Analysis

James Griesemer, Model Taxa and Taxon-Focused Research in Evo-Devo: Some Thoughts on the Use of Model Systems in Biology

Christopher DiTeresi, Morpholinos and the Metabolism of Error

Organizer: Elihu M. Gerson

11 a.m. - 12:30 p.m., Wednesday, July 13

Room: Grandeur Peak (Medical School classroom B)

Population Genetic Modeling in the Age of Molecular Data: Population Genetics as a Multidimensional Scientific Discipline

Michael R. Dietrich, Reversing the Direction of Time: The Rise of the Coalescent in Population Genetics

Anya Plutynski, Steven Peck, and Fred Adler, Microbial Evolution and Public Health: A Multilevel Perspective

Edna Suarez-Diaz, Commentary

Organizers: Yoichi Ishida and Alirio Rosales

11 a.m. - 12:30 p.m., Wednesday, July 13

Room: Ensign Peak (Medical School classroom C)

Optimality and Selection: Models, Explanations, and Causal Interpretations

Collin Rice, Optimality Explanations in Evolutionary Biology

Erick Peirson, The Role of Optimization Models in the Rise of Phenotypic Plasticity in Evolutionary Biology

Michael Jonathan Hodge, Natural Selection: Defending a Causal Interpretation

11 a.m. - 12:30 p.m., Wednesday, July 13

Room: Deseret Peak (Medical School classroom D)

Interpreting Fitness

Peter Gildenhuis, Fitness Assignments for Irregular Systems

David Crawford, Strength, Stability, and the Principle of Natural Selection

Trin Turner, Fitness and Explanation: A Pragmatic Approach

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2 p.m. - 4:00 p.m., Wednesday, July 13

Room: Lambs Canyon (HSEB 3515)

Conceptual Issues in Ecology and Ethology

Michael Bradie, The Moral Life of Animals

Viorel Pâslaru, Integrative Pluralism and Mechanistic Explanation

Marcela Zalamea, Schizophrenic Ecology

2 p.m. - 4:00 p.m., Wednesday, July 13

Room: Emigration Canyon (HSEB 2958)

Roundtable: Toward a Philosophy of Systematic Biology: Data, Phylogenetic Methodology, and Claims of Informational Superiority

Jeffrey H. Schwartz, Introduction

David Williams and Malte Ebach, Pattern Cladistics, Relationships and the 'Natural System': A Brief History

Malte Ebach and David Williams, A Brief History of Miscommunicating Monophyly

Francisco Vergara-Silva, Species Concepts, 'Phylogenetic Thinking,' and 'Integrative Taxonomy': A Role for Contemporary Epistemology?

Organizers: Francisco Vergara-Silva and Jeffrey H. Schwartz

2 p.m. - 4:00 p.m., Wednesday, July 13

Room: City Creek Canyon (HSEB 2948)

Conceptual Challenges in Investigating Life's Origins

Carol Cleland, Conceptual Challenges for Contemporary Theories of the Origin of Life

Emily Parke, Lessons from Arsenic Bacteria?

Mark Bedau, The Program-Metabolism-Container (PMC) Model of Minimal Chemical Life Implies that Minimal Life is a Matter of Degree

Michael Weisberg, Homochirality Before the Origin of Life

Organizer: Michael Weisberg

2 p.m. - 4:00 p.m., Wednesday, July 13

Room: Mill Creek Canyon (HSEB 2938)

Past and Present: Races, Species, Clades, and Taxa

Casey Helgeson, Why Taxonomize Hierarchically?

Joel Velasco, Why Context Matters: An Inference-Relative Understanding of Clade

Matthew J. Barker, Saving a Revolutionary View (of the History of the Philosophy of Species in Biology)

Matthew Kopec, Clines vs. Clades in the Race Debate

Organizer: Joel Velasco

2 p.m. - 4:00 p.m., Wednesday, July 13

Room: Parleys Canyon (HSEB 2110)

Organisms, Individuals, and Inheritance

Patrick Forber, Symbiosis and Inheritance

Austin Booth, New Work for a Theory of Individuals

Greg Priest, Darwin among the Zoophytes: Darwin's Perspective on Biological Individuality

Jonathan Birch, Extreme Cooperation as the Mark of Higher-Level Individuality

Ellen Clarke, Commentary

Organizer: Patrick Forber

2 p.m. - 4:00 p.m., Wednesday, July 13

Room: Bell Canyon (HSEB 1730)

Roundtable: Teaching Gender Studies of Biology

Marsha Richmond, Gender Studies of Biology in Perspective

Georgina Montgomery, Visualizing Gender: Digital Collections and Audio-Visual Projects in the Teaching of Gender and Evolution

Tina Gianquitto, When is a Rose Just a Rose?: Gender, Science, and Rhetoric

Erika Milam, Thinking with Gender

Donald Opitz, Is it Possible to Teach 'Gay Science' without the 'Gay'?

Sarah Richardson, Teaching Interdisciplinarity through Gender Studies of Biology

Organizers: Marsha Richmond and Georgina Montgomery

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2 p.m. - 4:00 p.m., Wednesday, July 13

Room: *Neffs Canyon (HSEB 1700)*

Hierarchy Theory of Evolution

Telmo Pievani, The Evolving Structure of Evolutionary Theory: The Role of Hierarchy Theory for an Extended Evolutionary Synthesis

Ilya Tëmkin, Nested Networks and Biological Diversification

Keynyn Brysse, Lessons from Interdisciplinary (Non-) Communication in the Mass Extinction Debate

Emanuele Serrelli, Criticizing Adaptive Landscapes and the Conflation between Ecology and Genealogy

Organizer: *Emanuele Serrelli*

2 p.m. - 4:00 p.m., Wednesday, July 13

Room: *King's Peak (Medical School classroom A)*

Microbial Ecology and Metagenomics: Scientific, Philosophical and Historical Reflections

Maureen O'Malley, Microbial Ecology from the Past to the Present: Some Key Philosophical Issues

Rebecca Case, Microbial Ecology: A Marine Perspective

Eric Bapteste, Microbial Ecology From an Evolutionary Perspective

Jay Odenbaugh, Microbial Ecology and the Philosophy of Ecology: A Commentary

Organizer: *Maureen O'Malley*

2 p.m. - 4:00 p.m., Wednesday, July 13

Room: *Grandeur Peak (Medical School classroom B)*

Experiment from Reproduction to Neuroscience

Kimberly Brumble, Reproductionism and Robust Virtual Experimentation in the Life Sciences

Jason Oakes, Techniques, Technology, and Organization in Experimental Embryology

Nancy Hall, William Cochran, Gertrude Cox, EXPERIMENTAL DESIGNS, and Agricultural Research

Matthew Bateman, Experimental Inquiry in Cognitive Neuroscience

2 p.m. - 4:00 p.m., Wednesday, July 13

Room: *Ensign Peak (Medical School classroom C)*

The Philosophy and the History of Biology from Latin America

Alba Perez-Ruiz, Development of the Concept of Reconciliation in Primatology

Jorge Martinez-Contreras, Savage Human Sexuality

Nei Freitas Nunes-Neto, Argyis Arnellos and Charbel Niño El-Hani, Etiological and Organizational Perspectives on Function

Carlos Lopez Beltrán and Vivette García Deister, The Mexican Mestizo: A Life in Science

Organizer: *Maximiliano Martinez*

2 p.m. - 4:00 p.m., Wednesday, July 13

Room: *Deseret Peak (Medical School classroom D)*

Values and Policy: The Implications of Subjects' and Researchers' Understanding of Research

Thomas Cunningham, A Simple Argument Gone Wrong: Why the Ban on Federal Funding for SCNT is Unjustified

Frazier Benya, Researchers' Concerns about the Ethical, Legal, and Social Implications of Biomedical Research (1960-1971)

Lane DesAutels, Relocating Objectivity in Environmental Ethics: and Appeal to Objective Reasons

Caroline Appleton, Reconciling Values in Conservation Biology: A Pragmatic Approach

Member's Meeting (all participants are welcome)

Post Theater

Wednesday, July 13, 2011, 4:30 p.m. – 6:00 p.m.

ISHPSSB 2011 Banquet

Snowbird Resort

Wednesday, July 13, 2011, 6 p.m. – 9 p.m.

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9 a.m. - 10:30 a.m., Thursday, July 14

Room: *Lambs Canyon (HSEB 3515)*

Beyond the Gene: Understanding Proteins and Viruses

Joyce Havstad, The Classification of Proteins

Sandra Mitchell, Multi-level Perspective on Protein Folding Behavior

Steven Lawrie, Understanding Molecular Virology: A 'Questions and Methods' Based Approach

9 a.m. - 10:30 a.m., Thursday, July 14

Room: *Emigration Canyon (HSEB 2958)*

Visions of Nature: The Tension between Philosophy, Science, Technology and Society

Sanne van der Hout, Towards a Sustainable Future: The Potential of Biomimicry

Alex Savory-Levine, Man is the Redeemer of Nature

Zoe Nyssa, Studying Biodiversity or Saving It? Lurking Inconsistencies and the Demarcation of Science in Conservation Biology

9 a.m. - 10:30 a.m., Thursday, July 14

Room: *City Creek Canyon (HSEB 2948)*

Continuities of Nature, Selection Models, and Origins of Life

Senji Tanaka, Organism Concepts and How to Deal with the Continuities of Nature

Naftali Weinberger, The Alleged Predictive Incompatibility of Genic and Genotypic Selection Models

Eric Martin, Continuity in Evolution and Origins of Life

9 a.m. - 10:30 a.m., Thursday, July 14

Room: *Mill Creek Canyon (HSEB 2938)*

Examining the Boundaries of Biological Objects

Andrew Yang, Seeing Cellularity: Making Sense of Cell Imagery in Practice and Pedagogy

Corinne Bloch, Catching the Virus Concept

Monika Piotrowska, Improving Extrapolation with Humanized Mice

9 a.m. - 10:30 a.m., Thursday, July 14

Room: *Parleys Canyon (HSEB 2110)*

The Cognitive Mind: Biology and the Extended Mind

William A. Rottschaefer, Extending the Extended Mind: The Phenomenon of WE-ness

Robert Rupert, Extended Cognition, Extended Selection, and Developmental Systems Theory

Elijah Millgram, Outsourcing the Mind: Extended Cognition and First-Person Authority

Organizer: *William A. Rottschaefer*

9 a.m. - 10:30 a.m., Thursday, July 14

Room: *Bell Canyon (HSEB 1730)*

Is Mechanistic Explanation Enough? The Scope and Limits of the 'New Mechanism'

Lenny Moss, Is a Biology of Mechanism, Biology Enough?

Justin Garson, The Limits of the 'New Mechanism': Purpose, Mechanism, and History in Biological Explanation

Carl F. Craver, Functions and Mechanisms: A Perspectivalist View

Stuart A. Newman, Commentary

Organizers: *Carl F. Craver and Justin Garson*

9 a.m. - 10:30 a.m., Thursday, July 14

Room: *Neffs Canyon (HSEB 1700)*

Cells in Search of Community I: Cell Communication and Signaling

Brian K. Hall, Cellular Condensation as a Key Process in Embryonic Development and Growth

Matthew Slater, Hi, I'm a fibroblast

Andrew S. Reynolds, Towards a History of the 'Sociological' Approach in Cell and Molecular Biology

Organizers: *Andrew Reynolds & Hannah Landecker*

9 a.m. - 10:30 a.m., Thursday, July 14

Room: *King's Peak (Medical School classroom A)*

Function Concepts and Adaptationism

Cristian Saborido, Systemic-Normative Functions: Organizational Closure and Contribution to the Self-Maintenance

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Stefan Linquist, Function Talk in Transposon Biology

Yasha Rohwer, What is the Environmental Complexity Thesis?

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11 a.m. - 12:30 p.m., Thursday, July 14

Room: *Lambs Canyon (HSEB 3515)*

Method to the Madness: Producing Order in Linnean Taxonomy, Evolutionary Paleontology, and Population Ecology

Bradley Wilson, From Laws to Models and Mechanisms: Ecology in the 20th Century

Miranda Paton, Henry Fairfield Osborn and the Origin of Theoretical Population Genetics

Martin Earl, Linnaeus Reconsidered

Fritz Davis, Chair

11 a.m. - 12:30 p.m., Thursday, July 14

Room: *Emigration Canyon (HSEB 2958)*

Legacy and Mechanism in Metaphysics

Richard Gawne, Rethinking the Legacy of J.H. Woodger and the History of Twentieth-Century Philosophy of Biology

Joshua Filler, Creeping Carnapian Conventionalism: Three Carnapian Challenges to Biological Metaphysics

Kari Theurer, Seventeenth-Century Mechanism: An Alternative Framework for Reductionism

11 a.m. - 12:30 p.m., Thursday, July 14

Room: *City Creek Canyon (HSEB 2948)*

Categories, Conventions, and Contingencies: Biological Kinds

Gal Kober, Contingency, Prediction, and Digital Organisms

Glenn Adelson, Species are Like Individuals; Species are Like Classes

Sara Weaver, Essentialism in Feminism and Philosophy of Biology

11 a.m. - 12:30 p.m., Thursday, July 14

Room: *Mill Creek Canyon (HSEB 2938)*

History, Philosophy and Social Studies of Biology: Issues and Contexts in Education

Ageliki Lefkaditou, The Nature of Science and Scientific Inquiry from an Ecological Perspective

Peter Taylor, 'This Course Provides a Structure for Me to Look into What Really Interests Me'

Maria Strecht Almeida, Thinking about the Life Sciences – Science, Scientific Training and Issues of Science and Society

Organizer: *Maria Strecht Almeida*

11 a.m. - 12:30 p.m., Thursday, July 14

Room: *Parleys Canyon (HSEB 2110)*

Biology as Public Culture

Jim Endersby, Mutant Utopias

Samantha Muka, Ida M. Mellen and the New York Aquarium

Audra J. Wolfe, The Public Biologist

Organizer: *Jim Endersby*

11 a.m. - 12:30 p.m., Thursday, July 14

Room: *Bell Canyon (HSEB 1730)*

Aspects of Sexual Selection

Roberta Millstein, Darwin's Explanation of Races by Means of Sexual Selection

Andrew Inkpen, Sexual Selection and the Status of Anthropomorphism

Michael Ghiselin, Aspects of the Theory of Sexual Selection

Organizer: *Chris Haufe*

11 a.m. - 12:30 p.m., Thursday, July 14

Room: *Neffs Canyon (HSEB 1700)*

Interpreting Cell Signals II: Cell Communication and Signaling

Scott Gilbert, Interpreting Signals During Development: Integrating the External and the Internal Milieux

Karl Matlin, The Signal Hypothesis and an Approach to Cell Biological Investigation

Hannah Landecker, Hormones and Metabolic Regulation, circa 1969

Organizers: *Andrew Reynolds & Hannah Landecker*

11 a.m. - 12:30 p.m., Thursday, July 14

Room: *King's Peak (Medical School classroom A)*

Biology and Prosocial Behavior

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Daniel McKaughan, Voles, Vasopressin, and Infidelity: A Molecular Basis for Monogamy?

Clifford Sosis, Heritability and Hedonism

Mariam Thalos, Altruism, Selfishness, and So Much In-Between

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2 p.m. - 4:00 p.m., Thursday, July 14

Room: Lambs Canyon (HSEB 3515)

Robustness and Representation

Vadim Keyser, The Measurement Problem of Turtle Mechanics

Nina Atanasova, Explanations, Models, and Simulations in Neuroscience

Spencer Hey, Lexicon of Invariance

James Justus, Inferential Robustness in Ecological Modeling

2 p.m. - 4:00 p.m., Thursday, July 14

Room: Emigration Canyon (HSEB 2958)

Directions for the Philosophy of Biology

Constantinos Mekios, A Revised Agenda for the Philosophy of Biology in the Era of a New Biological Holism

Carlos Mariscal, What Universal Biology Should Be

Marion Blute, The Reinvention of Grand Theories of Science/Scholarship

Dan Brooks, Neuroscience and Biology: Two Disciplines, One (Pluralistic) World

2 p.m. - 4:00 p.m., Thursday, July 14

Room: City Creek Canyon (HSEB 2948)

Contingent Upon: New Views of Biology as a Historical Science

David M. McCandlish, Contextual Distinguishability: A Tool for Understanding Biological History

Kriti Sharma, One Thing Changing?: Contingentism as an Alternative to Essentialism in Biological Accounts

Susan Oyama, Sustainable Development

Lauren W. McCall, Group Physiology or Group Selection?

Organizer: Lauren McCall

2 p.m. - 4:00 p.m., Thursday, July 14

Room: Mill Creek Canyon (HSEB 2938)

Natural Selection, Optimization and Organization

Johannes Martens, Direct Fitness vs. Inclusive Fitness: A Defense of Orthodoxy

Jean Gayon, Population Genetics, Economic Theory, and Eugenics in R. A. Fisher

Philippe Huneman, Adaptation, Optimization, and Evolutionary Transitions

Elias Khalil, Does Rationality Evolve? Charles Darwin Meets Amoeba economicus

Organizer: Johannes Martens

2 p.m. - 4:00 p.m., Thursday, July 14

Room: Parleys Canyon (HSEB 2110)

The Genomic Turn

Sarah S. Richardson, What is Postgenomics?

John Dupré, Genomes as Information vs. Genomes as Matter

Hallam Stevens, Dr. Sanger, Meet Mr. Moore: Next Generation Sequencing and its Consequences

Joan Fujimura, Confounded Categories

Michael Dietrich, Chair

Organizer: Sarah Richardson

2 p.m. - 4:00 p.m., Thursday, July 14

Room: Bell Canyon (HSEB 1730)

Talking About the Simian Tongue

Mark Borello

Paul Griffiths

Whitney E. Laemmler

Georgina Montgomery

Drew Rendall

Greg Radick

Vassiliki Betty Smocovitis, Commentary

Organizer: Vassiliki Betty Smocovitis

2 p.m. - 4:00 p.m., Thursday, July 14

Room: Neffs Canyon (HSEB 1700)

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Information and the Cell III: Cell Communication and Signaling

Barton Moffatt and C. Ken Waters, Signal, Function, and Pluralism

Beckett Sterner, Biological Information Helps Justify and Explain How Mechanisms Realize Functions

Christina Brandt, Cell Memory and Cell Signaling: Research on 'developmental programs' and 'reprogramming' Since the Late 1960s

Organizers: Andrew Reynolds & Hannah Landecker

Biohumanities Public Forum: Evolution, Gender, and Sexuality

Salt Lake City Downtown Library

Thursday, July 14, 2011, 7 p.m. – 9 p.m.