
Second Biennial

Future Directions in Biology Studies Graduate Training Workshop

*Indiana University, Bloomington
26-30 July 2006*

sponsored by the International Society for the History, Philosophy, and Social Studies of Biology (ISHPSSB)
with financial support from the Indiana University Office of the Vice President for Research and the National Science Foundation

Workshop Program

Wednesday, 26 July		
12 noon - 6:00 pm	Registration and Dorm Check-in	Willkie Hall (North)
6:30 - 8:30 pm	Opening Reception (light dinner and drinks)	Stone Age Institute

Thursday, 27 July

9:15 am - 9:50 am	Morning Coffee, Juice, and Pastries	Ballantine Hall 004
10 am - 12 noon	Plenary Session: Situated Knowledges <i>Jason Byron, chair</i> <ul style="list-style-type: none"> • Is all Biology of Human Behavior Evolutionary Psychology? (Steve Downes) • Transcending Situated Knowledges: Writing Technologies in Natural History and Anthropology (Staffan Mueller-Wille) • Truth-Spots (Tom Gieryn) 	Ballantine Hall 006
12 noon - 1:20 pm	Lunch Break	(on own)
1:30 - 3:00 pm	Roundtable Discussion: Gender <i>Lisa Onaga, chair</i> <ul style="list-style-type: none"> • Sarah Richardson, Erika Milam, Lisa Lloyd 	Ballantine Hall 006
3:00 - 3:20 pm	Coffee Break	Ballantine Hall 004
3:30 - 5 pm	Breakout Session 1: Biology, Society, and the Public Sphere <i>Kevin Amidon & Jutta Schickore, discussion leaders</i> <ul style="list-style-type: none"> • Philip J. Pauly, <i>Biologists and the Promise of American Life: From Meriwether Lewis to Alfred Kinsey</i> (Princeton: Princeton University Press, 2000), 194-201. • Lynn K. Nyhart & Thomas H. Broman (eds.), Science and Civil Society, <i>Osiris</i> 17 (2002): 1-21, 107-140, 141-170 [read any one of the three articles]. 	Ballantine Hall 205
3:30 - 5 pm	Breakout Session 2: New Approaches in Cancer Research <i>Laura Vandenberg & Silva Krause, discussion leaders</i> <ul style="list-style-type: none"> • Harry Rubin, What Keeps Cells in Tissues Behaving Normally in the Face of Myriad Mutations? <i>BioEssays</i> 28 (2006): 515-524. • Mina J. Bissell & Derek Radisky, Putting Tumours in Context, <i>Nature Reviews Cancer</i> 54 (2001): 46-54. 	Ballantine Hall 208
3:30 - 5 pm	Breakout Session 3: Niche Construction <i>Karola Stotz & William Timberlake, discussion leaders</i> <ul style="list-style-type: none"> • Meredith J. West & Andrew P. King, Settling Nature and Nurture into an Ontogenetic Niche, <i>Developmental Psychobiology</i> 20 (1987): 549-562. • Kevin N. Leland, John Odling-Smee & Marcus W. Feldman, Cultural Niche Construction and Human Evolution, <i>Journal of Evolutionary Biology</i> 14 (2001): 22-33. 	Ballantine Hall 209
5:30 - 7:30 pm	Happy Office Hours	Yogi's, Bear's, Crazy Horse

Friday, 28 July

9:15 am - 9:50 am	Morning Coffee, Juice, and Pastries	Ballantine Hall 004
10 am - 12 noon	Plenary Session: Genetics and Society <i>Lisa Lloyd, chair</i> <ul style="list-style-type: none"> • How the Need for Capital Movement Shaped the Development of 20th-Century Classical and Molecular Genetics (Gar Allen) • Is there a Problem with the Public Understanding of Genetics? (Paul Griffiths) • Genetics in Practice: The Significance of DNA Evidence in the Courtroom (Mike Lynch) 	Ballantine Hall 006
12 noon - 1:20 pm	Lunch Break	(on own)
1:30 - 3:00 pm	Roundtable Discussion: Navigating the Interdisciplines <i>Grant Goodrich, chair</i> <ul style="list-style-type: none"> • Jim Griesemer, Fred Tauber, Joe Cain 	Ballantine Hall 006
3:00 - 3:20 pm	Coffee Break	Ballantine Hall 004
3:30 - 5 pm	Breakout Session 1: Genetics and Disease <i>Peter Schwartz & Mark Tschaepe, discussion leaders</i> <ul style="list-style-type: none"> • Elisabeth Lloyd, Normality and Variation: The Human Genome Project and the Ideal Human Type, in David Hull & Michael Ruse (eds.), <i>The Philosophy of Biology</i> (Oxford Univ Press, 1998), 552-566. • David Magnus, The Concept of Genetic Disease, in Arthur Caplan, James McCartney & Dominic Sisti (eds.), <i>Health, Disease, and Illness</i> (Washington, D.C.: Georgetown University Press, 2004), 233-242. 	Ballantine Hall 205
3:30 - 5 pm	Breakout Session 2: Levels of Selection <i>Mike Wade & Jason Byron, discussion leaders</i> <ul style="list-style-type: none"> • Jerry A. Coyne, Nicholas H. Barton & Michael Turelli, Is Wright's Shifting Balance Process Important in Evolution? <i>Evolution</i> 54 (2000): 306-317. • Charles Goodnight & Michael Wade, The Ongoing Synthesis: A Reply, <i>Evolution</i> 54 (2000): 317-324. • Mark Borrello, Synthesis and Selection: Wynne Edwards's Challenge to David Lack, <i>Journal of the History of Biology</i> 36 (2003): 531-566. 	Ballantine Hall 208
3:30 - 5 pm	Breakout Session 3: R. A. Fisher and Statistical Reasoning in Biology <i>Nancy Hall, discussion leader</i> <ul style="list-style-type: none"> • Nancy S. Hall, The Skeptic and the Psychics: R. A. Fisher's Statistical Advice to the Society for Psychical Research, unpublished MS. • Nancy S. Hall, R. A. Fisher and His Advocacy of Randomization, unpublished MS. 	Ballantine Hall 209
5:30 - 7:30 pm	Happy Office Hours	Yogi's, Bear's, Crazy Horse

Saturday, 29 July

9:15 am - 9:50 am	Morning Coffee, Juice, and Pastries	Ballantine Hall 004
10 am - 12 noon	Plenary Session: Rethinking Interdisciplinarity <i>Sandy Gliboff, chair</i> <ul style="list-style-type: none"> • In the Service of Organismal Biology: Zoomorphism & the History of Sexual Selection (Erika Milam) • Interfield Theories and Interfield Work on Discovering Mechanisms (Lindley Darden) • Broadening Science Studies: Seeking a Moral Epistemology (Fred Tauber) 	Ballantine Hall 006
12 noon - 1:20 pm	Lunch Break	(on own)
1:30 - 3:00 pm	Roundtable Discussion: Jobs & Publishing <i>Matt Dunn, chair</i> <ul style="list-style-type: none"> • Mike Lynch, Gar Allen, Paul Griffiths 	Ballantine Hall 006
3:00 - 3:20 pm	Coffee Break	Ballantine Hall 004
3:30 - 5 pm	Breakout Session 1: Biological Determinism <i>Corinne Bloch & Gal Kober, discussion leaders</i> <ul style="list-style-type: none"> • Roberta L. Millstein, How Not to Argue for the Indeterminism of Evolution, in Andreas Hüttemann (ed.), <i>Determinism in Physics and Biology</i> (Paderborn: Mentis, 2003), 91-107. • Marcel Weber, Indeterminism in Neurobiology, <i>Philosophy of Science</i> (forthcoming). 	Ballantine Hall 205
3:30 - 5 pm	Breakout Session 2: Is Natural Selection a Mechanism? <i>Lindley Darden & Roberta Millstein, discussion leaders</i> <ul style="list-style-type: none"> • Peter Machamer, Lindley Darden & Carl Craver, Thinking about Mechanisms, <i>Philosophy of Science</i> 67 (2000): 1-25. • Robert A. Skipper & Roberta L. Millstein, Thinking About Evolutionary Mechanisms: Natural Selection, <i>Studies in History and Philosophy of Biological and Biomedical Sciences</i> 36 (2005): 327-347. 	Ballantine Hall 208
3:30 - 5 pm	Breakout Session 3: Invasion Biology <i>Brendon Larson & Lisa Onaga, discussion leaders</i> <ul style="list-style-type: none"> • Paul Robbins, Comparing Invasive Networks: Cultural and Political Biographies of Invasive Species, <i>Geographical Review</i> 94 (2004): 139-156. • Raphael Didham, Jason Tylianakis, Melissa Hutchison, Robert Ewers & Neil Gemmill, Are Invasive Species the Drivers of Ecological Change? <i>Trends in Ecology and Evolution</i> 20 (2005): 470-474. • Javier Lezaun, Pollution and the Use of Patents: A Reading of Monsanto v. Schmeiser, in Nico Stehr (ed.), <i>Biotechnology: Between Commerce and Civil Society</i> (London: Transaction, 2004), 135-158. 	Ballantine Hall 209
5:30 - 7:30 pm	Happy Office Hours	Bear's, Crazy Horse

Sunday, 30 July

9:15 am - 9:50 am	Morning Coffee, Juice, and Pastries	Ballantine Hall 004
10 am - 12 noon	<p>Plenary Session: Evolution <i>Paul Griffiths, chair</i></p> <ul style="list-style-type: none"> • The Gene in its Context: The Six Necessary State Spaces (Lisa Lloyd) • Philosophical Reflections on a Historical Case Study of Random Drift (Roberta Millstein) • You Must be Joking! Pranks in Scientific Disciplines (Joe Cain) • Navel Gazing and Problem Convergence: A Budget of Problems in Biology Studies (Jim Griesemer) 	Ballantine Hall 006

Workshop Participants

GAR ALLEN (allen@biology.wustl.edu) is Professor of Biology at Washington University, St. Louis, and President of ISHPSSB. He is also past Editor of the *Journal of the History of Biology*. He spoke at the Friday plenary session on *Genetics and Society* and at the Saturday roundtable discussion on *Jobs & Publishing*.

KEVIN AMIDON (ksamidon@iastate.edu) is Assistant Professor of German at Iowa State University. He was a discussion leader for the Thursday breakout session on *Biology, Society, and the Public Sphere*.

CORINNE BLOCH (corinnelbloch@gmail.com) is a Ph.D. student in neurobiology at the Hebrew University of Jerusalem and a Ph.D. student in philosophy at Tel Aviv University. She was a discussion leader for the Saturday breakout session on *Biological Determinism*.

JASON BYRON (jmb165@pitt.edu) is a Ph.D. student in history and philosophy of science at the University of Pittsburgh and the Student Representative of ISHPSSB. He co-organized the FDIBS workshop, chaired the Thursday plenary session on *Situated Knowledges*, and was a discussion leader for the Friday breakout session on *Levels of Selection*.

JOE CAIN (J.Cain@ucl.ac.uk) is Senior Lecturer in History and Philosophy of Biology at University College London and member of the ISHPSSB Council. He spoke at the Friday roundtable discussion on *Navigating the Interdisciplines* and at the Sunday plenary session on *Evolution*.

LINDLEY DARDEN (darden@umd.edu) is Professor of Philosophy at the University of Maryland. She spoke at the Saturday plenary session on *Rethinking Interdisciplinarity* and was a discussion leader for the Saturday breakout session on *Is Natural Selection a Mechanism?*

STEVE DOWNES (s.downes@utah.edu) is Professor of Philosophy at the University of Utah. He spoke at the Thursday plenary session on *Situated Knowledges*.

MATT DUNN (maddunn@indiana.edu) is a Ph.D. student in history and philosophy of science at Indiana University. He co-organized the FDIBS workshop and chaired the Saturday roundtable discussion on *Jobs & Publishing*.

TOM GIERYN (gieryn@indiana.edu) is Rudy Professor of Sociology at Indiana University. He spoke at the Thursday plenary session on *Situated Knowledges*.

SANDY GLIBOFF (sgliboff@indiana.edu) is Assistant Professor of History and Philosophy of Science at Indiana University. He chaired the Saturday plenary session on *Rethinking Interdisciplinarity*.

GRANT GOODRICH (gtgoodri@gmail.com) is a Ph.D. student in history and philosophy of science at Indiana University. He chaired the Friday roundtable discussion on *Navigating the Interdisciplines*.

JIM GRIESEMER (jrgrieseemer@ucdavis.edu) is Professor of Philosophy at the University of California, Davis, and President-Elect of ISHPSSB. He spoke at the Friday roundtable discussion on *Navigating the Interdisciplines* and at the Sunday plenary session on *Evolution*.

PAUL GRIFFITHS (paul.griffiths@uq.edu.au) is Australian Research Council Federation Fellow and Professor of Philosophy at the University of Queensland. He is also Associate Editor of *Biology & Philosophy*. He spoke at the Friday plenary session on *Genetics and Society* and at the Saturday roundtable discussion on *Jobs & Publishing*, and he chaired the Sunday plenary session on *Evolution*.

NANCY HALL (nhall@udel.edu) is Associate Professor of Mathematics at the University of Delaware, Georgetown. She was a discussion leader for the Friday breakout session on *R. A. Fisher and Statistical Reasoning in Biology*.

GAL KOBER (gal@bu.edu) is a Ph.D. student in Philosophy at Boston University. She was a discussion leader for the Saturday breakout session on *Biological Determinism*.

SILVA KRAUSE (silva.krause@tufts.edu) is a Ph.D. student in cell, molecular, and developmental biology at Tufts University. She was a discussion leader for the Thursday breakout session on *New Approaches to Cancer Research*.

BRENDON LARSON (blarson@ucdavis.edu) is Assistant Professor of Environment and Resource Studies at the University of Waterloo. He was a discussion leader for the Saturday breakout session on *Invasion Biology*.

LISA LLOYD (elloyd@indiana.edu) is Tanis Chair of Philosophy of Science and Professor of Biology at Indiana University. She spoke at the Thursday roundtable on *Gender*, chaired the Friday plenary session on *Genetics and Society*, and spoke the Sunday plenary session on *Evolution*.

MIKE LYNCH (mel27@cornell.edu) is Professor of Science and Technology Studies at Cornell University. He is also Editor of *Social Studies of Science*. He spoke at the Friday plenary session on *Genetics and Society* and at the Saturday roundtable discussion on *Jobs & Publishing*.

ERIKA MILAM (emilam@wisc.edu) is Assistant Professor of Biological Sciences at Clemson University. She spoke at the Thursday roundtable on *Gender* and at the Saturday plenary session on *Rethinking Interdisciplinarity*.

ROBERTA MILLSTEIN (rmillstein@csueastbay.edu) is Associate Professor of Philosophy at the University of California, Davis, and email moderator of the ISHPSSB listserv. She was a discussion leader for the Saturday breakout session on *Is Natural Selection a Mechanism?* and spoke at the Sunday plenary session on *Evolution*.

STAFFAN MUELLER-WILLE (S.E.W.Mueller-Wille@exeter.ac.uk) is a research fellow in the Centre for Genomics in Society at the University of Exeter, and he is Program Co-Chair of ISHPSSB. He spoke at the Thursday plenary session on *Situated Knowledges*.

LISA ONAGA (lao9@cornell.edu) is a Ph.D. student in science and technology studies at Cornell University. She served on the FDIBS planning committee, chaired the Thursday roundtable on *Gender*, and was a discussion leader for the Saturday breakout session on *Invasion Biology*.

SARAH RICHARDSON (ssr21@stanford.edu) is a Ph.D. student in modern thought and literature at Stanford University. She spoke at the Thursday roundtable on *Gender*.

JUTTA SCHICKORE (jschicko@indiana.edu) is Assistant Professor of History and Philosophy of Science at Indiana University. She was a discussion leader for the Thursday breakout session on *Biology, Society, and the Public Sphere*.

PETER SCHWARTZ (phschwar@iupui.edu) is Assistant Professor of Medicine and Core Faculty in the Center for Bioethics at the Indiana University Medical Center. He was a discussion leader for the Friday breakout session on *Genetics and Disease*.

KAROLA STOTZ (kstotz@indiana.edu) is a postdoctoral fellow in the Cognitive Science Program at Indiana University. She was a discussion leader for the Thursday breakout session on *Niche Construction*.

FRED TAUBER (ait@bu.edu) is Kohn Professor of Medicine, Professor of Philosophy, and Director of the Center for Philosophy and History of Science at Boston University. He spoke at the Friday roundtable discussion on *Navigating the Interdisciplines* and at the Saturday plenary session on *Rethinking Interdisciplinarity*.

WILLIAM TIMBERLAKE (timberla@indiana.edu) is Professor of Psychology at Indiana University. He was a discussion leader for the Thursday breakout session on *Niche Construction*.

MARK TSCHAEPE (tschaepe@siu.edu) is a Ph.D. student in Philosophy at Southern Illinois University, Carbondale. He was a discussion leader for the Friday breakout session on *Genetics and Disease*.

LAURA VANDENBERG (laura.vandenberg@tufts.edu) is a Ph.D. student in cell, molecular, and developmental biology at Tufts University. She was a discussion leader for the Thursday breakout session on *New Approaches to Cancer Research*.

MIKE WADE (mjwade@indiana.edu) is Professor of Biology at Indiana University. He was a discussion leader for the Friday breakout session on *Levels of Selection*.