

International Society for the Psychology of Science and Technology
2010 Conference Scientific Program



**3rd Biennial ISPST Conference
Berkeley CA, August 6-7, 2010**

**SPECIAL GUEST:
Harry Collins**

**Keynote Addresses by:
Alison Gopnik, David Klahr, & Steve Fuller**

Conference Chairs:
~Greg Feist
~Sofia Liberman
~Michael Gorman
~Jordan Lippman

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August 6: Friday	Presenter	Title
8:45	Gregory Feist	Welcome and Opening Remarks
9:00-9:45: Keynote	David Klahr	Meandering in the Experiment Space: Assessing and Remediating Middle School Children's Misconceptions about Experimental Design
9:45-10:05	Neelam Kumar	Gender, Science, & Psychology
10:05-10:25	Christine Charyton	Female Nobel Laureates in Science
10:25-10:40	Anna Dorothea Schulze	Conflict Management and Innovation Performance
10:40-11:00	break	
11:00-11:20	Barbara Koslowski	Conceptual vs. Technical Aspects of Scientific Reasoning
11:20-11:40	Amy Masnick & Corinne Zimmerman	Evaluating Scientific Research: The Robust Effects of Prior Belief
11:40-12:00	Corinne Zimmerman, Kevin Devine, & R.J. Linton	The "Draw a Robot Task" (DART): A New Tool for Assessing Students' Conceptions of Robotics
12:00-1:30	lunch	

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August 6: Friday	Presenter	Title
1:30-2:15: Keynote	Steve Fuller	Berkeley: Mecca and Microcosm of the Psychology of Science
2:15-2:35	John Clement	Roles for Mental Imagistic Simulation in Scientific Model Construction
2:35-2:55	Ralph Barnes, Chelsea Taglang, Stephanie Tobin, & Heather Johnston	Reactions to Scientific Claims Reveal Scientific Reasoning Shortcomings in College Educated Adults
2:55-3:15	break	
3:15-3:35	Steve Croker	The Relationship Between Magical Beliefs and Critical thinking
3:35-3:55	Gary Bradshaw	Edison's Bright Idea
4:00-4:20	Ullica Segerstrale	Some Scientific Strategies of W.D. (Bill) Hamilton
4:20-4:40	Sofia Liberman & K. Bernado Wolf	Bonding Number: An Indicator of Intensity of Face-to-Face Interaction in Scientific Groups: A Longitudinal Study
4:40-5:00 Gooding Prize winner	Jordan Lippman	Impact of Additional Information about Evaluation Criteria on Novices' Decisions about the Evidentiary Connection of Studies to Theories

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Friday, August 6 5-6:30 pm POSTER SESSION	
Poster Authors	Title
Ralph Barnes, Daniel Drebing, & Rebecca Church	Science vs. Pseudo-science: The Use of Persuasive Messages in the Evolution/Creationism Debate
W. Christopher Boyd, Richard Boyd, & Barbara Koslowski	Chemistry Meets Philosophy, Meets Psychology of Science: In Praise of Hunches
Sarah Greene	Scientific Talent: A Preliminary Look at the Role of Creativity and Personality
Maya Grosul & Gregory Feist	In Search of the Creative Scientific Personality
Andrew Jefferson & Barbara Koslowski	How Consistency Affects Plausibility of Explanations in College Students
Till Martin Kastendieck & Anna Dorothea Schulze	Conflict Emergence and Conflict Management in Developing Innovations - A Cross-cultural study in the field of Life Sciences in Germany and India
Chad Kempel & Gregory J. Feist	The Personality and Mental Health of Physical and Social Scientists
Michelle Murphy, Gregory J. Feist, Chad Kempel & Neelam Kumar	A Cross-Cultural Analysis of the Relationship between Personality and Mental Health in Persons who are Interested in Physical Science
Javier Zavala Rayas	Locus of Control in Scientists at the Universidad Automoma de Zacatecas
Deepika Rastogi & Gregory J. Feist	Do Perceived Barriers Vary by Stage in Career?
Lara Triona	Family Science Nights: Voices of Parents and Analysis of Families Participation
Keisha Varma	Comparing Student Learning in Virtual and Hands-On Experimentation Activities
Andrew G. Young, Martha W. Alibali, & Charles W. Kalish	Causal Learning in Joint Activity: Comparing Collaborative, Active, and Passive Contexts

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August 7: Saturday	Presenter	Title
8:30-9:00: Special Guest	Harry Collins	The Third Wave of Science Studies: The State of Play
9:00-9:45: Keynote	Alison Gopnik	The Scientist as Child Revisited: Causal Models and Bayesian Reasoning in Science and Early Childhood Cognition
9:45-10:05	Dean Simonton	Creativity and Discovery as Blind Variation and Selective Retention: Multiple-Variant Definitions and Blind-Sighted Integration
10:05-10:25	Juan Angel Jimenez, Manuela Romo-Santos, María-José Sánchez- Ruiz	Metaphorical Thinking as an Indicator of Creativity in Scientific Discourse in Psychology
10:25-10:40	Leif Denti & Sven Hemlin	Leadership and Innovation in Organizations: A Literature Review and Relationship Model
10:40-11:00	break	
11:00-11:20	Ryan Tweney	Frameworks and Theories for the Cognitive Understanding of Mathematical Physics
11:20-12:00	<i>Round Table Discussion</i>	<i>The Future of the Psychology of Science</i>
12-1:30	lunch	

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August 7: Saturday	Presenter	Title
1:30-1:55: Presidential Address	Gregory Feist	Mental Health, Personality and Scientific Creativity
1:55-2:15	Chris Schunn & Yu Wang	What Makes Engineering Teams Succeed? Better Consideration of Options
2:15-2:35	Gregory Webster	Scientists Who Cite More Are Cited More: Evidence from over 50,000 Science Articles
2:35-2:55	Michel Fuksa	Automated Science and Human Science
2:55-3:10	break	
3:15-3:35	Manuela Romo-Santos	Creativity and Aesthetics in Science
3:35-3:55	Mark Fedyk	How Not to Bring Biology, Psychology, and Morality Together
4:00-4:20	Melissa Orozco, Rubén Martínez, Lorena García, Alejandra González	Collaborative Learning in Neuroscience Labs. A Study on the Preferences of Learning Strategies of Mexican Scientists
4:20-4:40	Michael Gorman	Psychology of Science Meets Studies of Experience and Expertise (SEE)