

ISHPSSB2013 – Traditional Session Form

Please fill in this form, rename it (on the following model: Name of the organizer_Title of session), and submit it as a PDF file at the Third step ("Files") of the submission process (please select "Presentation" as the "Type of the file").

Title of the session (mandatory): Simulation vs. Experiment in Evolutionary Biology

Organizer of the session (may but need not be a participant in the session) (mandatory): Emily Parke

Names of all the participants in the session (mandatory): Kathleen Sprouffske, Emily Parke, Paul Sniegowski (commentator), Kyle Stanford (commentator)

Name of Chairperson (mandatory) (cannot be one of the participants): Brett Calcott

Names of respondents or commentators (if any): Paul Sniegowski, Kyle Stanford

Theme of your session (please pick one theme in the list below) (mandatory): Evolutionary Biology: The Recent Challenges

List of themes:

- Anthropology
- Cellular and Molecular Biology: Historical and Philosophical Approaches
- Development and Evo-devo
- Ethical and bioethical issues
- Evolutionary Biology: Origin, and early developments
- Evolutionary Biology: The Modern Synthesis
- Evolutionary Biology: The recent challenges
- Evolutionary Biology: Theoretical and conceptual issues (e.g. definition of Darwinian processes, levels of selection, etc.)
- Evolutionary Biology: Cooperation, altruism, evolution and economy
- Evolutionary Psychology
- Functions and Mechanisms
- Gender Studies
- Historical, philosophical and sociological perspectives on:
 - Ecology
 - Epigenetics
 - Origins of life, minimal life
 - History of Genetics
 - Neurosciences and cognitive sciences: scientific, social, and philosophical issues
- The "organism" problem
- Public Health issues, and their social dimensions
- Reductionism, antireductionism, emergence
- The "species" problem
- Systematics and classification
- Systems Biology, Synthetic Biology and Genomics
- Teaching Biology

- Others