

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): Issues in Biological Modeling--Mechanisms, Simulations and Target Systems

Organizer of the session (may but need not be a participant in the session) (mandatory): Shawn A. Miller

Names of all the participants in the session (mandatory): Bert Baumgaertner, Alkistis Elliott-Graves, Shawn A. Miller

Name of Chairperson (mandatory) (cannot be one of the participants): Michael Hunter

Names of respondents or commentators (if any):

Theme of your session (please pick one theme in the list below) (mandatory): Others (Modeling in Biology)

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