

# **Philosophical and theoretical works about organization in biology and biological and ecological functions**

## **Program**

March 12, 2024

08:00-08:30 – Opening – The JTF project in the context of the History, Philosophy and Biology Teaching Lab and the National Institute of Science and Technology in Interdisciplinary and Transdisciplinary Studies in Ecology and Evolution - Charbel N. El-Hani (Universidade Federal da Bahia, Brazil)

08:30-10:00

Conference 1 – Organizing Interdisciplinary Research on Purpose: Reflections on Agency, Directionality, and Function - Alan Love (University of Minnesota, U.S.)

10:00-10:30 – Interval

10:30-12:00

Conference 2 – Using organization to do science: guidelines and challenges - Matteo Mossio (Institut d'Histoire et de Philosophie des Sciences et des Techniques, IHPST, France) (remote)

12:00-14:00 – Almoço

14:00-15:30

Conference 3 – Articulating and applying the organizational theory of ecological functions - Charbel N. El-Hani (Universidade Federal da Bahia, Brazil)

15:30-17:00

Conference 4 – Putting geofunctions to work: organization and design in the Earth system - Gillian Barker (University of Pittsburgh, U.S.)

17:00-17:30 – Interval

17:30-19:00

Conference 5 - Ecological functions: The persistence versus the organizational accounts - Antoine Dussault (Collège Lionel-Groulx, Centre Interuniversitaire de recherche sur la science et la technologie/CIRST and Centre de recherche en éthique/CRÉ, Canada)

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08:00-09:30

Conference 6 – Environmental disruption of organogenesis in the context of the theory of organisms - Ana Soto (Tufts University, U.S.)

09:30-11:00

Conference 7 - Disruption of ecosystems and the vulnerability of biological organizations - Maël Montévil (École Normale Supérieure de Paris, France)

11:00-11:30 – Interval

11:30-12:30

Communication 1 – Regulation in biological systems: an organizational approach - Ítalo Carvalho, Jeferson Coutinho e Clarissa Leite (Universidade Federal da Bahia, Brazil)

12:30-14:00 – Almoço

14:00-15:30

Conference 8 – Mathematical modelling of ecosystem dynamics with closure of constraints - Paulo Inácio Prado (Universidade de São Paulo, Brazil) and Carlos Pietro Rebouças (Universidade Federal da Bahia, Brazil)

15:30-17:00

Conference 9 – Syntrophic and Ecological Individuality - Individuals out of Interactions - Derek Skillings (University of North Carolina/Greensboro, U.S.)

17:00-17:30 – Interval

17:30-19:00

Conference 10 – Minding ecology: Social and collective behaviour - Hilton F. Japyassu (Universidade Federal da Bahia, Brazil)

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08:00-09:30

Conference 11 – Aesthetic value as a justification for biodiversity conservation - Stefan Linquist (University of Guelph, Canada)

09:30-11:00

Conference 12 - Can ecological functions promote intercultural dialogues? Experiences with the Mebengokré in the Amazon - Paride Bollettin (Masarykova Univerzita, Czech Republic)

11:00-11:30 – Interval

11:30-12:30

Communication 2 – An ecosystem medicine? Georges Canguilhem and contemporary ecology - Emiliano Sfara (Université de Tours, France, e Universidade Federal da Bahia, Brazil)

12:30-14:00 – Almoço

14:00-15:30

Conference 13 – Syntropic farming and the organizational approach of ecological systems – Nei F. Nunes-Neto (Universidade Federal da Grande Dourados, Brazil)

15:30-16:30

Communication 3 – Ethical implications of the organizational theory of ecological functions - Juliomar Marques Silva (Universidade Federal da Grande Dourados, Brazil)

16:30-17:00 – Interval

17:00-18:00

Communication 4 – Choosing effect and response traits based on the organizational theory of functions - Jeferson Coutinho (Instituto Federal de Educação, Ciência e Tecnologia da Bahia e Universidade Federal da Bahia, Brazil)

18:00-19:00

Communication 5 – Communication 6 – The theory of biological autonomy and the conceptual discontinuity between systems and lineages - A first approach - Ítalo Carvalho e Ruãñ Batista (Universidade Federal da Bahia, Brazil)

March 15, 2024

09:30-11:30 – Brainstorming and planning for future collaborations

11:30-12:00 – Closing