

Emergence and Non-Fundamentalist Metaphysics

Lisbon, 14-16 May 2012

CFCUL

Faculty of Sciences of the University of Lisbon

Time limit of 30 minutes to all communications followed by 15 minutes of discussion

Monday, May 14th

14.30 Opening Session: Olga Pombo and Rui N. Moreira

15.00 John F. Symons, *Completely Physical? Emergence and Hume's Dictum*

15.45 Francisco Carrapiço, *Beyond Neo-Darwinism. Building Symbiogenic Theory Of Evolution*

16.30 *Coffee Break*

17.00 Public presentation of the book *Special Sciences and the Unity of Science*, Olga Pombo, Juan Manuel Torres, John Symons and Shahid Rahman (Eds.), Springer, 2012.

Tuesday, May 15th

10.00 Rui N. Moreira, *In what conditions can we consider a new Physical Theory as a Strong Emergence?*

10.45 Erez Firt, *Problems for Emergentism: The downward causation argument – a problematic problem*

11.30 *Coffee Break*

11.45 Gil C. Santos, *An Ontology of Transformative Relations for Emergence Theory*

12.30 - 15.00 *Lunch*

15.00 Francisco Louçã, *Economics, physics and meta-physics*

15.45 Gildo Magalhães, *Continuity vs. emergence, a break up? A look beyond physics and behind economics*

16.30 *Coffee Break*

16.45 Peter Andrew Corning, *The Synergism Hypothesis: A Theory of Emergent Complexity in Evolution*

Wednesday, May 16th

10.00 José R. Croca, *Emergence, De-Emergence. A concrete physical example*

10.45 João L. Cordovil, *Why are there no examples of ontological emergence from Physics?*

11.30 *Coffee Break*

11.45 Nathalie Gontier, *Biological realities: how evolutionary epistemology can inform us on ontology*

12.30 - 15.00 *Lunch*

15.00 José Castro Caldas, *Evolution at the service of mechanics: an episode in the history of economics*

15.45 Jonathan Tennenbaum, *Creativity in Nature and Creativity in Man*

16.30 *Coffee Break*

16.45 Mark Bickhard, *The Metaphysics of Emergence*

17.30 *Closing*

20.00 *Conference Dinner at 'Fábrica Braço de Prata'.*

Invited Speakers

Mark Bickhard (Philosophy, Director of the Institute for Interactivist Studies, Henry R. Luce Professor of Cognitive Robotics and the Philosophy of Knowledge)

José Castro Caldas (Economy, Researcher at CES)

Francisco Carrapiço (Biology, University of Lisbon)

João L. Cordovil (Philosophy of Physics, CFCUL)

Peter Andrew Corning (Biology, Director of the ‘Institute for the Study of Complex Systems’)

José R. Croca (Physics, CFCUL, University of Lisbon)

Erez Firt (Software Engineer; Tel Aviv University)

Nathalie Gontier (Philosophy of Science, Dutch Free University of Brussels)

Francisco Louçã (Economy, ISEG; Head of the ‘Research Unit on Complexity and Economics’)

Gildo Magalhães (History of Sciences, University of São Paulo, Brazil)

Rui N. Moreira (Physics, History and Philosophy of Sciences; CFCUL, University of Lisbon)

Gil C. Santos (Philosophy, CFCUL)

John F. Symons (Philosophy, University of Texas at El Paso)

Jonathan Tennenbaum (Physics, *Quantix* – ‘Société de Recherche et Développement en Technique Vibratoire’)