

## Science & Energy 2018 – Afternoon sessions – List of February 23<sup>rd</sup>, 2018

*Total duration of a talk, incl. questions, is 30 minutes, except when otherwise mentioned.*

### **Monday March 5<sup>th</sup>:**

#### **Oral presentations :**

- Gaël Callonnec: “ThreeME modelization” 40 min.
- Jürgen Mimkes: “Economics and energy” 40 min.
- Quentin Couix: “The role of natural resources in production: Georgescu-Roegen/Daly versus Solow/Stiglitz”
- Joao Santos: “Useful exergy as key in obtaining aggregate production functions and recognizing the role of energy in economic growth - Portugal 1960-2009”

### **Tuesday March 6<sup>th</sup>:**

#### **Oral presentations:**

- Frédéric Wertz: “Demand Side Management valuation”
- Antoine Boubault: “Interactions and "frictions" between raw materials and energy systems models”
- Robert Ayres: “Asteroid Mining and Metals Conservation”
- Grégoire Chambaz: “The collapse risk from an energy perspective: an introduction to the works of Joseph Tainter”

#### **Poster session:**

- Sébastien Balibar: “On carbon taxes”
- Michel Bardet: “Energy transitions and science management transitions”
- Antoine Monserand: “A macroeconomic stability analysis of a degrowth trajectory”
- Gregor Semieniuk: “Empirical foundations for models relating energy demand to economic growth”
- Michel Lepetit: “IEA Scenarios and transition risks, gdp/oil coupling and relevant issues”
- Joao Santos: “National accounts with an extended energy sector”
- Susan Krumdieck: “Transition scenarios”
- Vincent Bourdin et al.: “Feedback of a one year small electric car use in the Paris suburb”
- Pierre-Olivier Lemire, Benoît Delcroix: “Analysis of bioenergy projects”
- Nadia Maïzi, Vincent Mazauric: “From centralized to decentralized power systems : the shift on finitude constraints”
- Renaud Cornut, Bruno Jusselme: “New materials and Electrochemical Analysis for Fuel Cell Electrical Vehicles without Platinum”
- Andrew Jarvis: “Accretaxis, from *accretion* /ə'kri:ʃ(ə)n/ [growth or increase by gradual accumulation] and *taxis* /taksis/ [a motion or orientation of a cell, organism, or part in response to an external stimulus]”
- Didier Paillard, Vincent Labarre: “Maximum entropy production and climate modeling”
- Daniel Suchet: *t.b.d.*

### **Wednesday March 7<sup>th</sup>:**

#### **Oral presentations:**

*Total duration of a talk, incl. questions, is 25 minutes*

- Carey King: “Systems Dynamics Approach to Macroeconomic Modeling of Energy Transitions (Accounting for Money and Energy)”
- Stefan Wieland et al.: “Predicting and preventing harmful input fluctuations in transmission grids”
- Gregor Semieniuk: “ Financing renewable energy: Who is financing what and why it matters”
- Gregor Erbach: “Energy and the circular economy”
- Carina Faber: “A Circular CO2 Economy through Solar Power”
- Eric Vidalenc: “The Third Industrial Revolution in Hauts de France, as a way to enhance energy transition at the local scale”
- Gaël Giraud: *t.b.d.*