Facts in Environmental and Energy Economics
Models & Practices, Past & Present

International workshop
Friday 19 & Saturday 20, October 2018

Contact for registration (free) & program: workshopcired2018@gmail.com

CIRED, Campus du jardin d’agronomie tropicale, Nogent-sur-Marne, France
## FINAL PROGRAM (6.3)

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FRIDAY 19 OCT. 2018

8:45-9:15 | Registration of the participants

9:15-9:30 | Opening session
Franck Lecocq (director of CIRED), Antoine Missemer (CNRS-CIRED, France), Marion Gaspard (Triangle-Lyon 2, France)

9:30-11:00 | Session #1: History of growth and energy economics
(chair: Aurélie Méjean, CNRS-CIRED, France)
Wout Saelens (Univ. of Antwerp, Belgium)
“Adding a Consumer Perspective to the History and Economics of Energy”
[discussant: Roberto Ferreira da Cunha, IHS CERA, Brazil]

Antoine Missemer (CNRS-CIRED, France) & Franck Nadaud (CNRS-CIRED, France)
“The Linkage between Energy and Economic Output: A Return to Tryon’s 1927 Early Contribution”
[discussant: Quentin Couix, Univ. Paris 1, France]

Christopher Jones (Arizona State Univ., USA)
“Energy Facts in Growth Accounting Models”
[discussant: Guido Erreygers, Univ. of Antwerp, Belgium]

11:00-11:30 | Coffee break

11:30-13:00 | Session #2: Externalities
(chair: Harro Maas, University of Lausanne, Switzerland)
Nathalie Berta (REGARDS-Univ. of Reims CA, France)
“Environmental Economics and the Least Cost Theorems in the Late 1960s. A Third Way between Idealized Pareto Optimality and Tradition Regulation”
[discussant: Antonin Pottier, EHESS-CIRED, France]

Rebecca Livernois (Univ. of British Columbia, Canada)
“Epistemic Ascriptions and the Actualization of Externalities”
[discussant: Nathalie Berta, REGARDS-Univ. of Reims CA, France]
Vincent Viguié (ENPC-CIRED, France)
“Urban Forms and GHG Emissions”
[discussant: Thomas Beaussier, INRA, France]

13:00-14:00 | Lunch

14:00-15:30 | Session #3: Hotelling
(chair: Nathaniel Wolloch, Independent Scholar, Haifa, Israel)

Antonin Pottier (EHESS-CIRED, France)
“How Economics Become Self-Referential? The Case of the Hotelling’s Argument”
[discussant: Christopher Jones, Arizona State Univ., USA]

Roberto Ferreira da Cunha (IHS CERA, Brazil) & Antoine Missemer (CNRS-CIRED, France)
“Hotelling and the Peak Oil: A Reassessment”
[discussant: Marion Gaspard, Triangle-Lyon 2, France]

Marco P. V. Franco (UFMG, Brazil), Marion Gaspard (Triangle-Lyon 2, France) & Thomas M. Mueller (LED-Paris 8, France)
“Time Discounting in Harold Hotelling’s Approach to Natural Resource Economics: The Unsolved Ethical Question”
[discussant: Wout Saelens, Univ. of Antwerp, Belgium]

15:30-16:00 | Coffee break

16:00-17:30 | Session #4: Production and natural capital
(chair: Léa Tardieu, CIRED, France)

Christian Bidard (EconomiX P.-Nanterre, France) & Guido Erreygers (Univ. of Antwerp, Belgium)
“Exhaustible Resources and Classical Theory”
[discussant: Marco P. V. Franco, UFMG, Brazil]

Quentin Couix (Univ. Paris 1, France)
“The Flow-Fund Model of Production in Retrospect”
[discussant: Thomas M. Müller, LED-Paris 8, France]

C. Tyler DesRoches (Arizona State Univ., USA)
“Specifying Critical Natural Capital with Equations and Graphs”
[discussant: Améline Vallet, AgroParisTech-ESE, France]
17:30-17:45 | Short break

17:45-18:45 | Keynote lecture
(chair: Marion Gaspard, Triangle-Lyon 2, France)

Arthur Petersen (UCL, UK)
“Integrated Assessment: A Case Study on the GISMO Model of the PBL Netherlands Environmental Assessment Agency”

20:00-late | Social dinner (optional)

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SUNDAY 20 OCT. 2018

9:15-10:45 | Session #5: Models and reality
(chair: Améline Vallet, AgroParisTech-ESE, France)

Emmanuel Combet (ADEME, France), Frédéric Ghersi (CNRS-CIRED, France), Julien Lefèvre (AgroParisTech-CIRED, France) & Gaëlle Le Treut (CIRED, France)
“Hybridation to Bridge the Gap between Bottom-Up and Top-Down Energy-Economy-Environment Modelling”
[discussant: Arnaud Diemer, Univ. Clermont-Auvergne, France]

Romain Svartzman (McGill Univ., Canada)
“Financial and Socio-Ecological Instabilities – Towards a Comprehensive Analytical Framework”
[discussant: Louis-Gaëtan Giraudet, ENPC-CIRED, France]

David Glotin (CIRED, France), Cyril Bourgeois (CIRED, France), Louis-Gaëtan Giraudet (ENPC-CIRED, France) & Philippe Quirion (CNRS-CIRED, France)
“Prediction is Difficult, even if it’s about the Past: Backtesting Res-IRF, an Integrated Energy-Economy Model”
[discussant: Vincent Viguié, ENPC-CIRED, France]

10:45-11:10 | Coffee break

11:10-12:35 | Roundtable – sponsored by the ‘Modeling for Sustainable Development Chair’
(chair: Céline Guivarch, ENPC-CIRED, France)

Roger Guesnerie (Collège de France-PSE, France), Kirsten Halsnæs (Technical Univ. of Denmark, Denmark) & Jean-Charles Hourcade (CNRS-CIRED, France)
“Energy Economics, Climate Economics and the Consideration of Facts”

12:35-13:45 | Lunch

1 http://www.modelisation-prospective.org/en
13:45-14:45 | Session #6: Integrated assessment models
(chair: Meriem Hamdi-Cherif, CIRED, France)

Arnaud Diemer (Univ. Clermont-Auvergne-CERDI, France), Florian Dierickx (Univ. Clermont-Auvergne-CERDI, France), Ganna Gladkykh (Univ. Clermont-Auvergne-CERDI, France), Abdourakhmane Ndiaye (Univ. Clermont-Auvergne-CERDI, France) & Nathalie Spittler (Univ. Clermont-Auvergne-CERDI, France)

[discussant: Frédéric Ghersi, CNRS-CIRED, France]

Thomas Beaussier (INRA, France)

[discussant: Julien Lefèvre, AgroParisTech-CIRED, France]

14:45-15:00 | Closing words

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Scientific committee:
Fredrik Albritton Jonsson (University of Chicago, USA)
Nathalie Berta (University of Reims CA, REGARDS, France)
Roberto Ferreira da Cunha (IHS CERA, Brazil)
Marion Gaspard (Triangle-Lyon 2, France)
Louis-Gaëtan Giraudet (ENPC-CIRED Paris, France)
Frédéric Ghersi (CNRS-CIRED Paris, France)
Céline Guivarch (ENPC-CIRED Paris, France)
Jean-Charles Hourcade (CNRS-CIRED Paris, France)
Harro Maas (University of Lausanne, CWP, Switzerland)
Antoine Missemer (CNRS-CIRED Paris, France)
Thomas M. Mueller (LED-Paris 8, France)
Franck Nadaud (CNRS-CIRED Paris, France)
Antonin Pottier (EHESS-CIRED Paris, France)
Nathaniel Wolloch (Independent Scholar, Israel)

Organizing committee:
Estelle Carciofi (CIRED Paris)
Marion Gaspard (Triangle-Lyon 2)
Antoine Missemer (CNRS-CIRED Paris)
Yaël Serfaty (CIRED Paris)