

Fourth Workshop on Game Theory in Energy, Resources and Environment

HEC Montréal, November 29-30, 2012

Thursday, November 29

8:00 – 8:55 **Registration**

8:55 – 9:00 **Welcome address**

9:00 – 10:00 **Invited talk 1, Chair: Georges Zaccour**

Towards a Self-Enforcing Climate-Change Treaty

Roy Radner, New York University (USA)

10:00 – 10:30 **Break**

10:30 - 12:10 **Session 1, Chair: Lucia Sbragia**

Perfectly Coalition-Proof Overlapping Environmental Agreements

Emilson Silva, University of Alberta (Canada), **Xie Zhu**, Oregon University (USA)

International Cooperation on Climate Change and Innovation: R&D Spillovers, Absorptive Capacity and Abatement Policy

Mélanie Heugues, FEEM (Italy)

The Road of Eco-Design Strategies for End of Life Aircrafts: An Evolutionary Game Theory Approach

Daoud Aït-Kadi, **Samira Keivanpour**, **Christian Mascle**, Université Laval (Canada)

Dynamic International Environmental Agreements with Asymmetric Countries

Michèle Breton, HEC Montréal (Canada), **Lucia Sbragia**, Durham University (UK)

12:10 – 13:30 **Lunch**

13:30 – 14:45 **Session 2, Chair: Yuri Yatsenko**

Open Access to the Treatment Efficacy within an Antibiotic Class Subject to Bacterial Resistance

Markus Herrmann, Bruno Nkuiya, Université Laval (Canada)

Effect of Competition in Load Shifting Incentives in Electricity Retail Markets

Sertac Oruc, TU Delft (Netherlands)

Landlord–Tenant Holdup Problem and Sustainable Farm-Specific Investment

Renan-Ulrich Goetz, Universitat de Girona (Spain), **Natali Hritonenko**, Prairie View A&M University (USA), **Angels Xabadia**, Universitat de Girona (Spain), **Yuri Yatsenko**, Houston Baptist University (USA),

14:45 – 15:00 **break**

15:00 – 16:15 **Session 3, Chair: Fabio Lamantia**

Incentives and Effects of No-Lose Targets for Including Non-Annex I Countries in Global Emissions Reductions

Vicki Duscha, Fraunhofer Institute for Systems and Innovation Research (Germany), **Karl-Martin Ehrhart**, Karlsruhe Institute of Technology (Germany)

A Great Fish War Model with Asymmetric Players

Michèle Breton, Michel-Yevenunye Keoula, HEC Montréal (Canada)

Sliding and Oscillations in Fisheries with on-off Harvesting and Different Switching Times

Gian Ital Bischi, University of Urbino (Italy), **Fabio Lamantia**, University of Calabria (Italy), **Fabio Tramontana**, University of Pavia (Italy)

16:15 – 16:30 **break**

16:30 – 17:30 **Invited talk 2, Chair: Florian Wagener**

Optimal Control and Games in Selected Models of Environmental Economics

Natali Hritonenko, Prairie View A&M University (USA)

19:30 **Dinner**

Friday, November 30

9:00 – 10:00 **Invited talk 3, Chair: Michèle Breton**

Valuing Time and Risk in the Economics of Climate Change

Richard Howarth, Dartmouth College (USA)

10:00 – 10:30 **Break**

10:30 - 12:10 **Session 4, Chair: Felix Munoz-Garcia**

Numerical Methods to Analyse Feedback Nash Equilibria in the Lake Pollution Game

Florian Wagener, Universiteit van Amsterdam (Netherlands)

Carbon Tariffs and Cooperative Outcomes

Terry Eyland, **Georges Zaccour**, HEC Montréal (Canada)

Strategic interaction between drinking water providers

Alessandra Buratto, **Chiara D'Alpaos**, **Luca Grosset**, University of Padua (Italy)

The Entry-Deterring Effects of Inflexible Regulation

Jude Bayham, **Ana Espinola-Arredondo**, **Felix Munoz-Garcia**, Washington State University (USA)

12:10 – 13:30 **Lunch**

13:30 – 14:45 **Session 5, Chair: Lucia Pusillo**

A Spatial Equilibrium Problem: Impact of Environmental Regulations on the Steel Industry

Elisabetta Allevi, **Francesca Bonenti**, **Rossana Riccardi**, University of Brescia (Italy), **Claudia Avanzi**, **Adriana Gnudi**, University of Bergamo (Italy)

Transboundary movement of waste: second-hand markets and illegal shipments

Sophie Bernard, École Polytechnique de Montréal (Canada)

Games with Interval Uncertainty and Applications to Environmental Problems

Lucia Pusillo, University of Genoa (Italy)

14:45 – 15:00 **break**

15:00 – 16:15 **Session 6, Chair: Ana Espinola-Arredondo**

Credibility in Closed-loop Supply Chain coordination with a Reverse revenue-sharing contract

Pietro De Giovanni, Vrije Universiteit, Amsterdam (Netherlands)

A Differential Game of International Pollution Control with Evolving Environmental Costs

Nahid Masoudi, **Georges Zaccour**, HEC Montréal (Canada)

Don't Forget to Protect Abundant Resources

Ana Espinola-Arredondo, **Felix Munoz-Garcia**, Washington State University (USA)

16:15 – 16:30 **break**

16:30 – 17:30 **Invited talk 4, Chair: Georges Zaccour**

Information Disclosure in the Commons

Justin Leroux, HEC Montréal (Canada)