

Decision Analysis and Sustainable Development Montréal, September 27-28, 2010

Program

Conference Venue: Pavillon André-Aisenstadt, Université de Montréal

Lectures: Room 6214 / Coffee Breaks & Lunches: Room 6245

Monday, September 27

- 8:15 – 8:45** **Registration (Room 5345) & Coffee (Room 6245)**
- 8:45 – 9:00** **Welcome Address**
- 9:00 – 10:00** **Invited Talk 1, Chair: Georges Zaccour**
[Dynamical Allocation Method of Emission Rights of Pollutants by Viability Constraints under Tychastic Uncertainty](#)
Jean-Pierre Aubin, CRÉA, École Polytechnique, France
- 10:00 – 10:30** **Coffee Break**
- 10:30 – 12:30** **Contributed Session 1, Chair: Robert Cairns**
- 10:30 – 10:55 *International Environmental Agreements with Uncertain Environmental Damage and Learning*
Michèle Breton, GERAD, HEC Montréal, Canada, **Lucia Sbragia**, Durham University, UK
- 10:55 – 11:20 *International emission strategies under the threat of a sudden jump in the damages*
Robeny Bruno Nkuiya Mbakop, Université de Montréal, Canada
- 11:20 – 11:45 *Bargaining with intertemporal maximin payoffs: formal problem and general solution under monotonicity*
Vincent Martinet, INRA, France, **Michel De Lara**, Université Paris-Est, France, **Pedro Gajardo**, Universidad Técnica Federico Santa María, Chili, **Hector Ramirez**, Universidad de Chile
- 11:45 – 12:10 *An environmental-economic measure of sustainable development*
Vincent Martinet, INRA, France, **Robert Cairns**, McGill University, Canada

12:10 – 12:30	Discussion
12:30 – 14:00	Lunch
14:00 – 15:00	Invited Talk 2, Chair: Michèle Breton <i>International emissions trading schemes with full banking and borrowing: a meta-modeling game theoretic analysis</i> Alain Haurie , ORDECSYS / C-ORDEE, Switzerland
15:00 – 15:30	Coffee Break
15:30 – 17:30	Contributed Session 2, Chair: Odile Marcotte
15:30 – 16:20	<i>Viability and Sustainable Development</i> Patrick Saint-Pierre , SDFi Paris Dauphine, Lastre et Vimades, France
16:20 – 16:45	<i>Reaching CO2 emissions reductions targets: The case of Ireland</i> Denis Lavigne , Collège militaire royal de Saint-Jean, Canada
16:45 – 17:10	<i>Mathematical and numerical analyses of local integrated models</i> Emmanuel Prados , INRIA, France, Elise Arnaud , UJF/LJK /INRIA, France, Pierre-Yves Longaretti , CNRS, France, François Mancebo , PACTE/UJF, France
17:10 – 17:30	Discussion
17:45 –	Cocktail (Room 6245)

Tuesday, September 28

8:30 – 9:00 **Coffee**

9:00 – 10:00 **Invited Talk 3, Chair: Ngo Van Long**

[*Intergenerational equity and stationarity*](#)

Gerhard Sorger, University of Vienna, Austria

10:00 – 10:30 **Coffee Break**

10:30 – 12:30 **Contributed Session 3, Chair: Vincent Martinet**

10:30 – 10:55

*An environmental-economic measure of sustainable development
Water reuse planning and management: A system dynamics
approach*

**Fuzhan Nasiri, Troy Savage, Ranran Wang, Nico Barawid,
Julie Zimmerman**, Yale University, USA

10:55 – 11:20

Towards a sustainable and time consistent use of the Forest

Pablo Andrés Domenech, GERAD, HEC Montréal, Canada,
Guiomar Martín-Herrán, Universidad de Valladolid, Spain,
Georges Zaccour, GERAD, HEC Montréal, Canada

11:20 – 11:45

*Cooperative solutions in a non-renewable extraction model with
heterogeneous discounting*

Albert de Paz, Jesús Marín-Solano and Jorge Navas,
Universitat de Barcelona, Spain

11:45 – 12:10

Dynamical safety and restoration indicators

Isabelle Alvarez, Sophie Martin, Cemagref, France, **Olivier
Dordan**, Université de Bordeaux, France, **Patrick Saint-Pierre**,
SDFi Paris Dauphine, Lastré et Vimades, France

12:10 – 12:30

Discussion

12:30 – 14:00

Lunch

14:00 – 15:00 **Invited Talk 4, Chair: Christiane Rousseau**

[*New Ways of Measuring Catastrophic Risk: The Foundations of
Probability and Statistics with Black Swans
\(Recent publications on Catastrophic Risk\)*](#)

Graciela Chichilnisky, Columbia University, USA

- 15:00 – 15:30** **Coffee Break**
- 15:30 – 17:00** **Contributed Session 4, Chair: Olivier Bahn**
- 15:30 – 15:55 *The effects of fuel-mix regulations on the time-path of accumulated GHG emissions: Another green paradox*
Quentin Grafton, Tom Kompas, The Australian National University, **Ngo Van Long**, McGill University, Canada
- 15:55 – 16:20 *How to use Rosen's normalised equilibrium to implement a constrained Pareto-efficient solution*
Jacek B. Krawczyk, University of Wellington, New Zealand, **Mabel Tidball**, INRA, France
- 16:20 – 16:45 *An Integrated Assessment Model to Assess the Interplay of Adaptation and Mitigation Strategies for Climate Change*
Olivier Bahn, GERAD, HEC Montréal, Canada, **Jonathan Gheysens, Marc Chesney**, University of Zurich, Switzerland
- 16:45 – 17:00 **Discussion**
- 19:30 – **Table ronde organisée par le RCM2 : Le développement durable et le rôle des scientifiques**
- PANÉLISTES : **Jean-Pierre Aubin**, CRÉA, École Polytechnique, France, **Graciela Chichilnisky**, Université Columbia, **Jean-Pierre Blanchet**, UQAM
- MODÉRATRICE : **Sophie-Andrée Blondin**, journaliste à Radio-Canada