

6th MEETING ON GAME THEORY AND PRACTICE DEDICATED TO DEVELOPMENT, NATURAL RESOURCES AND THE ENVIRONMENT

Zaragoza (Spain), 10-12 July 2006

SCIENTIFIC PROGRAM

| Day | | | | | |
|--------------------|--------------------------|---|---|---|---|
| 10th of July | MORNING | | | | |
| | 09:00 -> | Registration | | | |
| | 09:30 - 09:45 | Opening Ceremony (Auditorium) | Mr. Marcelino Iglesias (President of the Regional Government of Aragón) Mr. Alberto Larraz (Minister of the Department of Finances and Employment of the Government of Aragón) Mr. Luis Esteruelas (Director of IAMZ) Mr. José González Bonillo (Director of CITA) Mr. Fioravante Patrone (University of Genova, President of the Organizing Committee of the 6th Meeting on Game Theory and Practice) | | |
| | 09:45 - 10:45 | Keynote (K10.1) (Auditorium) | Gordon R. Munro (Chairperson: R. Sumaila) | U of British Columbia Game Theory and the Development of Resource Management Policy: The Case of International Fisheries | |
| | 10:45 - 11:15 | Coffee break | | | |
| | 11:15 - 12:30 | Parallel sessions (P10.1) | | | |
| | | (P10.1A) (Room D) | Chairperson: R. Goodhue | Resource Extraction and Management I | 3 |
| | | | David Yeung | Hong Kong Baptist University (China) | "Dynamically stable resource extraction joint venture" |
| | | | Siwa Msangi | IFPRI (US) | "Dynamic resource usage externalities under non-cooperative behavior and agent heterogeneity: the case of groundwater extraction" |
| | | | Rachael Goodhue, Nancy McCarthy | University of California, (US) | "Fuzzy access: Modeling grazing rights in Sub-Saharan Africa" |
| | (P10.1B) (Room C) | Chairperson: S. Miquel | Cooperation | 3 | |
| | | Lina Mallozzi, S. Tijs | University of Naples (Italy) | "Conflict & Cooperation in Symmetric Potential Games" | |
| | | Roger McCain | Drexel University (US) | "Worker cooperatives, effort and shirking: A semi-effective game model" | |
| | | S. Miquel, B. van Velzen, H. Hamers, H. Norde | Lérida University (Spain) | "Solutions for fixed tree games with multi-located players" | |
| AFTERNOON | | | | | |
| | 14:00 - 16:00 | Tutorial (T10.1) (Room D) | Rashid Sumaila | University of British Columbia Fisheries and Game Theory | |
| | 16:00 - 16:30 | Coffee break | | | |
| | 16:30 - 18:30 | Tutorial (T10.2) (Room D) | Ariel Dinar | The Johns Hopkins University Water and Game Theory | |

11th
of
July

MORNING

09:00 - 10:00 **Keynote (K11.1)**
(Room D)
10:00 - 10:30 **Coffee break**
10:30 - 12:10 **Parallel sessions (P11.1)**

Leon Petrosjan
(Chairperson: F. Patrone)

St. Petersburg State University

On Time-Consistency of Long Term Environmental Plans

(P11.1A) (Room D)

Chairperson: F. Lamantia

Fishery

4

Vladimir Mazalov and Anna Rettieva

Karelian Research Center (Russia)

"Nash equilibrium in bioresource management problem with changing area for fishery"

Elena Iñarra, Anders Skonhøft

University of the Basque Country (Spain)

"Restoring a fish stock: A dynamic bankruptcy problem"

Pedro Pintassilgo, Marko Lindroos

University of Algarve (Portugal)

"Coalition formation in high seas fisheries: A partition function approach"

Gian Italo Bischi, Fabio Lamantia, Lucia Sbragia

University of Urbino (Italy)

"Strategic interaction and imitation dynamic in patch differentiated exploitation of fisheries"

(P11.1B) (Room C)

Chairperson: A. Ben Rais

Negotiation

4

L. Simon, R. Goodhue, G. Rausser, S. Thoyer, S. Morardet, P. Rio

University of California (US)

"Structure and power in multilateral negotiations: An application to French water policy"

Ariel Dinar, Stefano Farolfi, Fioravante Patrone, Kate Rowntree

World Bank (USA)

"To Negotiate or to Game Theorize: Negotiation vs. Game Theory Outcomes for Water Allocation Problems in the Kat Basin, South Africa"

Petra Huck, Klaus Salhofer

Technical University Munich (Germany)

"Teaching differential games in resource economics"

Alae Ben Rais

Paris Dauphine University (France)

"Negotiating free-trade agreements: Internal procedure"

AFTERNOON

13:30 - 15:10 **Parallel sessions (P11.2)**

(P11.2A) (Room D)

Chairperson: H. Chang

Environmental Regulation I

4

Y. Pavlova, M. Dementieva, V. Zakharov, P. Neittaanmäki

University of Jyväskylä (Finland)

"Modeling of ecological project based on the Kyoto protocol Principles"

Juan Carlos Bárcena-Ruiz

País Vasco University (Spain)

"Environmental taxes and first-mover advantages"

Koji Okuguchi, Ferenc Szidarovszky

Gifu Shotoku Gakuen University (Japan)

"Environmental R&D in Cournot oligopoly with emission or performance standards"

Howard Chang, Hilary Sigman

University of Pennsylvania (US)

"The effect of joint and several liability under superfund on bownfields"

(P11.2B) (Room C)

Chairperson: C. Mason

International Environmental Agreements

4

Wolfgang Peters, Christine Schuler

Europa Universität Viadrina Frankfurt [Oder] (Germany)

"International environmental agreements: Can equity and fairness enlarge the size of the coalition?"

Paloma Zapata

UNAM (Mexico).

"The emergence of organizations that force environment protection. A stochastic approach"

Linda Fernández

University of California (US)

"Wastewater management across an international border"

Victoria I. Umanskaya, Edward B. Barbier, Charles F. Mason

University of Wyoming (US)

"Trade, transboundary pollution, and international lobbying"

15:10 - 15:40 **Coffee break**

15:40 - 16:40 **Keynote (K11.2)**
(Room D)

Roy Gardner
(Chairperson: A. Dinar)

Indiana University

Budget Processes of Int'l Financial/Development Organizations: Theory and
Experimental Evidence

16:40 - 18:20 **Parallel sessions (P11.3)**

(P11.3A) (Room D)

Chairperson: C. Marchiori

Environmental Regulation II

4

Harold Houba

Vrije University (Netherlands)

“A convex program for computing alternating offers in bilateral river basin management”

Nicolas Querou

Queen's University Belfast (UK)

“An iterative procedure for optimal pollution control under incomplete information”

Liguo Lin

Universitat Autònoma de Barcelona (Spain)

“Optimal environmental enforcement policy with counter actions by local governments”

Carmen Marchiori

London School of Economics (UK)

“Negotiating on water: Concern for fairness and incentives within a non-cooperative bargaining framework”

(P11.3B) (Room C)

Chairperson: E. Martin

Resource Extraction and Management II

4

Francisco Cabo, Guiomar Martín-Herrán,
María Pilar Martínez-García

Valladolid University (Spain)

“Technological diffusion and renewable resources in a two-country trade endogenous growth model”

Sjur Flåm, Odd Godal

University of Bergen (Norway)

“Strategic exchange of property rights”

Agnieszka Wiszniewska

Warsaw University (Poland)

“Common resources, optimality and taxes in dynamic games with increasing number of players”

Elsa Martin

Université d'Aix-Marseille (France)

“Economic aspects of groundwater management. Case study of Crau aquifer (France)”

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|--------------------|--------------------------|---|---|--|
| 12th of July | MORNING | | | |
| | 09:00 - 10:00 | Keynote (K12.1) (Room D) | Michael Finus (Chairperson: J. Sanchez-Soriano) | University of Hagen Modesty may pay! |
| | 10:00 - 10:30 | Coffee break | | |
| | 10:30 - 11:45 | Parallel sessions (P12.1) | | |
| | (P12.1A) (Room D) | Chairperson: A. García | Water Regulation Markets and Pricing | 3 |
| | | Mikhail Mikhalevich, Ludmilla Koshlai | Academy of Foreign Trade (Ukraine) | "Pricing in problems of multiregional water consumption" |
| | | Vito Fragnelli, Rita de Agostini | Università Piemonte Orientale (Italy) | "A fair tariff system for water management" |
| | | Aurora García-Gallego, Nikolaos Georgantzís, Praveen Kujal | Jaume I University (Spain) | "How do markets manage water resources? An experiment on resource market (de)centralization with endogenous quality" |
| | (P12.1B) (Room C) | Chairperson: G. Herath | Resource Extraction and Management III | 3 |
| | | George Frisvold, Kyle Emerick | University of Arizona (US) | "Rural-urban water transfers in the U.S.-Mexico border region" |
| | | Xiaokai Li, Haifeng Shi, Xueyu Lin | Beijing Normal University (China) | "Modeling of water resources allocation regimes with a case study of the Yellow River Basin" |
| | | Gamini Herath | Deakin University (Australia) | "Game theory applications in natural resource management: Review of evidence, problems and potential" |
| AFTERNOON | | | | |
| | 13:30 - 14:45 | Parallel sessions (P12.2) | | |
| | (P12.2A) (Room D) | Chairperson: P. Fleckinger | Environmental Regulation III | 3 |
| | | Giuseppe Attanasi, Aldo Montesano | Bocconi University (Italy) | "Testing value vs waiting value: A more general approach to environmental decisions under uncertainty and irreversibility" |
| | | Philippe Delacote | European University Institute (Italy) | "Are consumer boycotts effective?" |
| | | Ignace Adant, Pierre Fleckinger | CNRS (France) | "Controlling externalities with asymmetric information: Ferrous scrap recycling and the gold rush problem" |
| | (P12.2B) (Room C) | Chairperson: S. Rubio | Climate Change | 3 |
| | | Haruo Imai, Jiro Akita, Hidenori Niizawa | Kyoto University (Japan) | "On alternative CDM baseline schemes and their appropriateness: Ex-ante, ex-post, and ex-post proxy baselines" |
| | | Odd Godal, F. Meland | University of Göteborg (Sweden) | "Coalition formation and noncooperative permit exchange under the Kyoto protocol" |
| | | C. Fuentes-Albero, S. Rubio | Valencia University (Spain) | "Can international environmental cooperation be bought?" |
| | 14:45 - 16:00 | Round Table (Room D) | Setting joint research agendas for Game Theory practitioners | |
| | | Panel members Linda Fernandez, Michael Finus, Haruo Imai, Roy Gardner, Fioravante Patrone, Leon Petrosjan, Leo Simon, Ariel Dinar (Moderator) | | |

16:00 - 16:30 End coffee