



AERNA

VIII CONFERENCE

SPANISH-PORTUGUESE ASSOCIATION OF NATURAL AND ENVIRONMENTAL RESOURCE ECONOMICS



MADRID, 3-5 SEPTEMBER 2018



AERNA

VIII CONFERENCE SPANISH-PORTUGUESE ASSOCIATION OF NATURAL AND ENVIRONMENTAL RESOURCE ECONOMICS

MONDAY SEPTEMBER 3, 2018

PRE-CONFERENCE WORKSHOP ON INTERNATIONAL ENVIRONMENTAL AGREEMENTS: LESSONS FOR CLIMATE CHANGE POLICY AFTER PARIS

Venue: Fundación Ramón Areces. Address: Vitruvio 5, 28006, Madrid

- 09:00 to 09:10** Welcome to the Pre-conference Workshop
- 09:10 to 10:00** Michael Finus (University of Graz, Austria): *Measures to Enhance the Effectiveness of International Climate Agreements: The Case of Border Carbon Adjustments*
- 10:00 to 10:50** Pedro Pintassilgo (University of Algarve, Portugal): *Uncertainty, Learning and International Environmental Agreements – The Role of Risk Aversion*
- 10:50 to 11:20** Coffee Break
- 11:20 to 12:10** Santiago J. Rubio (University of Valencia, Spain): *Self-enforcing International Environmental Agreements: Adaptation and Complementarity*
- 12:10 to 13:00** Alejandro Caparrós, (Spanish National Research Council-CSIC, Spain): *A model of the (incomplete) Paris Agreement on climate change*
- 13:00 to 13:50** Sareh Vosooghi (University of Oxford, UK): *Information Design in Coalition Formation Games*
- 13:50 to 15:20** Lunch
- 15:20 to 16:10** Luca Taschini (London School of Economics, UK and University of Verona, Italy): *Linking Permit Markets Multilaterally*
- 16:10 to 17:00** Hagen Schwerin (ETH Zurich, Switzerland): *Swap Bonds or Stocks, or Balance Trade! A Game of Implicit Environmental Policy*

CONFERENCE REGISTRATION AND OPENING

Venue: Fundación Ramón Areces. Address: Vitruvio 5, 28006, Madrid

- 17:00 to 18:00** Conference registration
- 18:00 to 19:00** Conference opening
Elena Domínguez (Vice President for International Relations, CSIC)
Antoni Riera (AERNA President)
Alejandro Caparrós (Chair of the Organising Committee)
- 19:30 to 21:00** Opening Plenary Session. Keynote Speaker: Michael Grubb (University College London, Institute for Sustainable Resources, UK): *Climate change and energy: theory and European policy beyond 'burden sharing'*

Social Dinner

- 21:00 to 00:00** Restaurant Jai Alai. Address: Balbina Valverde 2, 28002 Madrid

VIII AERNA CONFERENCE SESSIONS

Venue: Instituto de Políticas y Bienes Públicos (IPP), Centro de Ciencias Humanas y Sociales (CCHS), Consejo Superior de Investigaciones Científicas (CSIC).

Address: Albasanz 26-28, 28037, Madrid.

08:30 to 09:00 Conference Registration

09:00 to 10:30 Parallel Sessions 1

SESSION 1.1: ENERGY I. ROOM: MENENDEZ PIDAL (ROOM 1)

CHAIR: MARIA DEL MAR SOLA (BC3 - BASQUE CENTRE FOR CLIMATE CHANGE)

Paper: *Where to deploy marine renewable energy in Portugal? Contributions to marine spatial planning through economic modelling*

Presenter: Ana Lopes (University of Stavanger, Norway)

Co-author: Maria A. Cunha-e-Sá (Nova School of Business and Economics, Portugal)

Discussant: Elwasila Mohamed (University of Khartoum, Sudan)

Paper: *Energy and Economic Factors Affecting CO2 Emissions in Sudan: An Econometric Analysis (1969-2015)*

Presenter: Elwasila Mohamed (University of Khartoum, Sudan)

Discussant: Maria del Mar Sola (BC3 - Basque Centre for Climate Change, Spain)

Paper: *A cross-sectoral analysis of the role of label information in consumer preferences for energy efficiency*

Presenter: Maria del Mar Sola (BC3 - Basque Centre for Climate Change, Spain)

Coauthors: Amaia de Ayala (UPV/EHU - University of the Basque Country, Spain), Sébastien Foudi (BC3 - Basque Centre for Climate Change, Spain), Elena López (BC3 - Basque Centre for Climate Change, Spain) and Ibon Galarraga (BC3 - Basque Centre for Climate Change, Spain)

Discussant: Ana Lopes (University of Stavanger, Norway)

SESSION 1.2: VALUATION I. ROOM: JOSÉ CASTILLEJO (ROOM 2)

CHAIR: SANDRA ROUSSEAU (CEDON – KU LEUVEN, BELGIUM)

Paper: *Dealing with endogeneity due to omitted attributes in discrete-choice modelling*

Presenter: David Hoyos (UPV/EHU - University of the Basque Country, Spain)

Discussant: Amaia de Ayala (UPV/EHU - University of the Basque Country, Spain)

Paper: *Benefits from water related ecosystem services in Africa and climate change*

Presenter: Amaia de Ayala (UPV/EHU - University of the Basque Country, Spain)

Co-authors: Laetitia Pettinotti (BC3 - Basque Centre for Climate Change, Spain) and Elena Ojea (University of Vigo, Spain)

Discussant: Sandra Rousseau (CEDON – KU Leuven, Belgium)

Paper: *Scuba diving in the Oosterschelde: Combining travel cost estimates with stated choice experiments*

Presenter: Sandra Rousseau (CEDON – KU Leuven, Belgium)

Co-author: Anthony Tejerizo Fuertes (KU Leuven, Belgium)

Discussant: David Hoyos (UPV/EHU - University of the Basque Country, Spain)

SESSION 1.3: FORESTS. ROOM: MARÍA ZAMBRANO (ROOM 3)

CHAIR: PAOLA OVANDO (JAMES HUTTON INSTITUTE, UK)

Paper: *Protecting the Rainforest? The Case of Mahogany Prohibition and Deforestation*

Presenter: Ariaster Chimeli (University of Sao Paulo, Brazil)

Co-author: Rodrigo Soares (Columbia University, United States)

Discussant: Pablo Andrés-Domenech (AgroParisTech, France)

Paper: *Cut or Keep: What should forest owners do after a windthrow?*

Presenter: Pablo Andrés-Domenech (AgroParisTech, France)

Discussant: Paola Ovando (James Hutton Institute, UK)

Paper: *Carbon sequestration or water yield? The effect of payments for ecosystem services on forest management decisions in Mediterranean forests*

Presenter: Paola Ovando (James Hutton Institute, UK)

Coauthors: Santiago Beguería (Spanish National Research Council-CSIC, Spain) and Pablo Campos (Spanish National Research Council-CSIC, Spain)

Discussant: Ariaster Chimeli (University of Sao Paulo, Brazil)

SESSION 1.4: ENVIRONMENTAL POLICY. ROOM: CARO BAROJA (ROOM 4)

CHAIR: CARMEN ARGUEDAS (AUTONOMOUS UNIVERSITY OF MADRID, SPAIN)

Paper: *Endogenous Climate Coalitions and Free Trade - Building the Missing Link*

Presenter: Thomas Kuhn (University of Technology Chemnitz, Germany)

Co-author: Radomir Pestow (University of Technology Chemnitz, Germany) and Anja Zenker (University of Technology Chemnitz, Germany)

Discussant: Héliá Costa (Toulouse School of Economics, France)

Paper: *Political economy of environmental regulation: the role of lobbying and elections in the US Senate*

Presenter: Héliá Costa (Toulouse School of Economics, France)

Discussant: Carmen Arguedas (Autonomous University of Madrid, Spain)

Paper: *Enforcing Regulatory Standards in Stock Pollution Problems*

Presenter: Carmen Arguedas (Autonomous University of Madrid, Spain)

Co-author: Francisco Cabo (University of Valladolid, Spain) and Guiomar Martin-Herran (University of Valladolid, Spain)

Discussant: Thomas Kuhn (University of Technology Chemnitz, Germany)

10:30 to 11:00

Coffee Break

SESSION 2.1: AGRICULTURE I. ROOM: MENENDEZ PIDAL (ROOM 1)
CHAIR: JAVIER CALATRAVA (TECHNICAL UNIVERSITY OF CARTAGENA, SPAIN)

Paper: *An econometric approach to determine economic and non-economic drivers of agricultural and forest land-use change in the EU-15*

Presenter: Pedro Moreno (University of Cadiz, Spain)

Co-authors: Jose L. Oviedo (Spanish National Research Council-CSIC, Spain) and Alejandro Caparrós (Spanish National Research Council-CSIC, Spain)

Discussant: Jorge Valenciano Salazar (Complutense University of Madrid, Spain)

Paper: *Local and International Determinants of Coffee Berry Prices in Costa Rica? A Panel Data Analysis*

Presenter: Jorge Valenciano Salazar (Complutense University of Madrid, Spain)

Co-authors: Francisco André (Complutense University of Madrid, Spain) and Rafael Díaz-Porras (National University of Costa Rica, Costa Rica)

Discussant: Javier Calatrava (Technical University of Cartagena)

Paper: *The direct economic impact of purchasing water rights to eliminate aquifer overdraft in the Altiplano of the Murcia Region (SE Spain)*

Presenter: Javier Calatrava (Technical University of Cartagena, Spain)

Co-author: David Martínez-Granados (Technical University of Cartagena, Spain)

Discussant: Pedro Moreno (University of Cadiz, Spain)

SESSION 2.2: BIOECONOMIC MODELLING. ROOM: JOSÉ CASTILLEJO (ROOM 2)
CHAIR: ALBERTO ANSUATEGI (UPV/EHU - UNIVERSITY OF THE BASQUE COUNTRY, SPAIN)

Paper: *The impacts of nonlinearities and shifts in ecosystems in optimal groundwater pumping patterns*

Presenter: Encarna Esteban (University of Zaragoza, Spain)

Co-authors: Elena Calvo (University of Zaragoza, Spain) and José Albiac (CITA-DGA - Agrifood Research and Technology Center, Spain)

Discussant: Anders Skonhoft (Norwegian University of Science and Tech, Norway)

Paper: *Wildlife conflicts: Wolves vs. moose*

Presenter: Anders Skonhoft (Norwegian University of Science and Tech, Norway)

Discussant: Alberto Ansuategi (UPV/EHU - University of the Basque Country, Spain)

Paper: *Local Fishing Communities and Nature-Based Tourism in Baja, Mexico: An Inter-Sectoral Valuation of Environmental Inputs*

Presenter: Alberto Ansuategi (UPV/EHU - University of the Basque Country, Spain)

Co-author: Duncan Knowler (Simon Fraser University, Canada)

Discussant: Encarna Esteban (University of Zaragoza, Spain)

SESSION 2.3: INVESTMENT AND INNOVATION. ROOM: MARÍA ZAMBRANO (ROOM 3)
CHAIR: JULIA DE FRUTOS CACHORRO (UNIVERSITY OF BARCELONA, SPAIN AND BEAT)

Paper: *Closing the Loop in a Circular Economy: Saving Resources or Suffocating Innovations?*

Presenter: Sophie Lian Zhou (Tilburg University, The Netherlands)

Co-authors: Sjak Smulders (Tilburg University, The Netherlands) and Reyer Gerlagh (Tilburg University, The Netherlands)

Discussant: David Corderi Novoa (Independent Consultant, Spain)

Paper: *Optimal Investment in Flood Risk Reduction: Considering Portfolios, Investment Timing and Extreme Flood Losses*

Presenter: David Corderi Novoa (Independent Consultant, Spain)

Co-authors: Hori Tsuneki (Interamerican Development Bank, United States), Luis Yarmin (ITEC, Colombia), Juan Felipe Velandía (ITEC, Colombia) and Erwin Kalvelagen (Amsterdam Optimization, The Netherlands)

Discussant: Julia de Frutos Cachorro (University of Barcelona, Spain and BEAT)

Paper: *Strategic investment decisions under the nuclear power debate in Belgium*

Presenter: Julia de Frutos Cachorro (University of Barcelona, Spain and BEAT)

Co-authors: Gwen Willegheims (HIVA-KU Leuven) and Jeroen Buysse (Faculty of Bioscience Engineering - Ghent University, Belgium)

Discussant: Sophie Lian Zhou (Tilburg University, The Netherlands)

SESSION 2.4: INEQUALITY. ROOM: CARO BAROJA (ROOM 4)
CHAIR: JESÚS BARREAL (COMPLUTENSE UNIVERSITY OF MADRID, SPAIN)

Paper: *Kuznets Trilemma*

Presenter: Jun-Hyung Ko (Aoyama Gakuin University, Japan)

Co-authors: Jung Yun Choi (Korea University, South Korea) and Doo Bong Han (Korea University, South Korea)

Discussant: Jesús Barreal (Complutense University of Madrid, Spain)

Paper: *Are Increased Regional Disparity and Unsustainable Economic Development the Two Sides of the Same Coin for OECD Countries?*

Presenter: Alexandra Leitão (Catholic University of Portugal, Portugal)

Co-author: Maria Cunha-e-Sá (Nova School of Business and Economics, Portugal)

Discussant: Jun-Hyung Ko (Aoyama Gakuin University, Japan)

Paper: *GINI decomposition to design the preventive wildfire policy in Galicia (NW Spain)*

Presenter: Jesús Barreal (Complutense University of Madrid, Spain)

Discussant: Alexandra Leitão (Catholic University of Portugal, Portugal)

Paper: *Analysis of Determinants in Municipal Solid Waste Generation in a Tourist*

Presenter: Eugenio Díaz Fariña (University of La Laguna, Spain)

Co-author: Juan José Díaz Hernández (University of La Laguna, Spain) and Noemi Padron-Fumero (University of La Laguna, Spain)

Discussant: Carmelo León (University of Las Palmas de Gran Canaria, Spain)

Paper: *Experimental Evidence of the Influence of Behavioural Policies on Tourism Sustainability*

Presenter: Carmelo León (University of Las Palmas de Gran Canaria, Spain)

Co-author: Jorge Araña (University of Las Palmas de Gran Canaria, Spain)

Discussant: María Pilar Martínez-García (University of Murcia, Spain)

Paper: *Economic growth, tourism and environmental policy*

Presenter: María Pilar Martínez-García (University of Murcia, Spain)

Co-author: Isabel Albaladejo (University of Murcia, Spain)

Discussant: Eugenio Díaz Fariña (University of La Laguna, Spain)

12:30 to 13:30 Plenary Session 1 (Conference Hall). Keynote Speaker: Giles Atkinson (The London School of Economics and Political Science, UK): *Sustainability, wealth and natural capital*

13:30 to 14:30 Lunch (Central Alley) and AERNA Board of directors meeting (Room María Zambrano. Room 3).

14:30 to 16:00 Round table 1 (Conference Hall): *Ecosystem Accounting in Spain and Portugal*

Speakers:

Nuno de Almeida Ribeiro (University of Evora, Portugal)

Jose Luis Del Pozo (Junta de Extremadura, Spain)

María Luisa Egido (Instituto Nacional de Estadística, Spain)

Pablo Campos Palacín (Spanish National Research Council-CSIC, Spain)

16:00 to 16:30 Coffee Break

16:30 to 18:00 AERNA Assembly (Conference Hall)

SOCIAL EVENT AND DINNER

Location: "Real Jardín Botánico" (Royal Botanic Garden). Address: Plaza de Murillo 2, 28014 Madrid.

19:00 to 20:00 Social event: visit to "Real Jardín Botánico" (Royal Botanic Garden).

20:00 to 00:00 Social Dinner

VIII AERNA CONFERENCE SESSIONS

Venue: Instituto de Políticas y Bienes Públicos (IPP), Centro de Ciencias Humanas y Sociales (CCHS), Consejo Superior de Investigaciones Científicas (CSIC). Address: Albasanz 26-28, 28037, Madrid.

09:00 to 10:30 Parallel Sessions 3

SESSION 3.1: ENERGY II. ROOM: MENENDEZ PIDAL (ROOM 1)

CHAIR: MARIA LOUREIRO (UNIVERSITY OF SANTIAGO DE COMPOSTELA, SPAIN)

Paper: *Impacts of Climate Change on Wind Energy Power—Four Wind Farms in Spain*

Presenter: Kepa Solaun (Factor Ideas Integral Services S.L., Spain)

Co-author: Emilio Cerdá (Complutense University of Madrid, Spain)

Discussant: Giovanni Marin (University of Urbino 'Carlo Bo', Italy)

Paper: *The Impact of Energy Prices on Employment and Environmental Performance: Evidence from French Manufacturing Establishments*

Presenter: Giovanni Marin (University of Urbino 'Carlo Bo', Italy)

Co-author: Francesco Vona (OFCE SciencesPo, France)

Discussant: Maria Loureiro (University of Santiago de Compostela, Spain)

Paper: *Household perceptions on biogas as a sustainable energy source. A focus group study in Hadejia Valley, Nigeria*

Presenter: Maria Loureiro (University of Santiago de Compostela, Spain)

Co-author: Eva Iglesias Martínez (Technical University of Madrid, Spain)

Discussant: Kepa Solaun (Factor Ideas Integral Services S.L., Spain)

SESSION 3.2: DYNAMIC MODELLING. ROOM: JOSÉ CASTILLEJO (ROOM 2)

CHAIR: SANTIAGO RUBIO (UNIVERSITY OF VALENCIA, SPAIN)

Paper: *La Pesquería Mixta Europea de Merluza y Bacaladilla: Análisis Bioeconómico*

Presenter: Marcos Pérez Pérez (University of Vigo, Spain)

Co-authors: M. Dolores Garza Gil (University of Vigo, Spain), Manuel M. Varela Lafuente (University of Vigo, Spain) and Juan C. Surfís-Regueiro (University of Vigo, Spain)

Discussant: Renan Goetz (University of Girona, Spain)

Paper: *Tragedy of the Commons and Social Networks: Economic Incentives versus Strengthening of Social Ties*

Presenter: Renan Goetz (University of Girona, Spain)

Co-author: Jorge Marco (University of Girona, Spain)

Discussant: Santiago Rubio (University of Valencia, Spain)

Paper: *Second-Best Taxation for a Polluting Monopoly with Abatement Investment*

Presenter: Santiago Rubio (University of Valencia, Spain)

Co-author: Guiomar Martín-Herran (University of Valladolid, Spain)

Discussant: Marcos Pérez Pérez (University of Vigo, Spain)

SESSION 3.3: GREEN ACCOUNTS AND INDICATORS. ROOM: MARÍA ZAMBRANO (ROOM 3)

CHAIR: PABLO CAMPOS (SPANISH NATIONAL RESEARCH COUNCIL-CSIC, SPAIN)

Paper: *A robust and comprehensive indicator for the economic valuation of threatened biodiversity*

Presenter: Mario Diaz (Spanish National Research Council-CSIC, Spain)

Co-authors: Elena D. Concepcion (Spanish National Research Council-CSIC, Spain), Jose L. Oviedo (Spanish National Research Council-CSIC, Spain), Begoña Farizo (Spanish National Research Council-CSIC, Spain) and Pablo Campos (Spanish National Research Council-CSIC, Spain)

Discussant: Carlos Llano (Autonomous University of Madrid, Spain)

Paper: *Greenhouse Gas Emissions from intra-national freight transport: Measurement and scenarios for greater sustainability in Spain*

Presenter: Carlos Llano (Autonomous University of Madrid, Spain)

Co-authors: Santiago Pérez-Balsalobre (Autonomous University of Madrid) and Julián Pérez-García (Autonomous University of Madrid, Spain)

Discussant: Pablo Campos (Spanish National Research Council-CSIC, Spain)

Paper: *Refining concepts and methods for measuring ecosystem services and environmental incomes: application to cork oak agroforestry farm case studies in Andalusia, Spain*

Presenter: Pablo Campos (Spanish National Research Council-CSIC, Spain)

Co-authors: Jose L. Oviedo (Spanish National Research Council-CSIC, Spain), Alejandro Álvarez (Spanish National Research Council-CSIC, Spain), Bruno Mesa (Spanish National Research Council-CSIC, Spain) and Alejandro Caparrós (Spanish National Research Council-CSIC, Spain)

Discussant: Mario Diaz (Spanish National Research Council-CSIC, Spain)

SESSION 3.4: VALUATION II. ROOM: CARO BAROJA (ROOM 4)

CHAIR: JOSE L. OVIEDO (SPANISH NATIONAL RESEARCH COUNCIL-CSIC, SPAIN)

Paper: *The Capitalization of Geohazard Risks on Residential Real Estate: Applications to Lisbon, Portugal*

Presenter: Jacob Macdonald (Nova School of Business and Economics, Portugal)

Co-author: Sofia Franco (Nova School of Business and Economics, Portugal)

Discussant: Muhammad Rafiq (IM Sciences, Pakistan)

Paper: *The Health Costs Associated with Exposure of Farming Community to Polluted Urban Wastewater in Peshawar City*

Presenter: Muhammad Rafiq (IM Sciences, Pakistan)

Co-author: Muhammad Fawad Azam (IM Sciences, Pakistan)

Discussant: Jose L. Oviedo (Spanish National Research Council-CSIC, Spain)

Paper: *Valuing non-market private amenity consumption in Mediterranean forests: a contingent valuation application in Andalusia, Spain*

Presenter: Jose L. Oviedo (Spanish National Research Council-CSIC, Spain)

Co-authors: Pablo Campos (Spanish National Research Council-CSIC, Spain) and Alejandro Caparrós (Spanish National Research Council-CSIC, Spain)

Discussant: Jacob Macdonald (Nova School of Business and Economics, Portugal)

10:30 to 11:00

Coffee Break

SESSION 4.1: VALUATION III. ROOM: MENENDEZ PIDAL (ROOM 1)

CHAIR: ALEJANDRO CAPARRÓS (SPANISH NATIONAL RESEARCH COUNCIL-CSIC, SPAIN)

Paper: *The Socio-Psychological Determinants of Preferences toward Ecosystem Services: a Choice Experiment study with Posterior Analysis of Conditional Preference Distributions*

Presenter: Elisabetta Strazzera (University of Cagliari, Italy)

Co-author: Daniela Meleddu (University of Cagliari, Italy), Marina Mura (University of Cagliari) and Vania Statzu (University of Cagliari, Italy)

Discussant: Maria Loureiro (University of Santiago de Compostela, Spain)

Paper: *Assessing Preferences for Wildfire Prevention Policies in Spain*

Presenter: Maria Loureiro (University of Santiago de Compostela, Spain)

Co-author: Maria Alló (University of A Coruña, Spain)

Discussant: Alejandro Caparrós (Spanish National Research Council-CSIC, Spain)

Paper: *Coalition Formation in Weakest-link Games: Experimental Evidence*

Presenter: Alejandro Caparrós (Spanish National Research Council-CSIC, Spain)

Co-author: Esther Blanco (University of Innsbruck, Austria), Philipp Buchenauer (University of Innsbruck, Austria) and Michael Finus (University of Bath, UK)

Discussant: Elisabetta Strazzera (University of Cagliari, Italy)

SESSION 4.2: WATER. ROOM: JOSÉ CASTILLEJO (ROOM 2)

CHAIR: MARIA CUNHA-E-SÁ (NOVA SCHOOL OF BUSINESS AND ECONOMICS, PORTUGAL)

Paper: *Environmental Flows in Hydro-economic Models*

Presenter: Jean-Christophe Perea (GREThA - Univ Bordeaux, France)

Co-author: Alexander Pryet (Univ Bordeaux, France)

Discussant: Pilar Gracia de Rentería (AQUAE Chair in Water Economics – UNED, Spain)

Paper: *The determinants of groundwater demand for industrial uses. Application to an urban environment*

Presenter: Pilar Gracia de Rentería (AQUAE Chair in Water Economics – UNED, Spain)

Co-authors: Ramón Barberán (University of Zaragoza, Spain) and Jesús Mur (University of Zaragoza, Spain)

Discussant: Maria Cunha-e-Sá (Nova School of Business and Economics, Portugal)

Paper: *The Pitfalls of Efficiency in Irrigation Modernization*

Presenter: Maria Cunha-e-Sá (Nova School of Business and Economics, Portugal)

Co-author: Catarina Roseta-Palma (ISCTE-IUL, Portugal)

Discussant: Jean-Christophe Perea (GREThA - Univ Bordeaux, France)

SESSION 4.3: MARKET STRUCTURE. ROOM: MARÍA ZAMBRANO (ROOM 3)
CHAIR: FRANCISCO ANDRÉ (COMPLUTENSE UNIVERSITY OF MADRID, SPAIN)

Paper: *Strategic use of environmental innovation in vertical chains and regulatory attitudes*

Presenter: Oliwia Kurtyka (Grenoble INP Genie Industriel, France)

Co-author: Rania Mabrouk-Kamoun (University of Grenoble Alpes, France)

Discussant: Lluís M. Granero (University of Valencia, Spain)

Paper: *Sustainable products, market structure, and welfare*

Presenter: Lluís M. Granero (University of Valencia, Spain)

Co-author: Begoña Casino (University of Valencia, Spain)

Discussant: Francisco André (Complutense University of Madrid, Spain)

Paper: *The Role of Grandfathering under Simultaneous Market Power in Product and Emission Permit Markets*

Presenter: Francisco André (Complutense University of Madrid, Spain)

Co-author: Luis Miguel de Castro (University of Girona, Spain)

Discussant: Oliwia Kurtyka (Grenoble INP Genie Industriel, France)

SESSION 4.4: GEOGRAPHICAL ISSUES. ROOM: CARO BAROJA (ROOM 4)
CHAIR: GUIOMAR MARTIN-HERRAN (UNIVERSITY OF VALLADOLID, SPAIN)

Paper: *Fisheries Captures: Geographical and country distributional issues*

Presenter: Belén Inguanzo (UPV/EHU - University of the Basque Country, Spain)

Co-author: María-José Gutierrez (UPV/EHU - University of the Basque Country, Spain)

Discussant: Lorena Remuzgo (University of Cantabria, Spain)

Paper: *Empirics of the international polarization in greenhouse gases: optimal number of groups according to historical emissions*

Presenter: Lorena Remuzgo (University of Cantabria, Spain)

Co-author: Carmen Trueba (University of Cantabria, Spain)

Discussant: Guiomar Martin-Herran (University of Valladolid, Spain)

Paper: *Spatial vs. Non-Spatial Transboundary Pollution Control in a Class of Cooperative and Non-Cooperative Dynamic Games*

Presenter: Guiomar Martin-Herran (University of Valladolid, Spain)

Co-author: Javier De Frutos (IMUVA - University of Valladolid, Spain)

Discussant: Belén Inguanzo (UPV/EHU - University of the Basque Country, Spain)

12:30 to 13:30 Plenary Session 2 (Conference Hall). Keynote Speaker: María Loureiro (University of Santiago de Compostela, Spain): *Looking at old problems with new data sources: applications to the economics of climate change*

13:30 to 14:00 Lunch (Central Alley)

14:30 to 16:00 **Round table 2 (Conference Hall): *Design and Implementation of Renewable Energy Auctions in Spain***

Speakers:

Fernando Ferrando (Fundación Renovables, Spain)

Hugo Lucas (Factor CO₂, Spain)

Juan Rivier (Iberdrola, Spain)

José Antonio Castro (Comisión Nacional de los Mercados y la Competencia, Spain)

16:00 to 16:30 **Coffee Break**

16:30 to 18:00 **Parallel Sessions 5**

SESSION 5.1: VALUATION IV. ROOM: MENENDEZ PIDAL (ROOM 1)

CHAIR: ANGEL BUJOSA BESTARD (UNIVERSITY OF THE BALEARIC ISLANDS, SPAIN)

Paper: A discrete choice experiment for valuing ecosystem services in a Biosphere Reserve

Presenter: David Hoyos (UPV/EHU - University of the Basque Country, Spain)

Discussant: Begoña Farizo (Spanish National Research Council-CSIC)

Paper: Simultaneous valuation of forest ecosystem services from landscape conservation and wild threatened biodiversity preservation in Andalusia (Spain)

Presenter: Begoña Farizo (Spanish National Research Council-CSIC)

Co-author: Jose L. Oviedo (Spanish National Research Council-CSIC), Alejandro Caparros (Spanish National Research Council-CSIC), Mario Diaz (Spanish National Research Council-CSIC), Gregorio Montero (INIA - The National Institute for Agricultural and Food Research and Technology) and Pablo Campos (Spanish National Research Council-CSIC)

Discussant: Angel Bujosa Bestard (University of the Balearic Islands, Spain)

Paper: Estimation of Implicit Discount Rates for the Long and Very Long Future: an Application to Climate Change Impacts on Coastal Tourism

Presenter: Angel Bujosa Bestard (University of the Balearic Islands, Spain)

Co-author: Antoni Riera (University of the Balearic Islands, Spain)

Discussant: David Hoyos (UPV/EHU - University of the Basque Country, Spain)

SESSION 5.2: GREEN PREFERENCES AND ATTITUDES. ROOM: JOSÉ CASTILLEJO (ROOM 2)

CHAIR: MATTEO MIGHELI (UNIVERSITY OF TORINO, ITALY)

Paper: The Stick and the Carrot: Explaining the decision to participate in the Water Producer Programme (Brazil)

Presenter: Pablo Andrés-Domenech (AgroParisTech, France)

Co-author: Leidimari Neves do Prado (AgroParisTech, France) and Serge Garcia (AgroParisTech, France)

Discussant: Marta Suárez Varela (University of Valencia, Spain)

Paper: Spillovers from Pro-Environmental Attitudes and Behaviors on Mitigating Behaviors that Pose Negative Externalities: A Double-hurdle Approach Applied to Bottled Water Demand

Presenter: Marta Suárez Varela (University of Valencia, Spain)

Co-author: Ariel Dinar (University of California, Riverside, United States)

Discussant: Matteo Migheli (University of Torino, Italy)

Paper: *Green Purchasing: the Effect of Parenthood and Gender*

Presenter: Matteo Migheli (University of Torino, Italy)

Discussant: Pablo Andrés-Domenech (AgroParisTech, France)

SESSION 5.3: INSTITUTIONS. ROOM: MARÍA ZAMBRANO (ROOM 3)

CHAIR: CRISTINA SUAREZ (UNIVERSITY OF ALCALÁ, SPAIN)

Paper: *The Cofradías de Pescadores in Galicia: study applied from the perspective of the participation firms*

Presenter: Iria García-Lorenzo (University of Vigo, Spain)

Co-author: María José Cabaleiro-Casal (University of Vigo, Spain)

Discussant: Raquel Fernández-González (University of Vigo, Spain)

Paper: *El "Prestige": análisis de la gobernanza económica de una tragedia ecológica*

Presenter: Raquel Fernández-González (University of Vigo, Spain)

Co-authors: Marcos Pérez Pérez (University of Vigo, Spain), M. Dolores Garza-Gil (University of Vigo, Spain), Manuel Varela Lafuente (University of Vigo, Spain) and Ana Nobre Nobre (University of Vigo, Spain)

Discussant: Cristina Suarez (University of Alcalá, Spain)

Paper: *CAP subsidies matter for R&D? An evaluation of the farm R&D environmental objectives*

Presenter: Cristina Suarez (University of Alcalá, Spain)

Co-authors: Sonia Quiroga (University of Alcalá, Spain) and Jesús Manuel Rodrigo (University of Alcalá, Spain)

Discussant: Iria García-Lorenzo (University of Vigo, Spain)

SESSION 5.4: AGRICULTURE II. ROOM: CARO BAROJA (ROOM 4)

CHAIR: YOLANDA MARTINEZ (UNIVERSITY OF ZARAGOZA, SPAIN)

Paper: *Measuring drought sensitivity of Spanish cereal yields using thermal remote-sensing indicators*

Presenter: David García-León (Fondazione Eni Enrico Mattei, Italy)

Co-authors: Sergio Contreras (Future Water, Spain) and Johannes Hunink (Future Water, Spain)

Discussant: Jacint Enrich Moya (Toulouse School of Economics, France)

Paper: *Land Fragmentation, Land Consolidation and Agricultural Productivity: Evidence from France*

Presenter: Jacint Enrich Moya (Toulouse School of Economics, France)

Co-author: Sylvain Chabe-Ferret (Toulouse School of Economics, France)

Discussant: Yolanda Martinez (University of Zaragoza, Spain)

Paper: *Bioeconomic model for optimal control of the invasive weed *Zea mays* subsp. (*teosinte*) in Spain*

Presenter: Yolanda Martinez (University of Zaragoza, Spain)

Co-authors: Alicia Cirujeda (University of Zaragoza, Spain), Miguel I. Gómez (Cornell University, United States), Ana I. Mari (University of Zaragoza, Spain) and Gabriel Pardo (University of Zaragoza, Spain)

Discussant: David García-León (Fondazione Eni Enrico Mattei, Italy)

18:00 to 19:00 Prizes and Closing (Conference Hall)

Carmen Arguedas (Chair of the Scientific Committee)

Francisco André (Chair of the Scientific Committee)

Alejandro Caparrós (Director, Centro de Ciencias Humanas y Sociales-CSIC)

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