



## Conference Programme



# IAERE

Italian Association of Environmental  
and Resource Economists

Fourth Annual Conference  
11<sup>th</sup>-12<sup>th</sup> February 2016, Bologna

University of Bologna, Department of Economics



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA  
DIPARTIMENTO DI SCIENZE ECONOMICHE

**HERA S.p.A.**



**The Conference has been made possible thanks to the generous contribution of**



ALMA MATER STUDIORUM  
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DIPARTIMENTO DI SCIENZE ECONOMICHE

**and with the support of**

**HERA S.p.A.**



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## Welcome to IAERE/2016

Dear Participant,

it is a great pleasure for us to welcome you to Bologna for the Fourth Annual Conference of the Italian Association of Environmental and Resource Economists, hosted by the Department of Economics of the Alma Mater Studiorum - University of Bologna. The Conference takes place at the Department of Economics (Piazza Scaravilli 2).

Our programme is rich: 12 parallel sessions will introduce the 59 accepted papers out of the about 110 submitted. All were of high quality, which resulted in a very competitive and challenging selection process.

We are also particularly glad to present two very distinguished keynote speakers: Jeroen van den Bergh (Institute of Environmental Science & Technology of Universitat Autònoma de Barcelona) and Matthieu Glachant (Cerna, Centre d'Economie Industrielle MINES ParisTech).

Our programme includes also a Plenary Policy Session on "Green Fiscal Reform and abolition of environmentally harmful subsidies: what possible actions for Italian and European environmental policy?". Carlo Carraro, Edoardo Croci, Alberto Majocchi, and Massimiliano Mazzanti will participate in this session that is chaired by Aldo Ravazzi Douvan.

The General Assembly of IAERE Members will take place on Friday morning at the beginning of the second day. We warmly encourage you to participate and let your opinions and suggestions be heard.

In addition to a stimulating scientific programme, we have organized a social programme that we hope will facilitate reciprocal acquaintance and debate in a more informal environment. We invite you to join us at the Conference Dinner on Thursday evening and enjoy with us the Conference Social Event - a guided tour of the Basilica di Santo Stefano.

This Conference has been made possible by the organizational and financial support of the University of Bologna, the Department of Economics, and the generous contribution of Automobili Lamborghini SpA and Hera SpA.

Special thanks are due to all those who have contributed to this event by providing logistical, organizational and technical assistance before and during the event.

We hope you will appreciate the programme and the presentations and take this great opportunity to meet and exchange ideas with other IAERE fellows.

Thank you for your participation.

*The Organizing Committee*

Anna Montini (chair)

Rainer Andergassen

Giacomo Calzolari

Luca Lambertini

Andrea Mantovani

## About IAERE

The Italian Association of Environmental and Resource Economists (IAERE) is a national scientific association which aims:

- to contribute to the development and application of environmental and resource economics as a science in Italy;
- to encourage and improve communication between teachers, researchers and students in environmental and resource economics;
- to develop and encourage the cooperation between university level teaching institutions and research institutions in Italy;
- to make available to institutions research results and encourage their application;
- to develop and encourage cooperation among companies, trade unions and environmental NGOs.

The Association accomplishes its aims mainly by organizing conferences, meetings, panels. The main Association's activity is its Annual Conference series, inaugurated in 2013.

IAERE's website serves as platform for exchange regarding events, open positions and other useful information in the field of Environmental and Resource Economics in Italy and beyond.

IAERE was founded in 2012, and is based in Venice. Its members are mainly from Italy, from academic institutions, the public sector, and the private industry.

Membership is open to individuals who by their profession, training and/or function are involved in environmental and resource economics as a science, and to institutions which operate in fields connected with the aims of the Association.

IAERE website: [www.iaere.org](http://www.iaere.org)

## IAERE Young Environmental Economist Award

This year the Association is inaugurating the IAERE Young Environmental Economist Award, a recognition given to the best paper presented by a young economist at the Annual Conference.

With this Award the Association aims to reward new ideas addressing key environmental and resource economic issues at the national, European and global scale. Both theoretical and empirical papers will be considered without any restriction of topics.

Eligible candidates are less than 33 years of age and no more than five years past a PhD defence, should they have a PhD.

There is a monetary reward of €1,000 for the presenter of the winning paper.

The Selection Committee comprises the Conference Programme Committee and the IAERE Council, and is co-chaired by the IAERE President and the chair of the Conference Programme Committee.

**The Award winner will be announced at the Award and Closing Ceremony, to be held on Friday, February 12<sup>th</sup> at 13.15, at Aula Magna.**

## Committees

### Programme Committee

Anna Montini (chair), University of Bologna and SEEDS  
Rainer Andergassen, University of Bologna  
Giacomo Calzolari, University of Bologna  
Simone Borghesi, University of Siena  
Alessio D'Amato, University of Rome Tor Vergata and SEEDS  
Giovanni Guidetti, University of Bologna  
Luca Lambertini, University of Bologna  
Riccardo Leoncini, University of Bologna

Susanna Mancinelli, University of Ferrara  
Andrea Mantovani, University of Bologna  
Massimiliano Mazzanti, University of Ferrara and SEEDS  
Francesco Nicolli, IrCRes-CNR  
Laura Vici, University of Bologna  
Cecilia Vergari, University of Bologna  
Fabio Zagonari, University of Bologna  
Mariangela Zoli, University of Rome Tor Vergata

Special thanks to Nicolò Barbieri (University of Ferrara) and Giovanni Marin (IrCRes-CNR).

### Organizing Committee

Anna Montini (chair), University of Bologna and SEEDS  
Rainer Andergassen, University of Bologna

Giacomo Calzolari, University of Bologna  
Luca Lambertini, University of Bologna  
Andrea Mantovani, University of Bologna

### IAERE Young Environmental Economist Award Committee (IAERE Council 2014-2015)

Valentina Bosetti (President), Bocconi University, FEEM and CMCC  
Francesco Bosello, University of Milan, FEEM and CMCC  
Alessio D'Amato, University of Rome Tor Vergata and SEEDS

Cesare Dosi, University of Padova  
Marzio Galeotti, University of Milan  
Massimiliano Mazzanti, University of Ferrara and SEEDS  
Anna Montini, University of Bologna and SEEDS

## IAERE General Assembly of Members

IAERE members are invited to participate in the General Assembly of Members taking place on Friday, February 12th 2016, from 8.45 to 9.45, at Aula Magna.

### Proposed agenda

1. Approval of the minutes of the General Assembly of Members held on February 20th, 2015 in Padova
2. Governance
  - a. Presentation of the Council 2016-2017
  - b. Thanks to leaving council members
  - c. Elections 2017: Nominating Committee
  - d. Board of Auditors: appointment for years 2016 and 2017
  - e. Proposal of Statutes amendment

3. Membership
  - a. Individual and institutional membership profiles 2015 and 2016
  - b. Ratification of members' lists
  - c. Resolution on the loss of the status of member
4. Accounts: final accounts 2015 and preliminary budget 2016 and 2017
5. Calendar of future IAERE events
6. Any other business

## IAERE Institutional members

### Standard Institutional Members

- Fondazione Eni Enrico Mattei (FEEM)
- Institute for Environmental Protections and Research (ISPRA)

### University Institutional Members

- Bocconi University, Centre for Research on Energy and Environmental Economics and Policy (IEFE)
- University of Ferrara, Department of Economics and Management
- University of Milan, Department of Economics and Quantitative Methods
- University of Rome Tor Vergata, Department of Economics and Finance
- Venice International University (VIU)

IAERE is most grateful to Institutional Members for their support.

## General Information

### Registration and information desk

The registration and information desk is open throughout the entire Conference.

### Badges

The name badge given to you when you registered ensures your admission to the Conference. Please make sure you wear it all times. It is important to wear your name badge also the social events your registered to.

### Wi-Fi connection

Wi-Fi connection is available at the Department of Economics on request at the registration desk from February 11<sup>th</sup> to February 12<sup>st</sup> until lunch time. You will receive your user and your password by showing an identity document that proves your identity.

### Programme changes

General announcements, changes and updates to the programme will be displayed at the registration desk.

### Useful Contacts

Conference organisers: [iaere2016@iaere.org](mailto:iaere2016@iaere.org) / IAERE Secretariat: [iaere@iaere.org](mailto:iaere@iaere.org)

Taxis: +39.051.372727 - +39.051.4590

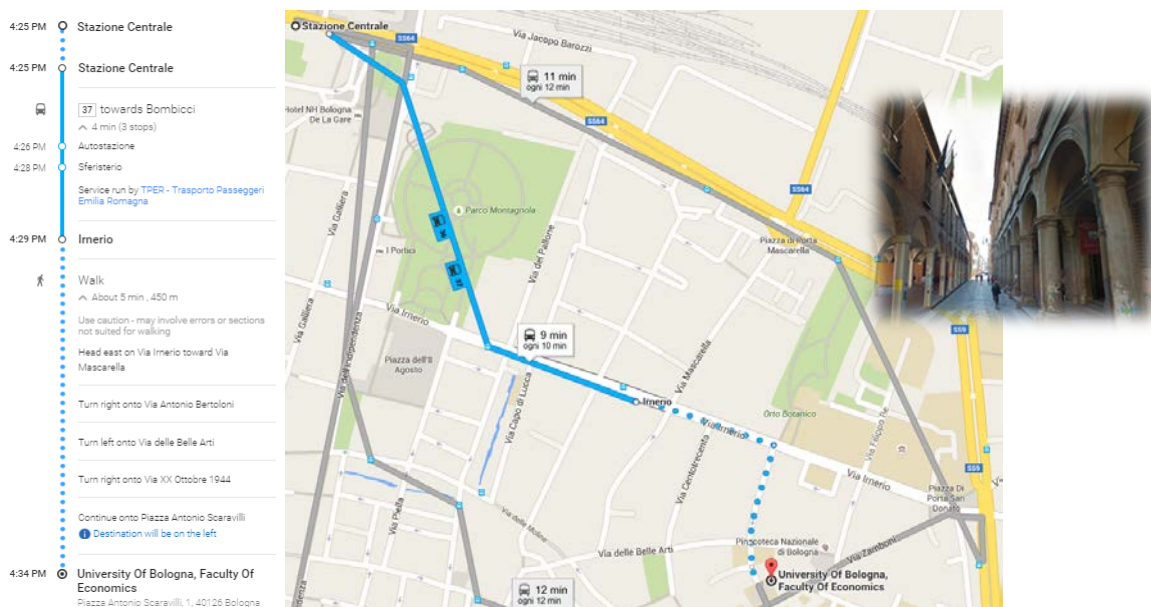
## The Conference venue

The Conference takes place in the Department of Economics, School of Economics, Management and Statistics, Piazza Scaravilli 2, Bologna.

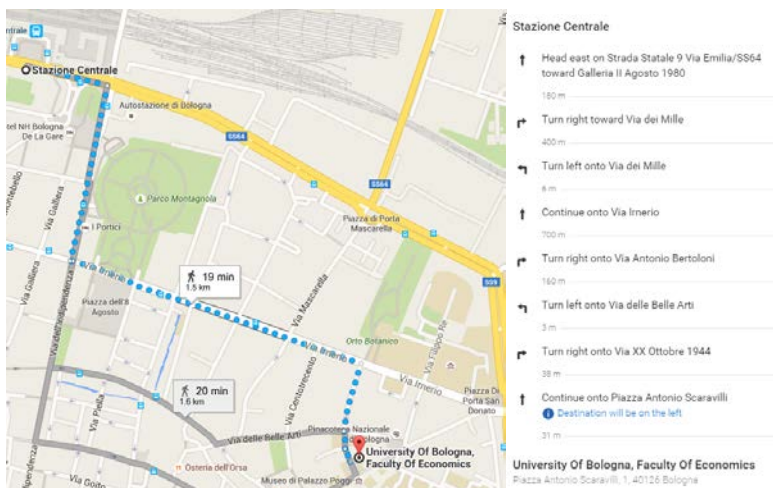
Conveniently located in the city centre, at walking distance from Bologna Railway Station. Buses stop nearby; from the Railway Station to Piazza Scaravilli 2 you can take the bus n. 36 or 37 (every about 10 minutes) getting off at "Imerio" bus stop.

Plenary and Parallel sessions:  
Aula Magna (all the plenary sessions): First Floor  
Rooms 21 and 22: Second Floor  
Rooms 31 and 32: Third Floor

Coffee breaks, Lunches and Tea break will be served in the main hall in front of the Aula Magna.



You can reach the Department of Economics, School of Economics, Management and Statistics also on foot:



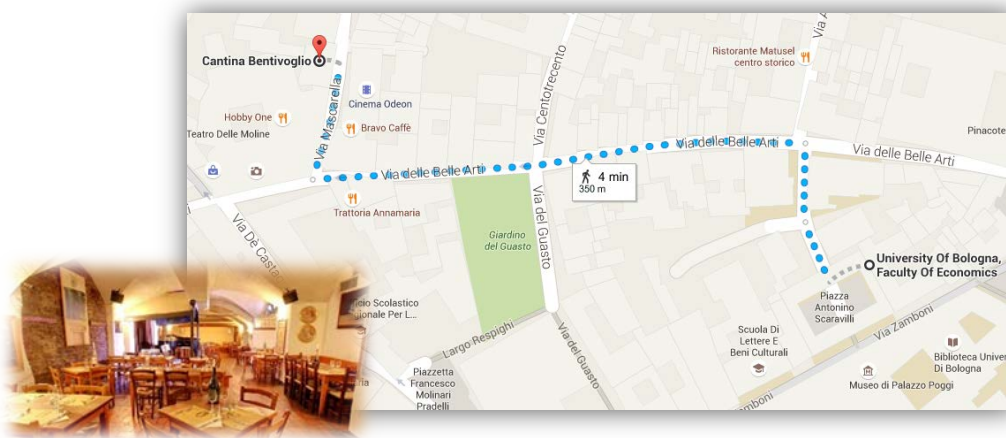


## Social Dinner

The Conference Social Dinner will be held on Thursday the 11th of February at 20.30, at "Cantina Bentivoglio". Just 4-minute walk from the conference venue, the restaurant is located in the center of Bologna.

Those who registered for the Social Dinner are invited to wear the name badge given to participants at the registration desk to ensure admission to the event.

Should you have any dietary restrictions, please kindly inform the Conference Organisation at your earliest convenience.



## Social Event

The conference organisers are delighted to invite the participants to take part to the guided tour of the St. Stefano Basilica on Friday the 12th of February from 14.45 to 16.30.

**Participation is free of charge, but registration is mandatory.** Please confirm your participation by sending an email to the Conference Secretariat at [iaere2016@iaere.org](mailto:iaere2016@iaere.org) or register at the conference registration desk at your arrival at the Conference venue.

Alternative meeting points:

14.45: conference venue

15.00: Piazza Santo Stefano (in front of the Basilica entrance)



## Keynote Lectures



**Matthieu GLACHANT**

Cerna, Centre d'Economie Industrielle MINES ParisTech

***“The economics of corporate sustainability”***

February 12<sup>th</sup>, 9.45 – 10.45, Aula Magna

Matthieu Glachant is head of Cerna – Centre for industrial economics and a professor of economics at MINES ParisTech. He is also a Visiting Professor at the Grantham Research Institute on Climate Change and the Environment at the London School of Economics since 2012. Matthieu holds a PhD in economics from the Ecole des mines in Paris. Before joining MINES ParisTech in 2001, he was Jean Monnet Fellow at the European University Institute. His research is in the fields of environmental economics and energy economics. Specific areas of expertise include the economics of green innovation, the economics of Corporate Social Responsibility, waste policies, and climate change issues.



**Jeroen VAN DEN BERGH**

Institute of Environmental Science & Technology of Universitat Autònoma de Barcelona

***“National and international rebound to motivate climate agreement”***

February 11<sup>th</sup>, 10.15- 11.15, Aula Magna

ICREA Research Professor in the Institute of Environmental Science and Technology (ICTA), Universitat Autònoma de Barcelona (UAB) since September 2007. In addition, he is professor of Environmental and Resource Economics in the Faculty of Economics & Business Administration and the Institute for Environmental Studies, VU University Amsterdam (VUA).

He has more than 170 publications in international journals and wrote/edited 16 books. He was awarded three prizes for articles and a book, and two general environmental science prizes, namely the Royal/Shell Prize 2002 for research on “Sustainable Development, Environment and Resources” the IEC Premi (Sant Jordi) de Medi Ambient 2011. He is editor-in-chief of the Elsevier journal “Environmental Innovation and Societal Transitions” and editor of the Edward Elgar book series “Advances in Ecological Economics”. More than 20 researchers finished a PhD thesis under his guidance.

His research is on the intersection of economics, environmental science and innovation studies. Past work includes dematerialization and recycling, ecological-economic modelling, construction of aggregate indicators, growth-versus-environment, spatial/international aspects of environmental policy and fisheries economics. Work in recent years involves evolutionary economics and environmental innovation, behavioural-environmental economics, and the economics of climate change.

## Plenary Policy Session

### ***“Green Fiscal Reform and abolition of environmentally harmful subsidies: what possible actions for Italian and European environmental policy?”***

February 11<sup>th</sup>, 11.15-12.15, Aula Magna

The panelists will discuss the Environmental Bill ("Collegato Ambientale") connected to the Stability Law 2014 recently approved as "Measures for green economy and resource efficiency".

After the abandonment of the green fiscal reform in the frame of the general tax reform ("Delega Fiscale"), it contains some positive elements.

It requests the Government to introduce a scheme of payments for ecosystem and environmental services; a natural capital commission; a catalogue of environmentally subsidies, both harmful and friendly.

Particular attention will be devoted to the reasons why environmentally harmful subsidies need to be reduced and to their costs and benefits. The government uses subsidies to intervene in many aspects of the economic production process and in decisions by consumer households. In many cases these subsidies give rise to a situation where responsible parties do not bear part of the microeconomic costs of production and consumption, but offload them onto society in general.



**Carlo CARRARO**

Ca' Foscari University of Venice, Fondazione Eni Enrico Mattei (FEEM) and Euro-Mediterranean Center on Climate Change (CMCC)



**Edoardo CROCI**

IEFE, Bocconi University



**Alberto MAJOCCHI**

University of Pavia



**Massimiliano MAZZANTI**

University of Ferrara and SEEDS-Interuniversity Research Centre, IAERE President



Chair:

**Aldo RAVAZZI DOUVAN**

Italian Ministry of Environment and Green Budget Europe

## **Instructions for presenters and chairs**

### **Presenters**

A lap-top and a beamer will be available in each room for presentations.

We assume that these devices will be used by presenters for their PowerPoint or LaTeX presentation, which can be brought along on a USB memory device. To avoid loss of time, hooking up of personal lap-tops is discouraged.

Presenters are invited to the room 10 minutes prior to the start of the session, so that presentations can be uploaded onto the lap-top before the session starts.

Average time available for each presentation, including chairs' and general discussion, is around 20 minutes. The suggested time allocation is: 15 minutes for presentation, 5 minutes for discussion.

Presentations will be carried out either in Italian or English, depending on the audience.

### **Chairs**

Chairs are invited to go to the room 10 minutes prior to the start of the session. They introduce the session and the speakers and make sure that the time available is divided equally over the papers to be presented.

Average time available for each presentation, including chairs' and general discussion, is around 20 minutes. The suggested time allocation is: 15 minutes for presentation, 5 minutes for discussion. Chairs are invited to use any residual time for allowing further discussion from the floor.

Presentations will be carried out either in Italian or English, depending on the audience.

Moreover, chairs are kindly invited to briefly introduce and guide the discussion with the floor following each presentation and at the end of the session.

## Programme

### FEBRUARY 11th 2016 – THURSDAY

08:30 - 09.45	<b>REGISTRATIONS</b>	
9:45 - 10:15	<p><b>OPENING CEREMONY</b></p> <p><b>Barbara DEGANI</b>, Under Secretary of State for the Italian Ministry for the Environment, Land and Sea</p> <p><b>Antonino ROTOLO</b>, Vice Rector for Research, Alma Mater Studiorum - University of Bologna</p> <p><b>Stefano CENNI</b>, Dean of the School of Economics, Management and Statistics, Alma Mater Studiorum - University of Bologna</p> <p><b>Giorgio BELLETTINI</b>, Director of the Department of Economics, Alma Mater Studiorum - University of Bologna</p> <p><b>Massimiliano MAZZANTI</b>, IAERE President, University of Ferrara and SEEDS-Interuniversity Research Centre</p> <p><b>Anna MONTINI</b>, chair of the Conference Organizing Committee, Department of Economics, Alma Mater Studiorum - University of Bologna and SEEDS-Interuniversity Research Centre</p>	<b>Aula Magna</b>
10:15 - 11:15	<p><b>KEYNOTE LECTURE 1</b></p> <p><b>National and international rebound to motivate climate agreement</b></p> <p><b>Jeroen VAN DEN BERGH</b>, Institute of Environmental Science &amp; Technology of Universitat Autònoma de Barcelona</p> <p>Chair: Valentina BOSETTI, Bocconi University, Fondazione Eni Enrico Mattei (FEEM) and Euro-Mediterranean Center on Climate Change (CMCC)</p>	<b>Aula Magna</b>
11:15 - 12:15	<p><b>PLENARY POLICY SESSION</b></p> <p><b>Green Fiscal Reform and abolition of environmentally harmful subsidies: what possible actions for Italian and European environmental policy?</b></p> <p><b>Carlo CARRARO</b>, Ca' Foscari University of Venice, Fondazione Eni Enrico Mattei (FEEM) and Euro-Mediterranean Center on Climate Change (CMCC)</p> <p><b>Edoardo CROCI</b>, IEFÉ, Bocconi University</p> <p><b>Alberto MAJOCCHI</b>, University of Pavia</p> <p><b>Massimiliano MAZZANTI</b>, University of Ferrara, SEEDS-Interuniversity Research Centre and IAERE President</p> <p>Chair: Aldo RAVAZZI DOUVAN, Italian Ministry of Environment and Green Budget Europe</p>	<b>Aula Magna</b>
12:15 - 14.00	<b>LUNCH</b>	

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14:00 - 16:00      **PARALLEL SESSIONS 1**

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14:00 - 16:00      **Climate change, uncertainty and experiments**

**Room 21**

Chair: Simone BORGHESI, University of Siena

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**Building Uncertainty into the Adaptation Cost Estimation in Integrated Assessment Models**

Francesco BOSELLO: University of Milan, Fondazione Eni Enrico Mattei (FEEM) and Euro-Mediterranean Center on Climate Change (CMCC)

Co-Authors: Anil Markandya, Enrica De Cian, Laurent Drouet, Josue Polanco

**Private investment with social benefits under uncertainty: the dark side of public financing**

Marco BUSO: University of Padova, Ief - INRA

Co-Authors: Giuseppe Attanasi, Kene Boun My, Anne Stenger

**Monetary Policy and Environmental Regulation**

Pierfrancesco MOLINA: Sapienza University of Rome

**A Bargaining Experiment on Side Deals among Heterogeneous Countries in Climate Negotiations**

Alessandro TAVONI: London School of Economics, Grantham Research Institute

Co-Author: Greer Gosnell

**Cooperation and Climate Change: a Dynamic Experiment**

Riccardo GHIDONI: Tilburg University

Co-Authors: Giacomo Calzolari, Marco Casari

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14:00 - 16:00      **Climate change and agriculture**

**Room 22**

Chair: Silvana DALMAZZONE, University of Turin

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**Measuring environmental efficiency of agricultural sector: a comparison between EU countries**

Fabio BARTOLINI: University of Pisa

Co-Authors: Coli Alessandra, Magrini Alessandro, Pacini Barbara

**The Effects of Climatology, Climate Shocks and Weather on Maize Intensification and Income Vulnerability in Kenya**

Martina BOZZOLA: European University Institute

Co-Authors: Melinda Smale, Salvatore Di Falco

**Sowing climate change: turning crops into carbon credits**

Luca DI CORATO: Swedish University of Agricultural Sciences

**A Choice Experiment Study on the Farmers' Attitudes toward Biogas and Waste Reuse in a Nitrates Vulnerable Zone**

Elisabetta STRAZZERA: University of Cagliari

Co-Authors: Vania Statzu, Laura Bonu

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14:00 - 16:00      **Environmental Policy and Policy instruments I**  
Chair: Marzio GALEOTTI, University of Milan

**Room 31**

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**The Covenant of Mayors Actions to Reduce CO2 Emissions: an Investigation on 124 European Cities**

Edoardo CROCI: IEFE, Bocconi University

Co-Authors: Benedetta Lucchitta, Greet Janssens-Maenhout, Simone Martelli, Tania Molteni

**Pork Barrel as a Signaling Tool: The Case of US Environmental Policy**

Helia COSTA: Grantham Research Institute and LSE Cities, London School of Economics

**Environmental Policy and the Business Cycle: The Role of Adjustment Costs on Abatement**

Francesca DILUIISO: University of Rome Tor Vergata

**Supporting the UN SDGs transition: methodology for sustainability assessment and current worldwide ranking**

Fabio EBOLI: Fondazione Eni Enrico Mattei (FEEM) and Euro-Mediterranean Center on Climate Change (CMCC)

Co-Authors: Lorenza Campagnolo, Carlo Carraro, Luca Farnia

**Energy, Trade and Innovation: the Tragedy of the Locals**

Chiara RAVETTI: University of Oxford

Co-Authors: Giulia Valacchi, Tania Theoduloz

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14:00 - 16:00      **Behaviours and preferences towards the environment**

**Room 32**

Chair: Anna MONTINI, University of Bologna and SEEDS-Interuniversity Research Centre

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**Nudging at the beach: the effect of nudges on marine litter**

Gionata CASTALDI: University of Rome Tor Vergata and MATTM - SOGESID

Co-Authors: Grazia Cecere, Mariangela Zoli

**Behavioural attitudes towards Waste prevention and recycling**

Marianna GILLI: University of Ferrara and SEEDS-Interuniversity Research Centre

Co-Authors: Paola Farinelli, Francesco Nicolli

**Willingness to pay to reduce emissions of domestic heating system: a choice experiment for Italy**

Francesco MARANGON, University of Udine

Co-Authors: Tiziano Tempesta, Stefania Troiano, Daniel Vecchiato

**Baseline Risk and Marginal Willingness to Pay for Health Risk Reduction**

Marcella VERONESI: University of Verona and ETH Zurich

Co-Authors: Shelby Gerking, Wiktor Adamowicz, Mark Dickie

**An empirical investigation of illegal waste in England**

Alessio D'AMATO: University of Rome Tor Vergata and SEEDS-Interuniversity Research Centre

Co-Authors: Gionata Castaldi, Mariangela Zoli

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16:00 - 16:30      **COFFEE BREAK**

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16:30 - 18:30      **PARALLEL SESSIONS 2**

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16:30 - 18:30      **Energy and the Environment**

**Room 21**

Chair: Edilio VALENTINI, University G. d'Annunzio di Chieti-Pescara

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**Including System Integration of Variable Renewable Energies in a Constant Elasticity of Substitution Framework: the Case of the WITCH Model**

Samuel CARRARA: Fondazione Eni Enrico Mattei (FEEM)

Co-Author: Giacomo Marangoni

**Measuring Environmental Policy Stringency: Approaches, Validity, and Impact on Energy Efficiency**

Marzio GALEOTTI: University of Milan

Co-Authors: Elena Verdolini, Silvia Salini

**Renewable energy intermittency and its impact on thermal generation**

Christoph GRAF: European University Institute

Co-Author: Claudio Marcantonini

**Information, Random Regret Minimisation, Random Utility Maximisation: Willingness to pay for Renewable Energy**

Alberto LONGO: Queen's University Belfast

Co-Author: Marco Boeri

**Rebound Effects in Europe**

Michele MALPEDE: Fondazione Eni Enrico Mattei (FEEM)

Co-Author: Elena Verdolini

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16:30 - 18:30      **Environmental regulation: macro and micro effects –  
environmental accounting**

**Room 22**

Chair: Francesco BOSELLO, University of Milan, Fondazione Eni Enrico Mattei (FEEM) and Euro-Mediterranean Center on Climate Change (CMCC)

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**Does environmental regulation drive the direction of technological change?**

Enrico BOTTA: University of Milan

**Ownership, environmental regulation and environmental quality in developed countries**

Stefano CLÒ: University of Milan

Co-Authors: Massimo Florio, Matteo Ferraris

**The role played by uncertainty of GHG emissions in transport policy analysis. The case of Piedmont region in assessing direct and indirect emissions**

Alessandra LA NOTTE: IUAV – University of Venice

Co-Authors: Greti Lucaroni, Stefania Tonin, Silvio Nocera



**Value added and job creation: an ex-post assessment of the Italian support to RES**

Federica PONTONI: IEFE – Bocconi University

Co-Authors: Mattia Cai, Niccolò Cusumano, Arturo Lorenzoni.

**The treatment of emission permits under EU ETS in National Accounts and Environmental Accounts**

Emanuela RECCHINI: Italian National Statistical Institute (ISTAT)

Co-Authors: Susanna Riccioni, Luisa Sciandra

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16:30 - 18:30      **Firms and the Environment**

**Room 31**

Chair: Andrea MANTOVANI, University of Bologna

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**Governing offshoring in an environmental stringency setting: evidence from Italian manufacturing firms**

Roberto ANTONIETTI: University of Padua

Co-Authors: Valentina De Marchi, Eleonora di Maria

**Eco-innovations and firms' market value: a micro-econometric analysis of European data**

Claudia GHISSETTI: University of Ferrara and SEEDS-Interuniversity Research Centre

Co-Authors: Alessandra Colombelli, Francesco Quatraro

**Do companies gain from environmental disclosure? Evidence from CDP announcements in the stock markets**

Valeria MICELI: Catholic University of Milan

Co-Authors: Giovanni Marin, Roberto Zoboli

**Forms of knowledge and eco-innovation modes: Evidence from Spanish manufacturing firms**

Sandro MONTRESOR: Kore University of Enna

Co-Author: Alberto Marzucchi

**Environmental Management System, Spillovers and Market Competition**

Alessandro TAMPIERI: Université du Luxembourg

Co-Author: Michael Kopel

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16:30 - 18:30      **Climate change, policies and socio-economic impact I**

**Room 32**

Chair: Alessio D'AMATO, University of Rome Tor Vergata and SEEDS-Interuniversity Research Centre

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**The Migration Response to Increasing Temperatures**

Cristina CATTANEO: Fondazione Eni Enrico Mattei (FEEM) and Euro-Mediterranean Center on Climate Change (CMCC)

Co-Author: Giovanni Peri

**The Health Burden of Climate Change in US: Evidence from Influenza-Like-Illness**

Shouro DASGUPTA: Ca' Foscari University of Venice, Fondazione Eni Enrico Mattei (FEEM) and Euro-Mediterranean Center on Climate Change (CMCC)

Co-Authors: Ian Sue Wing, Ari Stern

**Into Hot Water? The Impact of Climate Change on Mediterranean Aquaculture**

Vito FRONTUTO: University of Torino

Co-Authors: Silvana Dalmazzone, Valeria Montalto, Lidia Primiani, Gianluca Sara

**The global carbon budget: a conflicting claims problem**

Jordi TEIXIDO-FIGUERAS: European University Institute

Co-Authors: Jose Manuel Gimenez-Gomez- Cori Vilella

**An Evolutionary approach to International Environmental Agreements**

Tiziano DISTEFANO: IMT Institute for Advanced Studies, Lucca and University of Pisa

Co-Author: Simone D'Alessandro

**Endogenous Technology and Environmental Policy for a Circular Economy**

Francesco NICOLLI: IrCRes - CNR

Co-Authors: Alessio D'Amato, Massimiliano Mazzanti

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20:30 - 22:30

**SOCIAL DINNER – Cantina Bentivoglio**

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## FEBRUARY 12th 2016 – FRIDAY

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08:30 - 9:45      **REGISTRATIONS**

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08:45 – 09:45      **IAERE GENERAL ASSEMBLY OF MEMBERS**      **Aula Magna**

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09:45-10:45      **KEYNOTE LECTURE 2**      **Aula Magna**  
**The Economics of Corporate Sustainability**  
**Mathieu GLACHANT**, Cerna, Centre d'Economie Industrielle MINES ParisTech  
Chair: Simone BORGHESI, University of Siena

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10:45 - 11:15      **COFFEE BREAK**

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11:15 - 13:15      **PARALLEL SESSIONS 3**

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11:15 - 13:15      **Water management and analysis**      **Room 21**  
Chair: Giovanni MARIN, IrCRes - CNR

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**Water resource use and conflict in a two-sector evolutionary model**

Simone BORGHESI: University of Siena  
Co-Authors: Angelo Antoci, Mauro Sodini

**Simulating the Macroeconomic Impact of Future Water Scarcity**

Roberto ROSON: Ca' Foscari University of Venice  
Co-Author: Richard Damania

**Connected we stand: A network perspective on trade and global food security**

Martina SARTORI: University of Trento  
Co-Author: Stefano Schiavo

**Integrating Structural Decomposition Analysis with Network Theory. The Blue Water case study**

Giovanni MARIN: IrCRes - CNR  
Co-Authors: Tiziano Distefano, Massimo Riccaboni

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11:15 - 13:15      **Energy-efficiency, clean technologies adoption**      **Room 22**  
Chair: Francesco NICOLLI, IrCRes - CNR

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**Variation, selection and retention patterns in technological knowledge evolution: the case of electric and hybrid vehicles**

Nicolò BARBIERI: University of Ferrara

**Real time feedback on electricity consumption: a case study in Italy**

Giacomo MARANGONI: Fondazione Eni Enrico Mattei (FEEM), Euro-Mediterranean Center on Climate Change (CMCC), and Polytechnic of Milan  
Co-Author: Massimo Tavoni

**Technology invention and diffusion in residential energy consumption. A stochastic frontier approach**

Alessandro PALMA: Bocconi University  
Co-Author: Giovanni Marin

**Switch off the light, please! Energy consumption, aging population and consumption habits**

Maria Grazia PAZIENZA: University of Florence  
Co-Author: Rossella Bardazzi

**Intra-EU knowledge flows in the renewable energy sector: a patent citation analysis**

Roberta SESTINI: Sapienza University of Rome  
Co-Authors: Chiara Conti, Maria Luisa Mancusi, Francesca Sanna-Randaccio, Roberta Sestini, Elena Verdolini

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11:15 - 13:15      **Climate change, policies and socio-economic impact II**      **Room 31**  
Chair: Claudia GHISSETTI, University of Ferrara and SEEDS-Interuniversity Research Centre

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**A Dynamic Analysis on the Conditional Variance of Cross-Country CO2 Emissions**

Thomas BASSETTI: University of Padua  
Co-Author: Giulio Cainelli

**The cost of climate stabilization in Southeast Asia, a joint assessment with dynamic optimization and CGE models**

Carlo ORECCHIA: Fondazione Eni Enrico Mattei (FEEM), Euro-Mediterranean Center on Climate Change (CMCC) and MATTM - SOGESID  
Co-Authors: Francesco Bosello, Giacomo Marangoni, David Raitzer, Massimo Tavoni

**EU2030 climate policy: optimal timing, overlapping instruments and cost effectiveness**

Elena PAGLIALUNGA: Roma Tre University  
Co-Author: Valeria Costantini

**Sensitivity of Modeling Results to Technological and Regional Details: The Case of Italy's Carbon Mitigation Policy**

Gabriele STANDARDI: Fondazione Eni Enrico Mattei (FEEM)  
Co-Authors: Yiyong Cai and Sonia Yeh

**The possibility to learn from a Natural Disaster: An Empirical Analysis**

Andrea RAMPA: University of Rome Tor Vergata  
Co-Author: Alessio D'Amato

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11:15 - 13:15      **Environmental policy and policy instruments II**      **Room 32**  
Chair: Roberto ZOBOLI, Catholic University, Milan and SEEDS-Interuniversity Research Centre

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**The Italian Green Act and Green Fiscal Reform between climate change, resource efficiency and circular economy**

Aldo RAVAZZI DOUVAN: Italian Ministry of Environment - Green Budget Europe

**Environmental fiscal reform and transition to a green economy**

Stephan SPECK: European Environment Agency

**Demand System Analysis for Italian Households: Elasticities and Welfare Effects of RES-E Incentives**

Elena VERDOLINI: Fondazione Eni Enrico Mattei (FEEM)

Co-Authors: Roberta Distante, Massimo Tavoni

**EU ETS Facets in the Net: How Account Types Influence the Structure of the System**

Andrea FLORI: IMT Institute for Advanced Studies, Lucca

Co-Author: Simone Borghesi

**Emissions Trading, Price Floors and Clean Technologies**

Edilio VALENTINI: University G. d'Annunzio of Chieti-Pescara

Co-Author: Paolo Casini

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13:15 - 13:30      **AWARD and CLOSING CEREMONY**      **Aula Magna**

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13:30 - 14:45      **LUNCH**

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14:45 - 15:00      **TRANSFER TO Piazza Santo Stefano**

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15:00 - 16:30      **SOCIAL EVENT – Visit to the Basilica di Santo Stefano**

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## Presenters' list

### KEYNOTE LECTURES

**Matthieu GLACHANT:** Cerna, Centre d'Economie Industrielle MINES ParisTech

**Jeroen VAN DEN BERGH:** Institute of Environmental Science & Technology of Universitat Autònoma de Barcelona

### PLENARY POLICY SESSION

**Carlo CARRARO:** Ca' Foscari University of Venice, Fondazione Eni Enrico Mattei (FEEM) and Euro-Mediterranean Center on Climate Change (CMCC)

**Edoardo CROCI:** IEFE, Bocconi University

**Alberto MAJOCCHI:** University of Pavia

**Massimiliano MAZZANTI:** University of Ferrara and SEEDS-Interuniversity Research Centre, IAERE President

**Chair: Aldo RAVAZZI DOUVAN:** Italian Ministry of Environment - Green Budget Europe

### PARALLEL SESSIONS

**Roberto ANTONIETTI:** University of Padua

**Nicolò BARBIERI:** University of Ferrara

**Fabio BARTOLINI:** University of Pisa

**Thomas BASSETTI:** University of Padua

**Simone BORGHESI:** University of Siena

**Francesco BOSELLO:** University of Milan, Fondazione Eni Enrico Mattei (FEEM) and Euro-Mediterranean Center on Climate Change (CMCC)

**Enrico BOTTA:** University of Milan

**Martina BOZZOLA:** European University Institute

**Marco BUSO:** University of Padova, Ief - INRA

**Samuel CARRARA:** Fondazione Eni Enrico Mattei (FEEM)

**Gionata CASTALDI:** University of Rome Tor Vergata and MATTM - SOGESID

**Cristina CATTANEO:** Fondazione Eni Enrico Mattei (FEEM) and Euro-Mediterranean Center on Climate Change (CMCC)

**Stefano CLÒ:** University of Milan

**Helia COSTA:** Grantham Research Institute and LSE Cities, London School of Economics

**Edoardo CROCI:** IEFE, Bocconi University

**Shouro DASGUPTA:** Ca' Foscari University of Venice, Fondazione Eni Enrico Mattei (FEEM) and Euro-Mediterranean Center on Climate Change (CMCC)

**Luca DI CORATO:** Swedish University of Agricultural Sciences

**Alessio D'AMATO:** University of Rome Tor Vergata and SEEDS-Interuniversity Research Centre

**Francesca DILUIISO:** University of Rome Tor Vergata

**Tiziano DISTEFANO:** IMT Institute for Advanced Studies, Lucca and University of Pisa

**Fabio EBOLI:** Fondazione Eni Enrico Mattei (FEEM) and Euro-Mediterranean Center on Climate Change (CMCC)

**Andrea FLORI:** IMT Institute for Advanced Studies, Lucca

**Vito FRONTUTO:** University of Torino

**Marzio GALEOTTI:** University of Milan

**Riccardo GHIDONI:** Tilburg University

**Claudia GHISSETTI:** University of Ferrara and SEEDS-Interuniversity Research Centre

**Marianna GILLI:** University of Ferrara and SEEDS-Interuniversity Research Centre

**Christoph GRAF:** European University Institute

**Alessandra LA NOTTE:** IUAV – University of Venice

**Alberto LONGO:** Queen's University Belfast

**Michele MALPEDE:** Fondazione Eni Enrico Mattei (FEEM)  
**Francesco MARANGON:** University of Udine  
**Giacomo MARANGONI:** Fondazione Eni Enrico Mattei (FEEM), Euro-Mediterranean Center on Climate Change (CMCC), and Polytechnic of Milan  
**Giovanni MARIN:** IrCRes - CNR  
**Valeria MICELI:** Catholic University of Milan  
**Pierfrancesco MOLINA:** Sapienza University of Rome  
**Sandro MONTRESOR:** Kore University of Enna  
**Francesco NICOLLI:** IrCRes - CNR  
**Carlo ORECCHIA:** Fondazione Eni Enrico Mattei (FEEM), Euro-Mediterranean Center on Climate Change (CMCC) and MATTM - SOGESID  
**Elena PAGLIALUNGA:** Roma Tre University  
**Alessandro PALMA:** Bocconi University  
**Maria Grazia PAZIENZA:** University of Florence  
**Federica PONTONI:** IEFE – Bocconi University  
**Andrea RAMPA:** University of Rome Tor Vergata  
**Aldo RAVAZZI DOUVAN:** Italian Ministry of Environment - Green Budget Europe  
**Chiara RAVETTI:** University of Oxford  
**Emanuela RECCHINI:** Italian National Statistical Institute (ISTAT)  
**Roberto ROSON:** Ca' Foscari University of Venice  
**Martina SARTORI:** University of Trento  
**Roberta SESTINI:** Sapienza University of Rome  
**Stephan SPECK:** European Environment Agency  
**Gabriele STANDARDI:** Fondazione Eni Enrico Mattei (FEEM)  
**Elisabetta STRAZZERA:** University of Cagliari  
**Alessandro TAMPIERI:** Université du Luxembourg  
**Alessandro TAVONI:** London School of Economics, Grantham Research Institute  
**Jordi TEIXIDO-FIGUERAS:** European University Institute  
**Edilio VALENTINI:** University G. d'Annunzio of Chieti-Pescara  
**Elena VERDOLINI:** Fondazione Eni Enrico Mattei (FEEM)  
**Marcella VERONESI:** University of Verona and ETH Zurich











11th February - THURSDAY		12th February - FRIDAY	
8.30-9.45 Registrations		8.30-9.45 Registrations	8.45-9.45 IAERE General Assembly of Members Aula Magna
9.45-10.15 Opening Ceremony Aula Magna		9.45-10.45 Keynote Lecture - Aula Magna Matthieu GLACHANT <i>The economics of corporate sustainability</i>	
10.15-11.15 Keynote Lecture - Aula Magna Jeroen VAN DEN BERGH <i>National and international rebound to motivate climate agreement</i>		10.45-11.15 Coffee break	
11.15-12.15 Plenary Policy Session - Aula Magna <i>Green Fiscal Reform and abolition of environmentally harmful subsidies: what possible actions for Italian and European environmental policy?</i>		11.15-13.15 Parallel sessions 3	
		Water Management and Analysis	Room 21
		Energy-efficiency, clean technologies adoption	Room 22
		Climate change, policies and socio-economic impact II	Room 31
		Environmental policy and policy instruments II	Room 32
12.15-14.00 Lunch		13.15-13.30 Award and Closing Ceremony - Aula Magna	
14.00-16.00 Parallel sessions 1		13.30-14.45 Lunch	
Climate change, uncertainty and experiments	Room 21		
Climate change and agriculture	Room 22		
Environmental Policy and Policy instruments I	Room 31		
Behaviours and preferences towards the environment	Room 32		
16.00-16:30 Coffee break		14.45 - 16:30 Social event Basilica di Santo Stefano (Sette Chiese)	
16.30-18.30 Parallel sessions 2			
Energy and the Environment	Room 21		
Environmental regulation: macro and micro effects – environmental accounting	Room 22		
Firms and the Environment	Room 31		
Climate change, policies and socio-economic impact I	Room 32		
20.30-22.30 Social Dinner Cantina Bentivoglio			