

Preliminary Programme



IAERE

Italian Association of Environmental
and Resource Economists

Eighth Annual Conference

6th-7th February 2020, Brescia

University of Brescia, Department of Economics and Management



UNIVERSITÀ
DEGLI STUDI
DI BRESCIA

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Last update: 04 February 2020

Committees

ORGANISING COMMITTEE

Sergio Vergalli (University of Brescia and
Fondazione Eni Enrico Mattei) – Chair
Simone Borghesi (University of Siena)
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Elena Verdolini (University of Brescia)

PROGRAMME COMMITTEE

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Massimiliano Mazzanti (University of Ferrara)
Michele Moretto (University of Padova)
Giorgia Oggioni (University of Brescia)
Aldo Ravazzi Douvan (Italian Ministry of
Environment - TA Sogesid - GBE - U. Rome "Tor
Vergata")
Roberto Roson (Ca' Foscari University of Venice)
Elisabetta Strazzera (University of Cagliari)
Marcella Veronesi (University of Verona)
Mariangela Zoli (University of Rome "Tor
Vergata")

Useful information

IAERE2020 Telegram Channel



A IAERE2020 private channel has
been created on Telegram to
allow the participants to receive
notification in real time.

Join it at: <https://bit.ly/2FLhDyX>

Wi-Fi

Wi-Fi connection will be made available to
Conference participants through the facilities of
University of Brescia.

The details will be valid for the entire Conference
duration.

Programme Overview

Thu 6 Feb	
8:30–9:00 Registrations	
9:00–9:30 Opening ceremony	⊙
9:30–10:30 KEYNOTE LECTURE Christian GOLLIER	⊙
10:30–11:00 - <i>Coffee break</i>	⊙
11:00–13:00 PARALLEL SESSIONS 1	
Special Session: Energy transition and decarbonization I	○
Environmental policy under risk and uncertainty	②
Policy Instruments and Implementation	③
Environmental valuation, accounting and economic performances	④
Special session: Agriculture and environment I	⑤
Energy, oil and gas markets	②
13:00 – 14:30 <i>Lunch</i>	⊙
14:30–15:30 IAERE General Assembly of Members	⊙
15:30 – 15:40 - <i>Coffee break</i>	⊙
15:40 – 17:40 PARALLEL SESSIONS 2	
Special Session: Energy transition and decarbonization II	○
Environment, game theory and experiments	②
Waste management and policies	③
Water and ecosystem services	④
Special session: Agriculture and environment II	⑤
Climate change and economic impact	②
18:00 – 20:00 Social Event Santa Giulia Museum and Capitolium	
20:00 Social Dinner	

Fri 7 Feb	
8:30–9:00 Registrations	
9:00–11:00 PARALLEL SESSIONS 3	
Special Session: Energy transition and decarbonization I	○
Environmental issues in developing and emerging economies	②
Environmental regulation and innovation	③
Low carbon technologies and sustainable mobility	④
Special session: Agriculture and environment III	⑤
11:00–11:30 <i>Coffee break</i>	⊙
11:30 – 13:30 SIDE EVENT (in Italian) EDUCATION AND RESEARCH FOR SUSTAINABILITY	
	11:00 – 12:30 POSTER SESSION ⊙
13:30–14:30 <i>Lunch</i>	⊙
14:30–15:30 KEYNOTE LECTURE Geoffrey HEAL	⊙
15:30–16:00 AWARD and CLOSING CEREMONY	⊙

Legenda

- | | |
|-------------------|--------------------|
| ⊙ Auditorium | ⑤ Room D5 |
| ○ Sala Biblioteca | ② Room R2 |
| ② Room D2 | ⊙ Refreshment Area |
| ③ Room D3 | ⊙ Poster Hall |
| ④ Room D4 | |

Preliminary Programme

FEBRUARY 6th, 2020 – THURSDAY

8:30 – 9:00 **REGISTRATIONS**

9:00 – 9:30 **OPENING CEREMONY**

Auditorium
Thu. 6 Feb 2020

Chair: Sergio VERGALLI (IAERE President, University of Brescia and FEEM)
Simone BORGHESI (IAERE Past President, University of Siena and EUI – Italy)

9:30 – 10:30 **KEYNOTE LECTURE**

Auditorium
Thu. 6 Feb. 2020

Christian GOLLIER
Director of the Toulouse School of Economics (France)
The cost-efficiency carbon pricing puzzle
Chair: Sergio VERGALLI (IAERE President, University of Brescia and FEEM)

10:30 – 11:00 **COFFEE BREAK** (Refreshment Area)

11:00 – 13:00 **PARALLEL SESSIONS 1**

Thu. 6 Feb. 2020

11:00 – 13:00 **SPECIAL SESSION: ENERGY TRANSITION AND DECARBONIZATION I**
Real Options, Energy and Environmental Policy

Sala Biblioteca
Thu. 6 Feb. 2020

Chair: Peter M. KORT (Tilburg University)

Mothballing in a duopoly: Understanding OPEC's market response to the shale oil revolution

Peter M. KORT (Tilburg University) [INVITED SPEAKER]

Co-author(s): Nicola Comincioli, Verena Hagspiel, Sergio Vergalli

Transmission investment under uncertainty: Reconciling private and public incentives

Maria LAVRUTICH (Norwegian University of Science and Technology) [INVITED SPEAKER]

Co-author(s): Verena Hagspiel, Afzal Siddiqui

Investment in a smart grid under uncertainty: the prosumer's perspective

Marta CASTELLINI (University of Brescia and Fondazione Eni Enrico Mattei)

Co-author(s): Luca Di Corato, Michele Moretto, Sergio Vergalli

Electric vehicle adoption decision: A real option approach

Giorgio RIZZINI (University of Brescia)

Co-author(s): Paolo Falbo, Giorgio Ferrari, Maren D. Schmeck

11:00 – 13:00 **ENVIRONMENTAL POLICY UNDER RISK AND UNCERTAINTY**
Chair: Michael DONADELLI (University of Brescia)

Room D2
Thu. 6 Feb. 2020

Leaning against the wind? Carbon bubble, monetary policy and macroprudential regulation

Francesca DILUISO (Mercator Research Institute on Global Commons and Climate Change)

Co-author(s): Barbara Annicchiarico, Matthias Kalkuhl, Jan Minx

Temperature volatility risk: Implications for macro-quantities, welfare and asset prices

Michael DONADELLI (University of Brescia)

Co-author(s): Marcus Juppner, Antonio Paradiso, Christian Schlag, Sergio Vergalli

A Multidimensional visibility nexus between commodity prices co-movements and financial stability

Andrea FLORI (Politecnico di Milano)

Co-author(s): Fabio Pammolli, Alessandro Spelta

Living in an uncertain world: Environment substitution, local and global indeterminacy

Mauro SODINI (University of Pisa)

Co-author(s): Angelo Antoci, Simone Borghesi, Marcello Galeotti

The optimality of continuous cover versus rotation forestry in the presence of fire risk

João VAZ PATO (Nova School of Business and Economics)

Co-author(s): Renato Rosa

11:00 – 13:00 **POLICY INSTRUMENTS AND IMPLEMENTATION**

Chair: Anders SKONHOFT (Norwegian University of Science and Technology)

Room D3
Thu. 6 Feb 2020

The transition of energy markets: a technical and economic comparative approach

Fulvio FONTINI (University of Padova)

Co-author(s): Marina Bertolini, Massimiliano Coppo

Taxation of subsidies to fossil sources in Italy: analysis of the underpricing of natural resources applied to Villafortuna – Trecate

Martina PAVESI (University of Turin)

Co-author(s): Dalmazzone SILVANA

Harvesting efficiency in restricted open-access fisheries and the welfare relevance of maximum sustainable yield

Anders SKONHOFT (Norwegian University of Science and Technology)

Co-author(s): Martin Quaas

Corruption, institutions, and sustainable development: theory and evidence from inclusive wealth

Rintaro YAMAGUCHI (National Institute for Environmental Studies)

An analysis of the effect of a volumetric tariff plan in an Italian irrigation district using the “INVERSE DID” approach

Andrea PRONTI (University of Ferrara)
Co-author(s): Julio Berbel

11:00 – 13:00 **ENVIRONMENTAL VALUATION, ACCOUNTING AND ECONOMIC PERFORMANCES**

Room D4
Thu. 6 Feb. 2020

Chair: Marina BERTOLINI (University of Padova)

Voluntary disclosure of environmental sustainability and firms’ performance: A panel control function approach

Manuela COROMALDI (University of Rome Niccolò Cusano)
Co-author(s): Maria Fedele, Valentino PARISI

The European Local Energy Assistance (ELENA) fund. A case study

Marina BERTOLINI (University of Padova)
Co-author(s): Elisa Villani (University of Bologna)

Risk aversion, income inequality and the economic evaluation of flood damages: a case study in Ecuador

Vito FRONTUTO (University of Torino)
Co-author(s): Silvana Dalmazzone, Alessandro Pezzoli, Francesco SALCUNI

Ecosystem accounting for marine protected areas: A proposed framework

Elena LAGOMARSINO (University of Genova)
Co-author(s): Barbara Cavalletti, Costanza Di Fabio, Paola Ramassa

Accounting for CO2 emissions from visitors to assess the carbon balance and the social net benefits from recreational activities in a national park

Marta MELEDDU (University of Sassari & CRENoS)
Co-author(s): Gianfranco Atzeni, Giovanni Concu, Marco Vannini

11:00 – 13:00 **SPECIAL SESSION: AGRICULTURE AND ENVIRONMENT I**

Room D5
Thu. 6 Feb. 2020

Chair: Pier Paolo MIGLIETTA (Free University of Bolzano/Bozen)

Solving constraints in water-energy-food nexus: the case of eucalyptus plantation in Ethiopia

Davide BAZZANA (University of Brescia)
Co-author(s): Gianni Gilioli, Belay Simane, Benjamin Zaitchik

Exploring the governance networks towards the agroecological transition: evidence from 15 European case studies

Oriana GAVA (Council for Agricultural Research and Agricultural Economics Analysis)
Co-author(s): Andrea Povellato, Francesco Vanni

Environmental risks and efficiency performances: a nonparametric application to the Italian forestry sector

Pier Paolo MIGLIETTA (Free University of Bolzano/Bozen)
Co-author(s): Pierluigi Toma

Valorising endogenous resources in the agri-food sector: an integrated modelling framework at regional scale

Maria Maddalena TORTORELLA (University of Basilicata)
Co-author(s): Carmelina Cosmi, Mario Cozzi, Senatro Di Leo, Filomena Pietrapertosa, Severino Romano, Monica Salvia, Mauro Viccaro

11:00 – 13:00 **ENERGY, OIL AND GAS MARKETS**

Chair: Massimiliano Carlo Pietro RIZZATI (Fondazione Eni Enrico Mattei)

Room R2
Thu. 6 Feb. 2020

Electricity investments and regional economic growth: Evidences from a global panel

Lorenzo MONTRONE (MCC Berlin)
Co-author(s): Matthias Kalkuhl, Jan Christoph Steckel

Does the impact of energy price changes on the business cycle depend on the degree of energy dependency?

Giacomo NOVELLI (University of Milan and University of Pavia)

Women and Resource Windfalls: The Norwegian Oil Boom

Chiara RAVETTI (Politecnico di Torino)
Co-author(s): Patrick Bennet, Po Ying Wong

Projections of energy demand in European cities using downscaled population scenarios

Massimiliano Carlo Pietro RIZZATI (Fondazione Eni Enrico Mattei)
Co-author(s): Gianni Guastella, Enrico Lippo, Stefano Pareglio

13:00 – 14:30 **LUNCH** (Refreshment Area)

14:30 – 15:30 **IAERE General Assembly of Members**

Auditorium

15:30 – 15:40 **COFFEE BREAK** (Refreshment Area)

15:40 – 17:40 **PARALLEL SESSIONS 2** Thu. 6 Feb. 2020

15:40 – 17:40 **SPECIAL SESSION: ENERGY TRANSITION AND DECARBONIZATION II** Sala Biblioteca
Decarbonization and Energy Production Thu. 6 Feb. 2020
Chair: Stein-Erik FLETEN (Norwegian University of Science and
Technology)

Cooperation under Uncertainty over Investment in CO2 Emission Reduction Technology along an Industrial Chain

Jacco THIJSSSEN (University of York) [INVITED SPEAKER]

Co-author(s): Tine Compernelle

Incentivizing availability under irreversible switching: The case of the PJM electricity market

Stein-Erik FLETEN (Norwegian University of Science and Technology) [INVITED SPEAKER]

Co-author(s): Benjamin Fram, Magne Ledsaak, Carl Ullrich

Should I stay or should I go? Carbon leakage and ETS in an evolutionary model

Simone BORGHESI (European University Institute and University of Siena)

Co-author(s): Angelo Antoci, Gianluca Iannucci, Mauro Sodini

Carbon tax and electricity price volatility: Empirical evidences from the Australian market

Nicola COMINCIOLI (University of Brescia and Fondazione Eni Enrico Mattei)

Co-author(s): Sergio Vergalli

15:40 – 17:40 **ENVIRONMENT, GAME THEORY AND EXPERIMENTS** Room D2
Chair: Marcella VERONESI (University of Verona) Thu. 6 Feb. 2020

Moral cleansing strategies in the moral and environmental domains

Valeria FANGHELLA (University of Trento)

Co-author(s): John Thøgersen

Five shades of green: Heterogeneous environmental attitudes in an evolutionary game model

Giulio GALDI (European University Institute)

Co-author(s): Angelo Antoci, Simone Borghesi

Do emotions matter in valuing environmental goods? Evidence from a discrete choice experiment

Sandra NOTARO (University of Trento)

Co-author(s): Gianluca Grilli

Don't tell me what I should do, but tell me what others do: A natural field experiment on voluntary donations

Marcella VERONESI (University of Verona)

Co-author(s): Francisco Alpizar, Peter Martinsson

If future generations had a say: An experiment on sharing resources across generations

Stephan WOLF (University of Siegen)

Co-author(s): Mike Farjam, Stephan Wolf

15:40 – 17:40 **WASTE MANAGEMENT AND POLICIES**

Chair: Luisa LORÈ (University of Rome Tor Vergata)

Room D3

Thu. 6 Feb. 2020

A new rationale for not picking low hanging fruits: The separation of ownership and control

Denis CLAUDE (Université de Bourgogne)

Co-author(s): Mabel Tidball

Message in a bottle: Could information be more effective than subsidies in waste minimization? Evidence from an online field experiment

Matilde GIACCHERINI (University of Rome 'Tor Vergata')

Co-author(s): Giovanni Ponti

Calculating the artificial ore grade

Matteo MAZZARANO (University of Ferrara)

Post disaster debris and waste management in Italy: Challenges and opportunities

Andrea RAMPA (CNR)

Co-author(s): Marco Mondica and Susanna Paleari

Does expiration date labelling influence food waste? An experimental approach

Luisa LORÈ (University of Rome Tor Vergata)

Co-author(s): Alessio D'amato, Timo Goeschl, Mariangela Zoli

15:40 – 17:40 **WATER AND ECOSYSTEM SERVICES**

Chair: Giovanni MARIN (University of Urbino Carlo Bo)

Room D4

Thu. 6 Feb. 2020

Analysis of social preferences toward water ecosystem services: A hybrid latent class approach to model attitudinal factors in choice experiments

Rossella ATZORI (University of Cagliari)

Co-author(s): Daniela Meleddu, Marina Mura, Vania Statzu, Elisabetta Strazzera

Principles and choices. Comparing users' stated preferences on four marine protected sites in Italy

Matteo CORSI (University of Genova)

Co-author(s): Barbara Cavalletti, Elena Lagomarsino

The economics of ecosystem restoration

Fabio EBOLI (ENEA)

Co-author(s): Giacomo Pallante

Water-related perceived harms and pro-environment behaviours: A taxonomy of EU citizens

Giovanni MARIN (University of Urbino Carlo Bo)

Co-author(s): Tiziano Distefano

Measuring economic water scarcity in agriculture: A cross-countries empirical investigation

Elena VALLINO (Politecnico di Torino)

Co-author(s): Luca Ridolfi, Francesco Laio

15:40 – 17:40 **SPECIAL SESSION: AGRICULTURE AND ENVIRONMENT II**
Chair: Maurizio CANAVARI (University of Bologna)

Room D5
Thu. 6 Feb. 2020

Innovation in irrigation technologies for sustainable agriculture: An endogenous switching analysis on italian farms' land productivity

Sabrina AUCCI (University of Palermo)

Co-author(s): Andrea Pronti

A bioeconomic model of sustainable phosphorus management in Italian Pig Farms

Anwasha CHAKRABARTI (Universita Cattolica del Sacro Cuore)

Co-author(s): Linda Arata, Christoph Pahmeyer, Paolo Sckokai

Comprehensive and integrate impact assessment framework for development policy intervention

Nicolò GOLINUCCI (Fondazione Eni Enrico Mattei)

Co-author(s): Emanuela Colombo, Federica Inzoli, Matteo Rocco, Nicolò Stevanato

Precision agriculture practices: A case study on fruit production in Emilia-Romagna (Italy)

Marco MEDICI (University of Bologna)

Co-author(s): Maurizio Canavari, Moreno Toselli

The role of information and environmental attitude on consumers' acceptance of new technologies in food: the case of shelf life extension

Vera VENTURA (University of Milano)

Co-author(s): Alessandro Banterle, Alessia Cavaliere

15:40 – 17:40 **CLIMATE CHANGE AND ECONOMIC IMPACT**

Chair: Elisa DELPIAZZO (CMCC-EIEE- Ca' Foscari University of Venice)

Room R2
Thu. 6 Feb. 2020

Distributional implications of climate change impacts on energy demand for Italian households

Lorenza CAMPAGNOLO (CMCC)

Co-author(s): Enrica De Cian

Cost-benefit analysis of carbon mitigation measures in European cities: the importance of co-benefits

Anna MACCAGNAN (University of Exeter Medical School)

Co-author(s): Tim Taylor, other partners from the ICARUS consortium

The climate service economic value: method, examples and reflections from the CLARA project

Elisa DELPIAZZO (CMCC-EIEE- Ca' Foscari University of Venice)

Co-author(s): Francesco Bosello

Does adaptation promote participation in international environmental agreements?

Santiago RUBIO (University of Valencia)

Co-author(s): Miguel Borrero

Temperature variation and mortality

Isabel HOVDAHL (Norwegian University of Science and Technology)

Temperature shocks and economic outcomes: An application of panel data econometrics to Italian provinces

Alessandro OLPER (University of Milano)

Co-author(s): Veronica Manara, Maurizio Maugeri, Valentina Raimondi

18:00 – 20:00 **SOCIAL EVENT – SANTA GIULIA MUSEUM AND CAPITOLIUM**
Meeting point: h 18:00 – Capitolium Archeological Area, Via dei Musei 57, Brescia

20:00 **SOCIAL DINNER – At the “Museo Diocesano di Brescia”**
Via Gasparo da Salò 13, Brescia

FEBRUARY 7th, 2020 – FRIDAY

8:30 – 9:00 **REGISTRATIONS**

9:00 – 11:00 **PARALLEL SESSIONS 3** Fri. 7 Feb. 2020

9:00 – 11:00 **SPECIAL SESSION: ENERGY TRANSITION AND DECARBONIZATION III** Sala Biblioteca
Energy Economics and Finance Fri. 7 Feb. 2020
Chair: Afzal S. SIDDIQUI (University College London)

Renewables in the Italian energy transition

Anna CRETI (Université Paris Dauphine, LeDA-CGEMP) [INVITED SPEAKER]

Economic and environmental consequences of market power in the South-East Europe regional electricity market

Afzal S. SIDDIQUI (University College London) [INVITED SPEAKER]

Co-author(s): Yihsu Chen, Makoto Tanaka, Verena Višković

The value of carbon emissions saved by RES generation within the Italian power market

Filippo BELTRAMI (University of Padua)

Co-author(s): Fulvio Fontini, Luigi Grossi

A climate risk assessment of sovereign bonds' portfolios

Irene MONASTEROLO (Vienna University of Economics and Business)

Co-author(s): Stefano Battiston

9:00 – 11:00 **ENVIRONMENTAL ISSUES IN DEVELOPING AND EMERGING ECONOMIES** Room D2
Chair: Alessio D'AMATO (University of Rome "Tor Vergata") Fri. 7 Feb. 2020

Preferences for fair distributions in resource management: are distributive justice concerns reflected in values for forest Ecosystem Services?

Ilda DREONI (University of Southampton)

Co-author(s): Emmanouil Mentzakis, Marije Schaafsma

Climate change, international migration, and interstate conflict

Timothy FOREMAN (RFF-CMCC European Institute on Economics and the Environment)

Co-author(s): Cristina Cattaneo

The hidden social costs of climate change: Evidence on climate shocks and child abandonment in Uganda

Alessio D'AMATO (University of Rome "Tor Vergata")

Co-author(s): Manuela Coromaldi and Loredana Mirra

A three-countries model of the Zambezi river basin

Michael RAUSCHER (University of Rostock)

Modeling trade and income distribution in six developing countries: A dynamic general equilibrium analysis up to the year 2050

Roberto ROSON (Ca' Foscari University of Venice)

Welfare implications of increasing spatial resolution in national CGE models for climate change impact assessment

Gabriele STANDARDI (CMCC)

Co-author(s): Shouro Dasgupta

9:00 – 11:00 **ENVIRONMENTAL REGULATION AND INNOVATION**

Chair: Stefan AMBEC (INRAE TSE-R)

Room D3
Fri. 7 Feb. 2020

Environmental policy with green consumerism

Stefan AMBEC (INRAE TSE-R)

Co-author(s): Philippe De Donder

Environmental degradation and global indeterminacy: The interplay between negative and positive externalities

Angelo ANTOCI (University of Sassari)

Co-author(s): Simone Borghesi, Marcello Galeotti, Paolo Russu

Innovation and the environment

Andri BRENNER (University of Potsdam, MCC Berlin)

Design and innovation: Does the “green-matching” actually help?

Claudia GHISSETTI (Catholic University Milan)

Co-author(s): Sandro Montresor, Antonio Vezzani

Revisiting the inter-temporal, intersectoral and international knowledge spillovers of low-carbon technologies and their impact on mitigation costs

Yeong Jae KIM (RFF-CMCC EIEE)

Co-author(s): Elena Verdolini

Estimating EU ETS Compliance Costs at the Installation Level

Edilio Valentini (University of Chieti-Pescara ‘G. D’Annunzio’)

Co-authors: Filippo Belloc and Bouwe Dijkstra

9:00 – 11:00 **LOW CARBON TECHNOLOGIES AND SUSTAINABLE MOBILITY** Room D4
Elena VERDOLINI (university of Brescia and RFF-CMCC European Institute on Fri. 7 Feb. 2020
Economics and the Environment)

The effect of information on market activity; evidence from vehicle recalls

Davide CERRUTI (ETH Zürich)

Co-author(s): Inge van den Bijgaart

An agent-based model of retrofit diffusion: A behavioral economic approach

Giulia CHERSONI (University of Turin and Eurac Research)

Co-author(s): Nives Della Valle, Magda Fontana

Vehicle fleet electrification: An integrated modelling assessment of costs and benefits

Elena DE ANGELIS (University of Brescia)

Co-author(s): Enrico Turrini, Claudio Carnevale, Marialuisa Volta

New car taxation and its unintended environmental consequences

Mario INTINI (University of Bari Aldo Moro)

Co-author(s): Angela Stefania Bergantino, Marco Percoco

Threshold policy effects and directed technical change in energy innovation

Elena VERDOLINI (university of Brescia and RFF-CMCC European Institute on Economics and the Environment)

Co-author(s): Lionel Nesta, Francesco Vona

9:00 – 11:00 **SPECIAL SESSION: AGRICULTURE AND ENVIRONMENT III** Room D5
Chair: Shouro DASGUPTA (Fondazione CMCC & EIEE) Fri. 7 Feb. 2020

Agri-environmental investments: Adoption and neighborhood effects

Abenezer Zeleke AKLILU (Södertörn University)

Co-author(s): Katarina ELOFSSON

Heatwaves and worker productivity in Europe: Economic assessment of past events and climate change projections

David GARCÍA-LEÓN (Ca' Foscari University and CMCC)

Co-author(s): Ana Casanueva, Andreas Flouris, Lars Nybo, Gabriele Standardi

Vulnerability of Global Hydropower to Climate Change

Shouro DASGUPTA (Fondazione CMCC & EIEE)

Co-author(s): Enrica De Cian, Fabio Farinosi

Valuing the multifunctional role of soil: A comparison of Italian and Australian householders' preferences

Cristiano FRANCESCHINIS (University of Padova)

Co-author(s): Damien Field, Alex Mcbratney, Jurgen Meyerhoff, Mara Thiene

For love and hate I don't pollute: A nudge to reduce the consumption of single-use carrier bags

Chiara SOTIS (London School of Economics and Political Science)

Co-author(s): Alessandro Romano

11:00 – 11:30 **COFFEE BREAK** (Refreshment Area)

11:30 – 13:30 **SIDE EVENT (In Italian, open)**
EDUCATION AND RESEARCH FOR SUSTAINABILITY

Auditorium
Fri. 7 Feb. 2020

Tavola rotonda

Prof. Maurizio TIRA, Rettore dell'Università degli Studi di Brescia

Prof. Sergio VERGALLI, Dipartimento di Economia e Management Unibs,
Delegato Terza Missione Unibs, Presidente IAERE

Scientific Head Agenda 2030 Research Area di FEEM - Fondazione Eni Enrico Mattei

Prof. Geoffrey HEAL, Columbia Business School, New York, USA

Prof. Christian GOLLIER, Managing Director of the Toulouse School of Economics

Dott. ssa Anna VILLARI, A2A Responsabile Corporate Identity e Social Responsibility

Dott. ssa Isabella MANFREDI, Feralpi Group CSR and Corporate Communication Manager

Ing. Francesco ESPOSTO, Acque Bresciane Responsabile Sostenibilità e Innovazione

Moderata: Carlo MUZZI, Giornale di Brescia

11:00 – 12:30 **POSTER SESSION**

Poster Hall

Scale, composition and technique effects: a decomposition and empirical analysis of greenhouse gases and acidifying gases in European Union countries

Chiara LODI (University of Ferrara)

Co-author(s): Silvia Bertarelli

Riding the Storm: The effect of weather shocks in the Norwegian trawler fleet

Irmelin HELGESEN (Norwegian University of Science and Technology)

Sustainable development of territorial units: MCDM approach with optimal tail selection

Aleksandra ŁUCZAK (Poznań University of Life Sciences)

Co-author(s): Małgorzata Just

Irrigation technology and water conservation: from panaceas to actual solutions

C. Dionisio PÉREZ-BLANCO (Universidad de Salamanca & CMCC)

Co-author(s): Arthur H. Essenfelder, Chris Perry

Agricultural water consumption and crop prices

Benedetta FALSETTI (Politecnico di Torino)

Co-author(s): Francesco Laio, Luca Ridolfi, Elena Vallino

12:30 – 14:30 **LUNCH** (Refreshment Area)

14:30 – 15:30 **KEYNOTE LECTURE**

Geoffrey HEAL

Columbia Business School, New York (USA)

The economics of the energy transition

Chair: Sergio VERGALLI (IAERE President, University of Brescia and FEEM)

Auditorium
Fri. 7 Feb. 2020

15:30 – 16:00 **AWARD and CLOSING CEREMONY**

Chair: Sergio VERGALLI (IAERE President, University of Brescia and FEEM)

Auditorium
Fri. 7 Feb. 2020

Participants' List

Last update: 4 Feb 2020

Abenezer Zeleke **AKLILU**
Södertörn University
Sweden

Stefan **AMBEC**
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