



Research Division on Economic Analysis of
Climate Impacts and Policy



Research Programme on
Climate Change and Sustainable Development

Climate Change and Sustainable Development Economics

Fourth Convention of FEEM and CMCC fellows working on climate change and sustainable development economics

October 19th-21st, 2015

Island of San Giorgio Maggiore, Venice, Italy

Background and Objectives

The aim of this Convention is to present the latest research carried out at FEEM and CMCC on climate change and sustainable development economics. Recent papers dealing with these topics will be presented by FEEM and CMCC's researchers, together with key note speeches by international leading scholars in the field. The venue will also offer an opportunity for debating and exchanging ideas about new trends and avenues of research. It will also offer the chance of spending time together in a series of socializing events.

PROGRAMME

First Day – October 19th, 2015 – Monday

11:30– 12:00 **WELCOME ADDRESS**
Carlo CARRARO, Scientific Director, FEEM

12:00 – 13:00	KEYNOTE ADDRESS Carlo BARBANTE, Institute for the Dynamics of Environmental Processes-CNR, University of Venice Europe on Fire three Thousand Years Ago: Arson or Climate?
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13:00 – 14:00 *Lunch*

14:00 – 17:10 **SESSION 1: MITIGATION 1**
Chairperson: Massimo TAVONI

14:00 – 14:30 **Bridging the Scales: Representing the System Integration Challenge of Wind and Solar in Integrated Assessment Models**
Robert Pietzcker, Falko Ueckerdt, Gunnar Luderer, Samuel CARRARA

14:30 – 14:40 Discussion

14:40 – 15:10 **Mitigation and Climate Engineering under Deep Uncertainty**
Vassiliki MANOUSSI, Anastasios Xepapadeas

15:10 – 15:20 Discussion

15:20 – 15:50 *Coffee break*

15:50 – 16:20 **What Drives Mitigation Challenges? A Multi-model Sensitivity Analysis of SSP storylines**

Giacomo MARANGONI

16:20 – 16:30 Discussion

16:30 – 17:00 **Will Shale Gas Reduce Carbon Emissions from China?**

Ujjayant Chakravorty, Carolyn FISCHER, Marie-Helene Hubert

17:00 – 17:10 Discussion

17:10 – 19:00 **POSTER SESSION (central aisle)**

ICCG Observatories: Research, Policy and Best Practices on Climate Governance

Isabella ALLOISIO, Silvia Bertolin, Elisa CALLIARI, Marinella DAVIDE, Aurora D'APRILE, Luca FARNIA, Katie JOHNSON, Alessandra MAZZAI

Assessing the Institutional Constraints to Adaptation through Social Network Analysis Evidence from the Carmen-Pajonal-Machona Lagoon System in Tabasco (Mexico)

Elisa CALLIARI, Ottavia Carlon

Mitigation costs and uncertainty

Laurent DROUET, Valentina Bosetti, Massimo Tavoni

Assessment, Projections and Policy of Sustainable Development Goals

Fabio EBOLI, Lorenza Campagnolo, Carlo Carraro, Luca Farnia

Spanning the Inequity Simplex across Time, States and Regions

Loïc Berger, Johannes EMMERLING

A participatory process to design climate change adaptation measures in the Carmen-Pajonal Machona lagoon socio-ecosystem in Mexico

Valentina GIANNINI

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

Yiyong Cai, Gabriele STANDARDI

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

Chiara Conti, Maria Luisa Mancusi, Francesca Sanna-Randaccio, Roberta Sestini, Elena VERDOLINI

Incremental water charging in agriculture. A case study of the Regione Emilia Romagna in Italy

Carlos Dionisio PEREZ BLANCO, Gabriele Standardi, Jaroslav Mysiak, Ramiro Parrado, C. Gutiérrez-Martín, C.

17:10 – 19:00 **MEETING ON FUND-RAISING (conference room)**

Open to invited researchers

19:00-22.00 **Spritz with Social Game and Light Dinner at FEEM**

Second Day – October 20th, 2015 – Tuesday

9:00 – 10:00	KEYNOTE ADDRESS Michael RAUSCHER, Department of Economics, Rostock University Demographic Change and Climate Change
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10:00 – 12:30 **SESSION 2: ADAPTATION**
 Chairperson: Francesco BOSELLO

10:00 – 10:30 **Development, Climate Change Adaptation, and Maladaptation: Some Econometric Evidence**
 Francesco Bosello, Shouro DASGUPTA

10:30 – 10:40 Discussion

10:40 – 11:10 *Coffee break*

11:10 – 11:40 **Qualitative scenario building for post-carbon cities**
 Margaretha BREIL, Cristina Cattaneo, Katie Johnson

11:40 – 11:50 Discussion

11:50 – 12:20 **Analyzing the Coordinated Impacts of Climate Policies for Financing Adaptation and Development Actions**
 Elisa DELPIAZZO, Ramiro Parrado, Gabriele Standardi

12:20 – 12:30 Discussion

12:30 – 13:30 *Lunch*

13:30 – 14:30	KEYNOTE ADDRESS Karen PITTEL, Ifo Center for Energy, Climate and Exhaustible Resources Climate Policy and the Long-Run
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14:30 – 17:00 **SESSION 3: MITIGATION 2**
 Chairperson: Johannes EMMERLING

14:30 – 15:00 **Global Freshwater Demand for Electricity Generation to 2050 under Different Decarbonization Strategies Scenarios**
 Michela BEVIONE, Laurent Drouet, Massimo Tavoni

15:00 – 15:10 Discussion

15:10 – 15:40 **The Cost of Climate Stabilization in Southeast Asia, a joint Assessment with Dynamic Optimization and CGE Models**
 Francesco Bosello, Giacomo Marangoni, Carlo ORECCHIA, David A. Raitzer, Massimo Tavoni

15:40 – 15:50 Discussion

15:50 – 16:20 **Pathways to Deep Decarbonization in Italy**
 Isabella ALLOISIO, Enrica De Cian, Ramiro PARRADO, Elena Verdolini

16:20 – 16:30 Discussion

16:30 – 17:00 *Coffee break*

17:00 – 18:30 BREAKOUT GROUPS

New Frontiers in Modelling

Chair: Laurent DROUET
(Conference room)

Empirical Estimates to Inform Modelling Work

Chair: Enrica DE CIAN
(Seminar room)

20:30 Social Dinner at Pizzeria Jazz Club Novecento 900

Third Day – October 21st, 2015 – Wednesday

09:00 – 11:00 SESSION 4: ENVIRONMENTAL ECONOMETRICS

Chairperson: Valentina BOSETTI

09:00 – 09:30 **The Role of Temperature in Estimating Residential Gas Consumption in the USA and Europe**

Michele Maurizio MALPEDE, Elena Verdolini

09:30 – 09:40 Discussion

09:40 – 10:10 **The Migration Response to Increasing Temperatures**

Cristina CATTANEO, Giovanni Peri

10:10 – 10:20 Discussion

10:20 – 10:50 **Building a Statistical Emulator for Prediction of Crop yield Response to Climate Change: A Global Gridded Panel Data Set Approach**

Malcolm MISTRY, Enrica De Cian, Ian Sue Wing

10:50 – 11:00 Discussion

11:00 – 11:30 *Coffee break*

KEYNOTE ADDRESS

11:30 – 12:30 **Massimo FILIPPINI, ETH Zurich and USI Università della Svizzera Italiana**

Measurement of Energy Efficiency Based of Economic Foundations

12:30 – 13:00 AWARDS ANNOUNCEMENTS and FINAL REMARKS

Chairperson: Carlo CARRARO, Scientific Director, FEEM

AWARDS ANNOUNCEMENTS

- Annual Award for the Best Paper presented at the Convention

Selection Committee: Carlo CARRARO (chair), Massimo FILIPPINI, Karen PITTEL, Michael RAUSCHER, Massimo TAVONI

The Selection Committee will award the author(s) of the best paper presented at the annual Convention with a Librerie Feltrinelli € 500 bonus. If the winning presentation is the work of

multiple authors, this prize will be divided equally between co-authors. The Award Winner(s) will be announced at the last session of the Convention.

- Research Paper Award

Twice a year a research paper award is granted to the most effective and outreaching paper included in the previous semester activity report (FAR) that was also previously published as FEEM or CMCC working paper.

Librerie Feltrinelli € 500 bonus, to be equally shared among co-authors (including co-authors not working in FEEM at the time of the award). The Award Winner(s) of the first semester 2015 (01/01/2015-30/06/2015) will be announced at the Convention.

FINAL REMARKS

13:00 – 14:00 *Lunch*

End of the Convention