

# CIRSEC Newsletter

## numero 14 – novembre 2019

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*Newsletter del CIRSEC, Centro Interdipartimentale per lo  
Studio degli Effetti del Cambiamento Climatico dell'Università di Pisa*

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*Il Corso di Laurea Magistrale in Scienze Ambientali e il CIRSEC  
con il contributo del Dipartimento di Scienze della Terra  
organizzano il workshop internazionale:*

### **“Climate and Environmental changes: Past, Present and Future”**

Pisa, 16-17 gennaio 2020

Dipartimento di Scienze della Terra, Via Santa Maria 53, Aula C, First floor

*Organising committee: G. Zanchetta, E. Regattieri, M. Bini, M. Vacchi, C. Morigi*

Future generations may view climate and environmental changes induced by human activity as the most important issue of their time. When future generations will look back on our time, they will be able to regret our inaction or they can thank us, albeit late, for our commitment. This will depend a lot on our awareness and on our sense of responsibility towards our children, and above all, grandchildren. In our country, a clear and widespread understanding of causes and impacts of human-induced climate and environmental changes is still missing. This because at different levels, including the academic world, the discussion is misled by poor information and clichés. For this reason the “Master Degree in Environmental Sciences of the University of Pisa” and their students have organized two days of seminars held by international outstanding experts from various disciplines (Paleoclimatology, glaciology, archaeology, physical modelling, geochemistry). The aim is to illustrate to the broad public the background and complexity of the main climatic issues, and how different approaches can provide important information on our near future. In particular, seminars will stress the importance of the past climate as critical benchmark for an accurate understanding of the climate system and its present and future variability.

**PARTICIPATION IS FREE.** For any information please contact [zanchetta@dst.unipi.it](mailto:zanchetta@dst.unipi.it), [bini@dst.unipi.it](mailto:bini@dst.unipi.it)

#### ***Program***

##### ***Thursday 16 January 2020***

- 09.30-10.00 - Introduction: Sergio Rocchi (Director, Earth Science Department, UniPI), Giovanni Zanchetta (President, Environmental Science MSc, UniPI), Giacomo Lorenzini (Director, CIRSEC, UniPI)  
10.00-10.40 - Bernd Wagner (University of Köln): Mediterranean winter rainfall in phase with African monsoons during the past 1.36 million years  
10.40-11.20 - Russell N. Drysdale (University of Melbourne): The synchronicity of abrupt climate change during the last glacial period

*11.20-11.40 - Coffee break*

- 11.40-12.20 - Carlo Barbante (University Ca' Foscari, Venice): Written in the Ice. Earth's climate in the last million year  
12.20-13.00 - Andrea Zerboni (University of Milan): Did humans make the Sahara brown? Reconsidering the anthropogenic impact of Holocene North Africa

*13.00-15.00 Lunch break*

- 15.00-15.40 - Biagio Giaccio (IGAG-CNR): Explosive eruptions, chronology and synchronization of paleoclimate archives.  
15.40-16.20 - Gianluca Marino (University of Vigo): Glacial terminations, a key to understand the climate system  
*16.20-16.40 - Coffee break*  
16.40-17.20 - Barbara Stenni (University Ca' Foscari, Venezia): Antarctic climate variability over the last 2000 years  
17.20-18.00 - Matteo Vacchi (University of Pisa): Sea level in a changing climate. Reconstructing the past to predict the future

### **Friday 17 January 2020**

09.10-09.20 - Introduction

09.20-10.00 - Carlo Baroni and Maria Cristina Salvatore (University of Pisa): Glaciers, sensitive sentinels of climate change: past, present and future

10.00-10.40 - Paolo Mozzi (University of Padua): Floods of the past and Holocene climatic variability

10.40-11.20 - Adam Izdebski (Max Planck Institut for the Science of Human History): What triggers a climate crisis? Lessons from high-resolution historical and natural archives

11.20-11.40 - *Coffee break*

11.40-12.20 - Piero Lionello (University of Salento): Global warming and climate projection of the Mediterranean region

12.20-13.00 - Antonello Provenzale (IGG-CNR): Climate Change and wildfires: from the Mediterranean to the Arctic

13.00-15.00 - *Lunch break*

15.00-15.40 - Laura Sadori (University La Sapienza, Rome): Human impact and climate changes from Italian pollen records

16.20-16.40 - *Coffee break*

16.40-17.20 - Chiara Boschi (IGG-CNR): Carbon sequestration as a Climate Change Mitigation Activity.

17.20-18.00 - Eleonora Regattieri (University of Pisa): Interglacial analogues and global warming

18.00-18.30 - Final discussion and conclusion



*Centro Interdipartimentale  
per lo Studio degli Effetti  
dei Cambiamenti Climatici  
Centre for Climate Change Impact*

## GIORNATA DI STUDIO



## LE ATTIVITÀ DELL'UNIVERSITÀ DI PISA SUL TEMA DEGLI EFFETTI DEL CAMBIAMENTO CLIMATICO

6 dicembre 2019, ore 9-18

Pisa, Auditorium Centro Congressi Le Benedettine

Piazza San Paolo a Ripa d'Arno, 16

L'evento rappresenta la prima opportunità di confronto per i numerosi ricercatori dell'ateneo di Pisa impegnati sugli argomenti relativi agli effetti del cambiamento climatico. Saranno affrontati argomenti di grande attualità, che coinvolgono molti settori disciplinari, dalla medicina alla biologia ambientale, dalle scienze veterinarie all'economia, dalla geologia alle scienze agrarie.

La giornata è progettata con una strategia “*carbon neutral*”: saranno piantati 600 alberi autoctoni per compensare le emissioni di CO<sub>2</sub> prodotte per la sua realizzazione.

La partecipazione è libera, fino al raggiungimento del numero massimo consentito dalle norme di sicurezza.

Il convegno sarà trasmesso in diretta *streaming* sul canale YouTube “MediaEventi Unipi”, all'indirizzo: <https://www.youtube.com/c/mediaeventiunipi/live>.

Il programma dei lavori è scaricabile a:

<https://cirsec.unipi.it/giornata-di-studio-le-attivit -delluniversita-di-pisa-sul-tema-degli-effetti-del-cambiamento-climatico/>

E.H. Ho & D.V. Budescu: Climate uncertainty communication. *Nature Climate Change* 9: 802-803 (2019) - The consequences of global warming will be dire, but the full extent of these effects on society is unknown and includes uncertainties. Research now suggests that how scientists communicate about the uncertainty over such climate change impacts can influence the public's trust and acceptance of this information.

H. Fountain: How Climate Change Could Shift California's Santa Ana Winds, Fueling Fires. *New York Times*, Oct. 28, 2019. For centuries, humans have experienced the fierce, hot and dry winds that are fanning California's recent spate of wildfires. But the winds' future in a changing climate is less certain. Recent research suggests that as the climate warms, the winds may become less frequent, especially at the fringes of their season in fall and spring. That is not necessarily good news. Coupled with changes in patterns of precipitation that are also expected to occur as the climate warms, it may mean that California's wildfire season will shift from fall into winter, with longer and more intense fires later in the year.

*Scienza del clima e problemi globali*

**MYLES ALLEN**  
University of Oxford

**ROBERTO BUIZZA**  
Scuola Superiore Sant'Anna, Pisa

**HERVÉ LE TREUT**  
Institut Pierre Simon Laplace



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Forum degli Allievi della Scuola Normale Superiore  
Associazione Allievi della Scuola Superiore Sant'Anna

**PRIMA DELLA MAREA**  
Conversazioni quasi ecologiche


**11 novembre | ore 18**  
Sala Azzurra  
Palazzo della Carovana  
Scuola Normale Superiore  
Piazza dei Cavalieri, 7 – Pisa



**Welfare recalibration and the ecological crisis:**  
research topics, approaches and findings for a sustainable transition

**Pisa, 11-12 November 2019, 14:00 – 18:30**  
Aula Magna Palazzo Boileau, via Santa Maria, 85 – Pisa

**International Workshop**



**Institutional Welcome**  
Alessandro Balestrino, Head of Political Science Dept.  
Simone D'Alessandro, Vice-Director Sciences for Peace

**Speakers**  
Katharina Bohnenberger, University of Duisburg-Essen  
Christine Corlet Walker, University of Surrey  
Roberta Cucca, Oslo University of Life Science  
Simone D'Alessandro, University of Pisa  
Yuri Kazezov, University of Vienna  
Gerlinde Verbijs, University of Antwerpen  
Matteo Villa, University of Pisa

**Speakers (Participating Online)**  
Milena Büchs, University of Leeds  
Martin Fritz, Friedrich Schiller University Jena  
Tuuli Hirvilampi, University of Jyväskylä  
Alexander Ruser, University of Agder

**Scientific Committee**  
Matteo Villa and Marta Bonetti, University of Pisa  
Yuri Kazezov and Elisabetta Mocca, University of Vienna

**Program**

**I. Open Workshop**  
Current research topics and approaches on welfare sustainability  
11 November 2019, 14:00 – 18:30  
Aula Magna Palazzo Boileau, via Santa Maria, 85 – Pisa

- Institutional Welcome 14:00 – 14:15
- Introduction: discussing the sustainable welfare 14:15 – 14:30
- First session of presentations and debate 14:30 – 16:00
- Break
- Second session of presentations and debate 16:30 – 18:00
- Synthesis and Conclusion 18:00 – 18:30

**II. Working Seminar (By Invitation Only)**  
12 November 2019, 9:00 – 13:00

**Theme**

The growing environmental concern has led some scholars to acknowledge the role of welfare systems as part of an unsustainable growth model and to discuss the potential contradictions between increasing demands for social protection, fiscal crises, and new social risks produced by the ecological crisis and the policies to counteract it. Concepts of sustainable welfare, ecological state and eco-social policies have been elaborated to combine social goal with environmental and economic sustainability. To achieve this ambitious aim, welfare state systems have to face difficult dilemmas, deal with potential trade-offs and problems of synchronization between ecological limits, social protection and employment goals. The workshop brings together scholars from different countries, scientific networks and working across various research fields (e.g., Social Policy, Ecological Economics, Organizational and Urban Studies) to discuss the current research topics, approaches, findings and develop further research perspectives and actions.

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<https://www.pace.unipi.it/index.php?lang=en>



University of Pisa  
Pisa, Dec. 2nd - Dec. 6th 2019



## WINTER SCHOOL GCRC 2019: Governing Climate Resilient Cities. Challenges, Opportunities and Best Practices (I Edition)

Director:  
**Prof. Alfredo Fioritto**  
Department of Law  
University of Pisa

### WINTER SCHOOL OVERVIEW

This Course is the result of a partnership of UN Habitat, the University of Pisa and a network of specialised universities and institutions. It tackles the complex issue of governing climate resilient cities, assessing in a comparative fashion best practices and solutions. The Course targets primarily policy makers, public servants and practitioners, presenting theoretical and academic contents with a hands-on and practical approach. The Director of the School is Prof. Alfredo Fioritto.

### OBJECTIVE

The Course aims to provide participants with analytical tools to better understand and address the governance challenges climate change produces on the urban and metropolitan dimensions. It specifically concentrates on how to best govern climate resilient cities.

### TARGET GROUP

The Course targets executives, policy makers, public servants, city managers, urban planners, emergency experts and other international staff, development workers. It will also benefit researchers and academics in the field who are interested in deepening the governance related aspects of climate change impacts on city management.

### FURTHER INFORMATIONS FOR THE SPEAKERS:

The Course needs a minimum of 20 participants to be activated (at 15 november 2019). Coursework will be held at the University of Pisa.

### Contacts

prof. Alfredo Fioritto: [alfredo.fioritto@unipi.it](mailto:alfredo.fioritto@unipi.it)  
dott. Francesca Carpita: [fcarpita@gmail.com](mailto:fcarpita@gmail.com)  
dott. Marco Lunardelli: [dott.marcolunardelli@gmail.com](mailto:dott.marcolunardelli@gmail.com)  
dott. Luigi Rufo: [luigi.rufo@jus.unipi.it](mailto:luigi.rufo@jus.unipi.it)

### for general information about the Course

<https://climate-change.jus.unipi.it/gcrc>

for administrative issues: [support.summerschool@unipi.it](mailto:support.summerschool@unipi.it)

### Venue

Department of Law, University of Pisa  
Aula E, Centro Congressi Le Benedettine  
Piazza S. Paolo a Ripa D'Arno, 16 - 56125 Pisa



### WINTER SCHOOL (I Edition)

GCRC 2019: Governing Climate Resilient Cities. Challenges, Opportunities and Best Practices

### WINTER SCHOOL (II Edition)

GCRC 2019: Governing Climate Resilient Cities. Challenges, Opportunities and Best Practices

### DRAFT PROGRAMME

**Dec. 2.** 10h – 13h

Registration of the participants  
Welcome address / Opening remarks  
Presentation of participants

**Dec. 2.** 15h – 18h

MODULE: "SCIENCE"

#### Science-based pathways to urban resilience

- Urban climate trends
- Natural capital for climate change adaptation and mitigation
- Managing threats to human health

**Dec. 3.** 10h – 13h

MODULE: "SCIENCE"

#### Science-based pathways to urban resilience

- Supporting dialogue on the role of science for climate change
- Recommendations for policy-makers

**Dec. 3.** 15h – 18h

#### WORKSHOP: Grey and green infrastructure

**Dec. 4.** 10h – 13h

MODULE "LAW & GOVERNMENT"

#### Institutional frameworks and tools to urban resilience

- Global politics for climate changing
- Climate Governance: the urban perspective (international climate governance, the urban nexus, vertical integration of climate action from national to local)
- The law of the cities facing climate changing
- Private Public Partnership to urban resilience

**Dec. 4.** 15h – 18h

MODULE "LAW & GOVERNMENT"

#### Institutional frameworks and tools to urban resilience

- Smart cities as a pathway to resilience
- Expanding environmental policies to urban resilience
- Public participation and public debate

**Dec. 5.** 10h – 13h

MODULE "LAW & GOVERNMENT"

#### Institutional frameworks and tools to urban resilience

- Governing metropolitan areas: international and national experiences
- Emergency Law: strategies for a civic protection
- Urban regeneration to increase urban resilience
- Governing metropolitan areas: the Milan case

**Dec. 5.** 15h – 18h

MODULE "PLANNING & BUILDING"

#### Technics and practices to increase urban resilience Urban Climate Design Workshop

- Climate change and cities
- Climate Resilient urban planning and urban design: Principles and methods
- Case study cities
- Coupling climate and community resilience: knowledge-sharing and co-design approaches
- Achieving environmental quality and climate resiliency: tools and solutions

**Dec. 6.** 10h – 13h

MODULE "PLANNING & BUILDING"

#### Technics and practices to increase urban resilience

- Design workshop
- Building a vision for future cities
- Building multi-disciplinary expertise
- Post-its / design sketch session
- Wrap-up and final presentation by students

**Dec. 6.** 15h – 18h

FINAL WORKSHOP

discussion and presentation of best practices  
Delivery of the Certificate to the participants

**Giacomo Lorenzini**

Direttore CIRSEC-UniPI

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Questo testo è scaricabile da: <http://cirsec.unipi.it/newsletter/>