



DIPARTIMENTO DI SCIENZE DELLA TERRA
UNIVERSITÀ DI PISA



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

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

<https://www.dst.unipi.it/laurea-in-scienze-ambientali.html>,

<https://www.facebook.com/scienzeambientaliunipi>

<https://cirsec.unipi.it/>

Organizzano il workshop internazionale:

“Climate and Environmental changes:

Past, Present and Future”

Pisa, 16-17 January 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, 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