



IUSS

Scuola Universitaria Superiore Pavia

WORKSHOP

CLIMATE MODELLING: DIFFERENT APPROACHES AND APPLICATIONS

The theme of climate change and its present and future consequences has become a daily reality in the field of physical, natural, economic and social sciences, as well as in the political debate. However, to understand the implications of climate change and predict its impact, the knowledge of the dynamics of the climate system is a crucial step. In this workshop, climate scientists from the Italian and international community present different climate modelling approaches and applications, with the aim of offering an overview of climate science to scientists in STEM, economics and humanities. The workshop is open to students, PhDs and scientists. [The workshop will be in Italian].

Program

14.30: Marco Gaetani (IUSS, Pavia)

Introduction to the workshop

14.35: Roberto Buizza (Scuola Superiore Sant'Anna, Pisa)

3CSA: Centre for Climate Change at Scuole Universitarie Federate

14.50: Gabriele Messori (Uppsala University, Sweden)

Making dynamical systems real: from Lorenz butterflies to the atmosphere

15.10: Emanuela Pichelli (Abdus Salam International Centre for Theoretical Physics, Trieste)

Regional downscaling modelling for future climate projection at ICTP

15.30: Simona Bordoni (Università di Trento)

Idealized modelling of large-scale tropical circulations and their interaction with the hydrological cycle

15.50: Jost von Hardenberg (Politecnico di Torino)

Tuning and climate sensitivity of high-resolution and of intermediate complexity Earth System models

16.10: Simona Masina (Centro Euro-Mediterraneo sui Cambiamenti Climatici, Bologna)

Ocean modelling for short term forecast and climate applications

16.30: coffee break

17.00: Alessio Bellucci (Centro Euro-Mediterraneo sui Cambiamenti Climatici, Bologna)

Climate prediction and predictability on seasonal-to-decadal time scales

17.20: Elisa Palazzi (Consiglio Nazionale delle Ricerche, Torino)

Modelling of precipitation and the hydrological cycle in mountains: uncertainties and downscaling

17.40: Antonello Provenzale (Consiglio Nazionale delle Ricerche, Pisa)

Climate change impact models: ecosystems and wildfires

18.00: roundtable

18.30: closure

December 4th, 2019, 14:30 – 18:30

Auditorium – Car College

Via Luigi Porta n. 10 – Pavia

For information: postlaurea@iusspavia.it