

INTRODUCTION



Earth's temperatures have risen about 0.5 °C in recent decades. Observed changes in oceans, ecosystems, and ice cover are consistent with this warming trend. Most climate scientists believe that Earth's warming has been caused primarily by human activities (e.g. burning of fossil fuels for energy, industrial processes, transportation) that have increased the amount of greenhouse gases in the atmosphere. Such climate changes are severely increasing the likelihood of extreme events, such as floods, storms, and landslides. This PhD School will not only focus on the causes and effects of climate change, but also on the sustainable engineering responses for preventing the causes (e.g. clean energy and transportation, green buildings) and mitigating the effects (e.g. nature based and technological solutions to decrease the risks of meteo-induced slides and floods and increase the urban areas resilience).



UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II

med
PhD school

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DEPARTMENT OF CIVIL
ARCHITECTURAL
AND ENVIRONMENTAL
ENGINEERING

DICEA PhD School Series

This is the first event of a series of PhD Schools that our Department, DICEA, will organize annually in the framework of the "Department of Excellence", Project funded by the Italian Ministry of University and Research.

PhD students in any field are invited to participate. Registration fee is €100,00. Ten fellowships (€ 800,00 each) are available, reserved to PhD students in the Civil, Architectural and Environmental Engineering area, from any Country except Italy.



Scuola Politecnica e delle Scienze di Base
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**1st Edition
2019**

**IMPACTS OF
CLIMATE CHANGE
AND SUSTAINABLE
ENGINEERING
RESPONSES**

neapōlis



UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II
SCUOLA POLITECNICA E DELLE SCIENZE DI BASE

ORGANIZING COMMITTEE

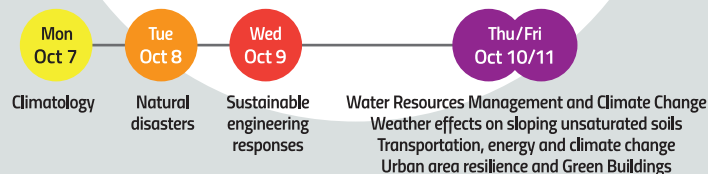
Gianfranco Urciuoli
Giovanni Esposito
Andrea Papola
Maurizio Giugni
Roberta Amirante
Gennaro Nicola Bifulco
Francesco Pirozzi
Lilli Gargiulo



TOPICS OF THE SCHOOL



The PhD School will include a plenary session, which will focus on Climatology (Monday), Related natural disasters (Tuesday) and Engineering responses (Wednesday), and four parallel thematic sessions (Thursday and Friday), which will focus on Water Resources Management and Climate Change, Transportation, Energy and climate change, Weather effects on sloping unsaturated soils, Urban area resilience and Green Buildings, respectively.
A technical visit (Saturday) will complete the programme.



IMPORTANT DATES

Fellowship application deadline
25 June 2019

Selection results
12 July 2019

Fellowship acceptance deadline
19 July 2019

Registration deadline
30 September 2019

INVITED SPEAKERS

Eduardo Alonso	UPC Barcelona
Vincenzo Artale	ENEA Centro Ricerche
Benjamin Bechtel	Ruhr Bochum University
Paolo Cresci	Ove Arup • Italia
Mercedes Del Rio Merino	Universidad Politecnica di Madrid
Giovanni Fini	Comune di Bologna
Christian Gollier	Toulouse school of Economics • Recherche • TSE-R
Willett Kempton	University of Delaware
Jens Peter Kofoed	University of Aalborg
Dana Kominková	Life Science University of Prague
Jette Krause	European Commission Joint Research Centre • JRC
Anthony Leung	University of Dundee
Silvio Matassa	Università degli Studi di Cassino e del Lazio Meridionale
Peter Mensinga	MVRDV Rotterdam
Alberto Montanari	Università di Bologna
Jelica Pavlovic	European Commission Joint Research Centre • JRC
Luciano Picarelli	Università degli Studi della Campania "L. Vanvitelli"
Enrique M. Romero	UPC Barcelona
Giuseppe Rossi	Università di Catania
Ezio Santagata	Politecnico di Torino
Andreas Schafer	University College London • UCL
Zia Wadud	University of Leeds

