PHD DAY

PhD in “Science and Engineering for the Environment and the Sustainability”

ENVIRONMENT AND SUSTAINABILITY

Friday, October 27th, 2023 Start 9:30

Session 1: ENGINEERING AND ENVIRONMENT

Session 2: SCIENCE AND ENVIRONMENT

it is also possible to participate on the TEAMS platform

UNIVERSITY OF CAMPANIA LUIGI VANVITELLI
Department of Engineering (AulaMagna)
Real Casa dell’Annunziata-ViaRoma 29, 81031 Aversa(CE)
PhD DAY 38° cycle – October 27th 2023
“Science and Engineering for the Environment and the Sustainability”
Topic: ENVIRONMENT AND SUSTAINABILITY

PROGRAM:

SESSION I – ENGINEERING AND ENVIRONMENT

09:30 – 09:50  Institutional greetings
Alessandro Mandolini
Director of Department of Engineering, University of Campania “Luigi Vanvitelli”

09:50 – 10:20  Water and the three dimensions of sustainable development
Felice d’Alessandro
Associate Professor of hydraulic structures, maritime engineering and hydrology “Università degli Studi di Milano”

10:30  Introduction to the Engineering and Environment session
Moderator Erika Molitierno & Osvaldo Pecorari
PhD Student “University of Campania Luigi Vanvitelli”

10:40  Arumâ - Innovative and sustainable biobased material from Amazon
Iucana De Moraes Mouco
PhD student “University of Campania Luigi Vanvitelli”

10:50  Application of innovative technologies with bioplastic filaments into the manufacturing, traditional, handcraft system of Rione Sanità
Iole Sarno
PhD Student “University of Campania Luigi Vanvitelli”

11:00  Beyond Fast Fashion, emerging paradigms for the future of fashion
Michela Musto
PhD student “University of Campania Luigi Vanvitelli”

11:20  Coffee Break

11:50  Sustainable process model for environmental upgrading of plexuses for secondary education
Roberto Bosco
PhD student “University of Campania Luigi Vanvitelli”
12:00  
**Evaluating Various Remotely Sensed Soil Moisture Products for Landslide Risk Assessment: A Case Study of Cervinara Soil**
Abdullah  
PhD student “University of Campania Luigi Vanvitelli”

12:10  
**Weather-induced post-failure kinematics of a highway embankment founded on a marly-sandstone slope**
Denise Manna  
PhD student “University of Campania Luigi Vanvitelli”

12:20  
**Unearting the (catastrophic) landslide triggering conditions: Geotechnical insights and Hydrological controls**
Daniel Camilo Roman Quintero  
PhD student “University of Campania Luigi Vanvitelli”

12:30  
**PATH TO 2030: Road Transport Trajectories Towards Achieving the EU Fit for 55 Climate Package Goals by 2030**
Antonella Falango & Mariarosaria Picone  
PhD students “University of Campania Luigi Vanvitelli”

**Lunch Break**

**SESSION II - SCIENCE AND ENVIRONMENT**

14:00-14:15  
**Institutional greetings**
Antonio Fiorentino  
Director of Department of Environmental, Biological and Pharmaceutical Sciences and Technologies (DiSTABiF), University of Campania “Luigi Vanvitelli”

14:15-14:45  
**Ecological Transition and Scientific cooperation: challenges and opportunities.**
Roberto Danovaro  
Full Professor of Ecology “Università Politecnica delle Marche”

14:45  
**Introduction to the Science and Environment session**
Moderator Concetta Auciello  
PhD Student “University of Campania Luigi Vanvitelli”

15:00  
**Microbial- and seaweed-based biopolymers: sources, extractions and implications for soil quality improvement and environmental sustainability - a review with bibliometric profile.**
Waqas Ali  
PhD student “University of Campania Luigi Vanvitelli”

15:10  
**Preserving the biodiversity of common beans in Caserta’s rural areas: biochemical and genetic traits of ‘Cerato’ and ‘Curniciello’ dry beans.**
Laura Alberico  
PhD student “University of Campania Luigi Vanvitelli”
15:20 Effects of the addition of hydrochar on the soil in a greenhouse experiment.
Teresa Di Santo
PhD student “University of Campania Luigi Vanvitelli”

15:30 Microbial biostimulants: an environmentally sustainable approach to boost the quality and safety of food crops.
Giovanna Marta Fusco
PhD “University of Campania Luigi Vanvitelli”

15:40 Cost and benefit analysis of land management adaptation strategies in areas under desertification risk.
Hafiz Khuzama Ishaq
PhD student “University of Campania Luigi Vanvitelli”

15:50 Alternative Chemical recycling: plastic waste gasification.
Vincenzo Arconati
PhD student “University of Campania Luigi Vanvitelli”

16:00 Coffee Break

16:30 Diving Deep: The Hidden World.
Antonio Giova
PhD student “University of Messina”

16:40 How can Life Cycle Assessment support Waste Management Sector?
Filomena Ardolino
RTDA “University of Campania Luigi Vanvitelli” (DISTABIF)

16:50 GIS and machine learning tools for groundwater resource management
Gianluigi Busico
RTDB “University of Campania Luigi Vanvitelli” (DISTABIF)

17:00 Conclusions
Diego Vicinanza
Full Professor of Coastal Engineering
Coordinator of Doctoral Program in Science and Engineering for the Environment and Sustainability

Organizing Committee: Dr Alberico Laura, Dr Auciello Concetta, Dr Di Santo Teresa, Dr Pierferdinando Lamberti, Dr Ing. Molitierno Erika, Dr Ing. Pecorari Osvaldo, Dr Ing. Manna Denise, Dr Mele Antonio, Dr Picone Mariarosaria, Dr Falanga Antonella.