

**V:** Università  
degli Studi  
della Campania  
*Luigi Vanvitelli*

# PhD | 20 DAY | 24

A DAY ENTIRELY DEDICATED TO PHD STUDENTS

## THE DIFFERENT DIMENSIONS OF SUSTAINABILITY: FROM MICRO TO MACRO

**2nd OCTOBER 2024**

**AULA MAGNA**  
**Dipartimento di Ingegneria**  
**via Roma 29 – Aversa**

**PROGRAM**



**TEAMS**



**V:** Università  
degli Studi  
della Campania  
*Luigi Vanvitelli*  
*Dipartimento di Scienze e Tecnologie  
Ambientali Biologiche e  
Farmaceutiche*

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*Dipartimento di Ingegneria*

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PhD DAY 38° and 39° cycle – October 2<sup>nd</sup> 2024  
“Science and Engineering for the Environment and the Sustainability”  
Topic: **THE DIFFERENT DIMENSIONS OF  
SUSTAINABILITY: FROM MICRO TO MACRO**

**PROGRAM:**

**SESSION I**

- 09:30 – 09:40      ***Institutional greetings***  
Alessandro Mandolini  
Director of Department of Engineering, University of Campania “Luigi Vanvitelli”
- 09:40 – 09:50      ***Institutional greetings***  
Umberto Arena  
Full Professor of Chemical plants (ICHI-02/A)  
Member of the PhD board Program in Science and Engineering for the Environment and Sustainability
- 09:50 – 09:55      ***Introduction to sessions***  
Moderator Margherita Martinelli & Syed Rafay Ali Bukhari  
PhD Student “University of Campania Luigi Vanvitelli”
- 09:55 – 10:25      ***Shaking things up: recent advances in earthquake geotechnical engineering***  
Prof. Filippo Santucci De Magistris  
Full Professor of seismic geotechnical engineering, geotechnical design and geotechnology  
“Università degli Studi del Molise”
- 10:25 – 10:55      ***Science and technology: the importance of integrating***  
Prof.ssa Simonetta Frascchetti  
Full professor of ecology “Università degli Studi di Napoli Federico II”
- 10:55 – 11:30      ***Coffee Break***
- 11:30 – 11:40      ***Hydrometeorological approach to assess geo hydrological hazards under changing climate scenarios***  
Muhammad Shareef Shazil  
PhD student “University of Campania Luigi Vanvitelli”



11:40 – 11:50 ***Groundwater salinization assessment tool: a holistic approach for coastal aquifer***

Mojgan Bordbar

PhD student “University of Campania Luigi Vanvitelli” (DISTABIF)

11:50 – 12:00 ***Geochemistry and Isotope geochemistry characterization of fluids from both the Massico Apennine Chain and Roccamonfina volcano (southern Italy)***

Renato Palmieri

PhD student “University of Campania Luigi Vanvitelli” (DISTABIF)

12:00 – 12:10 ***Round table***

12:10 – 12:20 ***Urban regeneration: practices and actions against abandonment***

Antonetta Napolitano

PhD student “University of Campania Luigi Vanvitelli” (Department of architecture and industrial design)

12:20 – 12:30 ***Integrated and low-impact interventions for seismic risk mitigation and energy efficiency of buildings***

Osvaldo Pecorari

PhD student “University of Campania Luigi Vanvitelli” (Department of civil engineering)

12:30 – 12:40 ***The key role of Posidonia banquettes in protecting the coastal marine habitat – a new ecological beach model***

Elena Piscitelli

PhD student “University of Campania Luigi Vanvitelli” (Department of Engineering)

12:40 – 12:50 ***Microalgal biostimulants: a new sustainable approach in agriculture***

Letizia Pagliaro

PhD student “University of Campania Luigi Vanvitelli” (DISTABIF)

12:50 – 13:00 ***Round table***

13:00 – 14:30 ***Lunch Break***

## **SESSION II**

14:30 – 14:35 ***Introduction to sessions***

Moderator Antonia Brunzo & Cipriano Cerullo

PhD student “University of Campania Luigi Vanvitelli”

14:35 – 14:45 ***The fluid-structure interaction of an offshore wind turbine***

Luis Daniel Luna Aguilar

PhD student “University of Campania Luigi Vanvitelli” (Department of Engineering)

- 14:45 – 14:55      ***Input of energy into the oceans: sounds, electromagnetic fields and artificial light at night***  
Valentina Caradonna  
PhD student “University of Campania Luigi Vanvitelli” (Department of Engineering)
- 14:55 – 15:05      ***Thermal Management of electronic packaging using TIM***  
Ihsan Ur Rahman  
PhD student “University of Campania Luigi Vanvitelli” (Department of Engineering)
- 15:05 – 15:15      ***Round table***
- 15:15 – 15:25      ***Circular economy in construction industry***  
Usman Aftab  
PhD student “University of Campania Luigi Vanvitelli” (Department of Engineering)
- 15:25 – 15:35      ***Disruptive Technologies and Digital Health in Health Services***  
Michele Picariello  
PhD student “University of Campania Luigi Vanvitelli” (Department of Engineering)
- 15:35 – 14:45      ***Round table***
- 15:45 – 16:00      ***Coffee Break***
- 16:00 – 16:10      ***Under the Surface: Discovering an Invisible Marine Community***  
Concetta Auciello  
PhD student “University of Campania Luigi Vanvitelli” (DISTABIF)
- 16:10 – 16:20      ***Beneath the Waves: The Unseen World of Deep-Sea Microbes***  
Francesco Fabiano  
PhD student “University of Palermo”
- 16:20 – 16:30      ***Deep sea exploration***  
Ludovica De Vincenzis  
Scholarship holder at “Stazione zoologica Anton Dohrn Napoli”
- 16:30 – 16:40      ***Round table***

**Organizing Committee**

Dr Concetta Auciello, Dr Antonia Brunzo, Dr Valentina Caradonna, Dr Margherita Martinelli, Dr Laura Alberico, Dr Elena Piscitelli, Dr Ing. Cipriano Cerullo, Dr Ing. Erika Moliterno, Dr Ing. Denise Manna, Dr Ing. Osvaldo Pecorari, Dr Ing. Manuel Jose Dias Da Silva, Dr Ing. Giacobbe Savino.