UNIVERSITÀ DEGLI STUDI DEL SANNIO Benevento

DING

Department of Engineering - Department of Excellence

SEISMIC RESILIENCE OF SOIL - FOUNDATION - STRUCTURE SYSTEMS

The course will offer an introduction to geotechnical earthquake engineering and an overview of research on the seismic resilience of foundation-structure systems.

PROGRAM

15 Dec 2025
14:30 – 17:30

Introduction to soil dynamics, ground response, and dynamic soil properties, followed by the more specialized topics of site effects and soil liquefaction, as well as dynamic soil-structure interaction.

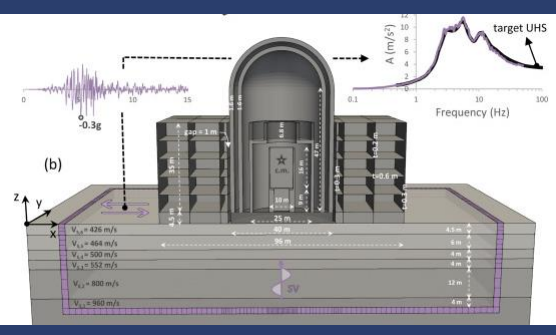
16 Dec 2025
10:00 – 13:00

Recent developments on the subject of seismic resilience of foundation-structure systems, including rocking foundations, the retrofit of existing bridge pile groups, the seismic response of offshore foundations, and the Tsunami-induced failure of breakwaters.

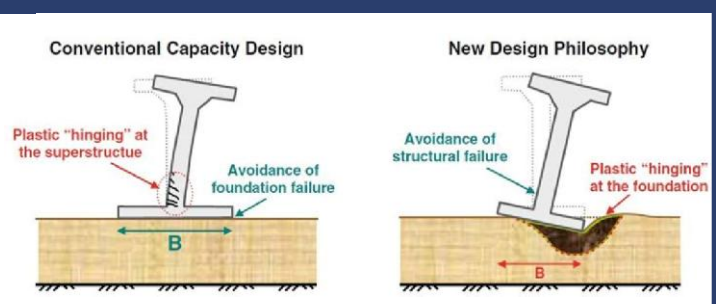
Place: Sant'Agostino Complex , Via G. De Nicastro 13, Benevento

Soil liquefaction

Dynamic soil-structure interaction

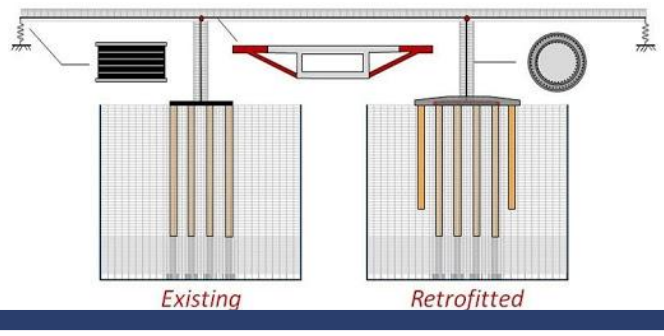


Rocking foundation

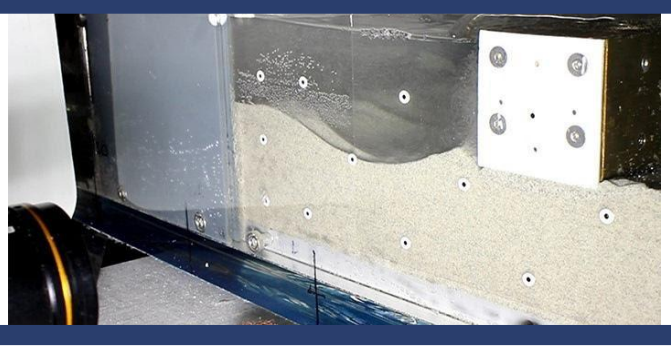


Offshore foundations

Retrofit of existing bridge pile groups



Tsunami-induced failure of breakwaters



Being part of the initiatives promoted by the Department of Engineering as a Department of Excellence, the course is free of charge and open to Bachelor's and Master's students, PhD students, researchers, and external professionals. Lectures will be held in person.
To attend the course, please complete the registration form using the QR code provided. For further information and details, contact: Prof. Stefania Sica. (stefsica@unisannio.it)

ETH zürich

Prof. Dr. Ioannis Anastasopoulos
Full Professor at the Department of Civil, Environmental and Geomatic Engineering
Head of Dep. of Civil, Env. and Geomatic Eng.

Ioannis Anastasopoulos has been Full Professor of Geotechnical Engineering at ETH Zurich since 2016. Since 2023, he is also Head of the Department of Civil, Environmental and Geomatic Engineering. He specializes in geotechnical earthquake engineering and soil–structure interaction, combining numerical with experimental methods. He is the inaugural recipient of the ISSMGE Young Researcher Award in Geotechnical Earthquake Engineering, and winner of the 2012 Shamsher Prakash Research Award. He has been a consultant in major projects in Europe, US and the Middle East. His consulting work ranges from the design of pile-rafts of tall buildings, to bridge foundations, metro stations, tunnels, and quay walls, as well as special design against faulting. He is Editor-in-Chief of Soil Dynamics and Earthquake Engineering, and has been Associate Editor in several Journals, including the JEE and Géotechnique. He is a Director of IAEE, and Chair of ISSMGE TC104 on Physical Modelling.