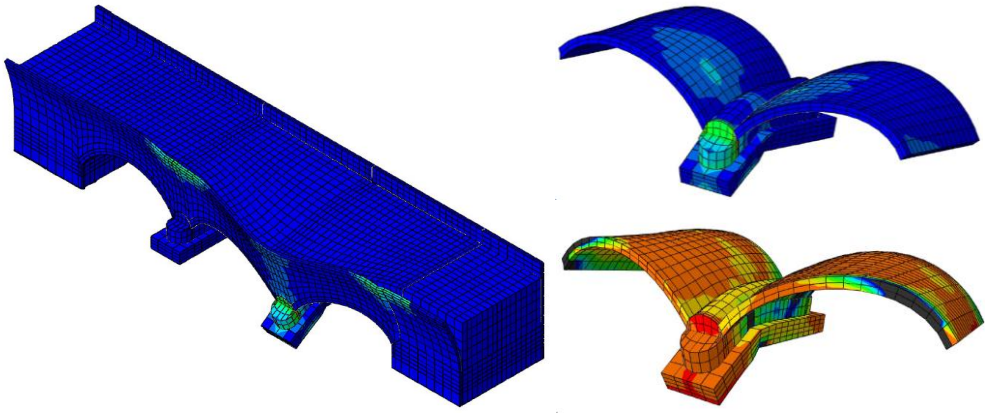
3rd SARAH ADVANCED SCHOOL

7–11 September 2026

Naples, Italy



UNIVERSITY OF NAPLES FEDERICO II

Department of Structures for Engineering and Architecture

DiSt 2023-2027 DIPARTIMENTO DI ECCELLENZA MUR

In association with the PhD program in *Structural & Geotechnical Engineering and Seismic Risk*

CHAIR

Prof. Fulvio Parisi
University of Naples Federico II

DATES

7–11 September 2026
40 hours (5 ECTS)

LOCATION

Department of Structures for Engineering and Architecture
Via Claudio, 21 – 80125 Naples (Italy)
Building 6, 1st floor
Manfredi Romano room

AUDIENCE

MSc and PhD students, post-doctoral researchers, senior researchers, professionals, facility managers

CONTACT

sarah.school@unina.it

3rd SARAH ADVANCED SCHOOL

STRUCTURAL ROBUSTNESS AND RESILIENT INFRASTRUCTURE AGAINST EXTREME HAZARDS

2026

AIM

Civil engineering structures are increasingly subjected to extreme hazards, which are not usually considered in structural design and assessment. On one hand, such hazards have a very low probability of occurrence, and on the other, they are expected to produce huge consequences on people and property. Extreme events include but are not limited to natural events (e.g. landslides, floods, hurricanes), technological events (e.g. impact, fires, explosions), man-made events (e.g. malicious actions, human errors in design, construction or maintenance), deterioration phenomena (e.g. steel corrosion, concrete carbonation), and cascade events (e.g. natural-technological events). Climate change and strong urbanization in some areas have further exacerbated the occurrence of extreme hazards and their impact. This has significantly increased the awareness of governments and standardization bodies to develop guidelines for collapse prevention and provisions in national and international structural codes.

SARAH Advanced School aims at providing fundamentals of structural robustness, large-displacement inelastic response of structures, disaster risk and resilience of structures and infrastructures, as well as methods for structural design, assessment and retrofitting against extreme hazards.

LECTURERS

Prof. Fulvio Parisi (University of Naples Federico II, Italy) – *Chair*
Prof. José M. Adam (Universidad Politécnica de Valencia, Spain)
Prof. André T. Beck (University of São Paulo, Brazil)
Prof. Robby Caspeele (Ghent University, Belgium)
Prof. Bassam Izzuddin (Imperial College London, UK)

REGISTRATION

Form online:
https://forms.gle/9Xfnp2BeCi4319bg8

Fees (in-person attendance):

- MSc and PhD Students: **450 €**
- Postdocs, senior researchers, professionals, companies: **600 €**

Included: lunches and coffee breaks for the 5 days of school, social dinner.

Fees (online attendance) – *not allowed to Federico II students*:

- MSc and PhD Students: **200 €**
- Postdocs, senior researchers, professionals, companies: **350 €**

Included: synchronous/asynchronous participation to lectures and invited talks through a global online platform.

Payment:

- Mode: Bank transfer
- Recipient: Dipartimento di Strutture per l'Ingegneria e l'Architettura
- IBAN code: IT81P0623003543000058328001
- SWIFT code: CRPPIT2P549
- Bank: Credit Agricolè Italia

Deadline: 15 July 2026

VENUE

The SARAH Advanced School will be held at the University of Naples Federico II, in the Headquarters of the **Department of Structures for Engineering and Architecture (DIST)**.

DIST is a leading academic and research institution in the field of structural engineering. Rooted in a long-standing tradition of excellence, the Department builds upon the historical legacy of one of the oldest universities in Europe, founded in 1224.
DIST integrates advanced research, higher education, and technology

INVITED TALKS

Coming soon

COURSE OUTLINE

SARAH Advanced School includes theoretical lectures, exercise classes, the analysis of real case studies and experimental tests, and thematic presentations.
The main topics of the SARAH Advanced School are listed as follows:

- Structural robustness and reliability in codes and guidelines
- Extreme events and modelling of abnormal loads on structures
- Forensic analysis of catastrophic failures
- Progressive collapse and extreme resisting mechanisms
- Reliability-based and risk-based design, assessment and retrofitting
- Computational strategies for structural response analysis under extreme conditions
- Probabilistic simulation and surrogate modelling
- Robustness quantification
- Experimental testing and structural monitoring for progressive collapse prevention
- Multi-hazard conditions and relationship between structural robustness and disaster resilience.

COURSE SCHEDULE

Coming soon

DETAILS

Please periodically check the dedicated webpage, also through this QR code

ADMINISTRATIVE STAFF

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Dr. Deborah Tomasello – detomas@unina.it

SOCIAL EVENTS

Social dinner will take place in the ancient city centre to allow participants to enjoy the history of Naples across centuries, from Greek and Roman ages till now.

ACCOMODATION

Please check availability in the proximity of the venue (Fuorigrotta area) or downtown, preferably close to Metro lines 2 and 6 stations.
Since September is still high season in Naples, participants are encouraged to explore accommodation options as soon as possible.

transfer in areas such as structural mechanics, earthquake engineering, materials, and resilient infrastructure. Over the years, it has become a reference point at both national and international levels for studies on structural safety, risk assessment, and performance-based design under extreme hazards.

The **University of Naples Federico II** is the oldest non-religious university in the world. Such a university was founded by Emperor Frederick II on June 5, 1224.

PARTNERS