

28 June-1 July 2026
Riva del Garda,
Italy

INTERNATIONAL SCHOOL ON SOIL- STRUCTURE AND FLUID-STRUCTURE INTERACTIONS IN OPENSEES 2026 SFSI-OS

Organising Committee



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Motivation and goal

OpenSees is an evolving numerical framework for advanced assessment of civil engineering structures against natural hazards, in which the profound interaction of the urban fabric with the surrounding environment can be simulated through multiple levels of complexity.

SFSI-OS will build on the success of the previous editions ([2023 SSI-OS](#) and [2024 SSI-OS](#)), offering a renewed vision of the initiative through the in-depth discussion of high-impact challenges: dynamic soil-structure, fluid-structure interactions and related cascade effects – earthquake, hydrodynamic (tsunami and flood) and fire loading.

Each Thematic Session will involve hands-on, interactive implementation of practical procedures to tackle these numerical challenges.

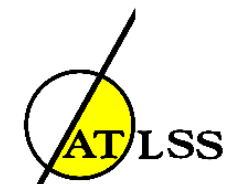
Technical Committee

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Prof. José **Abell**
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Dr. Silvia **Mazzoni**
Prof. Nicola **Tondini**
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2026 SFSI-OS

Programme Overview

June 28, afternoon

OPENSEES SETUP AND FUNDAMENTALS: GETTING READY FOR SFSI-OS

Instructions on the registration
process are available at this [link](#).

June 29

SOIL-STRUCTURE INTERACTION

Session 1 - *Continuum-based modelling of soil-structure interaction problems*
(P. Arduino, D. N. Gorini, G. Lombardi)

Session 2 - *From local to territorial assessment: HPC, parallel computing and low-order modelling* (J. Abell, D. N. Gorini, G. Lombardi)

June 30, morning

SOIL-STRUCTURE INTERACTION

Session 3 – *Collaborative use of OpenSees and new features* (F. McKenna, S. Mazzoni, D. N. Gorini, J. Abell)

June 30, afternoon

WATER-STRUCTURE INTERACTION

Session 4 - *Principles and platforms for Computational Fluid-Dynamics using OpenSees*
(A. Barbosa, A. Marchi, J. Bonus)

Session 5 - *Simulating the impact of water-induced actions on the performance of soil-structure systems* (J. Bonus, A. Marchi)

July 1, morning

FIRE-STRUCTURE INTERACTION

Session 6 - *Structural fire engineering and modelling strategies in OpenSees Fire*
(N. Tondini, L. Jiang)

Session 7 - *Interacting session* (P. Covi, L. Jiang)

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