

UNIVERSITÀ Dipartimento di DEGLI STUDI FIRENZE e Ambientale

Earthquake engineering courses at EDM, CIM and GEM

International Doctorate in Civil and Environmental Engineering

SEMINAR

SEISMIC BEHAVIOUR OF FLAT SLAB STRUCTURES

António Pinho Ramos

Full Professor of Structures at the Department of Civil Engineering, NOVA School of Science and Technology, Portugal.



TUESDAY 20 MAY 2025

TIME 2:30-4:00 pm

LEARN MORE

LOCATION Room 327 Polo Morgagni

Please register by email maurizio.orlando@unifi.it

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UNIVERSITÀ Dipartimento di DEGLI STUDI Ingegneria Civile FIRENZE e Ambientale

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The seismic behaviour of flat slab structures is a critical topic in earthquake engineering and structural design. Flat slabs are widely used in modern buildings for their architectural flexibility and ease of construction. However, their seismic performance presents certain challenges due to their structural configuration.

A major concern during earthquakes is punching shear failure at the slabcolumn connections. This brittle failure mode can lead to progressive collapse. The research team from Nova School of Science and Technology had been carrying out research on this area for more than two decades, mainly thruogh experimental and numerical analysis.



António Pinho Ramos

António Ramos is Full Professor of Structures at the Department of Civil Engineering, NOVA School of Science and Technology, Portugal. He received his Ph.D. degree in

Civil Engineering / Structures in 2003 from Instituto Superior Técnico, University of Lisbon.

His research interests include flat slab structures, repair and strengthening of concrete structures, seismic behavior of structures and the structural use of improved concretes.

The Seminar is free and open, but please register sending an email to Prof. Maurizio Orlando – maurizio.orlando@unifi.it. For PhD students will be released a certification of attendance with a recognition of 0.25 ETCS.