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Experimental measurements and numerical simulation on problems in the field of Earthquake Engineering and Structural Dynamics

Friday, 10/06/2022

h10:30-12:30

Link on Teams: [link](#)

Abstract: *This seminar has a content that combines numerical simulations with relevant experimental studies through laboratory measurements of various problems that belong in the field of Earthquake Engineering and Structural Dynamics. Several investigations of joints reinforcement with different types of FRPs in mixed or reinforced concrete structures are presented. Moreover, a damper that belongs to the passive energy dissipation systems has been studied experimentally and numerically and an application in three reinforced concrete buildings (a four-storey building, a nine-storey building, and a sixteen-storey building) subjected to real and artificial seismic recorded accelerograms has been presented in order to compare their seismic performance with and without dampers (friction, viscous and pendulum tuned mass).*

Mini CV: ***Magdalini Titirla** is an Assistant Professor in Structural Mechanics and Coupled Systems Laboratory (LMSSC) of CNAM in Paris (France). She is a national responsible for **FISA BTP Reims** and also responsible for the degree of engineers' in Public Works (diplôme d'ingénieur Travaux Publics). She received a Ph.D. in Civil Engineering from Aristotle University of Thessaloniki, in **Greece**, the 2016 with the grade "**Excellent**". She has a **strong knowledge in the field of energy dissipation systems due to her Degree, M.Sc., Ph.D. and post-docs**. She received her **degree** of civil engineering from Department of Civil Engineering of A.U.Th. and her **M.Sc.** in Design of Earthquake Resistant Structures from the same department. She has worked as **Post Doc Researcher** in the **University of Salerno (Italy)**, period: 03/2017 – 08/2017 in the field of "seismic metamaterials" with Professor F. Fraternali and his group. Also, she has worked as **Post-doc researcher** in the **LMC2, University of Lyon 1 (France)**, period 10/2017-07/2019 in the project "HYBRIDAL" with Professor E. Ferrier and his team. (<https://www.lmssc.cnam.fr/index.php/fr/user/123>)*