



We are pleased to invite you to the:

ETH/SUZI 2023 Kahramanmaraş Earthquakes Reconnaissance Webinar

Monday, May 29th, 17:00 - 19:30 (CET) on Zoom

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Speakers:

Dr. Laurentiu Danciu ETH Zurich

Dr. Şerife Özata Kirsehir Ahi Evran University

Mr. Safak Arslantürkoglu ETH Zurich

Prof. Dr. Marko Marinković SUZI/SAEE, University of Belgrade

Mr. Nemanja Krtinić SUZI/SAEE, University of Ljubljana

Prof. Dr. Christoph Butenweg RWTH Aachen University

Dr. Nikola Blagojević SUZI/SAEE, ETH Zurich

Prof. Dr. Božidar Stojadinović SUZI/SAEE, ETH Zurich

Abstract

Following the earthquake sequence that struck south-east Turkey on February 6th, 2023, ETH Zurich and the Serbian Association of Earthquake Engineering (SUZI/SAEE) organized a reconnaissance mission to collect data on building and infrastructure damage and post-earthquake recovery efforts. The team visited 16 cities, several villages, industrial facilities, hospitals, bridges and water towers from March 16 to March 21, 2023. This webinar will present the observed building and infrastructure damage as well as address the seismological and geotechnical aspect, present the post-earthquake building damage assessment procedures, on-going recovery activities and preliminary efforts to inform reconstruction efforts.

Agenda

Time	Topic	Speaker
17:00-17:10	Introduction	Prof. Dr. Božidar Stojadinović
17:10-17:20	Seismological and geotechnical aspects	Dr. Laurentiu Danciu
17:20-17:30	Post-Earthquake Damage Assessment	Dr. Şerife Özata
17:30-17:40	Turkish building codes and practice	Mr. Safak Arslantürkoglu
17:40-18:05	Performance of RC structures	Mr. Nemanja Krtinić, Prof. Dr. Marko Marinković
18:05-18:15	Break	
18:15-18:25	Performance of Masonry Structures	Mr. Safak Arslantürkoglu
18:25-18:35	Performance of Industrial facilities	Prof. Dr. Christoph Butenweg
18:35-18:50	Infrastructure and recovery	Dr. Nikola Blagojević
18:50-19:20	Q&A	
19:20-19:30	Closing remarks	Prof. Dr. Božidar Stojadinović

Speakers



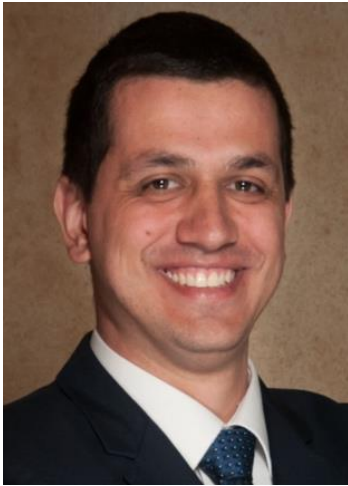
Laurentiu Danciu, Ph.D., is a senior researcher at the Swiss Seismological Service, ETH Zurich, Switzerland. His research focuses on earthquake-related hazards, probabilistic analyses, seismogenic source modeling, earthquake rate forecasting, ground motion characterization, and seismic risk assessments. He was leading the development of the recent European Seismic Hazard Models (ESHM20).



Dr. Şerife Özata is an architect, research and teaching assistant at the Department of Architecture at Ahi Evran University in Kirsehir, Turkey. Her main interests are heritage preservation, structural analyses, material analyses and characterization, waste valorization, alkali activation, geopolymers, compatible and sustainable materials for historical buildings, diagnosis, restoration, on-site application of new materials, in-site NDT and destructive tests, artificial intelligence application in architecture. Dr. Şerife Özata participated in the building damage assessment following the 2023 Kahramanmaraş earthquake sequence.



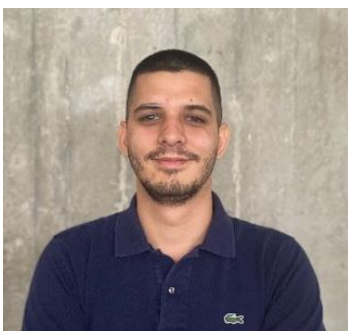
Safak Arslantürkoglu is a doctoral candidate at ETH Zurich. His research interests include risk-based seismic evaluation of existing structures with an emphasis on unreinforced masonry buildings. In this area, he focuses on methods to quantify potential risk and its mitigation in countries subjected to low-to-moderate seismicity.



Asst. Prof. Dr. Marko Marinković is the president of the Learning from Earthquakes Committee of the Serbian Association of Earthquake Engineering and assistant professor at the University of Belgrade, Faculty of Civil Engineering. The field of scientific and professional work of Dr. Marko Marinković is related to the seismic analysis of structures, both reinforced concrete and masonry, as well as steel structures. He is also a member of the CEN/TC 250 working body team /SC8/TG3 established by the European Commission with the task of preparing new Eurocodes.



Dr. Nikola Blagojević is a post-doctoral researcher at ETH Zurich and the president of the Seismic Risk Committee of the Serbian Association of Earthquake Engineering. His research interests include seismic risk and resilience assessment, post-disaster performance of interdependent infrastructure systems, and regional recovery modelling.



Nemanja Krtinić is a PhD student and young researcher at the Faculty of Civil and Geodetic Engineering, University of Ljubljana. He is a member of the Learning from Earthquakes Committee of the Serbian Association for Earthquake Engineering. His research interests include seismic analysis of both RC and masonry structures, with an emphasis on developing a robust macro-model capable of accurately simulating the seismic response of confined masonry structures. In this research area, he also focuses on developing a new seismic design methodology for CM buildings.



Christoph Butenweg is Professor for Technical Mechanics and Structural Engineering at the FH Aachen- University of Applied Sciences, Visiting Professor at the University of Belgrade, Visiting Lecturer at RWTH Aachen University and Business Manager and Associate of the engineering company SDA-engineering GmbH. He is member of the executive boards of the Center for Wind and Earthquake Engineering (CWE) at RWTH Aachen University and the European Association of Earthquake Engineering. Furthermore, he is member of the management group for the evolution of the new generation of EC 8, the code committee NA 005-51-06 and the Research Advisory Board of German Committee for Masonry Construction e. V. (DAfM).



Božidar Stojadinović is the Chair of Structural Dynamics and Earthquake Engineering at the Swiss Federal Institute of Technology (ETH) Zürich and a member of the ETH Risk Center. His research focus is on modeling and quantification of community disaster resilience, seismic performance-based design and evaluation of structural elements, structures and portfolios of structures, seismic response modification, and hybrid simulation. After graduating from UC Berkeley with a PhD in 1995, he was a professor at the University of Michigan and the University of California Berkeley before joining ETH in 2011. He is an ACI Fellow, and a recipient of the 2004 ASCE Walter L. Huber Civil Engineering Research Prize and the 2017 ACI Chester Paul Siess Award for Excellence in Structural Research.