

EUCENTRE at the 18th European Conference on Earthquake Engineering

Complete list of scientific contributions by The Eucentre Foundation

The 18th European Conference on Earthquake Engineering (ECEE 2026) will be held in Berlin from 14 to 18 September 2026. This major international meeting brings together the leading experts, researchers and practitioners in the field to discuss the most recent scientific advances in seismic risk reduction, structural engineering, natural hazard mitigation and infrastructure resilience.

15

Eucentre researchers
as official speakers

21

oral presentations
and posters

23

co-authored
contributions

44

scientific contributions
in total

The complete list of the works of the Eucentre Foundation presented at ECEE 2026 is set out below, divided between the presentations delivered by the Foundation's own researchers and the contributions in co-authorship.

Presentations by Eucentre researchers

Listed below are the 21 scientific contributions presented directly by researchers of Eucentre as lead speakers.

01 • Speaker: Bazzini Miriam

A Quantitative Methodology for the Definition of Product Families and Worst-Case Scenarios in Seismic Qualification of UPS Units

Authors: Miriam Bazzini, Emanuele Brunesi, Paolo Dubini, Igor Lanese

Session: S05-04-SMD: Seismic Modelling and Design

Time and location: 15/Sept/2026: 11:30am-12:55pm · Location: S01

02 • Speaker: Bellotti Davide

Experimentally calibrated macro-modeling of precast dowel connections

Authors: Davide Bellotti, Emanuele Brunesi, Francesco Cavalieri

Session: S01-SS24-MOD: Special Session - Seismic Challenges and Opportunities in Modular Construction Team/organizers

Time and location: 15/Sept/2026: 2:45pm-4:10pm · Location: S09

03 • Speaker: Borzi Barbara

Digital Tools for Seismic Risk and Real-Time Damage Assessment

Authors: Barbara Borzi, Mauro Onida, Marta Faravelli, Marco Pagano, Antonella Di Meo, Davide Quaroni, Alessio Cantoni, Francesca Bozzoni, Antonino Famà, Ali Güney Özcebe, Davide Bellotti, Francesco Cavalieri, Riccardo Milanese, Giammaria Gabbianelli, Venanzio Pascale, Daniele Intermite

Session: S02-16-SRAMH: Seismic Risk Assessment and Multi-Hazard Risk (incl. Tsunami, NaTech)

Time and location: 14/Sept/2026: 2:45pm-4:10pm · Location: S03

04 • Speaker: Borzi Barbara**Effects of Seismic Retrofitting on Risk Maps of the Italian Territory**

Authors: Barbara Borzi, Marco Pagano, Davide Quaroni, Mauro Onida

Session: S01-SS04-AVMRR: Special Session - Advancing Vulnerability Modelling for Regional Risk Assessment and Resilient Communities

Time and location: 16/Sept/2026: 11:30am-12:55pm · Location: S010

05 • Speaker: Borzi Barbara**EMERGE: A Web-Based Platform for Multi-Hazard Assessment and Early Crisis Response in the Cross-Border Region of North Macedonia, Albania, and Greece**

Authors: Barbara Borzi, Antonella Di Meo, Davide Quaroni, Francesca Bozzoni, et al.

Session: S01-SS15-VRAMH: Special Session - Vulnerability and risk assessment for multi-hazard resilient urban societies

Time and location: 18/Sept/2026: 11:30am-12:55pm · Location: S04

06 • Speaker: Bracchi Stefano**Effect of cumulative damage on seismic fragility of URM buildings**

Authors: Stefano Bracchi, Guido Magenes, Andrea Penna, Maria Rota

Session: S03-07-MS: Masonry Structures

Time and location: 16/Sept/2026: 11:30am-12:55pm · Location: S04

07 • Speaker: Bracchi Stefano**Effect of soil settlements on seismic fragility of a URM building**

Authors: Stefano Bracchi, Andrea Penna, Maria Rota

Session: S03-07-MS: Masonry Structures

Time and location: 16/Sept/2026: 11:30am-12:55pm · Location: S04

08 • Speaker: Calvi Gian Michele**Post-earthquake reconstruction designing for minimum damage in extreme hazard conditions**

Authors: Gian Michele Calvi

Session: Theme Lecture | Gian Michele Calvi

Time and location: 16/Sept/2026: 2:10pm-2:40pm · Location: S01

09 • Speaker: Curti Cristina**Experimental Seismic Performance Assessment of Drift and Acceleration Sensitive NSEs Using an Innovative 9-DOFs Multi-Story Testing Facility**

Authors: Cristina Curti, Elisa Rizzo Parisi, Filippo Dacarro, Emanuele Brunesi, Igor Lanese

Session: S02-09-NSE: Non-Structural Elements

Time and location: 17/Sept/2026: 4:35pm-6:00pm · Location: S06

10 • Speaker: Dacarro Filippo**Developing a multi-hazard smart monitoring system at Milan Malpensa airport**

Authors: Francesca Bozzoni, Filippo Dacarro, Fabio Germagnoli, Francesco Lunghi, Davide Silvestri, Davide Bellotti, Federica Bianchi, Francesco Cavalieri, Daniele Del Carlo, Elisabetta Gervasini, Massimo Corradi, Alessandro Balbo, Rebecca Gualdoni, Daniele Recalcati

Session: S02-11-SHM: Structural Health Monitoring

Time and location: 15/Sept/2026: 11:30am-12:55pm · Location: S07

11 • Speaker: Dacarro Filippo**A Multi-Source SHM Framework Combining Satellite Technologies, Numerical Modeling and Anomaly Detection Strategies**

Authors: Filippo Dacarro, Bruno Aster, Elena Lorusso, Davide Curone, Filippo Calamelli, Davide Bolognini

Session: S03-11-SHM: Structural Health Monitoring

Time and location: 15/Sept/2026: 2:45pm-4:10pm · Location: S07

12 • Speaker: Famà Antonino**Fragility Curves for Bridge Taxonomies Representative of the Italian Road Bridge Stock**

Authors: Antonino Famà, Carlo Filippo Manzini, Davide Quaroni, Paolo Morandi, Barbara Borzi

Session: S03-13-BCIICF: Bridges, Civil Infrastructure and Industrial/Critical Facilities

Time and location: 14/Sept/2026: 4:35pm-6:00pm · Location: S07

13 • Speaker: Furinghetti Marco**Research and Practice applications of Seismic Isolation and Energy Dissipation devices: Modeling Strategies and Experimental Assessments**

Authors: Marco Furinghetti, Cristina Curti, Miriam Bazzini, Klein Ramiro, Paolo Dubini, Roberto Franzolin, Filippo Dacarro, Alberto Pavese

Session: S01-SS03-APSCS: Special Session - Active and passive structural control strategies for resilient structures: bridging research and application

Time and location: 16/Sept/2026: 9:45am-11:00am · Location: S07

14 • Speaker: Milanesi Riccardo**Seismic Behaviour of Tall Masonry Infills through Out-of-Plane Shake-Table Tests on Full-Scale Specimens**

Authors: Onur Arslan, Riccardo R. Milanesi, Soheil Rostamkalee, Paolo Morandi

Session: S02-SS12-AESMD: Special Session - Advances in Earthquake-Resistant and Sustainable Masonry Design

Time and location: 17/Sept/2026: 11:30am-12:55pm · Location: S05

15 • Speaker: Milanesi Riccardo**In-plane cyclic and out-of-plane shaking table tests of weak existing masonry infills and partitions**

Authors: Riccardo R. Milanesi, Soheil Rostamkalee, Paolo Morandi

Session: S01-SS11-SPNSC: Special Session - Seismic performance of non-structural components: recent findings and developments

Time and location: 18/Sept/2026: 9:45am-11:00am · Location: S03

16 • Speaker: Morandi Paolo**Experimental campaign on a masonry bell tower with active control device**

Authors: Luca Albanesi, Numan Eren, Andrea Penna, Paolo Morandi

Session: S02-SS03-APSCS: Special Session - Active and passive structural control strategies for resilient structures: bridging research and application

Time and location: 16/Sept/2026: 2:45pm-4:10pm · Location: S09

17 • Speaker: Morandi Paolo**Drift Limits at different limit states for URM Walls: Experimental Evaluation and Design Implications**

Authors: Paolo Morandi, Luca Albanesi

Session: S01-SS12-AESMD: Special Session - Advances in Earthquake-Resistant and Sustainable Masonry Design

Time and location: 17/Sept/2026: 9:45am-11:00am · Location: S05

18 • Speaker: Özcebe Ali**A Unified Stochastic Framework for Regional Hazard Assessment of Earthquake-Induced Liquefaction and Landslides**

Authors: Francesca Bozzoni, Ali Güney Özcebe, Carlo Giovanni Lai

Session: Poster Session 04

Time and location: 16/Sept/2026: 11:00am-11:30am · Location: Peter-Behrens-Hall

19 • Speaker: Proietti Giulio**A web-based tool for simplified modelling and seismic fragility assessment of air traffic control towers**

Authors: Giulio Proietti, Francesco Cavalieri, Antonino Famà, Federica Bianchi, Davide Bellotti, Barbara Borzi

Session: S03-13-BCIICF: Bridges, Civil Infrastructure and Industrial/Critical Facilities

Time and location: 14/Sept/2026: 4:35pm-6:00pm · Location: S07

20 • Speaker: Rizzo Parisi Elisa**Seismic Vulnerability of Suspended and Self-bearing Ceiling Systems via Shake Table Qualification Testing**

Authors: Elisa Rizzo Parisi, Hector Santiago Romero Jimenez, Igor Lanese, Paolo Dubini, Emanuele Brunesi

Session: S03-09-NSE: Non-Structural Elements

Time and location: 18/Sept/2026: 9:45am-11:00am · Location: S06

21 • Speaker: Senaldi Ilaria**From data to decisions: challenges & opportunities of integrated digital technologies in disaster risk management**

Authors: Chiara Casarotti, Martina Mandirola, Ilaria Senaldi

Session: S01-SS21-AITCI: Special Session - Artificial Intelligence techniques in Seismic Engineering applied to Critical Infrastructures

Time and location: 18/Sept/2026: 11:30am-12:55pm · Location: S09

Further scientific contributions with Eucentre participation

Listed below are the 23 scientific contributions presented by researchers from other bodies, universities or partner institutions, in which researchers and collaborators of Eucentre appear as co-authors.

01 • Speaker: Aedo-Maluje Sebastian**Contribution of Inertial Soil-Structure Interaction in the Seismic Assessment of an Existing Building: a Case Study**

Authors: Sebastian Aedo-Maluje, Martina Caruso, Rui Pinho

Session: S01-12-AR: Assessment and Retrofitting

Time and location: 14/Sept/2026: 11:30am-12:55pm · Location: S05

02 • Speaker: Amendola Chiara**Assessing Social Vulnerability to Natural Hazards in Cross-Border Regions: The EMERGE Project**

Authors: Chiara Amendola, Evi Riga, Dimitris Pitilakis, Ricardo Monteiro, Gianrocco Mucedero, Mattia Calò, Rikard Luka, Roberta Apostolska, Radmila Salic-Makreska, Aleksandar Zlateski, Aleksandar Zurovski, Goran Chapragoski, Elena Delova, Daniel Tomic, Antonella Di Meo, Francesca Bozzoni, Barbara Borzi, Stevko Stefanoski, Olga Ktenidou, Nikolla Klajdi, Valentina Atanasovska, Rezeart Zgjanjoll

Session: S07-16-SRAMH: Seismic Risk Assessment and Multi-Hazard Risk (incl. Tsunami, NaTech)

Time and location: 15/Sept/2026: 4:35pm-6:00pm · Location: S03

03 • Speaker: Arslan Onur**Seismic Behaviour of Tall Masonry Infills through Out-of-Plane Shake-Table Tests on Full-Scale Specimens**

Authors: Onur Arslan, Riccardo R. Milanesi, Soheil Rostamkhalae, Paolo Morandi

Session: S02-SS12-AESMD: Special Session - Advances in Earthquake-Resistant and Sustainable Masonry Design

Time and location: 17/Sept/2026: 11:30am-12:55pm · Location: S05

04 • Speaker: Buttazzoni Margherita**A pre-screening tool for decision support in the design of sustainable retrofit interventions**

Authors: Margherita Buttazzoni, Martina Caruso, Chiara Passoni, Alessandra Marini, Rui Pinho

Session: S02-SS06-NGSR: Special Session - Next Generation Seismic Retrofit Strategies: AI, Resilience and Sustainability-based approaches

Time and location: 17/Sept/2026: 11:30am-12:55pm · Location: S011

05 • Speaker: Buttazzoni Margherita**Life cycle-oriented design of a timber exoskeleton for seismic retrofitting**

Authors: Margherita Buttazzoni, Martina Caruso, Jacopo Zanni, Chiara Passoni, Simone Labò, Alessandra Marini, Rui Pinho

Session: S02-SS06-NGSR: Special Session - Next Generation Seismic Retrofit Strategies: AI, Resilience and Sustainability-based approaches

Time and location: 17/Sept/2026: 11:30am-12:55pm · Location: S011

06 • Speaker: Carbone Caterina**Assessment of seismic vulnerability of wind turbine towers**

Authors: Caterina Carbone, Andrea Penna, Annalisa Rosti, Maria Rota

Session: S02-13-BCIICF: Bridges, Civil Infrastructure and Industrial/Critical Facilities

Time and location: 14/Sept/2026: 2:45pm-4:10pm · Location: S07

07 • Speaker: Chioccarelli Eugenio**Comparative Analysis of Earthquake Cluster Models for Hazard and Risk**

Authors: Eugenio Chioccarelli, Pasquale Cito, Iunio Iervolino

Session: S02-SS01-NGPSHRA: Special Session - Next-Generation Probabilistic Seismic Hazard and Risk Assessment: Scientific Advances and Emerging Challenges (EFEHR Session)

Time and location: 16/Sept/2026: 11:30am-12:55pm · Location: S08

08 • Speaker: Cito Pasquale**Consistency of Macroseismic Intensity Observations with Probabilistic Seismic Hazard Analysis**

Authors: Pasquale Cito, Eugenio Chioccarelli, Iunio Iervolino

Session: S01-01-SHS: Seismic Hazard and Seismology

Time and location: 16/Sept/2026: 9:45am-11:00am · Location: S03

09 • Speaker: Di Salvatore Chiara**Analytical-to-experimental comparison of dowel connections shear strength in concrete structures**

Authors: Chiara Di Salvatore, Riccardo M. A. Baltrocchi, Andrea Belleri, Davide Bellotti, Emanuele Brunesi, Francesco Cavalieri, Bruno Dal Lago, Marius Eteme Minkada, Nicola Nisticò, Paolo Riva, Ali Sadeghi Raveshti, Gennaro Magliulo

Session: S04-06-CS: Concrete Structures

Time and location: 15/Sept/2026: 4:35pm-6:00pm · Location: S05

10 • Speaker: Franchin Paolo**Reliability-based calibration of isolation system design in the second-generation Eurocode 8**

Authors: Paolo Franchin, Alberto Pavese, Marco Furinghetti, Fabrizio Noto

Session: Theme Lecture | Paolo Franchin

Time and location: 17/Sept/2026: 2:10pm-2:40pm · Location: S05

11 • Speaker: Furiosi Alessia**Seismic assessment of retrofit strategies for masonry arch bridges using discontinuum models**

Authors: Alessia Furiosi, Nicolò Damiani, Maria Rota, Andrea Penna

Session: S03-07-MS: Masonry Structures

Time and location: 16/Sept/2026: 11:30am-12:55pm · Location: S04

12 • Speaker: Grella Antonio**Investigating the difference between uniform hazard and risk targeted design spectra**

Authors: Georgios Baltzopoulos, Antonio Grella, Pasquale Cito, Iunio Iervolino

Session: S05-SS01-NGPSHRA: Special Session - Next-Generation Probabilistic Seismic Hazard and Risk Assessment: Scientific Advances and Emerging Challenges (EFEHR Session)

Time and location: 17/Sept/2026: 11:30am-12:55pm · Location: S08

13 • Speaker: Janevski Antonio**Performance-based seismic assessment of RC wall structures considering higher-mode effects**

Authors: Antonio Janevski, Ryan Hoult, Andrea Orgnoni, Tatjana Isaković, Rui Pinho, João Pacheco de Almeida

Session: S02-04-SMD: Seismic Modelling and Design

Time and location: 14/Sept/2026: 2:45pm-4:10pm · Location: S01

14 • Speaker: Nascimbene Roberto**A holistic framework for evaluating seismic fragility of industrial tanks and associated health in natech scenarios**

Authors: Riccardo Milanese, Giammaria Gabbianelli, Alberto Gotti, Roberto Nascimbene

Session: S01-SS10-NATECH: Special Session - Natech Risk and Resilience of Hazardous Industrial Facilities in Seismic Areas

Time and location: 17/Sept/2026: 2:45pm-4:10pm · Location: S05

15 • Speaker: Nascimbene Roberto**Parametric Analyses for the Evaluation of Behaviour Factors for the Seismic Design of the Supporting Trapezes in Suspended Piping Systems**

Authors: Seyedaliakbar Mirpour, Derek Rodriguez, Emanuele Brunesi, Daniele Perrone, Roberto Nascimbene

Session: S02-09-NSE: Non-Structural Elements

Time and location: 17/Sept/2026: 4:35pm-6:00pm · Location: S06

16 • Speaker: Ozan Demirel Ismail**Experimental Validation of a Lightweight Steel Exoskeleton for Seismic Retrofitting of Deficient Masonry-Infilled Reinforced Concrete Frames**

Authors: Ismail Ozan Demirel, Simone Galano, Andrea Rossi, Paolo Morandi, Ugurhan Akyuz

Session: S03-10-ET: Experimental Testing

Time and location: 16/Sept/2026: 11:30am-12:55pm · Location: S05

17 • Speaker: Paolucci Roberto**Physics-based damage scenarios from volcanic-induced earthquakes in Campi Flegrei, metropolitan area of Napoli, Southern Italy**

Authors: Roberto Paolucci, Arsalan Bazrafshan, Sara Alfano, Serena Cattari, Daniela De Gregorio, Iunio Iervolino, Sergio Lagomarsino, Margherita Merani, Lorenza Petrini, Salvatore Sessa, Daniele Sivori, Chiara Smerzini, Manuela Vanini, Aldo Zollo, Giulio Zuccaro

Session: Theme Lecture | Roberto Paolucci

Time and location: 16/Sept/2026: 2:10pm-2:40pm · Location: S03

18 • Speaker: Pingaro Natalia**A generalized formulation of the stress reduction factor for seismic demand estimation in geotechnical and soil-structure interaction problems**

Authors: Natalia Pingaro, Francesco Cavalieri, Antonino Famà, Francesca Bozzoni, Ali Güney Özcebe, Barbara Borzi

Session: S02-02-GEE: Geotechnical Earthquake Engineering, SSI and Site Response

Time and location: 14/Sept/2026: 2:45pm-4:10pm · Location: S02

19 • Speaker: Polese Maria**Multi-risk assessment and support for emergency planning in cross-border regions: example application of the BORIS2 methodology and tool at the Italy-Slovenia border**

Authors: Maria Polese, Serena Cattari, Daria Ottonelli, Marta Faravelli, Elisa Zuccolo, Beatrice Di Napoli, Marco Lazzati, Chiara Scaini, Valerio Poggi, Davide Quaroni, Neja Fazarinc, Katarina Zabret, Klaudija Lebar, Matjaz Dolsek

Session: S01-SS15-VRAMH: Special Session - Vulnerability and risk assessment for multi-hazard resilient urban societies

Time and location: 18/Sept/2026: 11:54am-12:06pm · Location: S04

20 • Speaker: Reale Simone**Influence of friction models on the seismic risk assessment of quasi-isolated existing bridges: a sensitivity analysis**

Authors: Simone Reale, Marco Furinghetti, Alberto Pavese

Session: S03-SS03-APSCS: Special Session - Active and passive structural control strategies for resilient structures: bridging research and application

Time and location: 17/Sept/2026: 11:30am-12:55pm · Location: S09

21 • Speaker: Salic Makreska Radmila**Near Real-Time Shaking Information to Resource Prioritisation in Cross-Border Regions**

Authors: Radmila Salic Makreska, Igor Gjorgjiev, Julijana Bojadjeva, Roberta Apostolska, Vlatko Sesov, Goran Capragoski, Barbara Borzi, Antonella Di Meo, Francesca Bozzoni, Davide Quaroni, Dimitris Pitilakis, Evi Riga, Chiara Amendola, Markel Baballëku, Ricardo Monteiro, Gianrocco Mucedero, Mattia Calo, Olga Ktenidou, Konstantinos Boukouras, Stevko Stefanoski, Valentina Atanasovska, Klajdi Nikolla, Vlatko Jovanovski, Theo van Wijk, Rezeart Zgjanjoli

Session: S01-SS08-EMHS: Special Session - Earthquakes and Multi-Hazard Scenarios: Beyond Conventional Risk Assessment and Design Approaches

Time and location: 17/Sept/2026: 4:35pm-6:00pm · Location: S01

22 • Speaker: Salvatori Christian**Effect of the seismic action on the carbon footprint of AAC masonry buildings**

Authors: Christian Salvatori, Stefano Bracchi, Maria Rota, Francesco Pomponi, Andrea Penna

Session: S04-07-MS: Masonry Structures

Time and location: 16/Sept/2026: 2:45pm-4:10pm · Location: S04

23 · Speaker: Smerilli Marco

Seismic numerical modelling and analysis of a base-isolated timber building for quick reconstruction in earthquake prone areas

Authors: Marco Smerilli, Emanuele Brunesi, Davide Bolognini

Session: S13-04-SMD: Seismic Modelling and Design

Time and location: 17/Sept/2026: 2:45pm-4:10pm · Location: S01
