GEM CONFERENCE 2026
FROM FAULTS TO FUTURE SCENARIOS

23-25 June 2026

University of Zagreb, Croatia

GEM GLOBAL EARTHQUAKE MODEL

OQ OPENQUAKE

DAILY POSTERS & DEMOS SCHEDULE

www.globalquakemodel.org

POSTERS SCHEDULE

Date
23 June 2026

Time
10:30 - 11:30 /
15:30 - 16:00

Location
University of Zagreb, Croatia

Conference Title GEM Conference 2026 : From faults to future scenarios

Title	Presenting Author	Affiliation
Adjusting the Economic Impact from Past Earthquakes for the Validation of Loss Models	Zarin Karim Zadeh	IUSS Pavia, Italy
Development of a fault-based ETAS simulator for enhanced PSHA: Integrating finite rupture and stochastic triggering	Fahrettin Kuran	IUSS Pavia, Italy
A new occurrence rate model based on spatial inter-dependence between past seismicity and faults	Jarod Domenge	University of Milano Bicocca, Italy
Inferring Mainshock Ruptures from Aftershock Distributions	Zainab Asaad	IUSS Pavia, Italy
Real Time Earthquake Impact Conditioning via Building Sensors	Amir Taherian	University of Aveiro, Portugal
AI-Based Automated Exposure Models for Natural Hazard Risk Assessment	Daniel Gomez	University of Aveiro, Portugal
Development of an Exposure Model for the Industrial Building Stock in Europe	Fatemeh Alishahiha	IUSS Pavia, Italy
State-Dependent Fragility and Vulnerability Models Accounting for Damage Accumulation in the Sequential Earthquakes	Furkan Nalitepe	IUSS Pavia, Italy
Epistemic uncertainties in hazard modeling: impact on risk metrics and insurance premiums	Julián Montejo	University of Chieti, Italy
Earthquake rapid damage assessment of buildings, using remote sensing and AI	Niloofar Kazemiasl	IUSS Pavia, Italy

POSTERS SCHEDULE

Date
24 June 2026

Time
10:30 - 11:30 /
15:45 - 16:45

Location
University of Zagreb, Croatia

Conference Title GEM Conference 2026 : From faults to future scenarios

Time	Title	Presenting Author	Affiliation
10:30 - 11:30	Data availability and probabilistic seismic hazard studies for resilient cities in Sub-Saharan Africa	Umar Afegbua Kadiri	Centre for Geodesy and Geodynamics, Nigeria
10:30 - 11:30	Evaluation of Equivalent Linear and Nonlinear Ground Response approaches for Deep Alluvial Soils in the Eastern Indo-Gangetic Basin	Mudit Srivastava^	Indian Institute of Technology Roorkee
10:30 - 11:30	Integrating Basin-Scale Site Response and Non-Ergodic Effects into National Seismic Hazard Models: Lessons from Los Angeles, Po Basin, and Emerging Applications in India	Rashid Shams^	University of Southern California, USA
10:30 - 11:30	Enhancing Disaster Resilience through Advanced Short-Term Forecasting and Cascading Hazard Modeling: A Case Study of the 2005 Kashmir Earthquake	Mona Lisa^	Quaid-i-Azam University (QAU), Pakistan
10:30 - 11:30	Influence of Modelling Simplifications and Analysis Choices on Regional Seismic Fragility and Risk Assessments	Serkan Hasanoglu	IUSS Pavia, Italy
10:30 - 11:30	A Generic Ground Motion Set for Hazard-Consistent Incremental Dynamic Analysis in Wellington, New Zealand	Srijana Gurung Shrestha^	University of Canterbury, New Zealand
10:30 - 11:30	Impact chain–driven exposure characterization for urban multi-hazard analysis	Margherita Rago	University of Genova
10:30 - 11:30	GeoRiskNet	John Schneider	Schneider Geohazards Pty Ltd, Australia
15:45 - 16:45	National Seismic Risk Model for Colombia	Miguel Mora	Geological Survey of Colombia
15:45 - 16:45	Synthetic intensity maps of certain events in Northern Algeria using PGV and PGA parameters	Redouane Chimouni*	CRAAG, Algeria
15:45 - 16:45	Information Content in Earthquake Nowcasting: The Role of Aftershock Clustering	Sonu Devi^	Birla Institute of Technology and Science, India
15:45 - 16:45	Improved Seismic Source Zonation Using DBSCAN Clustering-Jordan and Neighbouring Areas	Nadin Abu Hayah	University of Bristol, UK
15:45 - 16:45	Seismicity of Namibia	Mako Sitali*	Geological Survey of Namibia
15:45 - 16:45	Forecasting the spatial distribution of earthquakes for the Indian national seismic hazard model through smoothed gridded seismicity	C Lallawmawma*	Indian Institute of Technology Roorkee
15:45 - 16:45	Development of Region-Specific Ground Motion Prediction from Strong-Motion Observations for NSHM of India	Ravindra Kumar Gupta*	Indian Institute of Technology Roorkee
15:45 - 16:45	Modifying recent Ground Motion Prediction Equations using Egyptian seismological data.	Samar Ghareeb*	National Research Institute of Astronomy and Geophysics, Egypt

***** early career researcher with travel grant
^ early career researcher with fee waiver

POSTERS SCHEDULE

Date
25 June 2026

Time
10:40 – 11:25

Location
University of Zagreb, Croatia

Conference Title GEM Conference 2026 : From faults to future scenarios

Time	Title	Presenting Author	Affiliation
10:40 - 11:25	Inequality in Disaster Outcomes: Learnings from High-Risk Groups through Solidarity Practices	Senem Doyduk	Sakarya University, Turkey
10:40 - 11:25	An adaptive, uncertainty-aware framework for regional seismic risk assessment integrating microzonation and multi-level vulnerability and exposure modeling	Federico Ugolini	University of Trento, Italy
10:40 - 11:25	Using Scenarios to Mitigate Earthquake Risk	Veronica Cedillos	Geohazards International, USA
10:40 - 11:25	Toward National-Scale Probabilistic Seismic Risk Assessment for Taiwan with Building-Level Exposure	Jia-Sheng Hung	National Central University, Taiwan
10:40 - 11:25	Seismic risk assessment of the Marrakech region using the RADIUS methodology and geographic information systems: a proposed preliminary study	Souad El Bakali Ettahiri	University of Hassan II Casablanca, Morocco
10:40 - 11:25	Scenario-Based Seismic Risk Assessment for the City of Fez, Morocco	Ismail Bouabid*	University of Hassan II Casablanca, Morocco
10:40 - 11:25	Fault-Based Scenario Seismic Hazard Analysis for Bulawayo, Zimbabwe: Insights from the 2008 Nyamandlovu Earthquake	Brassnavy Manzunzu*	National University of Science and Technology, Zimbabwe
10:40 - 11:25	Scenario-based Regional Scale Seismic Risk Assessment	Shiladitya Mandal^	Indian Institute of Technology Madras

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LIVE DEMO SCHEDULE

Date
24 June 2026
25 June 2026

Time
10:30 – 11:30
10:40 – 11:25

Location
University of Zagreb, Croatia

Conference Title GEM Conference 2026 : From faults to future scenarios

Time	Title	Presenting Author	Affiliation
Jun 24, 2026			
10:30 - 11:30	IRMA- Italian Risk MAps: A platform for seismic risk assessment of different exposed assets	Barbara Borzi	Eucentre Foundation, Italy
10:30 - 11:30	Rapid RAPID-Lens: An Integrated GUI for Automated Building Typology Classification using Vision Transformers and Street-Level Imagery	Sukh Sagar Shukla^	Indian Institute of Technology Mandi
10:30 - 11:30	Comparative Seismic Risk Assessment of Indian Urban Centers under the Revised IS 1893 Hazard Framework	Ravi Kanth Sriwastav^	Pandit Deendayal Energy University, India
15:45 - 16:45	SwissRe CatNet® - a tool for natural hazard analysis	Michael Ewald	SwissRe, Switzerland
15:45 - 16:45	New Zealand Liquefaction Model - challenges and opportunities	Maxim Millen	Tonkin & Taylor Ltd, New Zealand
15:45 - 16:45	From Static Maps to Interactive Analysis: An Information System for the DOST-PHIVOLCS Spectral Acceleration Map of the Philippines	Jonathan Victolero^	University of Southeastern Philippines
15:45 - 16:45	A Reproducible GMPE-Ensemble Framework for Ground Motion Simulation of 2019 Silivri, Istanbul (Mw 5.8) Earthquake	Wilfrid Djima	Gebze Technical University, Turkey
Jun 25, 2026			
10:40 - 11:25	Development of the Japan Strong Motion Data Platform	Yuma Matsumoto	National Research Institute for Earth Science and Disaster Resilience, Japan
10:40 - 11:25	Rapid Tsunami Inundation and Risk Modelling with Machine Learning and OpenQuake	Naveen Ragu Ramalingam^	Norwegian Geotechnical Institute
10:40 - 11:25	Shake Anywhere: a simulation-free AI-based earthquake ground motion generator for any source/any geology	Filippo Gatti	CentraleSupélec/Université Paris-Saclay, France
10:40 - 11:25	An OpenQuake-Based Rapid Earthquake Loss Estimation System for Romania and Its Role in Decision Support	Dragos Toma-Danila	National Institute for Earth Physics, Romania

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