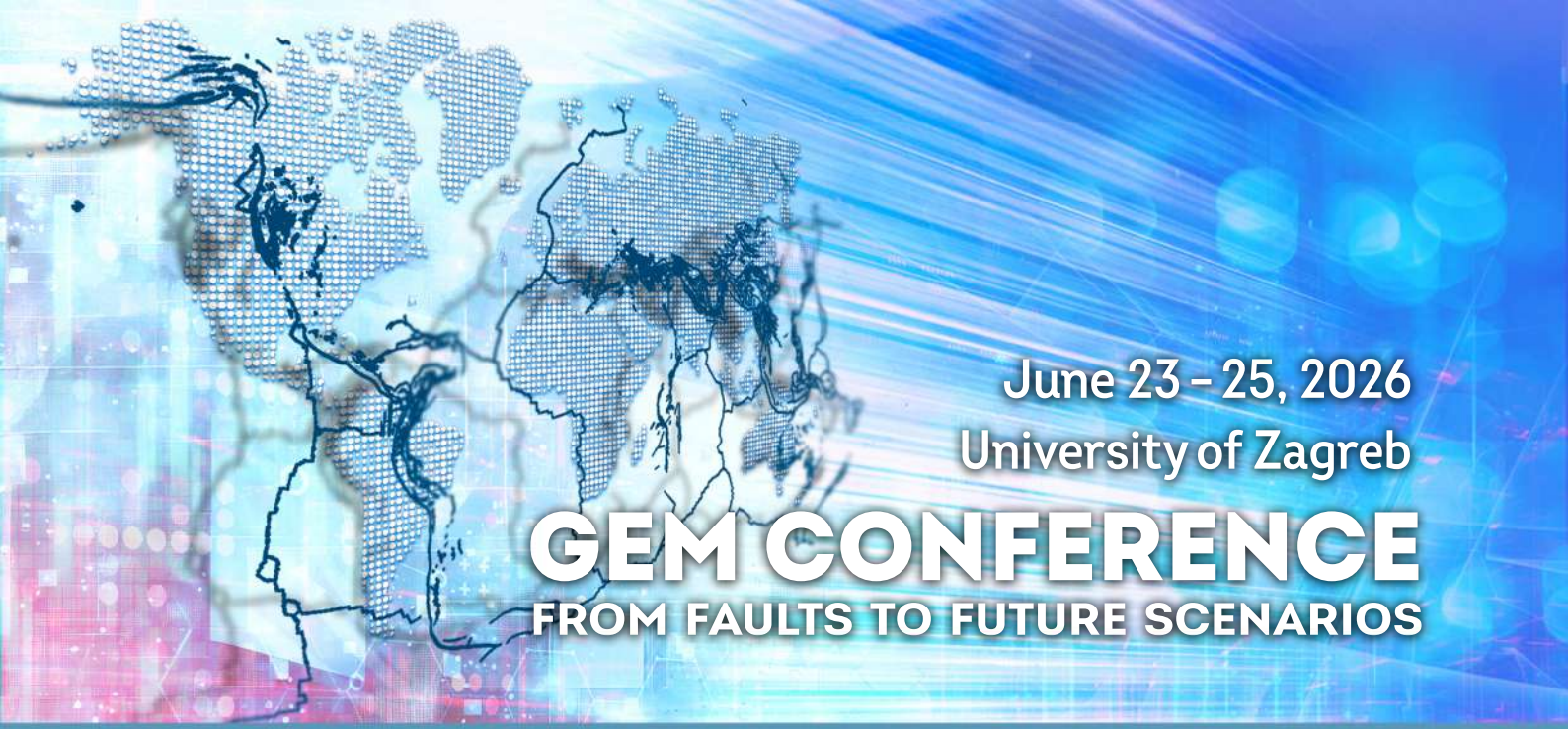

June 23 - 25, 2026

University of Zagreb

GEM CONFERENCE

FROM FAULTS TO FUTURE SCENARIOS

SCIENTIFIC PROGRAM

The sessions summarised below are those that are open to contributions from the community through the **Call for Abstracts**. When submitting an abstract, please choose which session it should be considered under.

During abstract submission you can choose between "*Oral*" or "*Demonstration*". Please note that during the review stage, should your contribution be accepted, the category of your contribution may be changed by the reviewers.

If your contribution is a Demonstration, it will be part of the **GEM and Partner Labs** which be running all day on Thursday and on Friday morning. You might also be selected to give a 5 minute **Ignite** presentation on Thursday morning.

Forecasting Exposure / Vulnerability to 2065

In this session we want to look to the future. What might the world be like in 2040, 2050, or 2065? How has the global landscape of seismic risk changed? What are the drivers of these changes, and how might the choices we make today impact the way the world will look in the future?

We welcome contributions on methods to forecast exposure, vulnerability and seismic risk at different scales of application (from city level to global scale), as well as on the underlying socio-economic datasets that are needed for these forecasts.

Disaster Risk Reduction Applications

In this session we want to showcase a number of applications of disaster risk reduction around the world, from emergency planning, to seismic design code calibration to national retrofitting strategies.

Come and share with us your stories on how GEM data and models have been used in your city or country for reducing the risk from earthquakes. We also want to hear where the gaps are, and where you think more research and development is needed.

Financial Risk Transfer

In this session we want to discuss how seismic risk models, like those developed by GEM, are supporting financial risk transfer around the world. We want to hear about the latest insights in microsinsurance, parametric risk solutions, and national cat bonds.

Scenarios

In this session we want to discuss how seismic risk models, like those developed by GEM, are supporting financial risk transfer around the world. We want to hear about the latest insights in microsinsurance, parametric risk solutions, and national cat bonds.

- the lessons learned from recent damaging earthquakes;
- the use of "what if" scenarios for emergency planning or for forecasting risk;
- the use of scenarios for testing and evaluating models;
- the short-term forecasting of earthquakes after a damaging earthquake;
- how to model cascading hazards after a large damaging earthquake (tsunamis, landslides, liquefaction)

Working Group on National Seismic Hazard Modelling Guidelines

National seismic hazard (and risk) mapping (NSHMs) programs are large-scale projects involving various organisations and experts with different backgrounds. The results of these studies influence the mid- and long-term risk reduction strategies in the public sector, as well as various financial activities in the private sector.

In this session, we will discuss the challenges involved in constructing and implementing these programs. We welcome national representatives currently involved in NSHM programs to share their experiences and views. Additionally, we invite various stakeholders to illustrate usage examples of NSHM products, explain potential areas for improvement or changes in the products, and the process used to reach them. This session will also be an opportunity to provide an update on the ongoing initiative that aims to prepare guidelines for performing NSMP programs

GEM and Partner Labs (Live Demos)

In the exhibition area outside of the main auditorium we will have a number of booths where GEM staff and partners can demonstrate their work, including software, tools, websites and monitorpresentations.

Any contribution submitted as a "Demonstration" will be considered for inclusion in the labs.