

# 3<sup>rd</sup> International Conference on Resilience Earthquake Engineering and Structural Health Monitoring



Torino – Ispra, Italy  
June 24 – 27, 2024

## Wednesday, June 26 Technical Session on the Messina Strait Bridge



The decade-long discussion over the feasibility of the Messina Strait Bridge could finally come to an end, with the construction of the bridge that will become the longest suspension bridge in the world set to start in 2024. The Messina Strait is one of the most seismically active areas of the Mediterranean, that could be struck by Mw 7.1-7.4 earthquakes with PGAs exceeding 1g. The construction of a bridge connecting the island of Sicily to the Italian peninsula represents a compelling technical challenge as well as an incredible opportunity that would open a new mobility corridor, making the South of Italy a key node in the European infrastructure system.

The technical session will present several original aspects about design challenges, seismotectonic setting of the region, influence on the design of future suspension bridges, economic opportunities, and more.



### Technical Session Program



**Prof. Carlo Doglioni**  
Sapienza University of Rome  
INGV President

2:00 pm - The seismotectonic and seismic hazard of the Messina Strait



**Prof. Enzo Siviero**  
IUAV University of Venice  
eCampus Rector

2:45 pm - Messina Bridge: a challenge for the future

3:30 - Discussion

4:00 - Coffee Break



**Prof. Piero D'Asdia**  
University of Chieti and Pescara

4:15 pm - The milestone achieved in the field of long span suspension bridges thank to the case of Messina bridge



**Prof. Giorgio Diana**  
Polytechnic University of Milan

5:00 pm - The Strait of Messina Bridge: Design aspects related to wind effects and train runnability

5:45 pm - Discussion



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