

# OPEN LECTURE

December 10<sup>th</sup> , 2018

10:30, Room 4.17 – Ed. IX



## STATIC AND SEISMIC BEHAVIOUR OF HISTORICAL MASONRY STRUCTURES



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Assoc. Prof. Maurizio Orlando was graduated in 1993 from the University of Florence. He received his PhD in Structural Engineering in 1999 from the same institution. He has authored more than 140 research papers in historical masonry structures, structural identification, strengthening and repair of existing structures, glass structural elements etc.

#### SUMMARY OF THE LECTURE:

In Mediterranean countries the identification of the structural capacity of masonry structures against both vertical and seismic loads is a very crucial task, as many old buildings are made of masonry. Usually they have complex geometries, which cannot be dealt with standard structural schemes. In the first part of the lecture, critical issues which arise in the structural identification of historical masonry structures are discussed. In the second part, several Italian case studies are presented, including some retrofitting techniques.

