



PROF. MARCO VONA

SCIENTIFIC CURRICULUM VITAE:

Marco VONA is Assistant Professor of Civil Engineering at the University of Basilicata.

He holds his PhD "Design, monitoring and retrofitting of conventional and innovative structures" at the Faculty of Architecture of University of Chieti - Pescara (Italy), PhD school.

The research activities are mainly related to earthquake engineering problems. Scientific research activities were carried out in the large field of seismic engineering following a logical and structured path. Over the years, the research activity has been focused in the study and development of accurate numerical models aimed at studying the vulnerability of RC buildings.

Some experimental activities for the study and development of survey methodologies for evaluating the mechanical properties of concrete have been carried out on structural elements and structures. Over the recent years, an innovative research line is the activities related to the evaluation of the dynamic characteristics of structures through numerical models and laboratory experiments based on real cases. The applications of these activities are both in the study, on a large scale, of the seismic vulnerability (e.g. by means of remote sensing) and in the study, on individual buildings, of the damage caused by the earthquake.

Finally, a novel and multidisciplinary approach to seismic risk mitigation is studied based on the concept of resilience. Thus, interventions at urban scale, reducing urban seismic vulnerability, have been defined using a spatial multi-criteria approach and a multi-criteria decision making analysis.

Marco Vona is editorial board member and reviewer of several International prestigious journals and is Organizers in International Conferences.

Marco Vona has experiences as consultant engineer for retrofitting problems and innovative structures, structural dynamics and earthquake engineering. He has worked for various firms as independent consultant. Experience include seismic evaluations of existing buildings and retrofit using advanced techniques. Additional experience in design, construction and site inspections of residential and strategic buildings. Chief structural design for several Reinforced Concrete Buildings with Base Isolation System and Seismic vulnerability evaluation and Seismic retrofitting of several buildings school.

RESEARCH AND PROFESSIONAL INTEREST

Civil Engineering.

Earthquake Engineering.

Seismic Design, Analysis of Structural and Nonstructural Components.

Vulnerability Assessment and Retrofitting of Structures.

Seismic Risk.

Resilience and Sustainability.

Experimental Research Lab Activities.

Marco Vona is membership of IALCCE - International Association for Life-Cycle Civil Engineering.

Marco Vona is reviewer of some international prestigious journals as

1. Automation in Construction (Elsevier)
 2. Bulletin of Earthquake Engineering (Springer)
 3. Computers and Concrete, An International Journal (TECHNO PRESS)
 4. Disaster Advances
 5. Earthquakes and Structures (TECHNO PRESS)
 6. Earthquake Engineering and Engineering Vibration (Springer)
 7. Earthquake Engineering and Structural Dynamics (Elsevier)
 8. Earthquake Spectra (EERI)
 9. Engineering Structures (Elsevier)
 10. Journal of Structural Engineering (ASCE)
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11. Journal of Civil Engineering and Architecture Research (Ethan Publishing Company)
 12. Natural Hazard (Springer)
 13. Open Journal of Civil Engineering (Scientific Research Publishing)
 14. Risk Analysis
 15. Structural Engineering and Mechanics (Techno Press)
 16. Structure and Infrastructure Engineering (Taylor and Francis)
 17. Structures (Elsevier)
 18. The Scientific World Journal - Civil Engineering (Hindawi)
 19. The Arabian Journal for Science and Engineering (Springer)

Marco Vona is editorial board member of:

- African Journal of Engineering (Hindawi Publishing Corporation);
- Journal of Civil Engineering and Architecture Research (Ethan Publishing Company);

and he was editorial board member The Scientific World Journal (Civil Engineer) and.

Marco Vona is reviewer of several proposal and project for different authority and corporation as:

- Ministry of Education, University, and Research, Italy.
- Ministry of Science, Technology & Space, Israel.
- Ministry of Education and Science of the Republic of Armenia.

Marco Vona has been organizer and chair in national and international conferences as:

- ECCOMAS Congress.
- CompDyn.
- ICCSA ASTER 2015

Marco Vona is Scientific committee member of Biennial of University Book.

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Ministry of Education, University, and Research, Italy.

Ministry of Science, Technology & Space, Israel.

Ministry of Education and Science of the Republic of Armenia.

PROFESSOR'S OFFICE HOUR:

Wednesday, 10:30 - 12:30, Thursday, 9:30 - 10:30

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