PROF. Marco VONA

SCIENTIFIC CURRICULUM VITAE:

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 has participated to several national and international research contracts and research projects. He has participated as speaker in several international conferences and he is reviewer of some international prestigious journals.

The results of the research activities are reported in about 100 papers, on national and international reviews, conference proceedings and books.

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

Marco Vona is editorial board member of The Scientific World Journal (Civil Engineer) and African Journal of Engineering (Hindawi Publishing Corporation). He is reviewer of some international prestigious journals as:

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