SPONSE INTERNATIONAL ASSOCIATION FOR THE SEISMIC PERFORMANCE OF NON-STRUCTURAL ELEMENTS

Research Organization:
Sapienza University, Rome, Italy

Individual Member:
Fabrizio Mollaioli, Associate Professor, Ph.D.

Short CV:
He was schooled at the Sapienza University of Rome in Structural Engineering. For a short period (1990) after the University Degree he cooperated with the Department of Structural and Geotechnical Engineering of the Sapienza University of Rome on a research on the calibration of behaviour factor for reinforced concrete frames according to Eurocode 8 methodologies. From 1990 to 1999 he was a researcher of the Italian National Group for Earthquake Loss Reduction (GNDT) of the National Research Council (CNR). During that period he obtained his Ph.D. in Structural Engineering (1996). Then he moved to the School of Architecture of the Sapienza University of Rome as Assistant Professor in Structural Engineering (2000-2006). He is now Associate Professor (since 2007) at the Sapienza University of Rome and teacher of Laboratory of Structural Design. He has years of experience in conducting multi-component research and consulting as a practitioner. He is registered P.E. in Rome and maintains an active consulting practice to assist engineering firms and government agencies with problems in earthquake engineering and vulnerability assessment and survey. He was active member and contributor of numerous research and professional organizations including Italian National Group of Earthquake Loss Reduction and National Seismic Survey. A considerable scientific effort was devoted to the post-earthquake safety evaluation and vulnerability assessment of buildings and the formulation of vulnerability models including the survey form to collect the data. From 1997 to-2005 he was Member of the Technical and Scientific Committee of the Umbria region, affected by the 1997-1998 earthquake sequence in charge of support local authorities involved in seismic vulnerability assessment, post-earthquake reconstruction activities and in preparing and writing regulations for seismic reduction programs. He is author, in Italy and abroad, of more than 150 scientific papers on topics of Earthquake Engineering. His research was particularly oriented on: Seismic Vulnerability Assessment, Performance- Based Earthquake Engineering, Assessment and Retrofitting of Existing Buildings, Damage Potential of Earthquake Ground Motion, Modeling, Analysis and protection of structural systems under seismic excitations, Loss Assessment, Seismic Isolation, Engineering Seismology. Recently, his research is focussed on: Analysis of the response of structures to damaging pulse-type ground motions, Computational strategies for the seismic behavior of infilled frames, Improved characterization of earthquake ground motions, Development and application of nonlinear structural analysis methods and performance-based design criteria, Seismic response of asymmetric RC frames subjected to bidirectional ground motions, Floor acceleration demand in reinforced concrete frames, Ground motion selections methods for nonlinear analysis of structural systems, Seismic isolation of critical facilities. He also acts as a scientific referee for numerous international journals in the field.