Università di Genova

Sergio Lagomarsino

Full Professor

EDUCATION AND TRAINING

1989
PhD in Structural Engineering
University of Florence, Italy

1984
Graduated cum laude in Civil Engineering
University of Genoa, Italy

PROFESSIONAL HISTORY

2000 - ONGOING
Full Professor of Structural Engineering
University of Genoa, Italy

1998 - 2000
Associate Professor of Structural Engineering
University of Genoa, Italy

1990 - 1998
Assistant Professor
University of Genoa, Italy

ACADEMIC APPOINTMENTS

2003-2005
Deputy Dean of the Faculty of Engineering
University of Genoa

2008-2014
President of the Master Course on Architectural Engineering
University of Genoa

2009-2014
Coordinator of the PhD course on Structural and Geotechnical Engineering
University of Genoa

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EXPERIENCE

KEYNOTE LECTURES AT INTERNATIONAL CONFERENCES

September 15-19, 2019 - XVIII Convegno ANIDIS "L'Ingegneria Sismica in Italia", Ascoli Piceno
June 18-21, 2018 - 16ECEE – 16th European Conf. on Earthquake Engineering, Thessaloniki
August 25-29, 2014 - European Conf. on Earthquake Engineering and Seismology, Istanbul
October 14-17, 2014 - SAHC2014, 9th International Conference on Structural Analysis of Historical Constructions, Mexico City
June 19-20, 2014 - Romanian 5th National Conference on Earthquake Engineering, Bucharest
April 11-12, 2012 - 2012 EERI Annual Meeting & National Earthquake Conference, Memphis
October 6-7, 2011 - 4th Japan–Greece Workshop on "Seismic Design of Foundations, Innovations in Seismic Design, and Protection of Cultural Heritage", Kobe (Japan)
September 18-22, 2011 - XIV ANIDIS (L'ingegneria sismica in Italia), Bari (Italy)

INVITED LECTURES AT WORKSHOPS, SEMINARS AND COURSES

April 21, 2015 - Skellig Michael Research/Publication Seminar, Dublin
September 25, 2014 - NERA Project "Field testing and seismic vulnerability assessment", Wien
March 10, 2014 - ICOMOS Macedonian Regional Symposium, Skopje
February 18/19/20, 2014 - Three seminars in New Zealand:
"Seismic vulnerability of ancient masonry structures: post-earthquake actions and preventive mitigation strategies", Christchurch
"Seismic assessment of existing masonry buildings", Auckland
"Preservation of cultural heritage masonry structures in seismic areas: vulnerability models for risk analysis on territorial scale", Wellington
June 6-7, 2013 - Course "Seismic Vulnerability and Strengthen of Old Masonry Buildings", Lisbon
April 12, 2013 - Workshop on "Implementation of the EC8-Part3: Assessment and interventions, on buildings in earthquake prone areas", Athens
November 4-5, 2011 - EPPO Seminar on "The protection of the integrity of monuments under seismic actions", Thessaloniki (Greece)
November 8, 2011 - "Seismic rehabilitation of ancient constructions", Lisbon (Portugal)

SCIENTIFIC RESPONSIBILITY FOR RESEARCH PROJECTS ACCEPTED FOR FUNDING ON THE BASIS OF COMPETITIVE CALLS INVOLVING PEER REVIEW

2010-2012 - Coordinator of FP7 European project PERPETUATE - PERformance-based aPproach to Earthquake proTection of cUlturAl heriTage in European and mediterranean countries
2019-2024 - Co-cordinator of the WP4 "MARS (Seismic Risk Maps and Damage Scenario" within the project ReLUIS, funded by the Civil Protection Department (www.reluis.it)
2005-2018 - Co-cordinator of the Task "Vulnerability of masonry buildings" within the project ReLUIS, funded by the Civil Protection Department (www.reluis.it)
Coordinator of the PRIN project "Analysis and modelling of multi-leaf masonry structures for the protection of built heritage", funded by the Ministry of University and Research
2000-2002 - Coordinator of the GNDT project "Seismic scenario in Western Liguria Region", funded by the National Group for the Defence from Earthquakes

- Coordination of many applied researches, funded by Local Authorities and Private Companies

EDITORIAL BOARD MEMBER OF JOURNALS

"Earthquakes and Structures" (Eds. S.A. Anagnostopoulos, I. Takewaki and J.P. Lynch)

Università di Genova

Bulletin of Earthquake Engineering, Guest Editor of the Special Issue 13(1), 2015 "*Performance-Based Assessment of Cultural Heritage Assets: Outcomes of the European Project PERPETUATE*"

ACTIVITY IN DRAFTING PANELS OF STANDARDS

Member of Project Team 3, in charge with the revision of the Eurocode 8 (Design of structures for earthquake resistance) – Part 3 (Assessment and retrofitting of buildings and bridges)

Member of the Italian Commission UNI/CT 021, Structural Engineering, which is the national mirror group to CEN/TC 250 activities

NTC 2008 (Italian Building Code) and Instructions for NTC 2009 (chapters "7.8 Design of masonry buildings" and "8 Assessment and retrofit of existing buildings")

2013 - Instructions CNR-DT212 "Probabilistic seismic assessment of existing buildings" (member of the small drafting panel)

Person in charge for drafting the Italian Guidelines for cultural heritage structures, issued in 2007 by the Ministry of Cultural Heritage and Civil Protection Department (afterwards, I served in the drafting panel of the updated release of these Guidelines (2011), lined up with the Italian Building Code, NTC 2008)

2005 - Revision of OPCM 3274/2003, the seismic code issued in Italy by the Civil Protection Department after the Molise earthquake (2002)

OTHER EXPERIENCES

Coordination of the post-earthquake damage assessment of churches after the Umbria and Marche earthquake (1997). The proposed survey form sheet was formally adopted by the Italian Civil Protection Department for the following earthquakes and is used all over the world (Spain, Portugal, New Zealand)

Development of the program TREMURI for static and dynamic nonlinear analysis of masonry buildings. The program is used for design and assessment (3muri® stadata.com)

Chairman of the XI ANIDIS (Italian Conference on Earthquake Engineering), Genoa, 2004

RESEARCH TOPICS

- Numerical modelling of masonry structures
- Nonlinear static (pushover) and incremental dynamic analyses
- Probabilistic and practice-oriented procedures for the seismic assessment of existing masonry buildings
- Seismic risk, vulnerability and loss analysis
- Post-earthquake damage assessment and vulnerability of churches
- Retrofitting of ancient buildings and historical centres
- Preservation of cultural heritage structures