
BIOGRAPHICAL SKETCH

NAME: Gian Michele Calvi

POSITION TITLE:

Professor, Scuola Universitaria Superiore IUSS, Pavia, Italy

President Emeritus, European Centre for Training and Research in Earthquake Engineering (Eucentre), Pavia, Italy

Adjunct Professor, North Carolina State University, Raleigh, NC, USA

Presidente, International Association for Earthquake Engineering (IAEE), Tokyo

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	Completion Date	FIELD OF STUDY
Università di Pavia, Italy	Ph D	1987	Structural Engineering
University of California, Berkeley, USA	M Sc	1985	
Politecnico di Milano, Italy	M Eng	1981	

A. Personal Statement

Gian Michele Calvi has been the founder of the Eucentre Foundation and of the ROSE School (with M.J.N. Priestley). In 1996 he created the *Journal of Earthquake Engineering*, with A.S. Elnashai and N.N. Ambraseys, where he still serves as associate editor.

B. Positions and Honors

Positions and Employment

1987 – 1992	Assistant Professor, Department of Structural Mechanics, University of Pavia
1992 – 1999	Associate Professor, Department of Structural Mechanics, University of Pavia
2000 – 2010	Professor, Department of Structural Mechanics, University of Pavia

Honors

1984	Fulbright - Hays Fellowship , Commission for Cultural Exchanges between U.S.A. and Italy
1985	Research fellowship , Foundation Stiftelsen Blanceflor Boncompagni Ludovisi, Stockholm, Sweden
2006	<i>fib Award for Outstanding Concrete Structure for the contribution to the design and construction of the Rion-Antirion Bridge</i> , Lausanne, Switzerland
2007	<i>Vote of Thanks</i> , for promotion to professorship of Julian Bommer, Imperial College, London
2009	Inaugural lecture (<i>Prolusione</i>) for the academic year 2009-2010 at the Università di Pavia, Italy
2009	Prize <i>La Lombardia per il lavoro</i> , Milano, Italy
2009	Honorary Doctorate , Universidad Nacional de Cuyo, Mendoza, Argentina
2012	Shaw Lecture Award , North Carolina State University, USA

2014	ROSE School Prize , Pavia, Italy
2015	Inaugural lecture (<i>Prolusione</i>) for the academic year 2015-2016 at the IUSS Pavia, Italy
2017	Distinguished Lecture Award , Dept. of Civil, Architectural, and Environmental Engineering (CAEE), University of Texas at Austin, USA
2020	Park and Paulay Lecture Award , New Zealand Society for Earthquake Engineering (NZSEE), Wellington, NZ
2022	Engineering Structures (Elsevier) Best Paper Award 2022 - Bridge Engineering section - Collapse analysis of the multi-span reinforced concrete arch bridge of Capriogliola, Italy
2025	Malnet-Milne Lecture Award , Society for Earthquake and Civil Engineering Dynamics (SECED), London

Patents

January 2014	Patent cooperation treaty application number WO2013050812 (A1), April 2013, European patent application number EP2683889 (A1) <i>Application Number</i>
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Reviewer Experience

Journal of earthquake engineering

Earthquake engineering and structural dynamics

C. Contributions to Science

Gian Michele is author of several books, including *Seismic design and retrofit of bridges* (with M.J.N. Priestley and F. Seible, 1996), *Displacement-Based Seismic Design of Structures* (with M.J.N. Priestley and M.J. Kowalsky, 2007), *Seismic design and analysis of tanks* (with R. Nascimbene, 2023), *The art of seismic design* (a “Master Series” monograph, written by invitation of the IAEE President, 2024).

He has been invited keynote speakers in tens of conferences, including four *World* and four *European Conferences on Earthquake Engineering*.

He has been designer, consultant or checker for hundreds of structural projects, including: the Rion-Antirion cable stayed bridge (1999-2004, 2883 m, in Greece); the Anatolian Viaduct (2000-2003, 119 spans, in Turkey); the new housing system after L’Aquila earthquake (2009-2010, with 185 buildings seismically isolated with more than 7,000 devices, completed in about six months); the construction of 103 schools in Costa Rica (2013-2018, for the IAD bank); the assessment and strengthening program in the area of Groningen, in The Netherlands (2013-2024, due to problems of induced seismicity).

He has been always active in conceptual innovation in seismic design, focusing on masonry in his early days, on bridges, displacement-based design and seismic isolation from the nineties.

O’Reilly, G.J., R. Monteiro, A.M.B. Nafeh, T.J. Sullivan and **G.M. Calvi (2020)**. Displacement-based framework for simplified seismic loss assessment. *Journal of earthquake engineering*, 24, 1-22

Calvi G.M., M. Moratti, G.J. O’Reilly, N. Scattarreggia, R. Monteiro, D. Malomo, P.M. Calvi, and R. Pinho (2019). Once upon a Time in Italy: The Tale of the Morandi Bridge. *Structural Engineering International*, 29(2), 198–217

O’Reilly and **G.M. Calvi (2019)**. Conceptual seismic design in performance-based earthquake engineering. *Earthquake engineering and structural dynamics*, 48(4), 389-411

Calvi, G.M. (2018). Re-visiting design earthquake spectra. *Earthquake Engineering and Structural Dynamics*, 47(13), 2627-2543

Calvi G.M., Rodrigues D., Silva V. (2018). Introducing new design spectra derived from Italian recorded ground motions 1972-2017. *Earthquake Engineering and Structural Dynamics*, 47(13), 2644-2660

Borzi, B., Ceresa P., Franchin P., Noto F., Calvi G.M., Pinto P.E. (2015). Seismic Vulnerability of the Italian Roadway Bridge Stock, *Earthquake Spectra*, 31(4), 2137-2161

Welch, D.P., Sullivan. T.J., Calvi G.M. (2014). Developing Direct Displacement-Based Procedures for Simplified Loss Assessment in Performance-Based Earthquake Engineering, *Journal of Earthquake Engineering*, 18(2), 2014, 290–322

Calvi G. M. (2013), Choices and Criteria for Seismic Strengthening, *Journal of Earthquake Engineering*, 17(6), 769-802

Stucchi M., Meletti C., Montaldo V., Crowley H., **Calvi G. M.**, Boschi, E. Seismic Hazard Assessment (2003-2009) for the Italian Building Code (2011), *Bul. of the Seismological Society of America*, 101(4), 1885–1911
Calvi, G.M., Sullivan T.J., Villani A. (2010). Conceptual Seismic Design of Cable-Stayed Bridges, *Journal of Earthquake Engineering*, 14(8), 1139-1171

D. Past and Ongoing Research Support

From - To	Project Title	Funding Agency	Role in the project
2012 – 2015	STRIT - Tools and technologies for the management of the risk of transport infrastructures	Italian Ministry of Research: PON01_02366	Local Coordinator
2012 – 2015	PRISMA - Smart cloud platforms and interoperable for the e-government of the security in areas of high seismic risk	Italian Ministry of Research: PON04_a2_A	Local Coordinator
2013 – 2015	DIONISO - Seismic domotics innovative technologies for home and system safety	Italian Ministry of Research: SCN_00320	Local Coordinator
2013 – 2016	STREST - Harmonized approach to stress tests for critical infrastructures against natural hazards	EC, C.N.: 603389	Local Coordinator
2014 – 2015	ECOSTRESS - Ecological coastal strategies and tools for resilient European Societies	EC, ECHO-SUB-2013-671461	General Coordinator
2014 – 2015	STEEL-EARTH - Steel-based applications in earthquake prone areas	EC, C.N.: RFS2-CT-2014-00022	Local Coordinator
2012 – 2015	STRIT - Tools and technologies for the management of the risk of transport infrastructures	Italian Ministry of Research: PON01_02366	Local Coordinator
2012 – 2015	PRISMA - Smart cloud platforms and interoperable for the e-government of the security in areas of high seismic risk	Italian Ministry of Research: PON04_a2_A	Local Coordinator
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2014 – 2015	STEEL-EARTH - Steel-based applications in earthquake prone areas	EC, C.N.: RFS2-CT-2014-00022	Local Coordinator

E. Experience as a research supervisor

34 Postdocs

45 PhD students

143 Master students