

Prof. Carlo Pellegrino - Brief Curriculum Vitae

Carlo Pellegrino is Full Professor of Structural Analysis and Design and Head of the Department of Civil, Environmental and Architectural Engineering, University of Padova, Italy.

He is elected member of the Academic Senate, University of Padova, Italy.

Laurea (B.Sc. and M.Sc.), "magna cum laude", Civil Engineering, University of Padova, Italy (1994). Ph.D. in "Mechanics of Structures", University of Bologna, Italy (1998).

Coordinator of several national and international research projects: "Monitoring and structural rehabilitation of existing structures with innovative materials", funded by University of Padova (2002); "Optimal resource allocation for seismic retrofit of bridges in the transportation network", Relevant Italian Research Project (PRIN) funded by the Italian Ministry of Research and Education (2007); "Assessment of residual life, rehabilitation and strengthening of bridges and viaducts" funded by University of Padova.

Coordinator of the research programme for a PhD fellowship, financed by the Foundation CARIPARO, 2009-2012 "Life-cycle and vulnerability evaluation of strategic infrastructures and definition of retrofiting priorities". Coordinator of various research projects for research grants: "Strategies for reducing seismic vulnerability of existing bridges within network systems" funded by University of Padova; "RiskUp! UPdate with Bayesian techniques of the prediction of the behaviour (RISK) of seismic devices" funded by European Social Fund; "Structural strengthening of existing constructions by means of innovative composites with high strength fibers and cementitious mortars" funded by European Social Fund; Special Project: "Seismic behaviour of Lifelines" funded by RELUIS Italian Network of Seismic Engineering Laboratories (Italian Civil Protection).

Participant in the COST Action "Design Guidelines for Composites for Constructions" and in the COST Action "Quality specifications for roadway bridges, standardization at a European level (BridgeSpec)" (European Cooperation in Science and Technology).

Scientist-in-charge for the University of Padova in the European Project "European Network for Durable Reinforcement and Rehabilitation Solutions – endure" FP7-PEOPLE-2013-ITN.

Co-scientist-in-charge for the University of Padova in the European Project "EU Training Network for Resource Recovery through Enhanced Landfill Mining – NEW-MINE", call: H2020-MSCA-ITN-2016.

Referee for the selection of international research projects.

Memberships of various national and international technical and scientific associations as: IABMAS, IALCCE, RILEM, AICAP, CTA, ANIDIS, CIFI, IIFC.

Past Chairman of the RILEM Technical Committee 234-DUC "Design procedures for the use of composites in strengthening of Reinforced Concrete structures".

Member of the RILEM Technical Committee 207-INR "Interpretation of NDT results and assessment of Reinforced Concrete Structures" and the fib Task Groups 4.5 "Bond Models" and 2.5 "Bond in Concrete".

Member of the Editorial Advisory Committee of the international journal "Materials and Structures", Springer. Member of the Editorial Board of the international journal "Structural Monitoring and Maintenance (SMM)", Techno Press and of the "Journal of Civil Engineering and Architecture", David Publishing Company. Referee of more than 40 international journals.

Author of over 250 scientific publications, over 80 of them in referred ISI journals with more than 1700 citations about the following topics: assessment, rehabilitation, strengthening and retrofit of buildings and bridges; seismic vulnerability and risk of existing buildings and bridges; integrated risk assessment and management of bridges in transportation networks; advanced strengthening techniques by means of innovative techniques; use of recycled components for structural materials.

Keynote speaker and member of the Editorial Board/International Scientific Committee of several International Conferences. Organizer of various Special Sessions/Mini-Symposia in International Conferences. Member of the Organizing Committee of various national and international conferences.

Past Member of the Council of the European Master (Erasmus Mundus) "Advanced Masters in Structural Analysis of Monuments and Historical Constructions" and coordinator of the unit SA5 "Repairing and strengthening techniques".

He holds the courses of "Structural Analysis and Design", "Assessment and improving the safety of

existing structures” and “Design of Bridges” at the University of Padova and various post-graduate courses.

Member of the Council of the Ph.D. School in "Civil, Environmental and Architectural Engineering Sciences" (University of Padova). Supervisor of several Master and Ph.D. theses.

Co-Editor of the book *“Design Procedures for the Use of Composites in Strengthening of Reinforced Concrete Structures - State-of-the-Art Report of the RILEM Technical Committee 234-DUC”*, 392 pp., Springer Netherlands, Series “RILEM State-of-the-Art Reports”, 2015.

Co-Author of the book *“Sustainability Improvements in the Concrete Industry - Use of Recycled Materials for Structural Concrete Production”*, Springer International Publishing, 2016.