



Prof. Eng. Barbara Frigo

Associate Professor – Structural Mechanics

Department of Structural, Geotechnical and Building Engineering
Politecnico di Torino
Corso Duca degli Abruzzi, 24
10129 Torino

barbara.frigo@polito.it

Academic career and technical competences

- Member of SISCON Centre "Safety of Infrastructures and Constructions" – Politecnico di Torino (IT)
- Since 2020: Member of the Board of Directors of Fondazione Montagna sicura - Montagne sûre - Courmayeur, VdA (IT), a research organisation devoted to the study of phenomena and hazards affecting the mountain environment.
- November 2016 - January 2017. Research at the "Sustainable Construction" chair (Prof. Dr. G. Habert) of the Institut für Bau und Infrastrukturmanagement (IBI) - Swiss Federal Institute of Technology (ETH), Zurich (CH) on the mechanical characterisation of eco-sustainable concretes.
- May 2007 – Ph.D. in Structural Engineering at Politecnico di Torino.
- September 2003 - Master degree in Environmental and Land Engineering at the Politecnico di Torino.
- March – April 2003 Research internships at "Snow and Avalanches" section – "Snow avalanche dynamics and numerical simulations" group at SLF – Swiss Federal Institute for Snow and Avalanche Research - Davos (CH).

Author of more than 130 scientific publications on the topics of Mountain Engineering, Infrastructure Engineering in Cold Regions, interaction between structures and natural phenomena, characterisation of historical concrete, snow/ice mechanics.

Member of prestigious scientific associations such as the International Glaciological Society (IGS) in Cambridge (UK), the International Permafrost Association (IPA), the Italian Fracture Group - IGF and the European Structural Integrity Society - ESIS.

Reviewer for scientific journals including: Nature - Scientific Reports, Natural Hazard and Earth System Sciences (NHESD), Cold Regions Science and Technologies (CRST), International Journal of Disaster Risk Reduction - IJDRR, Journal of Geophysical Research - JGR, Structures, Frontiers in Earth Science, GeoSciences; as well as reviewer of

Reviewer of research and innovation projects for research and institutional organisations, including the Comité d'évaluation «Physique subatomique, sciences de l'Univers, structure et histoire de la Terre» of the Agence Nationale de la Recherche (ANR) - Paris (FR), La Région Auvergne-Rhône Alpes - Lyon (FR), the Swiss National Science Foundation (SNSF) - Bern (CH), the Natural Environment Research Council - Swindon (UK).

- October 2018. Avalanche Divas Awards, to women who have made significant contributions in the field of snow and avalanches - Innsbruck (A).
- June 2015. Awarded by JCI (Japan Concrete Institute) - Best Technical Paper Award for the paper "A simplified approach for the evaluation of old concrete strength" di A. P. Fantilli, B. Frigo, B. Chiaia.

Professional activity

She has been a member of the Aosta Register of Engineers since 2004 (A-552).

Consulting activities in:

- - Design of structures and infrastructures in the alpine environment and subjected to natural hazards;
- - Environmental engineering and renewable energy;
- - forensic engineering.