

Prof. Alberto Zasso
CURRICULUM



Born in Brescia, on June 10, 1960, Mechanical Engineering degree from Politecnico di Milano in 1985 and the PhD in "Applied Mechanics" in 1989, Researcher in 1990, Associated Professor in 1998 and Full Professor in 2008 in Applied Mechanics at Dipartimento di Meccanica-POLIMI.

Chair/Lecturer of the following Courses: Applied Mechanics and Mechanical Vibrations within BSc Mech. Eng., Mechanical System Dynamics and Wind Engineering within MSc Mech. Eng., Lecturer at CISM on "Aerodynamic design of wind structures (Wind Turbines)" in the course "Environmental Wind Engineering and Wind Energy Structures".

Research activity on the Wind Engineering and Wind Energy fields: 1) fluid-structure interaction of long-span suspension bridges; 2) modal and aeroelastic parameters identification of slender structures under wind action; 3) bluff body fluid-dynamics and vortex shedding induced vibrations of circular and rectangular section cylinders; 4) high rise buildings fluid-structure interaction; 5. wind energy: wind tunnel tests on horizontal axis (scaled models) and vertical axis (scale models & full scale prototypes) wind turbines; 6) CFD modelling of the wind tunnel simulated atmospheric boundary layer (LES Open Foam environment on HPC) for applications on the built environment and on wind turbines. The scientific activity resulted in more than 100 publications at National and International level. President of ANIV, the Italian Wind Engineering Association, POLIMI representative within EERA Joint Programme Wind Energy, local coordinator of the two Horizon 2020 Projects CL-Windcon "Closed loop wind farm control" and LIFES50+ "Qualification of innovative floating substructures for 10MW wind turbines and water depths greater than 50m".

Responsible for the design and realization of the Boundary Layer Wind Tunnel at Campus Bovisa POLIMI, nowadays the most significant facility for Wind Engineering applications in Europe, Prof. A. Zasso is at present the Director of the Wind Tunnel facility.

Concerning the participation to international relevant projects, Prof. Zasso has been Member of the Panel of Specialists (Expert for Aerodynamics and Aeroelasticity of the bridge) for the P.M.C. Advisory Activity concerning Stretto di Messina Suspension Bridge, member of the research team in charge of the aerodynamic design of the Messina Bridge (Italy Since 1989), member of the design team concerning aerodynamics and Wind Tunnel Tests for BB3 Third Bosphorous Bridge project (Turkey 2013), the Forth Replacement Crossing project (UK 2011), City Life project (Milano 2008). Consultant of leading design and construction companies (ARUP (UK), PARSONS (USA), Salini Impregilo (ITALY), ENEL Green Power (ITALY)).

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