

Looking back helps today's engineers prevent future structural failures: learning from collapse of World Trade Center

18.00-19.00 – December, 10th

Room 2.24 and

virtual at <https://politecnicomilano.webex.com/meet/liberato.ferrara>

Twenty years later, engineering students continue to learn from the structural factors that contributed to the collapse of World Trade Center buildings following the airplane impacts on 9/11.

Relying on [WTC investigation reports](#) from the National Institute of Standards and Technology (NIST) and including the findings of the paper by Zdeněk P. Bažant, professor of civil engineering and materials science at Northwestern University, “[Why Did the World Trade Center Collapse](#),” written two days after the collapse and published six days after that, the seminar will focus on how the buildings were constructed from an engineering perspective, including the interaction of foundation with the core, the steel columns and the floor systems to explain the causes of the collapse.

Barzin Mobasher

Professor of Civil and Environmental Engineering, Ira A. Fulton School of Engineering, Arizona State University. Main research interests: Constitutive modelling of materials, fracture mechanics, non-destructive testing techniques, experimental stress analysis, biomechanics, composite materials, chemical and mechanical properties of concrete. He is member of ACI, and in particular of Committees 446 – Fracture Mechanics, Secretary, 544 – Fiber reinforced Concrete, 549 – Thin section products, 440 – Fiber reinforced plastic Reinforcement.

