

Curriculum vitae

MATTEO GASTALDI

Matteo Gastaldi is Assistant professor in the field of "Material science and technology" at Politecnico di Milano where he teaches in the courses on construction materials and on durability of construction materials to the students of Civil Engineering (Bachelor of Science) and Building Engineering (Master of Science).

In the academic years 1996/97 he got a Degree in Industrial Engineering at Politecnico di Milano. From April 1998 to September 1998 he got a contract with Chemistry Physics Applied Department of the Politecnico di Milano. From September 1998 to March 1999 he was employed at the company CESCOR s.r.l, where he worked on the analysis of the corrosion condition of the steel and reinforced concrete structures, and on the design of cathodic protection systems. From March 1999 to March 2001 he was researcher by contract at Chemistry Physics Applied Department of the Politecnico di Milano. From March 2001 he is Assistant professor in the field of Material Science and Technology at Politecnico di Milano

The research activity is focused on the durability of construction materials and especially of reinforced concrete. In particular, his main interests have concerned: prevention and protection techniques for durability of reinforced concrete structures; design for durability of reinforced concrete structures, corrosion behaviour of stainless steel reinforcing bars, effects of galvanic coupling between carbon steel and stainless steel bars in repaired reinforced concrete structures, effect of cathodic prevention and protection on chloride contaminated or carbonated concrete structures, durability of externally bonded FRP, study on new cementitious materials and research on techniques based on the electro-osmotic flow for dehumidification of masonry interested by capillary suction.

The research activity has led to the publication of more than 100 works on international and national journals and conference proceedings. He has been also co-author of books.

SELECTED PUBLICATIONS (OF LAST YEARS)

Redaelli, Elena, Arrigoni, Alessandro, Carsana, Maddalena, Dotelli, Giovanni, Gastaldi, Matteo, Lollini, Federica, Bertola, Federica, Canonico, Fulvio, Nanni, Antonio (2019). Culvert prototype made with seawater concrete: Materials characterization, monitoring, and environmental impact. *ADVANCES IN CIVIL ENGINEERING MATERIALS*, vol. 8, p. 44-63, ISSN: 2379-1357, doi: 10.1520/ACEM20180114

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Redaelli, Elena, Carsana, Maddalena, Gastaldi, Matteo Maria, Lollini, Federica, Torabian Isfahani, Forood, Bertolini, Luca (2017). Corrosion behaviour of reinforcement in concrete with chloride-contaminated raw materials-Part II: On site preliminary results [Comportamento alla corrosione di armature in calcestruzzo con materie prime contaminate da cloruri - Parte II: risultati preliminari di prove in campo]. *LA METALLURGIA ITALIANA*, vol. 109, p. 43-46, ISSN: 0026-0843

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