



CURRICULUM VITAE

Edoardo PROVERBIO

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Educational background

He earned his Master's degree (MEng) *cum laude* in Nuclear Engineering at the University of Rome "La Sapienza," Italy, in 1988. From 1988 to 1990, he held different industrial fellowships focused on improving knowledge of corrosion monitoring in industrial plants. He served as a Research Fellow at the National Research Council (Rome, Italy) until 1991 and then for 9 months with a fellowship from the Japan International Science & Technology Exchange Centre (JISTEC) at the Government Industrial Research Institute of Nagoya, Japan.

Employment history

From April 1991 to October 1998, he was an Assistant Professor in Science and Technology of Materials at the University of Rome "La Sapienza," Italy, then from November 1998 to June 2005, an Associate Professor of Science and Technology of Materials at the University of Messina, Italy. He is currently Full Professor of Science and Technology of Materials at the University of Messina, teaching courses on Corrosion and Corrosion Protection Systems, Durability of Materials in Civil Engineering, and Materials and Industrial Plant Reliability.

His leadership roles include Chairman of the Board of the Degree Course in Industrial Engineering (BEng) for several terms (2004–2010, 2015–2018, 2019–2021) and serving as Head of Department for both Electronic Engineering/Industrial Chemistry (2012–2014) and Industrial Chemistry/Materials Engineering (2011–2013). Since the 2022/2023 academic year, he has been the Coordinator of the Doctoral Program in Engineering at the University of Messina.

Professional activities

Professor Proverbio has maintained a significant presence in international scientific committees and industrial consortia. From 1995 to 1998, he served as the Coordinator of the Working Group "Water corrosivity vs metallic materials" (Sector B) for CEOCOR (European Committee on the Study of Pipe Corrosion and Protection), subsequently serving as the Vice President of Sector B for internal corrosion and water treatment until 2000. Between 2002 and 2007, he was the Group Leader for the

project “Acoustic non-destructive techniques as new methods for evaluation of damages in prestressed concrete structures” and the Coordinator of the Working Group “New Assessment Method” within the European Science Foundation’s COST action 534.

He has been the Italian Delegation Leader and a Member of the Board of Directors for CEOCOR since 2015. Additionally, he served as a Member of the Directive Board of the National Inter-University Consortium for Science and Technology of Materials (INSTM) in Florence from 2008 to 2010. His leadership in the Italian metallurgical community includes serving as President of the Technical Committee on Corrosion of the Italian Association of Metallurgy from 2012 to 2018. He also contributed to the governance of the European Federation of Corrosion as a member of the Board of Administrators from 2017 to 2019 and again from 2020 to 2022.

Fields of research/activity

The research activities of Prof. Proverbio are on corrosion and protection of metals, mainly on corrosion monitoring in refinery and in building structures. He is an expert in the application of NDT techniques, in particular Acoustic Emission (AE) for corrosion monitoring and damage detection in materials, and in the development of tools for AE data analysis (e.g., multivariate procedures, PCA, SOM, and neural networks). He has performed numerous studies on the corrosion of rebars in concrete and on prestressed concrete structures. His expertise also includes stress corrosion cracking, localized corrosion, and failure analysis. Studies have been carried out on functional coatings (organic-inorganic hybrid coatings for heat pump technology and corrosion protection), the synthesis and characterization of oxide and complex oxide ceramic systems, the corrosion of non-oxide ceramics, and the characterization of cellular materials and metal foams. His recent research is heavily focused on the Green Energy transition, specifically the safety of transporting hydrogen through existing natural gas pipelines specifically evaluating the risks associated with transporting pure or blended hydrogen within existing natural gas infrastructure.

Based on Scopus abstract and citation database (February 2nd, 2026) Edoardo Proverbio is author of 236 peer-reviewed documents on materials science, physics and engineering. His publications gained 4288 citations and are ranked with a h-index of 39.

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