IMM Istituto per la Microelettronica e Microsistemi
Consiglio Nazionale delle Ricerche

Università di Catania

January, 13th 2026 – 11:00
Sala Conferenze (DFA – ground floor)

Sustainable Water and Wastewater Infrastructures and Material Innovation

Prof. Anna Laura Eusebi

The transition toward sustainable water systems requires increasingly close integration between advanced infrastructure design and the development of high performance functional materials. The seminar will explore innovative solutions for the treatment and management of water and wastewater resources, with particular focus on material durability, technologies for the removal of emerging contaminants, and intelligent sensors for real time monitoring. The role of new materials in enhancing the reliability, durability, and environmental impact of future water infrastructures will be examined, along with the main sustainability drivers, including support for the quantification of environmental indicators, resource recovery, and climate resilience.

Anna Laura Eusebi is Associate Professor of Environmental and Sanitary Engineering at Marche Polytechnic University. She has worked for many years on broad topics related to the development and validation of advanced technologies and processes for the treatment and valorization of liquid matrices, both municipal and industrial, with particular attention to environmental, energy, and carbon footprints. Since 2010, she has served as the Operations Director of the WWEELab (Water and Waste Environmental Engineering Lab) and of the UNIVPM experimental platform located at the Falconara Marittima wastewater treatment plant. Her experience has enabled collaboration with or coordination of around 80 research projects commissioned by companies, industries, and institutions, mainly in the water sector. She has participated or is currently participating as a researcher or scientific lead in several national and international projects within European programs (FP7, Horizon 2020, PRIMA, LIFE, COSME, JPI, ENI CBC MED). She is the author of articles in indexed journals and contributions to national and international conferences (H-index = 29, with over 2,500 citations). https://www.wweelab.it/

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