

Giuseppe Mancini short cv

1. Personal Data

Giuseppe MANCINI



Department of

**Industrial, Electrical, Electronic and
Computer Engineering**

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EDUCATION

Graduated cum Laude in Civil Engineering (Hydraulic section) at University of Catania, Italy, in 1994;

Ph.D. in Environmental Sanitary Engineering at the Polytechnic of Milan, in 2000;

Graduated cum Laude in Engineering for the Environment and the Territory at the "La Sapienza" University of Rome, Italy, in 2001;

He spent the last year of the doctoral program at the Centre for Water Research (CWR) of the University of Western Australia under the direct supervision of the Head of Department, prof. Jorg Imberger (Stockholm Water Prize). During that period, he dedicated his research activity to the development of Particle Tracking Velocimetry (PTV) techniques for the study of penetrative convection in stratified systems and its implications in pollutants dispersion in lakes and harbours

POSITION AND TEACHING ACTIVITIES

Associate professor in Chemical Plants (ING-IND/25 IMPIANTI CHIMICI) in the Course of Chemical Engineering of the University of Catania);

Head of the University Centre for the Management and Protection of Natural Environments and Agroecosystems at the University of Catania

He has attained the National Scientific Qualification as full professor in Chemical Plants and full professor in Environmental Sanitary Engineering

Senior Researcher in Environmental and Sanitary Engineering (ICAR03) at University of Catania, Italy, from 2001 to 2011, and Senior researcher in Chemical Plants since 2012, he has taught courses in the Degree Course of Engineering for the Environment and the Territory and in the Degree Course of Chemical Engineering for Industrial Sustainability. Specifically:

1) **Pollutant Dynamic** (A.Y. 02-03; 03-04; 04-05);

- 2) **Environmental and Sanitary Treatment Plants** (A.Y. 02-03; 03-04; 04-05; 09-10; 10-11; 11-12);
- 3) **Environmental and Sanitary Engineering** (A.Y. 02-03; 03-04; 04-05; 05-06; 06-07; 07-08; 5) 08-09);
- 4) **Pollutant Dynamic and contaminated sites remediation** (A.Y. 05-06; 06-07, 07-08).
- 5) **Chemical Plants** (A.Y. 12-13; 13-14; 14-15; 15-16; 16-17; 17-18; 18-19; 19-20; 20-21, 21-22; 22-23; 23-24; 24-25; 25-26; 26-27;).
- 6) **Industrial Chemistry and Technologies** (A.Y. 25-26; 26-27;).

Supervisor of more than 100 degree thesis, concerning, circular Economy, industrial symbiosis waters and waste treatments and recovery, contaminated site remediation and environmental monitoring in the Degree Courses of Engineering for the Environment and Territory and Chemical Engineering for Industrial Sustainability of the University of Catania.

He has taught at the University Master Courses "Water Management and Environmental Protection" and "Solid Waste Integrated Management and Contaminated Sites Remediation" of the "Scuola Superiore" of Catania University.

He was scientific responsible of the Laboratory of Environmental and Sanitary Engineering of the University Kore of Enna

He is Member of GRICU (Italian Group of Researcher in Chemical Engineering).

He is Member of IWA (International Water Association)

He is Member of IWWG (International Waste Working Group)

He was Member of ANDIS (Italian Association of Sanitary and Environmental Engineering).

He was Member of GITISA (Italian Group of Sanitary and Environmental Researcher).

He was Charter Member, first (2004-2007) and third (2009-2010) president of AIAT-SICILIA (Association of Environmental Engineers of Sicily region, founded in 2004) (www.aiatsicilia.it).

He is Currently President of the Italian Association of Environmental Engineering (AIAT, www.ingegneriambientali.it) (2021-2023 & 2014-2026)

SCIENTIFIC ACTIVITIES

Author of more than 150 published works in the field of Chemical Engineering, Sanitary and Environmental Engineering, Environmental Fluid Dynamics, some of which published by prestigious International Journals.

Scientific responsible for the Department of Electric Electronic and Computer Engineering (DIEEI) of the Project CIRCOLARE – Nanostrutture Carboniose da Scarti Agricoli per l'Accumulo di Idrogeno allo Stato Solido, PNRR M2C2 I3.5 DR. MASE n.27/2025 scorrimento Avviso n.4/2022, Prog.n. RSH2A_000015 - CUP F57G25000160006 – funded by the European Union – NextGenerationEU;

Coordinator of MEDWISE – Mediterranean Waste Innovations for Sustainable Environments, Interreg NEXT MED 2021-2027, A_T_2.4_0393, <https://www.interregnextmed.eu/project-page/medwise/about/> ;

Scientific responsible for UNICT of the Project LANDFEED – Unlocking efficient bio-based fertilisers for soil sustainability from underutilised side streams, call HORIZON-JU-CBE-2023-IA-02 Production of safe, sustainable, and efficient bio-based fertilisers to improve soil health and quality, <https://landfeed.eu> ;

Scientific responsible for DIEEI of the Project AGRITECH National Research Center for Technology in Agriculture, Spoke 3 Enabling technologies and sustainable strategies for the smart management of agricultural systems and their environmental impact, European Union Next-GenerationEU National Recovery and Resilience Plan, <https://agritechcenter.it>;

Scientific responsible for UNICT of the Project SMARTEE-PLANTS – Smart Energy-Efficiency wastewater treatment Plants – Action 1.1.5 PO FESR Sicilia 2014-2020, project number 08CT3600000330, CUP G57H18002050006, <https://smartee-plants.it/>;

Scientific responsible for DIEEI of the Project “TRANSITION - Innovative resilient farming systems in Mediterranean environments”-(2021-2024) PRIMA Foundation “Partnership for Research and Innovation in the Mediterranean Area “; CALL PRIMA AWP 2020 SECTION 2 2020 - MULTI-TOPIC <https://prima-med.org/results-of-prima-call-section-2-2020-multitopic/>

Scientific responsible for UNICT of the Project “LIFE PHARMA-DETOX - Demonstration of an innovative method for the detoxification of pharmaceutical wastewater from pharmaceutical facilities”; European Union; Call LIFE 2020 Call for proposals for LIFE ACTION GRANTS <https://webgate.ec.europa.eu/life/publicWebsite/project/details/5584>

Scientific responsible for DIEEI of the project “TETI - Tecnologie innovative per il controllo, il monitoraggio e la sicurezza in mare” PNR 2015-2020 – PON “R&I” 2014-2020 Azione/misura: Azione II.2 CLUSTER TECNOLOGICI (DD 1735 del 13/07/2017)

Scientific responsible for the University of Catania of the Project entitled "Integrated physical-biological-mechanical system for the recovery and emergency treatment of "OIL SPILL" IN THE ANTARCTIC ENVIRONMENT" within the National Research Program in Antarctica funded by the Ministry of Education, University and Research – (Call 2013 – Proposals for the intervention line B)

Scientific responsible, for UNICT, of the National Research Project entitled “STI-TAM Development of Innovative technologies for the treatment of fluid wastes from shipping activities and for marine environment protection” within the Programma Operativo Nazionale (PON) “Ricerca e Competitività 2007-2013” Regioni Convergenza ASSE I – Sostegno ai mutamenti strutturali.

Scientific responsible for DII, of work package 6 in the National Research Project entitled "*Development of innovative technologies for energy saving and environmental sustainability of shipyards and harbour areas - SEAPORT*" within the Programma Operativo Nazionale (PON) "Ricerca e Competitività 2007-2013" Regioni Convergenza ASSE I – Sostegno ai mutamenti strutturali.

Scientific coordinator for UNICT, of the National Research Project founded by MIUR entitled "*Systems biology in the study of xenobiotic effects on marine organisms for evaluation of the environmental health status: biotechnological applications for potential recovery strategies*" within the PRIN National Research Program (2011)

National Coordinator of the research project founded by MIUR (Italian Ministry of University and of Scientific Research) entitled "*Water bodies protection from xenobiotic compounds: new methods for the analysis, the control and the treatment in civil and industrial wastewaters*" within the PRIN National Interest Research Program (PRIN 2007) <http://www.dica.unict.it/users/gmancini/PRIN2007/indexpr.htm> and local coordinator of the research "*Chemical, physical and biological removal of petroleum originated xenobiotic compounds in high-salt waters*" within the main project.

Local coordinator of the National Research Project, founded by MIUR, entitled "**Phyto and bio detoxification technologies applied to heavy metals contaminated hazardous wastes and sites**" within the PRIN National Research Program (2004)

Past participant in the local research unit (Catania) for the following National Research Projects:

- Removal of inorganic contaminants from drinking water supplies: vanadium adsorption in continuous flow, packed-bed reactors. (PRIN 1999).
- Development of a decision support system for the screening of treated wastewater reuse alternatives and identification of design and operation parameters for the optimization of water quality characteristics (PRIN 2001).

Past participant in the Environmental Sanitary Engineering research group of the Department of Civil and Environmental Engineering of the University of Catania for the research project of 5th Framework Programme 1998-2002 INCO-MED Program WAM-ME (Project n° ICA3-CT-1999-00014) "*Water Resources Management Under Drought Conditions: Criteria and Tools for Conjunctive Use of Conventional and Marginal Waters in Mediterranean Regions*" (WAM-ME).

Past participant in the research group of the Department of Civil and Environmental Engineering of the University of Catania for the Research Lines 1 - Control and management of water availability and demand (OR 1.4 – Demand management and water saving)- e 3:Water bodies remediation and wastewater reuse increase (or 3.2 – management technologies and methodologies for the urban wastewaters reuse for irrigation) of AQUATEC Project (PON 2002) "*Innovative Technologies of monitoring, treatment and maintenance for water emergency solution*"

He is currently (2027) and has been (2018 2019, 2020,2021, 2022, 2023, 2024, 2025,2026) Coordinator of the TECHNICAL COMMITTEES of the national EXPO on Environment and Energy ECOMED (CATANIA 2030 - ECOMED) www.eco-med.it .

Member of the Scientific Committees of:

6th International Conference on Sustainable Solid Waste Management, Naxos 2018,
7th International Conference on Sustainable Solid Waste Management, Heraklion 2019
8th International Conference on Sustainable Solid Waste Management Thessaloniki 2021
9th International Conference on Sustainable Solid Waste Management Corfu 2022
10th International Conference on Sustainable Solid Waste Management Chania2023
11th International Conference on Sustainable Solid Waste Management Rhodes 2024
12th International Conference on Sustainable Solid Waste Management Cyprus2025
13th International Conference on Sustainable Solid Waste Management Kos 2026
Remtech Expo – Inertia
International SYMPOSIUM ON URBAN MINING AND CIRCULAR ECONOMY

Member of Editorial Board (Review Editor) for:

1. Frontiers in Chemical Engineering Journal (ISSN: 2673-2718)
2. Frontiers in Sustainability - Quantitative Sustainability Assessment Journal
3. Aquatic Systems—Quality and Contamination - Water Journal

Editor of a Special Issue in Water: Aquatic Ecosafety: Threats, Disturbances, Environmental Monitors and Bioremediation Actions