

GIUSEPPE PEZZINGA - CURRICULUM VITAE



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He was born in Enna (Italy) on 10-7-1960.

He obtained the laurea degree "cum laude" in Civil Engineering Hydraulics section (University of Catania, 4-2-1984).

He attended the postgraduate course in Experimental Hydraulics (University of Padua, 1984-85).

He attended the PhD Course in Hydrodynamics (University of Padua, III cycle), taking the final examination in October 1990.

Researcher of Hydraulics at the University of Catania from 11-1-1989 to 10-31-92.

Associate professor of Hydraulics at the University of Catania from 11-1-1992 to 10-31-2000.

Full professor of Hydraulics at the University of Catania since 11-1-2000.

He taught the courses of Fluids Mechanics (from 1992-93 to 2009-10) and Computational Hydraulics (from 1992-93 to 2010-11). He currently teaches "Advanced hydraulics". He was tutor of more than 120 laurea degree theses.

He is in the board of teachers of the PhD course in Evaluation and mitigation of urban and environmental risks (University of Catania)

He was Director of the 2nd Master Course in “Water Management and Environment Protection”, organized by the Istituto Superiore di Catania per la Formazione di Eccellenza.

He has been Chairman of the Didactic Council of Civil Engineering of the University of Catania from 11-1-2006 to 10-31-2012.

He makes research in the field of theoretical and applied hydraulics, working mainly on:

- secondary circulation in pressure and free surface flows;
- friction dissipations in unsteady flows;
- protecting devices in unsteady flows;
- flood propagation models;
- models for blood flow in the arterial system;
- optimization of hydraulic networks.

He is author of more than 85 scientific papers presented in international and national journals and conferences.

He has given contributions of international relevance on the flow in compound channel section, and on two-dimensional models and one-dimensional unsteady friction in water hammer flow, also with visco-elastic pipes or cavitation, as shown by the literature on these topics. The contributions were mainly improvements of theoretical models and numerical schemes, together with experimental researches were carried out for validation.

Besides to be manager for researches financed by the University of Catania, he was:

- local manager of the researches financed by the Ministry of the University (coordinated by prof. Guelfo Pulci Doria) "Influence of vorticity and turbulence in interactions of water bodies with their boundary elements and effects on hydraulic design" (1997), "Interaction between whirling and turbulent flows and infrastructure in hydraulic engineering" (2000), and "Whirling, turbulent, chaotic phenomena – Applications in installations and environment" (2002);
- manager of the research "Diffusion of pollutants in aquifers", financed by the Sicilian Region.

He has been referee for the following journals: Journal of Hydraulic Engineering – ASCE; Journal of Hydraulic Research – IAHR; Journal of Fluids Engineering – ASME; Journal of Water Resources Planning and Management – ASCE; International Journal for Numerical Methods in Engineering; Communications in Numerical Methods in Engineering; Computers & Fluids; Acta Mechanica; Journal of Agricultural Science and Technology; Meccanica; Urban Water Journal; European Journal of Mechanics – B Fluids; Journal of Vibration and Control; Journal of Fluids and Structures; Applied Mathematical Modelling; Journal of Hydroinformatics; Journal of Pipeline Systems – Engineering and Practice – ASCE; Mathematical Problems in Engineering; Water Science and Technology; Water Supply; Water; Energies; Sustainability; Micromachines; Journal of Applied Fluid Mechanics; Computers in Biology and Medicine; Applied Thermal Engineering; Iranian Journal of Science and Technology, Transactions of Civil Engineering; International Journal for Numerical Methods in Biomedical Engineering; Computational Methods and Experimental Measurements; Journal of Mechanical Engineering Science; Computer Physics Communications; Mathematical Modelling and Analysis; Mechanical Systems and Signal; Water Research.

He was Guest Editor for the Special Issue of Water on Advances in Water Distribution Networks.

A handwritten signature in black ink, reading "Giuseppe Pezzinga". The signature is written in a cursive style with a long, sweeping tail on the final letter.