

## **Curriculum Vitae of Prof. Massimo Salleolini**

*(Department of Physics, Earth and Environmental Sciences)*

Born on 23/02/1957 in Castelnuovo Berardenga (Siena).

1983: Graduated with honors in Geological Sciences at the University of Siena with a thesis entitled "*Hydrogeological studies and geomorphological investigations on the upper Farma Valley*".

1991-2001: Researcher (SSD Applied Geology - GEO/05).

Since 2001: Associate Professor (SSD Applied Geology - GEO/05).

2005-2010: Representative of the Faculty of SMFN in the University Master Commission.

2013-2015: President of the Committee for the Didactics of the Degree Courses in Earth Sciences.

2014-2016: AQ contact person for the Didactics of the Department.

2017-2021: President of the Steering Committee and Contact for Relations with the World of Work of the Department.

2019-2021: Representative of the Department in the University Placement Commission.

From 2019: Full member of the University Disciplinary Board for the academic period 2019-2023.

### **Teaching activity**

Professor of "*Hydrogeology*" of the First cycle degree in "Geological Sciences"

Professor of "*Applied and Environmental Hydrogeology*" of the Second cycle degree in "Geological Sciences and Technologies".

Professor of the "*Environmental Hygiene*" module of the School of Specialization in "Hygiene and Preventive Medicine".

### **Research topics**

- ✓ Relationship between the physiographic characteristics of the river basins and the average annual runoff coefficient.
- ✓ Evaluation of flood events likely in the absence of hydrometric instrumentation, also with reference to their relationship with the various types of land use.
- ✓ Definition of assessment criteria for water resources at the level of the river basin.
- ✓ Evaluation of the trend of the main hydro-climatic parameters and of its impact on surface water and groundwater resources.
- ✓ Hydrogeological study of coastal aquifers, with particular reference to seawater intrusion and origin and distribution of mercury in groundwater.
- ✓ Estimation of groundwater availability at the aquifer level, also with reference to the contribution of thermomineral waters.
- ✓ Hydrogeological modeling on interstitial and fissure porosity rocks, with particular attention to the planning of the exploitation of groundwater by means of hydrodynamic and hydrochemical simulation models and their integration with GIS tools.
- ✓ Definition of the contribution of geology to land planning, in particular with regard to hydrogeological risk and the aquifer vulnerability to pollution.
- ✓ Assessing the impact on groundwater of an environmental restoration performed using industrial solid waste