

## **Short CV \_ Professor Sveva Corrado**

Sveva Corrado is Associate Professor at the Department of Science (Geosciences Section) at Roma Tre University in Italy since 2011, Coordinator of the Bachelor and Master Courses in Geology at Roma Tre University since 2023, co-Coordinator of the PhD Course in Earth sciences at Roma Tre University.

She got her PhD in Structural Geology from the University “La Sapienza” of Rome in 1993. She then made post-doctoral studies at the University of Leeds (UK) where she worked on model validation in fold-and-thrust belts, acquiring most of the quantitative methods of tectonics and structural analysis. In 1995 she got a lecturer position at the University “Roma Tre” where she developed an original approach to validate structural models in fold-and-thrust belts by means of reconstruction of thermal evolution of sedimentary basins. In 1998 and for further periods between 2000 and 2005, she was invited researcher at the University of Newcastle upon Tyne to work on organic petrography and geochemistry issues for Basin Analysis applications. In 1998 Sveva Corrado founded ALBA (The Academic Laboratory of Basin Analysis). In 2011 she earned a Professorship at “Roma Tre” University where is currently leading ALBA and teaching courses of Geology and Basin Analysis. In 2016 she was visiting scientist c/o l’IFP Energies Nouvelles, Département Géoressources to work on topics regarding Responsible Hydrocarbons, Energy, Environment, Innovation in oil and gas E&P, European Energy Policies. Between 2017 and 2023 she was invited Professor at GEC Lab of CY Cergy Paris University

The Laboratory she runs is recognized as one of the most active in Italy for research and training in geohistory of sedimentary basins, but application of thermal maturity of organic matter to other geological issue have been developed. The main research topics developed in the Lab concern:

- Thermal and tectonic evolution of fold-and-thrust belts
- Geohistory and thermal history of sedimentary basins for Energy system assessment
- Cap rock and reservoir rock quality assessment for geothermal exploration
- Pyroclastic flow temperatures assessment for volcanic risk mitigation.
- Biochar characterization and use for Climate change mitigation

Research areas are widespread in various geodynamic settings, active and fossils, all over the world (Italy – Main Cenozoic foreland basins and Mesozoic passive margins deformed in the Apennines and Sicily fold-and-thrust belt; Antarctica – Ross Sea; Brazil – Sao Francisco Basin; Namibia – offshore

passive margin; Poland – Lublin Basin, Baltic Basin; Spain – Paleozoic Aragon-Bearn Basin, Hecho Basin; Western Pyrenees; Iran – Zagros Mts. (Fars, Dezful Embayment), Mts Alborz; Ukraine – Carpathian fold-and-thrust belt and Podolie foreland; Morocco – Rif orogen; Italy – Northern Latium geothermal area; Argentina – Rosario de La Frontera geothermal area; Portugal (Azores: Fogo, Volcano); Italy - Ercolanum: Vesuvius Volcano; Indonesia - Merapi Volcano; Mexico - Colima Volcano.

In the last five years, Sveva Corrado's team has been developing a new strategy for: the assessment of thermal maturity of organic matter dispersed in sedimentary successions for applications spanning from energy industry to natural risk assessment, integrating also Raman and FT-IR spectroscopy

Since 2001 ALBA hosted several PhD/MSc students and researchers from Italy, France, Morocco, Swiss and Australia that could develop their own projects and produce data in collaboration with ALBA team.

Professor Corrado co-authored more than 115 publications in peer-reviewed international scientific journals (HI=30), more than 30 on Italian journals and published 4 geological maps. In 2014 and 2018, she received the "Secondo Franchi Award" of the Italian Geological Society for the best article of the years 2013 and 2016. Since 2003, she has organized and chaired numerous workshops, conference sessions and PhD schools on her main research topics.

Her passion is dissemination of Geological Sciences at various scales: she led for Roma Tre University eight editions of the European Night of Researchers (2013-2021), she leads the restyling of the historical Geomuseum of the Roman Collegium, she actively organizes several dissemination events each year for schools and citizens in collaboration with territory institutions and associations.