

Personal Profile

Prof. Sabina Bigi

Institution

Sapienza University - CeRI Research Centre,
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Sabina Bigi is an associate Professor at the Department of Earth Sciences of the University of Rome "La Sapienza" and the head of the Tectonics and Fluid Chemistry Lab of the Earth Science Department, where she coordinates a group of researchers having a great experience in geochemistry, structural geology and social science (<http://tetide.geo.uniroma1.it/struttura/laboratori/laboratorio-di-chimica-dei-fluidi>). She is deeply involved in coordination of research on geological storage of CO₂, as a member of the Executive Committee of CO₂Geonet (<http://www.co2geonet.com/>) and of EERA (European Energy Research Alliance) as representative of Sapienza University.

Her main research interest is focused on brittle deformation with application in the field of hydrocarbons and geothermal exploration, CO₂ geological storage and applied geology. She has expertise in structural geology, geological mapping, seismic interpretation and fracture modelling. Her faults studies were dedicated to the reconstruction of fault architecture and evolution, with particular attention to gas bearing and active faults. Her fractures network studies were focused on fractures characterization in carbonates and on development of new fracture models for fluid flow simulation. She dedicated more than a decade (1990 - 2005) to thrust tectonics studies and the influence of pre-existing structure on the geometries and kinematic of an evolving fold-and-thrust-belt, such as the Apennines, the Alps, the Zagros Mountains (Iran) and the Andes (Argentina).

She was Principal Investigator (PI) of the project LIFE RESPIRE LIFE16 ENV/IT/000553 (www.liferespire.it) and task leader in ENOS – (ENabling Onshore CO₂ Storage in Europe, Project ID: 653718. H2020). She was also PI of several other research projects founded at national and international levels. She was involved in geothermal studies in Argentina (2010-2012) and geochemical monitoring for CO₂ geological storage in China (2010-2011, Italia-China joint program).

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Last updated: 27th October 2020