

Position

Researcher of Stratigraphic and Sedimentological Geology (GEO/02) at the Department of Environmental, Biological and Pharmaceutical Sciences and Technologies (DiSTABiF) of the Campania University “L. Vanvitelli”.

Academic career

Degree in Geological Sciences, University of Rome “La Sapienza” – March 19, 1986; thesis in Geology about the geological and structural framework of a Latium-Abruzzi Carbonate Platform sector.

PhD in Earth Sciences (III Cycle – 1991; University of Rome “La Sapienza”; thesis in Biostratigraphy: “Shelf facies Mesozoic of the Simbruini-Ernici Mountains: biostratigraphy and paleogeography”.

Researcher for the SSD D01 (sub-sector D01.2 - Stratigraphic and structural geology) at the Faculty of Environmental Sciences of the Second University of Naples from 18.12.1996.

Teaching activity

Adjunct Professor at the Faculty of Mathematical, Physical and Natural Sciences of the Chieti University “G. d'Annunzio” for the teaching of Geological Survey of the Degree Course in Geological Sciences (AA.AA. 1994/95–1996/97).

From the 1999/00 he held various courses of the SSD GEO/02 at the Degree Courses in Environmental Sciences (five- and three-years) and Sciences and Technologies for the Environment and the Territory of the Second University of Naples and, later, Campania University “L. Vanvitelli”. He is currently in charge of teaching Geology and Geological Cartography for the three-year Degree in Environmental Sciences.

Research activity

The research activity of dr. Sirna, from the beginning of his career, has turned to geological and structural surveys of the carbonate platform units, to reconstruct their tectonic and sedimentary palaeogeographic and geodynamic evolution, and to the biostratigraphic and palaeoecological study of Mesozoic micro- and macrofossiliferous associations from central-southern Italy. Research is developed through recognition and mapping of carbonate facies and stratigraphic analysis of successions to propose a paleoecological model and to correlate physical events; the results were presented at many conferences on Earth Sciences and published in national and international journals.

From 1991 to 1999 he participated in the data acquisition work of the CROP 11 Project in the sections «Geometry and kinematic constrains» and « Stratigraphic constrains». From 2000 to 2001 he works in geological survey of the sheet 431 «Caserta Est» of the Geological Map of Italy (1:50,000 scale) (CARG Project).

Since 2004 he is associated with the Institute of Environmental Geology and Geoengineering (IGAG) of the C.N.R. in the Project “Multiscale geological processes for mitigation of environmental risks and impacts”, module “Quaternary Geology; geological hazard; urban areas subsoil”. The research has the goal to recognize instability events, controlled by tectonic-eustatic phenomena, which have conditioned the sedimentary history of different sectors of the Latium-Abruzzi Carbonate Platform, and to reconstruct the tectonic-structural framework and the geodynamic evolution of large sectors of the Apennines; it develops through the realization of geological and thematic mapping in areas of the central Apennines predominantly affected by carbonatic sedimentation.