



UNIMORE
UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA

Dipartimento di Scienze
Chimiche e Geologiche

Subsidence in alluvial and coastal plains. Natural vs Anthropogenic impact

1st Italian workshop on subsidence

16 maggio 2025

Dipartimento di Scienze Chimiche e Geologiche

Via Campi 103, Modena



PROGRAMMA

[9.00-9.20]

Apertura lavori: Introducono Luigi Bruno (Unimore) e Daniela Ruberti (Unicampania), Maurizio Polemio e (SGI Sezione Idrogeologia), Marcello Tropeano (SGI: sezione Geosed)

[9.20-11.00]

Pietro Teatini

Department of Civil, Environmental and Architectural Engineering, University of Padova

"Physics-based modelling of natural and anthropogenic land subsidence in alluvial plains"

Matteo Vacchi

Department of Earth Sciences, University of Pisa

"Using past-sea levels to define the long-term subsidence of the coastal plains: pro and cons."

Alessandro Chelli¹, Marta Pappalardo²

¹ Department of Chemistry, Life Sciences and Environmental Sustainability, Università di Parma,

² Department of Earth Sciences, University of Pisa

"Sea-level change indicators and subsidence: the case study of the lower River Magra Valley coastal plain (Liguria)"

Luigi Bruno¹, Luca Demurtas¹, Alessandro Amorosi²

¹ Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia

² Department of Biological, Geological and Environmental Sciences, University of Bologna

"Reliability of stratigraphic markers for the calculation of long-term subsidence"

[11.00-11.15] Coffee Break

[11.15-13.00]

Paolo Severi

Geological, Seismic and Soil Service of Regione Emilia-Romagna

"Geology and subsidence in the Emilia Romagna plain"

Claudia Meisina, Laura Pedretti

Department of Earth and Environmental Sciences, Unipv

"A methodology to analyse ground movements in the reclaimed farmland of the Po River delta"

Alessandro Zuccarini, Matteo Berti

Department of Biological, Geological and Environmental Sciences, University of Bologna

"Long-term spatiotemporal evolution of land subsidence in the urban area of Bologna, Italy"

Michela Marchi, Ilaria Bertolini, Guido Gottardi

Department of Civil, Chemical, Environmental, and Materials Engineering University of Bologna

"Geotechnical and hydraulic issues induced by land subsidence at the Santa Croce Archaeological Site in Ravenna (Italy)"

[13.00-14.30] Lunch Break

[14.30-15.30]

Luigi Tosi, Marta Cosma, Cristina Da Lio, Sandra Donnici

National Research Council, Institute of Geosciences and Earth Resources, Padova

"Rethinking the impact of land subsidence and sea-level rise in transitional coastal environments of Venice (Italy)"

Daniela Ruberti, Carla Buffardi, Naveed Ullah

Department of Engineering, University of Campania Luigi Vanvitelli

"The Holocene evolution of the Volturno coastal plain (northern Campania): implications for the understanding of subsidence patterns"

[15.30-16.30] Tavola rotonda

Comitato organizzatore

Luigi Bruno (Università di Modena e Reggio Emilia), Daniela Ruberti (Università Degli Studi della Campania Luigi Vanvitelli), Luca Demurtas (Università di Modena e Reggio Emilia), Alessio Mainini (Università di Modena e Reggio Emilia). In collaborazione con la Società Geologica Italiana (sezioni Geosed e Idrogeologia).

Per la partecipazione è richiesta l'iscrizione entro il 4 maggio 2025, utilizzando il seguente form:

[form di iscrizione workshop italiano subsidenza 2025](#)

Sono riconosciuti crediti formativi APC dall'Ordine dei Geologi dell'Emilia-Romagna ai geologi partecipanti.

Con il patrocinio di

