



12-13 Febbraio 2025



Dipartimento di
Eccellenza MIUR
2018 - 2027

GIORNATE ASSERETO

Dipartimento di Scienze della Terra «Ardito Desio»

Aula MG - Via Mangiagalli 32, Milano

Mercoledì, 12 febbraio

Giovedì, 13 febbraio

Relazioni annuali dei Dottorandi in Scienze della Terra, cicli XXXVIII e XXXIX

9:30 – Galli S.: The second year of the LakEMaging project
9:50 – Pezzotta A.: Disentangling tectonic- and climate-driven processes in the evolution of Quaternary riverscapes. A fresh approach integrating field survey, remote sensing and geomorphometry into Artificial Intelligence/Machine Learning
10:10 – Piloni C.B.: Multidisciplinary approach to investigate the tectono-metamorphic heterogeneity and Alpine evolution of the Sesia-Lanzo Zone: insights from Tesso and Gressoney valleys
10:30 – Piccin S.: Petrology of the Central Metabasite Zone, Oetzal-Stubai Complex (Eastern Alps)
10:50 – De Leo A.: Mechanisms of formation of spodumene-rich pegmatites: the Araçuaí pegmatite district, Minas Gerais, Brazil
11:10 – Piepoli L.: Mineral characterization, trace elements, and Critical Raw Materials in lime production subproducts in Italy and phosphorite deposits in Albania

11:30 – Giovanni Pietro Beretta - LEZIONE MAGISTRALE: Progettazione idrogeologica per valorizzazione, tutela e sviluppo sostenibile della risorsa idrica

14:00 – Dapiaggi M., Bono R., Marinoni N., Gatta G.D., Merlini M.: Il nuovo diffrattometro per materiali disordinati (o con tanto ferro). Applicazioni e possibilità

14:15 – Farina F., Grieco G., Mangano, C.: The new XRF laboratory: potentialities and applications

14:30 – Tiepolo M., Farina F., Forni F., Cannà E., Filippi M., Sessa G., Ferrari E.: The new Time of Flight ICP-MS: an overview of the analytical capabilities and first results

14:45 – Cámara F., Rotiroti N.: Electron diffraction at COSPECT: present and future possibilities

15:00 – Voltolini M.: A Geologist's Favorite Superpower: Magnified 3D X-Ray Vision

15:15 – Tumiati S., Toffolo L., Minopoli L., Ferrari E.: A reliable analytical procedure to determine the carbon isotopic signature of CO₂-bearing COH fluids generated in petrological experiments

15:30 – Secchiari A., Toffolo L., Recchia S., Tumiati S.: Analytical protocol for measuring micro-molar quantities of sulfur volatile species in experimental high pressure and temperature fluid

15:45 – Borghini G., Crotti C.F., Fumagalli P.: Clinopyroxene generation via high-pressure crystallization of a moderately evolved MORB-type basalt: experiments from 1.0 to 2.5 GPa

16:00 – Fumagalli P., Ildfonse B., Capizzi L., Tumiati S., Poli S.: Distribution of hydrous carbonatitic liquid in dunite: an experimental study

16:15 – Toffolo L., Tumiati S., Confortini G., Fumagalli P.: Molecular hydrogen absorption in silicates: implications for the deep hydrogen cycle

16:30 – Comboni D., Lotti P., Gatta G.D., Fattori F.: Borates in neutron absorbing materials: the case of Sorel cements

16:45 – Cannà E., Tiepolo M., Agostini S., Scambelluri M.: In-situ B-Sr isotopes in ophicarbonates: from ocean to subduction evolution

9:30 – Fant M.: Geological case-histories of weathering enhancement and ocean alkalization as green long-term CO₂ removal processes

9:50 – Fedeli V.: Unraveling subduction zone initiation: geodynamic numerical modeling and gravity signature analysis - first year review

10:10 – Mongiovi F.: Preservation and digitalization of the palaeontological heritage of the Milan Natural History Museum: analysis and enhancement of the fossil collections of Cenozoic mammals

10:30 – Pizzutto M.: Exploring variability of turbidite channels in the upper slope (Late Miocene, Taza-Guercif Basin, Morocco)

10:50 – Tagliabue G.: The biogeochemistry of body concealment: from the hypogeal CDI to forensic taphonomy

11:10 – Monico S.: Gem-quality microcrystalline materials: the case study of chrysocolla. Advanced characterization from macro to nanoscale

11:30 – Bono R.: Iron oxides in water treatment. A structural approach with PDF method

11:50 – Chrappan Soldavini B.: Towards a comprehensive mineralogical model of the upper mantle: new insights on the CaSiO₃ system

12:10 – Crotti C.F.: Oceanic mantle refertilization via MORB melt-peridotite reaction: an experimental study at high-pressure conditions (1-2 GPa)

14:00 – Savoldi C., Merlini M., Mangano C.: Caratterizzazione mineralogica e rilevanza archeologica di ceramiche nuragiche dal sito di Nuraghe Candelargiu (San Giovanni Suergiu): uno studio preliminare

14:15 – Azzoni R.S., Forti L., Pezzotta A., Zerboni A.: Il disastro di Derna (10 settembre 2023). L'intreccio tra rischio geomorfologia ed espansione urbana letto nella cartografia storica e nei dati satellitari

14:30 – Forti L., Zerboni A., Pelfini M., Azzoni R.S.: Geomorfologia antropica in diversi contesti ambientali

14:45 – Bollati I.M., Guerra C., Minacci L.: "I segni dell'alluvione del 1978 in Valle Vigizzo: la popolazione racconta" - un progetto Citizen Science nel geoparco UNESCO Sesia-Val Grande

15:00 – Erba E., Miniati F., Bottini C.: Calcareous nanofossil palaeoceanography across Oceanic Anoxic Event 3: from local to global perturbations

15:15 – Bottini C., Erba E., Tungo E.: Calcareous Nannoplankton response to Oceanic Anoxic Event 2 (Cenomanian-Turonian, Late Cretaceous)

15:30 – Balini M., Nicora A., Mandrioli R., Shorabi Z., Soleimani S., Locati A., Larghi C., McRoberts C.A., Pieroni V.: In search of the Rhaetian North of Esfahan (Upper Triassic, Central Iran)

15:45 – Comunian A., Giudici M., Panzeri A.: A Bayesian approach to map ocean bodies and currents

16:00 – Regorda A., Roda M.: Thermo-Mechanical Effects of Microcontinent Collision on Ocean-Continent Subduction System

16:15 – Zucali M., Lo Pito C., Fazio E., Siravo G., Speranza F., Minelli L., Correale A., Romano P.: Relazione tra le caratteristiche petrografico-strutturali e le proprietà magnetiche nella Zona Ivrea-Verbano: il progetto Unlock-INGV

16:30 – Scuderi F.*: Thermo-active micropiles: numerical and experimental insights for enhanced heating, cooling, and energy storage efficiency

*Relazione annuale per il Dottorato in Scienze della Terra