



16 - 17 Febbraio 2023 Giornate Assereto

a cura di Maria Rose Petrizzo & Davide Zanoni

Giovedì 16 Febbraio

Venerdì 17 Febbraio

Relazioni annuali dei Dottorandi in Scienze della Terra, cicli XXXVI e XXXVII

9:00 **Melada J.** - Integration of Infrared Thermography and Microclimate analysis, with the support of AI methods, for the conservation of cultural and geological heritage.

9:20 **Amaglio G.** - Population dynamics and geochemistry of foraminifera to interpret the paleoceanographic changes across the Cenomanian-Turonian Oceanic Anoxic Event 2 at low and high latitudes.

9:40 **Bettoni C.** - The role of extreme paleoenvironmental conditions on nannoplankton carbonate production: case studies from the Lower Cretaceous.

10:00 **Viaretti M.** - Biomineralization and global change: the biotic response to the Gondwanan glaciation and the subsequent climate warming.

10:20 **Perini S.** - Magnetostratigraphy of early hominin sites: linking North Africa to Europe.

10:40 **Invernizzi D.** - Reconstructing the sedimentary architecture of the channel-levee complexes from the Tachrift Turbidite System (late Tortonian, Taza-Guercif Basin, NE Morocco).

11:00 **Baratelli L.** - The interplay between cation ordering and elasticity of omphacites to unravel PTt paths of metamorphic rocks.

11:20 **Massinelli G.** - Quantitative evaluation of consolidating effects induced by inorganic mineral treatments applied on porous carbonate stone.

11:40 **Morabito G.** - Development of multi analytical and non-invasive protocols for the study of archeological ceramic materials.

12:00 **Battiston T.** - Erionite, offretite and bellbergite: Crystal-chemistry, properties and utilizations of the ABC-6 group zeolites.

13:45 **Ferrari E., Maggioni E., Perotto A., Salerno R., Giudici M.** - Sensibilità del modello WRF alla parametrizzazione di differenti processi fisici nella simulazione di intensi eventi convettivi in orografia complessa.

14:00 **Sullivan N.A.L., Fiandaca G., Fedeli V., Viezzoli A.** - EEMstudio: Open source, freeware tools for GIS-based processing and inversion of electrical and electromagnetic data.

14:15 **Crippa G., Lischi S., Chiari A., Dapiaggi M., Cremaschi M.** - Burned mollusk shells: what kind of information they provide?

14:30 **Balini M.** - Towards the definition of the GSSP of the Norian at Pizzo Mondello (Upper Triassic, Sicily): formal decisions and ongoing research.

14:45 **Randazzo V., Berra F., Della Porta G.** - Facies and stable isotope changes across the T/J boundary in carbonate successions (Lombardy Basin, Italy).

15:00 **Montano D., Gasparrini M., Rohais S., Albert R., Gerdes A.** - U-Pb carbonate geochronology: chronostratigraphy and dating potential in continental settings.

15:15 **Farina F., Weber G., Hartung E., Rubatto D., Forni F., Caricchi L.** - Timeframe of maturation, melt extraction and eruption in the Hotaka-Takidani volcano-plutonic complex (Japan).

15:30 **Previti V., Tiepolo M., Langone A., Cannà E., Sessa G., D'Antonio M.** - On the strontium isotopic disequilibrium in the Finero complex (Ivrea-Verbano Zone).

15:45 **Cannà E., Sessa G., Tiepolo M., Farina F., Forni F., Ferrari E.** - A step forward in the isotope ratio determination through LA-MC-ICP-MS.

16:00 **Magnani L., Farina F., Pezzotta F., Dini A., Mayne M., Bartoli O.** - Anatectic Lithium-Cesium-Tantalum pegmatites formation during low pressure metamorphism of metapelites.

16:15 **Moroni M., Naitza S., Deidda M., Ferrari E., Risplendente A., Sessa G., Cantaluppi R., Mondragon Mallqui J., Stucchi M.** - Critical raw materials in skarn systems.

16:30 **Premi intitolati a Salvatore Dell'Oca e Augusto Binda:**
cerimonia di premiazione dei vincitori.

9:00 **De Rosa I.** - Resin injection treatments in contaminated soils.

9:20 **Lucchelli A.** - The first year of the MountainHydro project.

9:40 **Dauti F.** - The first year of the IPRaMa project.

10:00 **Signora A.** - The first year of the HydroGeosTe project.

10:20 **Gerola M.** - Numerical analysis of the thermal behaviour of energy geostructures.

10:40 **Citrini A.** - Forcing a hydrologic model with weather radar data: testing the best operational bias-correction of hourly radar precipitation data.

11:00 **Morcioni A.** - Large alpine landslides behavior: coupled hydro-mechanical and thermo-poro-mechanical numerical modelling.

11:20 **Carniti A.P.** - Mississippian mud mounds from Derbyshire (UK): facies architecture and biotic evolution.

11:40 **Caso F.** - Structural and thermal features of a Permian lower crust section from the Western Italian Alps (Valpelline Unit, Valle d'Aosta).

12:00 **Langone F.** - Geochemical and petrological characterization of two large silicic ignimbrites from the Main Ethiopian Rift (Ethiopia).

13:45 **Pantopoulos G., Invernizzi D., Marini M., Felletti F., El Kati I., McArthur A.** - Aspects of the sedimentary architecture of a Tortonian deep-marine channel-levee complex (Tachrift Turbidite Complex 5, Taza-Guercif Basin, NE Morocco).

14:00 **Muttoni G.** - 300 million years of world's paleogeography.

14:15 **Coccia N., Della Porta G., Berra F., Tiepolo M.** - Diagenetic investigation and trace elements characterization of Triassic and Jurassic carbonates from the Lombardy Basin.

14:30 **Tumiati S., Faucher G., Monzillo A., Ferrari E., Toffolo L.** - The link between subducted marine microalgae and volcanic arc emissions.

14:45 **Toffolo L., Tumiati S., Villa A., Fumagalli P., Amalfa A., Miozzi F.** - From subducted organic matter to COH fluids: experimentally investigating how carbon forms affect redox dissolution.

15:00 **Borghini G., Borghini A., Ferrero S.** - Experimental constraints on metasomatism of mantle rocks via interaction with granitic melt at 1.5-2.9 GPa.

15:15 **Secchiari A., Godard M., Montanini A.** - Heterogeneous mantle domains in a modern ocean-continent transition zone: new insights from the Western Iberian margin (ODP Leg 149 and 173).

15:30 **Monico S., Cantaluppi M., Adamo I., Gatta G.D., Cámara F., Rotiroti N., Marinoni N.** - A multi-methodological study of chemical, mineralogical and petrographic features of the microcrystalline and cryptocrystalline varieties of quartz: the case study of aquaprase, the most recently discovered gemological variety of chalcedony.

15:45 **Dapiaggi M., Rotiroti N., Beretta M.** - Synthesis and TEM characterization of iron oxide nanoparticles to be used for environmental applications in a circular economy path.

16:00 **Pezzotta A., Marinoni A., Al Kindi M., Zucali M., Zerboni A.** - Triggering processes in the deformation of canyons in the Al-Hajar Mountains (Sultanate of Oman).

16:15 **Tantardini D., Zerboni A., Baio M., Pezzotta A., Norini G., Gropelli G.** - Rilievi isolati e pianura bresciana: rilevamento del Quaternario per il Foglio CARG 121.

16:30 **Perego A., Bollati I.M., Pelfini M., Pezzotta A., Proietto A., Forti L., Compostella C., Rovere A., Deirdre R., Zerboni A., Pappalardo M.** - Geomorfologia dei Balzi Rossi, Ventimiglia (IM).

