

Lithium in igneous and volcano-sedimentary systems: geological aspects and exploration strategies

Synopsis

This short course will focus on lithium (Li) mineralization in igneous granite-pegmatite systems and in the more unconventional volcano-sedimentary Li deposits (formerly known as clay-type Li mineralization).

Emphasis will be given to:

- i) the diversity of mineralization styles in the selected ore-forming settings.
- ii) the key characteristics of the tectono-magmatic environments prospective for generation of Li-endowed provinces.
- iii) the potential strategies to be adopted for the exploration of Li mineralization.

Date 20th of May 2025

Location

Room 1F Department of Geosciences, University of Padua, Via Giovanni Gradenigo, 6, 35131 Padua, Italy

Online streaming link (Zoom) available on request

Registration (both online and in presence)

Email at: giacimenti@socgeol.it

Registration deadline: 5th of May 2025

Agenda

11.30-11.50 Introduction (Putzolu-Dini)

11.50-13.20 Lithium in granite-pegmatite systems (Dini)

13.20-13.30 Q&A

13.30-14.00 Break

14.00-15.30 Lithium in volcano-sedimentary deposits (Putzolu)

15.30-15.40 Q&A

15.40-16.00 Break

16.00-16.30 Examination of mineralized samples (Putzolu-Dini)

16.30-17.00 Further discussion and wrap-up (Putzolu-Dini)

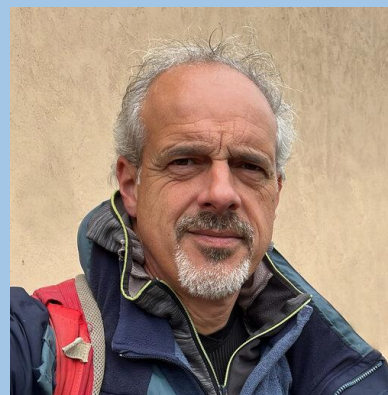


Dr. Francesco Putzolu

Economic Geologist who does research on the origin and exploration of critical mineral systems in magmatic to hydrothermal settings and in the critical zone environment.

Dr. Andrea Dini

Director of the Institute of Geosciences and Earth Resources of the CNR (Italy), and expert in the geochemistry and metallogensis of critical minerals in magmatic and geothermal systems.



The short course is organized by the “Materie prime strategiche e valorizzazione dei Giacimenti Minerari” thematic group of the “Società Geologica Italiana” (GGM-SGI) and is coordinated by Paolo Nimis (University of Padua) and Simone Vezzoni (CNR-IGG and coordinator of the GGM-SGI thematic group).