UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Earth’s volatile cycle: the fluid and melt inclusion approach

2425-1-SCGA.27

Titolo

Earth’s volatile cycle: the fluid and melt inclusion approach

Docente(i)

Maria Luce Frezzotti; Andrea Luca Rizzo; Rosario Esposito

Lingua

English

Breve descrizione

Topics of the Earth’s volatile cycle: the fluid and melt inclusion approach short course include an introduction to phase equilibria and thermodynamic modeling of C-O-H fluids and silicate melts at pressure and temperature conditions associated to the upper mantle and the Earth crust. The program of this short course will then focus on presenting protocols to study fluid and melt inclusions and on showing their main applications related to a variety of geological environments. The course will also introduce students to advanced analytical techniques to study fluid and melt inclusions such as Mass spectrometry and Raman microspectroscopy. Finally, the course will include hands-on activities to apply the information delivered during the course using real databases of fluid and/or melt inclusions associated to specific geological systems.

CFU / Ore

3 CFU - 24 Hours (Lecture)

Periodo di erogazione

I semester

Sustainable Development Goals