seminari di oggi

Submitted by Floris Mario on 22 January, 2015 - 11:45 Comunicazioni agli studenti

Processes and consequences of serpentinization

Seminario

Data: Giovedì, 22 Gennaio, 2015 - 11:30

Relatore: Wolfgang Bach

Aula: 1F

Abstract:

Serpentinization is a process that turns dry, dense, mechanical strong and weakly magnetic peridotite into a low-density, mechanically weak, and highly magnetic rock with >10 wt.% H2O. The chemical and physical changes of this transformation are so radical that the implications of serpentinization in all geotectonic settings where it occurs are extreme. Moreover, serpentinization fluids are rich in hydrogen which drives abiotic organic synthesis and supports unique ecosystems that are believed to be excellent analogues of hydrothermal sites where life may have originated.

I shall present an overview of what our current understanding of the mechanisms and rates of serpentinization is and discuss some of the ramifications of serpentinization in different geotectonic settings with a focus on submarine hydrothermal springs.

Afferenza: MARUM - Center for Marine Environmental Sciences, Università di Brema (Germania)

Proponente: Luca Toffolo

La composizione dei fusi crostali naturali

Seminario

Data: Giovedì, 22 Gennaio, 2015 - 16:30

Aula: Aula Arduino

Relatore: Antonio Acosta Vigil

Afferenza: Piscopia Fellow Dipartimento di Geoscienze

Proponente: Bernardo Cesare

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