Freie Universität Berlin

Geowissenschaftliches Kolloquium

CO_2 mineral sequestration and serpentinite carbonation

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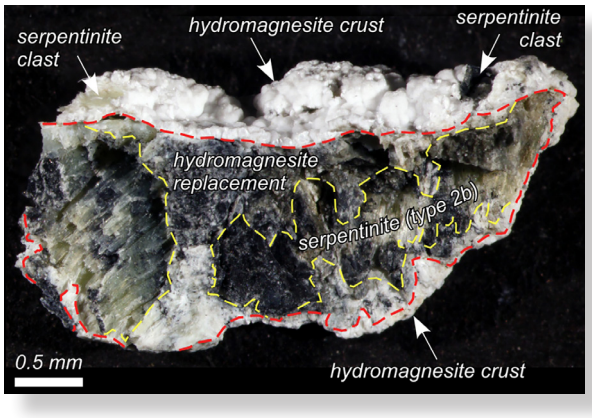
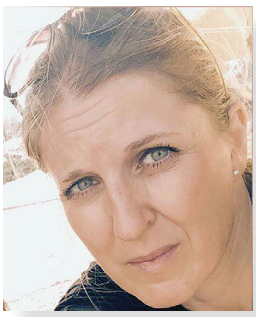
Mineral carbonation, the reaction of magnesium-rich minerals with CO_2 to form stable carbonates, is a promising approach to carbon sequestration. This technology attempts to mimic natural low-temperature alteration (carbonation) of silicate rocks (i.e., peridotite, serpentinite, basalt). The presentation gives an overview about the industrial CO_2 mineral sequestration and the numerous constraints coming from the studies of the natural carbonation of serpentinites.





Dr. Chiara Boschi is researcher at the IGG-CNR (Pisa, Italy) and responsible of the Stable Isotope Laboratory. M.Sc. in geology at Pisa University (Italy) in 2001, and Ph.D. in 2006 at ETH-Zurich (Switzerland). Her main scientific interests are water-rock interaction processes (in hydrothermal and metamorphic environments), oceanic serpentinization, and the carbonation of serpentinites related to the CO_2 mineral sequestration.

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