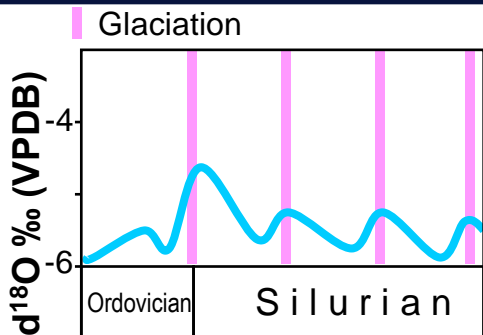
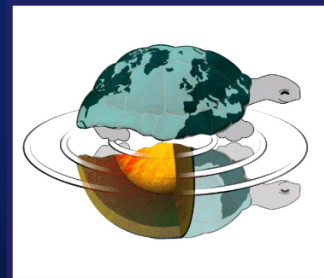




UNIVERSITÀ DEGLI STUDI DI MILANO

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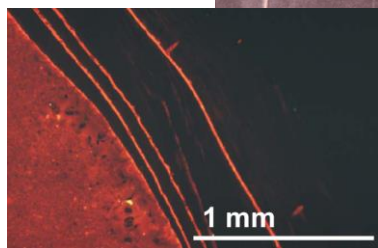
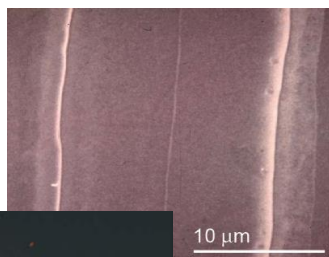


Milano - 2-5 May 2017 - Short course (4 cfu)

Stable isotope and their applications in carbonate paleoenvironment, chemostratigraphy and diagenesis

PROGRAM

Introduction
Decay mechanisms
Fractionation of stable isotopes
Hydrogen and oxygen
Carbon, Sulfur, Strontium
Isotope signatures of diagenetic cements
Evaluation of carbonate preservation
Applications of stable isotopes in chemostratigraphy, paleoclimatology, paleoceanography, diagenesis



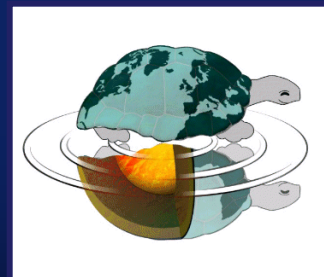
Per informazioni e iscrizione contattare:
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Prof. Karem Azmy
Memorial University,
St. John's, Canada



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Corso di Dottorato in Scienze della Terra



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Training objectives:

The course will provide an introduction to aspects of stable isotope geology particularly those of carbon, oxygen, strontium, and sulfur and their applications in geosciences.

The student will be able to understand how to evaluate the reliability of measured isotope signatures using pre-screening petrographic (regular thin sections, cathodoluminescence, and scanning electron microscope - technique principles with examples will be explained) and geochemical (trace element composition) approaches.

Examples (case studies) of primary/near-primary signals of various isotopes will be discussed as a part of training on the reconstruction of paleoenvironmental conditions (paleoceanographic and paleoclimatic patterns).

On the other hands, the course will explain the utilization of geochemical signatures of secondary calcite phases (e.g., cements), particularly those of oxygen isotopes and trace elements, for the reconstruction of the geochemical composition of the parent diagenetic fluid. This requires the combination of microthermometric measurements with the stable isotopes (case studies will also be discussed), a techniques that will be also introduced during the course.

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