



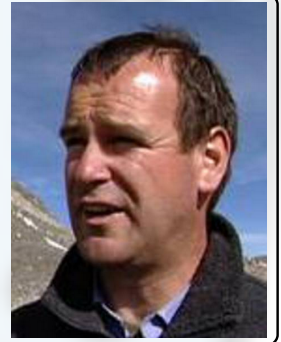
Dipartimento di Scienze e Tecnologie

Dottorato di Ricerca in Scienze e Tecnologie per l'Ambiente e la Salute

Seminari ed incontri del DST

Prof. Gianreto Manatschal

École et Observatoire des Sciences de la Terre
Université de Strasbourg (France)



Formation and reactivation of rifted margins and implications for the interpretation of orogenic processes

MARTEDÌ 30 GENNAIO 2018

ORE 11.00

**Aula 16, Dipartimento di Scienze e Tecnologie
Via Port'Arsa, 11, Benevento**

A long-standing question in Earth Sciences is related to the role of inheritance in controlling the rheology, deformation and magmatic history of tectonic systems. In contrast to physical processes that are generally applicable, the role of inheritance is difficult to assess without having insights into the history of a geological system. Moreover, inherited features are not always reactivated, which makes it difficult to include them in generic models. In order to identify the role of inheritance and define its relative control on the deformation and rheological evolution of a geological system, we define inheritance as the difference between an "ideal" layer-cake type lithosphere and a "real" lithosphere containing heterogeneities. In this sense, three types of inheritance can be defined: structural, compositional and thermal inheritance. The aim of the presentation is to discuss, using these definitions and examples from Western Europe, how inheritance may control the architecture and evolution of extensional and compressional systems within the Wilson cycle.

Informazioni: torrente@unisannio.it

DST - Via Port'Arsa, 11 - 82100 Benevento