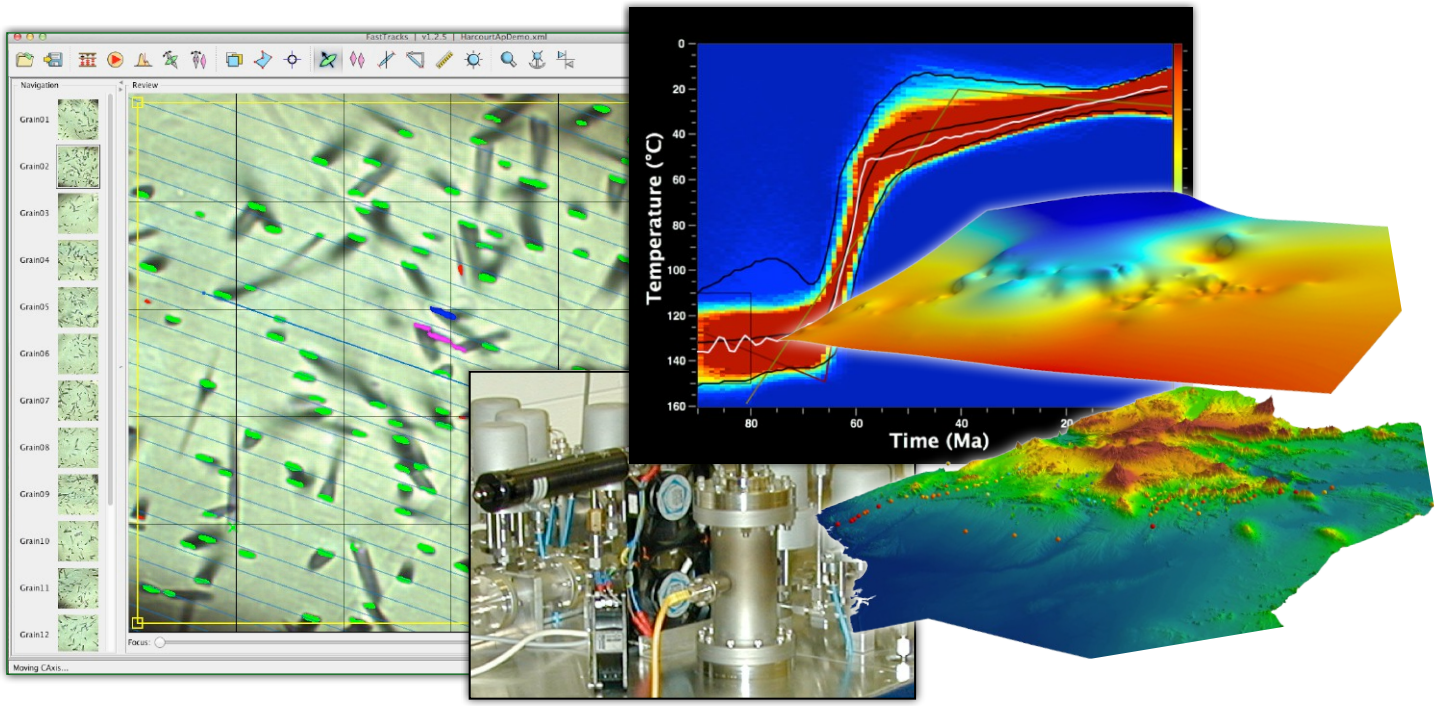
Low-temperature Thermochronology: Theory, Methods and Applications

Date: 18th-19th February 2013

Venue: CSIR-National Geophysical Research Institute, Hyderabad



This two day short course will provide an understanding of two complementary methods, fission track and (U-Th)/He thermochronology, which are the major temperature-sensitive geological dating techniques used in low-temperature thermochronology. These methods give key insights into the thermal evolution of the upper crust, and provide an important link between surface processes and underlying tectonic activity.

The theoretical and experimental basis for understanding the behaviour of these systems during cooling from elevated temperatures will be discussed, providing a basis for the interpretation of results and modeling the thermal histories of rocks. The course will include hands-on exercises in data acquisition for fission track analysis, and the combination of multi-system data in thermal history interpretation and modeling.

A range of case studies from all over the world will be considered that illustrate the broad application of the methods in various branches of geology. The course will also cover current areas of uncertainty and controversy in this field, as well as the latest developments in techniques and interpretive strategies to provide a perspective on the future of low-temperature thermochronology.

There will be no registration fee for the course, but places are limited, so you are advised to register early.

FREE

Presenters:

Prof Andrew Gleadow and **Prof Barry Kohn**, from the University of Melbourne in Australia, are two of the world's leading practitioners in the field of low-temperature thermochronology. They each have over 35 years experience in the development and practical implementation of these methods as well as their application to a diverse range of geological problems.

For registration and enquiries regarding travel and accommodation contact Dr Devender Kumar,

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Deadline for registration is Friday 1st February 2013