Fracture Analysis of Carbonate Reservoir Outcrop Analogues

Open courses due May 25th to 29th and October 12th to 16th

The South-Central Pyrenees provide an internationally renowned collection of outcrop analogs for hydrocarbon reservoirs. Ancient depositional environments are exposed in a ‘continent to basin’ transition.

At both outcrop and seismic scale the well-preserved relationship between deformational structures and sedimentation allows detailed studies of the interactions between tectonics, basin evolution and inversion.

These five day courses offer an integrated presentation of technical issues associated with the characterisation of fractured reservoirs. Key exposures are used to describe and explain carbonate depositional systems. The origins and properties of fault and fracture systems are set in different lithological, diagenetic and structural contexts. Fracture mapping and reservoir appraisal exercises are set at the outcrop, and interactive workshop sessions are used to emphasise and support the outcrop observations.

The courses take place in the Tremp area of Catalonia. Delegates will be collected from and returned to Barcelona.
**Fracture Analysis of Basement Reservoir Outcrop Analogues**

Open course due September 14th to 18th

**The Axial Zone** of the Pyrenees through Catalonia and Andorra offers good exposures of Palaeozoic sediments, granitic intrusives, and layered metamorphic rocks which may be used as analogs for basement reservoirs around the world. They have low matrix $k$ and would rely on fractures and alteration processes to create secondary porosity and host hydrocarbons.

**This five day course** offers an integrated field school and training course for those working on the characterisation of basement reservoirs.

**Key exposures are used** to describe and explain processes of secondary porosity generation and fracture development in the formations examined. This is reinforced with a series of workshop presentations and discussions.

**Andorra** is situated between Spain and France in the high Pyrenean mountains. Delegates will be collected from and returned to Barcelona.

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**2nd Stefan Götz Workshop: Petroleum Geology of Fold-Thrust Belts** (including the Zagros of Iraqi Kurdistan and Iran)

Workshop scheduled for September 28th to 30th with associated pre- and post-workshop fieldtrips

**After the success** of our 2013 Zagros meeting we are planning another 2-day technical workshop plus field trips to bring together oil company geoscientists and engineers working on hydrocarbon prospects and fields in fold and thrust belts such as the Zagros and the Andes.

**The objective** is to provide a relaxed forum for exchange of knowledge in presentations and workshops, and at the outcrop analogs.

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For more information on these courses and events visit these websites or contact Jon Gutmanis at GeoScience or Lluis Ardévol at GeoPlay.