

# Outcrop Analogues to Fractured Carbonate Reservoirs



This course offers an integrated presentation of a range of technical issues associated with the characterisation of carbonate reservoirs. A combination of classic exposures supported by classroom sessions is used to describe and explain carbonate facies and architecture, litho-stratigraphy, diagenesis and fracture character.

## Field Course with Classroom Sessions

1-5 June 2009  
South-Central Pyrenees,  
Catalonia, Spain



The South-Central Pyrenees offer an internationally renowned diversity of outcrop analogues for hydrocarbon reservoirs. All types of carbonate depositional environments in a continent to basin transition can be investigated within a short distance. The exceptionally well-preserved relationship between deformational structures and syntectonic sedimentation allows detailed studies of the interactions between tectonics and basin evolution both at outcrop and seismic scale. In addition, fault and fracture type, scale and distribution can be studied in the context of different lithological, diagenetic and structural settings.

The five-day field course with classroom modules will cover both Fracture Analysis and Carbonate & Mixed Environments. For more detailed information on the contents please refer to the following websites:  
[www.geoplay.cat](http://www.geoplay.cat)  
[www.geoscience.co.uk](http://www.geoscience.co.uk)

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## Course Content

- \* Carbonate platform types: from Cretaceous rimmed shelf to Eocene homoclinal ramp
- \* Shelf: shallowing-up cycles, calcarenite shoals, tidal and wavy sands, hardgrounds
- \* Shelf margin: reef core clinoforms, rudist mounds, transition to marls
- \* Slope: autochthonous facies, slumps, breccias, turbidites
- \* Jurassic dolomites
- \* Fracture types and origins in carbonates
- \* Fracture hierarchy and connectivity
- \* Fracture attributes and controls on distribution
- \* Classroom sessions on structural geology for fracture characterisation, issues and challenges in developing fractured reservoirs, and case histories from the industry



Price: € 2,500  
This includes transfers from and to Barcelona, transportation by 4WD or minibus, field lunches, field guide and insurance. For enrolment and further information please contact  
\* [info@geoplay.cat](mailto:info@geoplay.cat) or  
\* [gutmanis@geoscience.co.uk](mailto:gutmanis@geoscience.co.uk)  
We hope to see you at our course!

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