

COURSE OBJECTIVES

To be able of producing a synthesis of the data, with critical knowledge of the limits of each technique, possibly using modeling and quantifying uncertainties.

On completion of the course, participants will be able to:

- understand the principles of basin modeling,
- evaluate parameters for basin models,
- know orders of magnitude for most important parameters.

COURSE CONTENT

GEOMETRY AND LINKS WITH GEODYNAMICS OF SEDIMENTARY BASINS

1 day

Basic parameters:

- subsidence
- back-stripping
- complex structures

THERMAL HISTORY

1 day

Thermal history: crustal heat flow

- modes of heat propagation: conduction, convection and advection
- transient thermal regimes and blanketing effects of sedimentary covers
- calibration of heat flow for present and past thermal state

PRESSURE AND OVERPRESSURE MODELING

1 day

Compaction, fluid pressures, hydro-dynamism, under-compaction and pressure excess, sediment rheology, seals

Strain and pore pressure relationships

Upscaling

MATURATION AND EXPULSION

1 day

Kerogen cracking

Kinetic parameter determination

Secondary cracking

Rock physical properties for tight source rocks

Fast migration modeling

Compositional modeling

MIGRATION OF HYDROCARBONS AND UNCERTAINTY ANALYSIS

1 day

Migration principles

Phase separation and flow. Capillary pressures

Up-scaling of physical and geological parameters

Case studies

Uncertainty evaluation methods

▲ Who should attend?

Junior petroleum exploration geoscientists or multidisciplinary team managers.

▲ Duration

5 days

▲ Dates & Location

June 29 - July 03, 2009
Rueil-Malmaison (Paris)

▲ Registration

Fees: € 2,020

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▲ Course Coordinator

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Ref. **GEO / BASMOD**