

# SEDIMENTOLOGY & SEQUENCE STRATIGRAPHY

## COURSE OBJECTIVES

To present concepts and methodologies of sedimentology and sequence stratigraphy analysis.

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

- identify the main depositional environments,
- analyze seismic facies,
- characterize the methodology of sequence stratigraphy,
- predict reservoir distribution and geometry.

## COURSE CONTENT

### SEDIMENTOLOGY - THE MAIN DEPOSITIONAL ENVIRONMENTS

2 days

Alluvial facies models  
Fluvial facies models  
Deltaic facies models  
Shallow marine facies models  
Deep marine facies models  
(examples from outcrops and field case studies)  
Facies analysis on core and wireline logs:

- related petrophysical characteristics
- 3D geometry of depositional units and reservoir bodies

### SEISMIC SEQUENCE STRATIGRAPHY ON A BASIN SCALE

1 day

Depositional sequences and system tracks  
Methodology of interpretation  
Quantitative prediction of the location of potential source rocks and reservoirs  
Application to seismic interpretation

### HIGH RESOLUTION SEQUENCE STRATIGRAPHY ON A RESERVOIR SCALE

1 day

Identification of genetic sequences  
Correlation by analysis of the stacking pattern  
Qualitative prediction of the extent and quality of reservoir bodies  
Interpretation exercises based on outcrop analogs and field studies

### STRATIGRAPHY MODELING

1 day

2D and 3D deterministic stratigraphic modeling  
Quantitative prediction of the reservoir distribution and connectivity - case studies  
From the basin scale to the reservoir scale: geostatistical modeling of inter-well heterogeneity  
The different methods (object, pixel): principles of a software package  
Integration of seismic and dynamic data

E-212

### ▲ Who should attend?

Young petroleum exploration geoscientists or multidisciplinary team managers.

### ▲ Duration

5 days

### ▲ Dates & Location

June 15-19, 2009  
Rueil-Malmaison (Paris)

### ▲ Registration

Fees: € 2,020

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### ▲ Course Coordinator

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