

E-332

▲ Who should attend?

Production staff (geologists, geophysicists, engineers, etc.) involved in field development, who need to acquire theoretical and practical know-how on lithoseismic and reservoir characterization methods, developed by the IFP Research Group.

Participants must be familiar with Mathematical and Geophysical Concepts.

▲ Duration

5 days

▲ Dates & Location

October 12-16, 2009
Rueil-Malmaison (Paris)

▲ Registration

Fees: € 2,220

Contact:

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▲ Course Coordinator

Eric FAGOT

Ref. RES / LITHOSEIS

LITHOSEISMIC - ADVANCED RESERVOIR CHARACTERIZATION FROM SEISMIC

COURSE OBJECTIVES

To become familiar with advanced reservoir characterization from seismic data.

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

- remember the principle of seismic inversion,
- remember the seismic attributes extraction and segmentation techniques,
- interpret seismic attributes in terms of reservoir properties,
- understand integration of seismic data into 3D reservoir models.

COURSE CONTENT

3D IMPEDANCE MAPPING WITH STRATIGRAPHIC INVERSION 1 day

Well to seismic calibration

Methodology for model-based stratigraphic inversion

Case study presentation

Model-based stratigraphic inversion for pre-stack 3D seismic data: P and S impedances

SEISMIC ATTRIBUTES EXTRACTION 0.5 day

Definitions and principles, Workshop Exercises

ATTRIBUTES ANALYSIS WITH SEGMENTATION TECHNIQUES 2 days

Principles of seismic facies analysis with statistical segmentation

Supervised seismic facies analysis

Non-supervised seismic facies analysis

Case studies: post-stack 3D inverted data, pre-stack 3D inverted data, 4D data

Workshop Exercises

ATTRIBUTES INTERPRETATION IN TERMS OF RESERVOIR PROPERTIES 1 day

Principles of statistical estimation for seismic attributes calibration

Case studies presentation

Links between seismic facies and statistical calibration of attributes

Workshop Exercises

INTEGRATION OF SEISMIC INFORMATION INTO 3D RESERVOIR MODELS 0.5 day

Integration Methodologies

Case studies presentation

Workshop Exercises