

E-120

### ▲ Who should attend?

Geologists, geophysicists and engineers who need to acquire theoretical and practical know-how on 3D Land Seismic Acquisition and Design, by using a 3D Acquisition Modeling Software (Geoland™). Participants must be familiar with Geophysical Concepts and Seismic Acquisition.

### ▲ Duration

10 days

### ▲ Dates & Location

March 23 - April 03, 2009  
Massy (Paris)

French session: F-120

### ▲ Registration

Fees: € 4,450

Contact:

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### ▲ Course Coordinator

Eric FAGOT

Ref. **GEP / SISLAND**

# 3D LAND SEISMIC ACQUISITION AND DESIGN (WITH GEOLAND™)

## COURSE OBJECTIVES

To familiarize familiar with 3D Land Seismic Acquisition and Design.

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

- remember the principle of 2D and 3D seismic reflection,
- determine the optimum 2D and 3D acquisition parameters,
- optimize a shooting strategy during a 3D seismic acquisition,
- organize, plan and supervise a 3D seismic acquisition.

Workshop on GEOLAND™ software.

## COURSE CONTENT

### SEISMIC PRINCIPLES, EMISSION, RECEPTION

2 days

Waves, travel paths, signal and noise  
Seismic sources: explosive, vibrator, airgun...  
Geophone, recording systems  
Spatial filtering

### GEOMETRIES AND SURVEYING

1 day

2D geometry: CDP, fold, offset, stacking chart, workshop exercise  
3D geometry: CDP, fold, offset, workshop exercise  
Surveying: equipments, implementation, geodesy

### LAND AND SHALLOW WATER OPERATIONS

1 day

Organization, planning, implementation, case studies  
Infield quality control

### 3D SEISMIC DESIGN AND PRE-PLANNING

2 days

Theory, methodology, parameters choice  
Case study, workshop exercise  
Practical case study with GEOLAND™ software

### LAND OPERATION FOLLOW UP WITH GEOLAND™

2 days

2D case study: complete sequence (Design to SPS Generation)  
3D case study: complete sequence (Design to SPS Generation)

### PRE-PLANNING

2 days

3D case study: grid  
3D case study: zig-zag  
3D case study: shallow water

Maximum 10 attendees, workshop on GEOLAND™ software.  
May be organized for a single company in french or in english.