

SEQUENCE STRATIGRAPHY

General:

Discipline: Sequence Stratigraphy (sedimentology, seismic stratigraphy and seismic sequence stratigraphy)

Level: Advance

Duration: 5 days

Instructor: Jean GERARD

Purpose:

Sequence stratigraphy is fundamental to all aspects of description, characterization and prediction of reservoirs in the petroleum business. Principles, applications, and integration of stratigraphic information for reservoir description and prediction will be discussed in depth. Through a combination of class lectures, poster sessions and exercises, participants will learn how to conduct stacking pattern analysis based upon facies associations, identification of significant geological surfaces bounding transgressive and regressive cycles. These fundamental analytical procedures will be applied to seismic sequence stratigraphy. Case studies will be presented to illustrate the contribution of detailed seismic interpretation to prospect evaluation and ranking for exploration projects and reservoir delineation for appraisal and production projects. Special emphasis will be given to deepwater depositional systems.

Designed for:

Both young professional and senior geoscientists (geologists, geophysicists and reservoir engineers) wanting to develop technical skills in sequence stratigraphy for both exploration and production projects.

You Will Learn:

How to:

- ✓ Use facies associations and do stacking pattern analysis
- ✓ Identify transgressive and regressive half cycles
- ✓ Identify correlative geological surfaces
- ✓ Draw depositional profiles
- ✓ Correlate sequences
- ✓ Use meaningful seismic attributes
- ✓ Predict and delineate reservoirs
- ✓ Support exploration team during prospect evaluation and ranking
- ✓ Support appraisal and production teams during field development planning and production optimization programs

Contacta con Jesús Sotomayor jsotomayors@epgc-spain.com o por teléfono: +34 660 61 27 23

Course Content:

- Fundamental concepts of stratigraphy
- Rhythmic cycles of the earth and impact on stratigraphic record
- Basic sedimentology, facies associations and depositional environments
- Significant geological surfaces
- Well correlation
- Seismic displays
- Seismic tie of geological surfaces and selection of seismic horizons
- Interpretation of key seismic horizons to compute seismic attributes
- Prediction, delineation and mapping of reservoirs with emphasis on deepwater depositional systems
- Prospect evaluation and ranking for exploration projects
- Reservoir delineation and production issues

