

SEISMIC SEQUENCE STRATIGRAPHY

TRAINING COURSE
(5 DAYS)

Course Description

Sequence stratigraphy, based on sedimentary response to changes in relative sea level gives the explorationist and the development geoscientist a powerful new predictive tool for regional basin analysis, shelf to basin correlation and reservoir heterogeneity. Perhaps most importantly, sequence stratigraphy gives the geoscientist a superior framework for the integration of geologic, geophysical and engineering data and expertise.

We will develop the basic concepts of sequence stratigraphy such as the integration of eustasy and tectonic subsidence which gives rise to the basic cycle hierarchy that can be observed in the geologic record. Using these basic concepts, we will build a general predictive stratigraphic model emphasizing the petroleum system and particularly stressing shelf to basin correlation.

List of Contents

Main contents of the course are:

1. Historical framework
2. Seismic geometries
3. Unconformities and their correlative surfaces
4. Relative and absolute sea levels
5. Parasequences and their stacking patterns
6. Parasequences as a correlation tool
7. Cycle hierarchy
8. The sequence stratigraphic model in clastics
9. The sequence stratigraphic model in carbonates
10. World-wide cycle chart and its application
11. Use of logs for sequence stratigraphic interpretation
12. Digital forward modelling of marine sequences as a tool for predicting reservoir characteristics
13. Exploration and production scaled case histories and strategies

The course can be modified also only covering carbonate sequence stratigraphy.

Participants

The course is designed for Geologists, geophysicists, biostratigraphers and engineers (with some knowledge of geology) needing a fundamental understanding of the principles and applications of sequence stratigraphy.

The minimum number of participants to run the course is 4, while the maximum number is 8.

Instructors

The course will be run by Raffaele Di Cuia, an experience geoscientist part of the GEPlan Consulting team. Raffaele is geoscientist with more than 25 years' experience in the oil industry. He has worked and consulted for major to small independent oil companies in Africa, Europe, Middle East and the Americas. His main expertise is the related to the exploration and characterization of carbonate and fractured reservoirs.

Location

The course will be run in GEPlan Consulting office in Ferrara (Italy). GEPlan office is easily accessible from everywhere due to its location close to the main transport routes and to international airports (Bologna, Venice). The course can be also run in other locations, if required by a minimum (5) number of participants.

About GEPlan Consulting

GEPlan is a consulting firm based in Italy that provides innovative and integrated geoscience consulting services for exploration and reservoir characterization activities to international E&P companies.

GEPlan also offer a series of training courses, field trips and seminars for petroleum industry professionals. Since 2004 we have run more than 60 courses & field trips with more than 800 participants working for international and national oil companies. Our training courses are run with innovative techniques of teaching and communication with original visual aids and materials. We have run field courses in Italy, France, Spain and Middle East with participants coming from all over the world.

for more information
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