

BASIN MODELING FOR HYDROCARBON EXPLORATION

TRAINING COURSE
(2 DAYS)

Course Description

The course will examine modern and ancient continental margin tectonics, sedimentation, and stratigraphy and is intended to emphasise the practical geological applications of basin analysis studies to petroleum exploration.

We will (1) build a basic understanding of margin processes, stratigraphy, and structure through review of modern literature, published and unpublished research (2) examine representative examples of modern and ancient continental margins, and (3) through seismic and well-log projects will provide hands-on experience in describing and interpreting margin successions.

This course takes the trainee up to just below the level of full play fairway and petroleum systems analysis. However, it stresses the importance of basin evolution to petroleum generation, migration and accumulation. It will include examples from rift basins, foreland basins and wrench basins and will emphasise the combined roles of tectonics and eustasy, palaeoclimate and biotic evolution. The course content will be conveyed through formal presentations, discussion, both informal presentation and informal debate and question/answer sessions. An annotated reference list will be provided participants.

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Main objectives of the course are:

1. Understand basin-forming processes and basin architecture
2. Evaluate controls on sediment generation, transport and deposition and use sequence stratigraphy to predict sediment distribution
3. Review key analytical techniques with a focus on burial history analysis
4. Apply and integrate datasets to model basin evolution

Participants

The course is designed for petroleum professionals including geophysicists, geologists, geoscientists, geomodellers and subsurface engineers working for the exploration. Ideally, the components of a subsurface team would greatly benefit from participating together.

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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