

STRUCTURAL INTERPRETATION OF SEISMIC DATA

TRAINING COURSE
(3 DAYS)

Course Description

The application of structural geological concepts to the interpretation of seismic data is fundamental for correctly reconstructing sub-surface structures and for understanding their geometric and kinematic development. This has important impacts on the exploration and generation of drilling prospects. The interpretation and identification of sub-surface structural targets should always be supported by a complete understanding of the regional tectonic framework of the area being aware of structural variability through space and time. Principles and structural concepts from different tectonic settings (compression, extension, inversion, strike-slip, etc.) and their application in seismic interpretation will be presented through a diversity of worldwide case examples. The participants will learn theoretical and technical approaches in structural interpretation of seismic data with numerous examples and by hands-on exercises.

List of Contents

Main contents of the course are:

1. Structural interpretation in extensional settings
 - Structural concepts
 - Examples and practical cases
2. Structural interpretation in compressional settings
 - Structural concepts
 - Examples and practical cases
3. Structural interpretation in strike-slip/oblique settings
 - Structural concepts
 - Examples and practical cases
4. Balancing and structural restoration
 - Principles and techniques

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 10.

Instructors

The course will be run by Raffaele Di Cuia, Alberto Riva and Paolo Pace, part of the GEPlan Consulting team.

Raffaele is a geoscientist with more than 20 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 related to the exploration and characterization of carbonate and fractured reservoirs.

Alberto is a geoscientist specialized in exploration and development of carbonate reservoirs and adjunct professor of Petroleum Systems Modeling at the University of Ferrara. Alberto holds a PhD in stratigraphy and sedimentology from the University of Ferrara.

Paolo is a structural geologist specialized in structural characterization of carbonate-dominated fold-and-thrust belts integrating both field surface and subsurface data. He holds a PhD in Structural Geology from the 'G. d'Annunzio' University of Chieti-Pescara carried out in collaboration with the Geology and Petroleum Geology Department of the University of Aberdeen. His PhD Thesis was awarded by the 2015 SPE-EAGE-ASSOMINERARIA "Gustavo Sclocchi" Award.

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.

Registration Cost

The cost of the course (when run in GEPlan Consulting office) is 1.800 euro per participant. The cost includes the material presented during the course. When the course is run in GEPlan Consulting office it also includes coffee breaks and lunches.

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 offers a series of training courses, field trips and seminars for petroleum industry professionals. Since 2004 we have run more than 50 courses & field trips with more than 700 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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