

CHARACTERISATION AND MODELING OF FRACTURED RESERVOIRS

TRAINING COURSE
(2 DAYS)

Course Description

The course offers the opportunity to review the workflow and best practice to characterize and model the fault and fracture network characteristics when exploring, appraising or developing fractured reservoirs.

The course will focus on the main tools and approaches to use to understand the geometries and the properties of fault and fractures and their impact on reservoir performances. During the course, a review of the main factors controlling the development and evolution of the structural framework will be analysed. Using examples and case studies the participants will follow the entire workflow for the characterization of fractured reservoirs starting from the regional picture, to the conceptual structural model and ending into the calculation of petrophysical properties of the fault and fracture network at different scales in the reservoir.

Particular emphasis will be given to the understanding of the uncertainties and impact of different data and input for the modelling of fault and fracture at reservoir scale.

List of Contents

Main contents of the course are:

1. Definition and challenges of fractured carbonate reservoirs
2. Main concepts of fault and fractures generation and evolution
3. Fracture and fault analysis (tools) & Structural Conceptual Model
4. Fracture and fault prediction (strain analysis & forward modelling)
5. Modelling Fault & Fracture Networks (DFN)

Participants

The course is designed for petroleum and production geologists, geomodellers, reservoir engineers and geophysicists working for the exploration, appraisal and development of fractured reservoirs. Ideally, the components of a subsurface team would greatly benefit from participating together.

The minimum number of participants to run the course is 5, while the maximum number is 10.

Instructors

The course will be run by Raffaele Di Cuia & Paolo Pace both 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 the related to the exploration and characterization of fractured reservoirs. Raffaele has run training courses on fractured reservoirs since 2004 for AAPG, Nautilus and various O&G companies in Europe, Africa and Middle East. He was the chairman of the AAPG GTW2015 meeting on Fractured Reservoirs and his is active on the AAPG VGP (Visiting Geoscientist Program).

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 1.200 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 offer 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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