

PETROLEUM GEOPHYSICS

24 - 26 Aug 2015 / Bandung, Indonesia

This course is meant for professionals in the petroleum industry with a non-geoscientific background to get up to speed with classical aspects and new developments of geophysical exploration. In three days, the course instructors will take the attendees through the basics of petroleum geophysics, seismic interpretation, case studies all the way to new developments.



INSTRUCTOR :
Mr. D. (DICK) STEGERS

has working experience of deep subsurface at the Dutch Geological Survey (TNO) and

Amsterdam Petroleum Geoscience. He completed his Masters on 'Structural and Sedimentary Geology, Basin analysis and surface processes' at the Free University Amsterdam. At TNO he was responsible for the evaluation of license applications. He executed several studies, including: regional 3D-modeling of the sandy facies of the Slochteren Formation; seismic study of the Carboniferous in the northern Dutch offshore; geothermal analysis of the West-Netherlands Basin; stratigraphic research of the sedimentary development of the Upper Jurassic in the Terschelling Basin, including core descriptions and well log analysis. He is currently involved with geological and seismic research and as a wellsite geologist at Amsterdam Petroleum Geoscience.

Course Content Includes:

- Basic principles of seismic exploration and case studies
- Seismic interpretation and seismic attributes
- Next-generations seismic imaging; from inversion to envision

WHO SHOULD ATTEND?

Entry level geoscientists, geologists, engineers and other E&P staff who need an overview of seismic/ geophysics techniques and applications.

FEE	1 PAX	3 PAX OR MORE
Per Person	USD 3195.00	USD 2995.00

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COURSE AGENDA

DAY 1

Basic principles of seismic exploration and case studies

In this first part of the course, the basic principles of seismic exploration will be discussed. Seismic exploration is the main geophysical tool for the petroleum industry and new developments take place every day. The classic methods of seismic acquisition and imaging however are still the basis for modern exploration and will be presented to the attendees in clear steps. The fundamental possibilities and limitations of seismic imaging are treated and relevant case studies will enhance the understanding of the fundamental principles.

DAY 2

Seismic interpretation and seismic attributes

Seismic imaging is the method of choice for petroleum reservoir characterisation. As part of reservoir model building, seismic images need to be interpreted and integrated. Seismic interpretation is a science as well as an art with strict procedures and criteria to achieve optimum results. The course instructors will demonstrate how to perform seismic interpretation to identify petroleum prospects, paying special attention to seismic attributes: additional techniques of representing seismic data. Seismic attributes are increasingly used for extracting additional information from data to further constrain petroleum estimates.

DAY 3

Next-generations seismic imaging; from inversion to envision

The majority of petroleum systems worldwide have been identified using classic methods of seismic imaging and interpretation. General technological advancement, economical competition and an increasing amount of tired petroleum fields have forced seismic technology to improve itself. The focus of seismic imaging has shifted from classic reflection and structural methods to seismic inversion of impedance, velocity and other reservoir parameters. The final part of this course will introduce the attendees to these next-generation techniques and show which extra dimensions of petroleum reservoirs can be resolved. At the end of the course, a summary and reconciliation of all treated methods will be given.



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