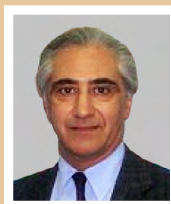


# ACQUISITION AND INTERPRETATION OF OPEN HOLE LOGS

13 - 17 April 2015 / Bandung, Indonesia

Duration: 5 days



## INSTRUCTOR :

**DR. MICHAEL ALA** (Imperial College London) has been closely associated with the oil industry for more than 35 years both as an exploration geologist with an independent oil company and as a consultant. He has a BSc in Oil Technology and an MSc, PhD and DIC in Petroleum Geology from Imperial College.

In 1972 he joined Seagull Exploration International and was involved in exploration studies and prospect evaluation in many parts of the world including Africa, northwest Europe, eastern Mediterranean, the Caribbean, South America and the Middle East. In 1976 he became the company's General Manager in London, responsible for its north European and Middle Eastern operations.

Since 1981 he has been a member of the academic staff in the Earth Science Department of Imperial College, rising to the post of Director of the internationally recognized MSc Petroleum Geoscience Course in 1994. Dr Ala has published more than 60 research and review articles covering the Middle East and West Africa, focusing on the petroleum geology and oil industry of Iran and is on the Editorial Board of the international Journal of Petroleum Geology. He was also Editor in Chief of *Seventy-Five Years of Progress in Oil Field Science and Technology*, published in 1990. Since 1982 he has been involved in organizing and presenting numerous industrial training programs in Europe, north Africa, west Africa, South Africa, Middle East and southeast Asia. Currently, Dr Ala is completing a textbook entitled *The Acquisition and Interpretation of Openhole Logs*.

In 2007 he joined the board of Dominion Energy PLC as a non-Executive Director. Dominion's principal activity is the exploration and development of oil and gas fields worldwide.

## PREREQUISITES:

A basic understanding of geological and some engineering aspects of oil and gas reservoirs.

## AIMS:

To cover the fundamentals of the acquisition and interpretation of open hole log data.

## OUTCOMES:

The course presents the principles underlying the measurement of various properties of rock sequences penetrated in boreholes and covers the qualitative and quantitative interpretation of the data obtained through examples and practical workshop sessions. It also covers the most recent advances in log data acquisition technology.

## WHO SHOULD ATTEND?

Geoscientists and petroleum engineers with some petrophysics.

FEE	1 PAX	2 PAX OR MORE
Per Person	USD 3995.00	USD 3795.00

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## FOR ENQUIRIES

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13 - 17 April 2015 / Bandung, Indonesia

## COURSE AGENDA

### DAY 1

- Introduction and course objectives
- Invasion effects and matrix concept
- Acquisition and recording of log data, types of logs and the associated nomenclature
- Electric logging tools and the qualitative interpretation of electric log data
- Recent advances in electric logging

### DAY 2

- Acoustic logging tools and the applications of acoustic log data
- Radioactive logging devices and the applications of the radioactive log data
- The Electromagnetic Propagation Tool (EPT)
  - The new Dielectric Log
  - Applications of EPT and new Dielectric Log data

### DAY 3

- The Nuclear Magnetic Resonance log and its applications
- Platform Express (PEX): a recent advance in log data acquisition technology and its advantages
- Qualitative interpretation
  - Cross plots
  - Lithology and porosity determination
  - Gas detection

### DAY 4

- Quantitative interpretation
  - Introduction and objectives
  - Shale volume determination
  - Determination of uninvaded zone parameters:  $R_t$ ,  $R_w$  and  $S_w$
  - Determination of invaded zone water saturation,  $S_{xo}$
  - Determination of qualitative and quantitative indices of hydrocarbon moveability

### DAY 5

- Introduction to shaly formation interpretation
  - Review of the effects of shale on open hole log responses
  - Determination of  $S_w$  in shaly reservoirs by the Indonesia and Simandoux models
- Introduction to dipmeter and formation imaging tools
- Practical workshops
- Course summary and conclusion

### COURSE MATERIAL

A comprehensive manual and exercise sheets



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