

# RE11 INTRODUCTION TO EOR TECHNIQUES & PILOT PROJECTS

**Dr. Ali Al-Gheithy & Dr. Omar Abu-elbashar      Fees: 3200 €**

**DUBAI: 16-18 April      &      12 –14 Nov. 2019**

This workshop is designated for scientists involved in field development studies and production planning involving Enhanced Oil Recovery (EOR). It gives in-depth understanding of EOR techniques and related pilot project preparation and implementation. It is a very useful program for planning FDPs with Improved Oil Recovery, EOR studies, and other schemes helping to maximize hydrocarbon production and ultimate recovery.

The program will be in a workshop style giving ample of time for technical discussions and review of typical case studies. **It can also be customized in length and contents to meet the requirement of the companies requesting the course as IN-HOUSE.**

## TOPICS TO BE COVERED:

- **Recovery methods classification:**
  - Primary Recovery methods.
  - Secondary Recovery.
  - Enhanced Oil Recovery.
- **Enhanced Oil Recovery methods**
- **Miscible Gas Flood**
- **Thermal Recovery:**
  - Steam flood,
  - Cyclic Steam Stimulation (CSS)
  - Steam Assisted Gravity Drainage (SAGD).
  - Vapor Extraction (VAPEX).
  - In-situ combustion (ISC).
  - Immiscible Gas Flood.
  - Hot Water-flood.
  - Water Alternating Gas (WAG).
- **Chemical Flooding:**
  - Polymer Flooding, Miscellar Polymer Flood.
  - Alkaline Surfactant, Polymer flood (ASP).
  - Surfactants.
- **Cold Production & Cold Heavy Oil Production (CHOPS).**
- **Producing Oil Sands.**
- **Screening for EOR.**
- **Field examples of EOR projects**
  - Steam Flooding.
  - Steam Assisted Gravity Drainage (SAGD)
  - Miscible Gas Flooding.
  - Polymer Flooding
  - Co2 Flooding.
- **Pilot Projects**
  - Pilot Projects in the Oil Industry,
  - Pilot studies for EOR Projects.
  - DATA Gathering:
  - Detailed Screening
  - Target oil & estimated recovery.
  - Experimental work Before Pilots.
  - Pilot Design and Operations.
  - Pilot Interpretation.
  - Reservoir Simulation Model
  - Full field Simulation Model
  - Capital and Operational costs
  - Final Remarks

## THE LECTURERS



**Dr. Ali Al-Gheithy**

Dr. Ali Al-Gheithy has over 21 years of Petroleum Industry experience, spanning well engineering, operations and field development planning. Dr. Al-Gheithy is currently The Director of Petroleum Engineering (Chief PE) of PDO LLC (JV with Shell) Petroleum Development Oman, a major E&P company in Oman. Previously he worked on several positions including; Study Centre manager, Asset Manager, and reservoir engineering project manager, and Well & Reservoir Management Team Leader.

He has a strong educational background with a BSC degree in petroleum engineering from the University of Tulsa, OK, USA in 1988 and an MSc and PhD degrees from Imperial College, the University of London in 1993. He is the previous chairman of the SPE in Oman.

As Manager of PDO Petroleum study center he was in charge of hydrocarbon maturation and field development of the entire company portfolio including water flood, EOR projects using polymer and thermal processes and related pilot projects.

He also worked as asset manager for a large mature field responsible for the Development planning, reserve booking, and new wells delivery and WRM; as Team Leader of WRM for Fahud and Lekhwair assets; as Cluster Leader for the Lekhwair Asset; and as reservoir Engineer for Nimr asset team responsible for several fields for the taking care of field management, development and reserves bookings.

During his carrier he was cross-posted to Shell Nigeria (4.5 Yrs.) where he worked in the integrated study team on the Diebu Creek and Soku Fields Studies; and led the sub-surface team for the Forcados-Yokri re-development project.