

Integrated Reservoir Management

1.6 CEUs (Continuing Education Units) awarded for this 2-day course.

Instructors

Abdus Satter, Satter & Associates, Inc.
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Intended Audience

This course is designed for engineers, geoscientists, field operation staff, management personnel, and others involved in various aspects of petroleum reservoir management. Participants will learn to better manage assets by using proven management processes and practices, and integrating the technologies, tools, data and activities of multidisciplinary professionals.

Description

This course presents the fundamentals of integrated reservoir management practice involving goal setting, planning, implementing, monitoring, evaluating, and revising unworkable plans. Requirements for successful operation of a reservoir throughout its life will be emphasized, including integration --- merging people, technology, tools and data; synergy --- multidisciplinary professionals working as a well-coordinated team; and support --- company culture and organization removing barriers and fostering teamwork and integration.

Topics Covered

- Reservoir Life Cycle
- Need for Integrated Reservoir Management
- Reservoir Management Concepts and Process
- Data Acquisition, Analysis and Management
- Integrated Geoscience and Engineering Reservoir Model
- Reservoir Performance Analysis Techniques and Reserves Forecasts
- Reservoir Management Economics, and Optimization Example
- Waterflood - Reservoir Engineering Aspects, Surveillance Techniques
- Enhanced Oil Recovery Processes - Thermal, Chemical, Miscible, Screening Criteria
- Reservoir Management Plans - Newly Discovered Field
- Reservoir Management Case Studies
 - North Ward Estes Field
 - Columbus Gray Lease
 - Means San Andres Unit
 - Brassey Oil Field
 - McAllen Ranch Field
 - Teak Field
 - Esso Malaysia Fields

About the Instructors

Abdus Satter is president of Satter and Associates, Inc., a Houston-based consulting firm. He has more than 30 years' diversified experience in reservoir engineering, reservoir simulator development and applications, waterflooding, enhanced recovery techniques, and reservoir studies and operations. A prolific author, he has been involved in reservoir management projects in the US, UK, Cameroon, Denmark, Indonesia, Nigeria, Trinidad, and other countries. In addition to his latest book, **Computer-Assisted Reservoir Management** (2000), he published **Integrated Petroleum Reservoir Management** (1994) and **Integrated Waterflood Asset Management** (1998). He was a 1996-97 SPE Distinguished

Lecturer on Integrated Reservoir Management, and was again a 2002-03 SPE Distinguished Lecturer on Asset Management throughout the Reservoir Life Cycle. He is an SPE Distinguished Member.

Satter holds a BSc degree in Mechanical Engineering from the University of Dhaka, PE and MS degrees in Petroleum Engineering from the Colorado School of Mines and a PhD degree in Engineering Science from the University of Oklahoma.

Ganesh C. Thakur is Senior Principal Technical Advisor for Chevron Petroleum Technology Co. For 27 years, he supervised and directed reservoir management, simulation, and EOR activities and worked as Chief Secondary Recovery Engineer. He has worked at Amoco Production Co.'s Research Center, Scientific Software-Intercomp, developing reservoir simulators and consulting. He taught graduate courses in petroleum engineering, reservoir management, and business administration. He was an SPE Distinguished Lecturer on Waterflood Management. He has published more than 25 technical papers and written books on integrated reservoir management, integrated waterflood asset management, and reservoir management of mature fields.