

PLATA ENERGY

OIL & GAS CONSULTANTS

EOR / IOR Short Course

3 Day virtual or onsite EOR /IOR theory and cases studies

Instructors

Ivan Terez PhD

Myriam Juritz PhD

Ken Kibodeaux PhD

March 2026

EOR Short Course

Instructors

I Terez
M Juritz
K Kibodeaux

Coordinators

D Diaz
M Torres

Dates

October 2023
January 2024

Cost

\$1200 per person

EOR Short Course Description Day 1

- Overview & terminology
 - Effect of rock properties
 - Effect of heterogeneity and anisotropy
 - Effect of fluid properties
 - Wettability
 - Capillary pressure
 - Relative permeability
 - Physics of water displacing oil
 - Statistical forecasting
 - Analytical forecasting
 - Numerical forecasting
 - Monitoring
 - Water shut-off
 - Pattern rotation
 - Natural & hydraulic fractures
 - Horizontal well applications
 - Downhole separation
 - Enhanced waterfloods
 - Waterflood planning
 - Case histories
- Life under primary recovery phase: recovery targets and ways to improve
- Reservoir life cycle and recovery process

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EOR Short Course Description Day 2

- Life under secondary recovery phases: immiscible gas injection, waterflooding, recovery targets, ways to improve

- Secondary Recovery

- Overview & terminology
- Effect of rock properties
- Effect of heterogeneity and anisotropy
- Effect of fluid properties
- Wettability
- Capillary pressure
- Relative permeability
- Physics of water displacing oil
- Statistical forecasting
- Analytical forecasting
- Numerical forecasting
- Injector monitoring
- Producer monitoring
- Integrated monitoring
- Effect of water impurities
- Surface processing of injection and produced water
- Water shut-off
- Pattern rotation
- Natural & hydraulic fractures
- Horizontal well applications
- Downhole separation
- Enhanced waterfloods
- Waterflood planning
- Heavy oil – cold “foamy” production, production with sand
- Case histories

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EOR Short Course Description Day 3

- Life under enhanced oil recovery phase: increasing complexity, cost/benefit consideration, EOR selection matrix
- Miscible methods: selection criteria, recovery, design considerations, case studies
 - Phase Behavior - MMP,
 - Ternary Diagrams
 - CO2 Flooding & Case Study
- Chemical methods: selection criteria, recovery targets, design considerations, case studies
 - Polymer Flooding,
 - Surfactant and Alkaline Flooding
- Thermal methods: selection criteria, recovery targets, design considerations, case studies
- Technical challenges: current and future R & D directions, facilities modifications and personnel training



Ivan Terez

Houston

(Pet Eng / PhD Geosciences / MBA)

Consulting focus

- Exploration/appraisal and field development for onshore and offshore (shallow and deep), new ventures and assets, portfolio optimization; reservoir engineering advisory, conventional and unconventional EOR recovery, reserves management, economic and financial feasibility studies; decision-making, asset restructuring

Professional background

- Ivan is Founder and CEO of Renascent Energy and has held management and technical advisory positions in Chevron, Eni and Casa Exploration LP. He has broad experience in LatAm, GoM, UKNS, Ukraine, Russia, Kazakhstan and Indonesia

Education

- BSc/MSc in Mechanical Engineering (MIPT, Russia), MSc in Petroleum Engineering (U of Houston), PhD in Environmental and Geosciences (Texas A&M), MBA (AFW Wirtschaftsakademie Bad Harzburg, Germany)



Kenneth Kibodeaux
Houston
(Petroleum Engineer / PhD)

Consulting focus

- Reservoir engineering focus in conventionals and unconventionals (including shales and heavy oil), Enhanced Oil Recovery methods, reservoir performance prediction and optimization, reservoir characterization

Professional background

- Kenneth is co-founder and CTO of Renascent Energy, having held technology development and deployment positions in Texaco, Shell, and Saudi Aramco, and consulting work for PetroChina, with experience in US, Canada, China, Trinidad, Venezuela, Jordan, Saudi Arabia, and Indonesia. SPE Distinguished Member.

Education

- B.S. in Petroleum Engineering (U of Texas at Austin),
M.S. in Petroleum Engineering (U of Texas at Austin),
Ph.D. in Petroleum Engineering (U of Texas at Austin)



Myriam Juritz

Seattle

(Chem Eng / Dr Pet Eng / Mgmt Cons)

Consulting focus

- Reservoir engineering, integrated reservoir management, simulation, EOR, exploration new ventures, economics, international management and strategy, organizational performance, process improvement,

Professional background

- Myriam is an independent petroleum and management consultant and has been a lecturer at Texas A&M. She has worked for INTEC Engineering, San Jorge International, Tecpetrol, Accenture, Oliver Wyman, The Scotia Group, Arthur D. Little and Holland & Davies

Education

- BSc/MSc in Chemical Engineering (U of Buenos Aires, Argentina), International Petroleum Management Degree (Texas A&M) and Dr of Engineering on Petroleum Engineering (Texas A&M),

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Main Contacts:

Carlos Garibaldi
Non executive Chairman
Carlos.Garibaldi@PlataEnergy.com
+1. 832.878.3695

Max Torres
Managing Partner
Max.Torres@PlataEnergy.com
+1. 346.351.5755

<https://plataenergy.com>