NEETISH KUMAR MAURYA

ASSISTANT PROFESSOR (PETROLEUM ENGINEERING)
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EDUCATION

Doctor of Philosophy in Petroleum Engineering 2018
Indian Institute of Technology (ISM) Dhanbad
Dissertation Topic (in progress): Formulation and Characterization of Nanoparticle based Chemical slugs for their potential application in Enhanced Oil Recovery

Master of Technology in Petroleum Management (Dual Degree) 2012
Indian Institute of Technology (ISM) Dhanbad
Dissertation Topic: Performance Prediction of a Coal Bed Methane Reservoir: A Modeling and Simulation Approach

Bachelor of Technology in Petroleum Engineering (Dual Degree) 2012
Indian Institute of Technology (ISM) Dhanbad

TEACHING EXPERIENCE

Indian Institute of Technology (ISM) Dhanbad July 2012 till present
Assistant Professor (Petroleum Engineering)

- Teaching the concepts of reservoir engineering & production engineering to undergraduate and post graduate students of Petroleum Engineering

Expertise:

- Petroleum Production system: Equipment and operation, Well Inflow and outflow, Nodal Analysis & Pressure loss calculation, Well Completion Operation and design.
- Reservoir Engineering: Reservoir Characterization, Reserve & Resource Estimation, Reservoir Modelling
- Petroleum Formation Evaluation: Open and cased hole logging operation. Well Log interpretation
- Commercial software: CMG, Prosper, Mbal

RESEARCH EXPERIENCE

Research Interest

- Chemical enhanced oil recovery, Surfactant and Polymer flooding operations, Production system optimization

R&D Projects

- Feasibility of using Nanoparticles for Enhanced Oil Recovery in fields of ONGC (ongoing)

PUBLICATIONS

Journal Publications

1. Neetish Kumar Maurya, Prabhakar Kushwaha, Ajay Mandal; Studies on interfacial and rheological properties of water-soluble polymer grafted nanoparticle for application in enhanced oil recovery. Journal of the Taiwan Institute of Chemical Engineers. 2017, Volume70, pp. 319-330.
2. Neetish Kumar Maurya & Ajay Mandal; Studies on the behavior of suspension of silica nanoparticle in aqueous polyacrylamide solution for application in enhanced oil recovery. Petroleum Science and Technology. 2016, Volume 34, pp. 429 – 436.
3. Neetish Kumar Maurya & Ajay Mandal; Investigation of the synergistic effect of nanoparticle and surfactant in macro-emulsion based EOR application in oil reservoirs, Journal of Chemical Engineering Research and Design,2018, Vol. 132, pp. 370-384.
4. Keshak Babu, Neetish Kumar Maurya, Ajay Mandal, V.K.Saxena; Synthesis and characterization of sodium methyl ester sulfonate for chemically-enhanced oil recovery. Brazilian Journal of Chemical Engineering, 2015, Volume 32, pp. 795 – 803.

PROFESSIONAL TRAINING

Workshop

- Schlumberger Academia Connect Programme-2013 (6 weeks)
  - Well log interpretation: Theory and interpretation using Techlog Software
  - Reservoir Characterization: Tools, methods and practical applications
  - Reservoir Simulation: Waterflood performance prediction using Eclipse

Training

- ONGC Ahmedabad Asset-2015 (3 weeks)
  - Filed visit to ONGC filed and surface asset: Production and stimulation operation

PROFESSIONAL AFFILIATIONS

Society of Petroleum Engineer