

**International Workshop on
“Enhanced Oil Recovery and Porous Media Flows”**

TAMU-Qatar, Doha, Qatar, July 31-August 1-2013

All lectures in 143

Wednesday, July 31, 2013

8:30 – 8:40 am: Welcome Address by Dean and CEO Mark Weichold

8:40 – 8:45 am: Welcome and Some Remarks by Prabir Daripa

8:45 – 9:45 am: **“Mathematical and Computational Aspects of Chemical Enhanced Oil Recovery Process”** by

Dr. Prabir Daripa

Mathematics Department, Texas A&M University, College Station, Texas, USA

9:45 – 10:45 am: **“Thermodynamic Interpretation of Enhanced Oil Recovery: A Focus on Chemical Flooding”** by

Dr. Istvan Lakatos

Research Institute of Applied Earth Sciences, University of Miskolc, Hungary

10:45 – 11:00 am: **Break and Discussion**

11:00– 12:00 Noon: **“Microbial Enhanced Oil Recovery Processes”** by

Dr. Abdesselam Abdelouas

Ecole des Mines de Nantes, SUBATECH department, Nantes, France

12:00 pm – 1:30 pm: **“Break”**

1:30 – 2:30 pm: "[Multicomponent polymer flooding in two-dimensional oil reservoir simulation](#)" by

Dr. Veerappa Gowda
TIFR Centre for Applicable Mathematics, Bangalore, India

2:30 – 3:30 pm: "[Lax- Friedrichs Scheme for conservation laws with discontinuous flux](#)" by

Dr. Adi Adimurthi
TIFR Centre for Applicable Mathematics, Bangalore, India

3:30 – 4:30 pm: "[Saffman-Taylor instability for an Oldroyd-B fluid](#)" by

Dr. Gelu Pasa
"Simion Stoilow" Institute of Mathematics of the Romanian Academy , Bucharest,
Romania

4:30 – 5:00 pm: **Break and Discussion**

Thursday, August 1, 2013

8:45 – 9:45 am: "[Physically realistic simulation of multiphase flow in fractured or structurally complex reservoirs](#)" by

Dr. Stephan K. Matthai,
Institute of Reservoir Engineering, Montan University of Leoben, Austria.

9:45 – 10:45 am: "[Miscible Gas Injection Challenges: Optimum Gas Mixture to Maximize Oil Recovery from Medium/Light Crude Oil Reservoirs](#)" by

Dr. Hadi Belhaj
The Petroleum Institute – Abu Dhabi, UAE

10:45 – 11:00 am: **Break**

11:00 – 12:00 Noon: “[Forward and inverse problems in multiphase flow through porous media](#)” by

Dr. Subhendu Hazra

Institute IWAR; TU Darmstadt; Petersenstrabe 13; 64287 Darmstadt, Germany

12:00 – 1:30 pm: **Break**

1:30 – 2:30 pm: “[Finite Volume–Nonconforming Finite Element For Two Compressible And Immiscible Flow In Porous Media](#)” by

Dr. Mazen Saad

Ecole Centrale de Nantes, Laboratoire de Mathématiques, Nantes, France

2:30– 3:30 pm: “[Parallel Adaptive Simulation of Processes from Science and Engineering](#)” by

Dr. Gabriel Wittum

University of Frankfurt, Germany

3:30 - 4:30 pm: “[Mathematical analysis of a three-layer fluid flow in a Hele-Shaw cell and porous medium](#)” by

Dr. Oscar Orellana

Department of mathematics, Federico Technical University of Santa Maria, Valparaiso, Chile

4:30 – 5:00 pm: **Group Discussion and Farewell**