Chemical EOR Workshop
Key Success Factors
4th edition

MELIA Paris La Défense / France

17-19 June 2019

PROGRAM
Monday 17 June

08:15  Registration

09:00  Welcome and Introduction (IFPEN)

SESSION 1: FIELD APPLICATIONS OF POLYMER FLOODING

09:15  Polymer flooding pilot in heavy oil and challenging conditions reservoir – field case
Juan Manuel Leon Hinestroza* (Ecopetrol)

09:45  Polymer process performance for different waters compositions in El Corcobo field: lab results and challenges
Maria Alejandra Hryc* and Federico Martin Hochenfellner (Pluspetrol)

10:15  Coffee break

10:45  Experience in the field application of the biopolymer schizophyllan
Ana Todosijevic* (Wintershall)

11:15  A Shear-Resistant, High Injectivity, Reservoir-Triggered EOR Polymer – From concept to the field
David Chapell* (BP), Bilal Rashid (BP), Jon Stapley (BP), William Andrews (Nalco Champion), Peter Reed (Nalco Champion) and Robin Shields (Nalco Champion)

11:45  The EOR journey in Nimr: from concept to full field development
Reham Al-Jabri (PDO)

12:15  Lunch

14:00  Bus to IFPEN Rueil-Malmaison

14:30  IFPEN Lab visit

17:30  Bus to Meliá hotel
Tuesday 18 June

08:30  **Registration**

**SESSION 2: WATER MANAGEMENT**

09:00  **Managing high injection water quality for polymer flooding: OMV’s experiences and lessons learned**  
Roland Albustin, Karl Jamek*, Rainer Kadnar*, Martin Klikovics, Christoph Puls and Manuel Vidlak (OMV)

09:30  **Influence of EOR Polymers on Fouling in Production Wells & Facilities**  
Robert Zagitov*, Panneer Selvam Venkat, Vinay Mathur, Saumya Mittal, Jaisankar Subramanian and Dibyendu Bagchi (Cairn Oil and Gas Vedanta Ltd)

10:00  **Coffee break**

10:30  **Assessment of Enhanced-Oil-Recovery- Chemicals Production and its Potential Effect on Upstream Facilities**  
Abdulkareem M. AlSofi*, Ali M. AlKhatib, Hassan A. Al-Ajwad, Qiwei Wang and Badr H. Zahrani (Saudi Aramco)

11:00  **Produced Fluid Handling and Water Cycle Management Plan for Large Scale ASP Expansion in Mangala Field**  
Anindya Chakraborty* (Cairn Oil & Gas, Vedanta Limited)

**SESSION 3: ION OPTIMIZED WATER FLOODING**

11:30  **Chemical EOR to improve field recovery: low salinity water flooding and polymer injection, labs analysis and modelling**  
Alessandro Botteon*, Moghadasi Leili, Patrizia Pisicchio, Martina Sambiase* and Tobia Pepe (ENI)

12:00  **Lunch**

13:30  **Pilot test in a water-invaded zone using smart water injection program under the concept of huff & puff**  
Heron Gachuz-Muro* (PEMEX E&P)

14:00  **Learning from Measurement of High Salinity Brine-Oil Zeta Potential**  
Takaaki Uetani*, Hiromi Kaido and Hideharu Yonebayashi (INPEX)
SESSION 4: SURFACTANT BASED EOR FLOODING

14:30 Surfactant-Polymer EOR Pilot Project in Algyő field
Sándor Puskás, Mária Törő*, Tibor Ördög, Gyula Kálmán, Pál Hanzelik and Zsolt Bihari (MOL Hungarian Oil and Gas Plc.), Réka Tabajdi and Imre Dékány (University of Szeged), Árpád Vágó, József Dudás, Roland Nagy and László Bartha (University of Pannonia)

15:00 Coffee break

15:30 Key Challenges in EOR applications in complex, tight and highly fractured reservoirs
Saja Khaburi (PDO)

16:00 Update on chemical EOR maturation – technology developments and pilot results
Jeroen Groenenboom* (Shell)

16:30 High throughput coreflood experimentation as a tool for EOR project design
Souhail Youssef*, Matthieu Mascle and Olga Vizika (IFP Energies nouvelles) (*tbc)

18:00 Bus to Paris for the workshop Dinner

22:00 Bus back to Meliá Hotel
Wednesday 19 June

08:30  
Registration

SESSION 5: CHALLENGING RESERVOIRS

09:00  
WSO using CDG in horizontal wells under strong bottom aquifer and different geology features (to be confirmed)
Lino Andarcia* (HOCOL)

09.30  
Continuous Steam Flooding Process after a Successful Cyclic Steam Stimulation Program in Mexico. Increasing the Recovery Factor for an extra-heavy oil field
Gerardo Alva-Arroyo, Silvia Chávez-Morales* and Tayde Prieto-Sosa (PEMEX E&P)

10:00  
Coffee break

10:30  
EOR as a Pillar for the Sustainability of Ecopetrol: From Conception to Materiality
José-Francisco Zapata*, F. Fernandez, Rodriguo Dalle Fiore, Carolinne H. Chaparro, Carmen Hinds, Adriano Lobo, Lina Maria Quintero, Jorge Mantilla and Jaime Jimenez (Ecopetrol)

11:00  
A Study of Gel Conformance Control within Fractured Carbonate Cores by Low-Field NMR Techniques
Amar J. Alshehri*, Jinxun Wang, Hyung T. Kwak, Abdulkareem M. AlSofi and Jun Gao (Saudi Aramco)

11:30  
Polymers and Their Limits in Temperature, Salinity and Hardness: Review of Field Cases
Eric Delamaide* (IFP Technologies Canada)

12:00  
Lunch

SESSION 6: FOAM PROCESSES

13:30  
Recent Learnings on Foam-based EOR Processes
Guillaume Batôt* (IFP Energies nouvelles)

14:00  
Foam to Optimize Gas Injection Development Scheme: Labs Evidence
Martin Bartosek*, Ahmed Abrar, Renna Dario, Elena Braccalenti, Caterina Topin, Franco Masserano, Michela De Simoni and Laura Dovera (ENI)

SESSION 7: OFFSHORE APPLICATIONS

14:30  
Development of the Mixing Energy Concept to Hydrate Novel Liquid Polymers for Field Injection
Do Hoon Kim, Dennis Alexis, David Espinosa, Anette Poulsen, Taimur Malik, Sophany Thach*, Varadarajan Dwarakanath and Taylor Jordan Isbell (Chevron Energy Technology Company), Mohamad Salman (Chevron Energy Technology Company, currently University of Houston), Peter New, Adam Jackson and Derek McKilligan (Chevron Upstream Europe)

15:00  
Coffee break
15:30 **Perspective for EOR in the North Sea**  
Glenn Brown* (Oil & Gas Authority)

16:00 **CO₂ EOR in the North Sea – Perspectives from Equinor**  
Sveinung Hagen*, Torbjørg Klara Fossum, Bengt Olav Neeraas and Bamshad Nazarian (Equinor)

16:30 **Results of the UK Captain Field Interwell EOR Pilot**  
Anette Poulsen*, Varadarajan Dwarakanath and Sophany Thach (Chevron Energy Technology Company), Mike Shook (Mike Shook & Associates), Adam Jackson, Nicolas Ruby and Karl Charvin (Chevron North Sea Limited)

17:00 **Conclusions – End of the Workshop**

* presenting author