

Technical Programme

Friday, 5 June

0830-1230

Ballroom

09 Injection II

Session Chairpersons: **Paul van den Hoek**, Shell; **Istvan Janos Lakatos**, University of Miskolc

Injection of any fluid into a well introduces likelihood for formation damage, especially from particulate matter. This session presents and discusses several aspects, from software evaluation, laboratory studies and field trials, and studies of both established and novel solutions.

TIME	PAPER #		PRESENTATION
0830-0900	174185		Injectivity during PWRI and Disposal in Thick Low Permeable Formations (Laboratory and Mathematical Modelling, Field Case) A. Kalantariasl, University of Adelaide; K. Schulze, J. Storz, C. Burmester, S. Kuenckeler, RWE Dea AG; Z. You, A. Badalyan, P. Bedrikovetski, University of Adelaide
0900-0930	174235		Comparison of Streamline Reservoir Simulation of Brine Flow, Mixing and Barium Sulphate Induced Formation Damage with Observed Produced Water Chemical Data to Aid Scale Management Y. Hu, E.J. Mackay, O. Vazquez, O. Ishkov, Heriot-Watt University
0930-1000	174229		Controlling Excessive Water Production Using Induced Formation Damage A. Zeinijahromi, P. Bedrikovetsky, Australian School of Petroleum, The University of Adelaide
1000-1030	174197		Role of Well Completion in PWRI Design J. Ochi, Total; T. Hofsaess, Corepep
1100-1130	174214		Molecular Weight Effects in Polymeric Scale Inhibitor Precipitation Squeeze Treatments N.M. Farooqui, K.S. Sorbie, L.S. Boak, Heriot Watt University
1130-1200	174261		Microscopic Simulation Of Wettability Alteration During Smart Water Flooding On Chalk Reservoirs K.H. Chakravarty, P.L. Fosbøl, K. Thomsen, Center for Energy Resources Engineering, Department of Chemical and Biochemical Engineering, Technic
1200-1230	174182		40 Years of Low-Salinity Waterflooding in Pervomaiskoye Field, Russia: Incremental Oil V. Akhmetgareev, R. Khisamov, TATNEFT
Alternate	174265		Nanosilica-based Conformance Gels P. Boul, Aramco Services Company (formerly Halliburton); A. Ye, X. Pang, V.S. Goel, L.S. Eoff, B.R. Reddy, Halliburton
Alternate	174257		Investigation of Formation Damage By Deep Eutectic Solvents As A New EOR Agents A. Mohsenzadeh, Y.M. Al-Wahaibi, R. Al-Hajri, B. Jibril, S. Joshi, B. Pracejus, Sultan Qaboos University

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0830-1230

Bellevue

10 Stimulation II

QUICK LINKS

- ..» Technical Programme
- ..» Plenary Session
- ..» Training Courses
- ..» SPE Meeting Calendar

Technical Programme

Wednesday

Thursday

Friday

Session Chairpersons: **Josef R. Shaoul**, Fenix Consulting Delft; **Anne-Mette Mathisen**, Statoil ASA

Emphasising case studies, a variety of innovative developments in the area of stimulation will be presented in this session, including: Matrix stimulation • High-temperature chelant fluids • Determining acid concentration for high-temperature sandstone reservoirs • Measuring acid diffusions coefficients Hydraulic fracturing • Case studies of successful fracture stimulations in the UK, Danish, and Dutch North Sea sectors • New types of fluids for hydraulic fracturing • Optimisation of fracturing in mature reservoirs

TIME	PAPER #		PRESENTATION
0830-0900	174188		Bursting the Skin Bubble - Decoupling Formation Damage from Skin in Complex Well Geometries M.T. Byrne, C. McPhee, R. Lemanczyk, LR Senergy
0900-0930	174210		A New Class of Associative Polymer for Hydraulic Fracturing Applications A. Cadix, J. Wilson, T. Carouhy, S. Harrisson, H. Guichon, Solvay Novecare
0930-1000	174167		Stimulating High-Temperature Dolomitic Limestone Reservoirs with Chelant Fluids Y. de Antuñano, PEMEX; M. Losada, A. Milne, Schlumberger
1000-1030	174274		The Implementation of State-of-the-Art Channel Fracturing Technique in High Permeability Layered Reservoirs in the Sinai Peninsula M.M. Kortam, M. Anwar, D. Mousa, A. Fouad, Petrobel; M. Yosry, BP Egypt; A. Mathur, N.M. Abbas, M. El Sahli, Schlumberger
1100-1130	174243		A New Approach to Improve Fracturing in Mature Reservoirs, Case Study A. Klyubin, A.S. Konchenko, S. Parkhonyuk, S. Pavlova, Schlumberger; D.V. Sitdikov, A.N. Ivanov, Bashneft
1130-1200	174178		Advanced Residue-Free Fracturing Fluid with Improved Friction Reduction and Exceptional Cleanup Properties D. Singh, A. Russell, E. Schnoor, U.A. Inyang, Halliburton
1200-1230	174198		Acid Zone Coverage for Long Horizontal Well Stimulation Challenges and Field Case Study A. Nino-Penaloza, X. Li, A.M. Gomaa, S. Chaudhary, Baker Hughes
Alternate	174246		A Shallow-Penetration Polymer Sealant for Water and Gas Control: Case Histories and Lessons Learned After More Than 250 Well Interventions J.E. Vasquez, R.J. Curtice, Halliburton
Alternate	174272		Systematic Engineering and Candidate Recognition Methodology for Stimulation in Depleted Fields Leads to Multifold Increase in Production A. Barasia, P. Pankaj, R. Venkateshwaran, Schlumberger Limited

Friday, 5 June

1330-1630

Ballroom

11 Perforating

Session Chairpersons: **James Andrew Curtis**, Curtis Energy Consulting LLC; **Michael T. Byrne**, LR Senergy

The perforation session will focus on how to optimise productivity of cased and perforated wells. New technologies, results from laboratory testing, and field case histories will be presented. The session will demonstrate significant advances in perforated completion designs, the understanding of flow into perforations, and their potential to enable optimum productivity.

TIME	PAPER #		PRESENTATION
1330-1400	174209		Thermal Decomposition Effects on Perforating Performance and Safety A.E. Boock, M.S. Brinsden, Shell International E&P Co; C. Sokolove, T.G. Golian, Hunting Titan Ltd; J.L. Maienschein, E.A. Glascoe, Lawrence Livermore National Laboratory
1400-1430	174244		From Computerized Tomography to CFD: Production Flow Prediction in Realistic Perforation Tunnels R.P. Satti, D.K. Kim, M. Ji, D. Bale, Baker Hughes
1430-1500	174194		Understanding Perforation Geometry Influence on Flow Performance Using CFD S. Allison, Delphian Ballistics Limited; J. Löhken, L. McNelis, DynaEnergetics; L. Djayapertapa, M. Byrne, K. Watson, LR Senergy; A. Clarke, Premier Oil Limited

1500-1530	174251		Mitigating Formation Damage by Using Completion with Built-in-Casing Perforations Instead of Perforation with Explosive Charges R. Rastegar, M. Munawar, D. Nowowiejski, S. Granberg, C. Mehus, A. Benson, Trican Completion Solutions
1530-1600	174213		Perforating on Wireline: Maximizing Productivity and Minimizing Gunshock C.E. Baumann, D.E. Gultom, A.D. Salsman, M.E. Smart, Schlumberger; I. Primasari, R. Rachman, S. Warsito, Total
1600-1630	174207		A Novel Method for Optimal Perforation Design A.V. Pasztor, University of Miskolc; B. Kosztin, MOL E&P
Alternate	174276		A Case Study for Effective Perforation and Gravel Placement in a Complex Dual Casing Completion M. Vigo, N. Obanor, J. Munro, Y. Shumakov, Schlumberger

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12 Production from Unconventional Reservoirs II

Session Chairpersons: **Ali Ghalambor**, Oil Center Research International, L.L.C.; **Pacelli L.J. Zitha**, Delft University of Technology

The session will consider aspects of unconventional reservoirs such as characterisation, damage mechanisms, and stimulation. The papers will presents results from both laboratory and field experiences and observations for coal seams, shales, and tight gas reservoirs.

TIME	PAPER #		PRESENTATION
1330-1400	174200		Graded Proppant Injection into Coal Seam Gas and Shale Gas Reservoirs for Well Stimulation A. Keshavarz, A. Badalyan, T. Carageorgos, P. Bedrikovetsky, R. Johnson, Jr., Australian School of Petroleum, The University of Adelaide
1400-1430	174233		Experimental Study of the Permeability Damage Associated with Fines Production from a Bituminous Coal during Water Injection Z. Guo, F. Hussain, Y. Cinar, School of Petroleum Engineering, The University of New South Wales
1430-1500	174227		Indentation Hardness for Improved Proppant Embedment Prediction in Shale Formations M. Mueller, M. Amro, TU Bergakademie Freiberg
1500-1530	174186		New Insights Into Fracturing Fluid Additives And Their Interaction In Shale Outcrop Cores Using NMR Techniques J. Kim, A.M. Gomaa, B. Zhang, Q. Qu, S.G. Nelson, H. Zhang, Baker Hughes
1530-1600	174282		Wellsite Mineralogical Data Acquisition; Reconciling Results from Multiple Analytical Sources B.J. Davis, A. Koch, Baker Hughes Incorporated; G. Braun, Consultant; C. O'Connor, E. Frost Jr., T. Quinn, Baker Hughes Incorporated; C. Ly, G. Oliver, G. Spence, CGG; B. Whatley, N.G. Cardy, M. Wilson, Baker Hughes Incorporated
1600-1630	174226		Characterization and Development of Deep Carbonaceous Shales: A North Kuwait Case Study M.A. Al-Arouj, Kuwait Oil Company; A. Barasia, Schlumberger Limited; E. Fidan, Kuwait Oil Company; C. Darous, Schlumberger Oilfield Eastern Lt; S.S. Sharma, M.D. Al-Mutairi, Kuwait Oil Company