



UNITED | Scientific
Group

GOPE-2018

2nd International Conference on

Gas, Oil and Petroleum Engineering

February 26-28, 2018

Venue

DoubleTree by Hilton Houston Intercontinental Airport
15747 John F. Kennedy Blvd.
Houston, TX 77032 USA

Exhibitor



WILSON & ASSOCIATES
DOCUMENTS, DATA, PROCESS

Note : This program is tentative and subject to change

Day-1 | February 26, 2018

- 07:45-08:15 Registrations & Badge Pickup @ Prefunction Area
- 08:15-08:30 Opening, Welcome and Announcements
- Keynote Session** @ Seattle I & II
- 08:30-09:00 **Reservoir Fluid Geodynamics: The Missing Link in Reservoir Evaluation**
Oliver C. Mullins, Schlumberger, TX, USA
- 09:00-09:30 **The Past and Future of Oil and Gas Extraction in the United States**
Davis L. Ford, Davis L. Ford & Associates, TX, USA
- 09:30-10:00 **Qualification Testing of Electronics Used in Oil and Gas Production**
Michael Pecht, University of Maryland, MD, USA
- 10:00-10:30 **Enhanced Oil Recovery in Shale Reservoirs and Technical Challenges**
Duy Nguyen, Nalco Champion, TX, USA
- 10:30-10:45 Coffee Break** @ Prefunction Area
- 10:45-11:15 **Multi-Scale Equation of State Modeling of Confined Reservoir Fluids**
Angelo Lucia, University of Rhode Island, RI, USA
- 11:15-11:45 **Process Intensification in Hydroprocessing**
Ying Zheng, University of Edinburgh, UK
- Scientific Session-1** @ Seattle I & II
- Drilling and Well Completion Technology | Petroleum Exploration | Reservoir Engineering**
- Chairs:** Daniel W.H. Su, National Institute for Occupational Safety and Health, PA, USA
Qinglin Wu, Louisiana State University, LA, USA
- 11:45-12:05 **Surface Modified Cellulose Nanocrystals as Multifunctional Additives for High Performance Nano Bentonite Water-based Drilling Fluids**
Qinglin Wu, Louisiana State University, LA, USA
- 12:05-12:25 **Environmentally Responsible Non-Destructive Cleaning with Dry Ice**
David Watson, Cold Jet, LLC, OH, USA
- 12:25-12:45 **Development of a State-of-the-Art Modelling Tool for IOR Optimization**
Martin Smedstad Foss, Institute for Energy Technology, Norway
- 12:45-13:05 **An Optical Investigation of Combustion Process of a Direct High-Pressure Injection of Natural Gas**
Hiroshi Tashima, Kyushu University, Japan
- 13:05-13:50 Lunch** @ Dallas & Houston
- 13:50-14:10 **The Automatic Interpretation of Structural Plane Parameters in Borehole Camera Images from Drilling Engineering**
Chuanqing Wang, Institute of Rock and Soil Mechanics, China

- 14:10-14:30 **API Gravity Determination of Oils in Hydrocarbon Fluid Inclusions in Kerala-Konkan Basin, India Using Fluorescence Emission Technique**
V. Nandakumar, National Centre for Earth Science Studies, India
- 14:30-14:50 **The Microstructural Based Fitness-For-Service Analysis of Condensate Vessels at Oil and Gas Plant**
Muhammad Adil Khattak, Universiti Teknologi Malaysia, Malaysia
- 14:50-15:10 **Petrophysical Characteristics and Logging Evaluation of Asphaltene Carbonate Reservoirs: A Case Study of the Cambrian Longwangmiao Formation in Anyue Gas Field, Sichuan Basin**
Qiang Lai, PetroChina Southwest Oil and Gas Field Company, China
- 15:10-15:30 **Natural Polymers Applied in the Oilfield Industry**
Isabel Natalia Vega, YPF Technology, Argentina
- 15:30-15:45 **Coffee Break** @ Prefunction Area
- 15:45-16:05 **Application of the Axial & Torsional Impact Hammer in Deep Wells to Improve Drilling Efficiency**
Shubin Liu, China University of Petroleum, China
- 16:05-16:25 **How to Use Controlled Surface Pipe Rocking to Drill Faster and Farther**
Xueying Wang, China University of Petroleum, China
- 16:25-16:45 **Experimental Study on the Frictional Coefficient Between Drill-String and Rocks Under In-Plane Vibrations**
Peng Wang, China University of Petroleum, China
- 16:45-17:05 **Experimental Investigation on Perforation of China Shale with Abrasive Water Jet: Erosion, Micro-Annulus and Extending**
Can Cai, Wuhan University, China
- 17:05-17:25 **A System for Real-Time Drilling Data Monitoring, Pattern Recognition and Analysis**
Ethar Alkamil, Missouri University of Science and Technology, MO, USA
- 17:25-17:45 **Analysis of NORM in the Reservoir Sand Section in the Dorado Natural Gas Discovery Sri Lanka**
Shantha S. N. Gamage, University of Sri Jayewardenepura, Sri Lanka
- 17:45-18:05 **Electrical Resistivity and Rheological Properties of Sensing Bentonite Drilling Muds Modified With Lightweight Polymer**
Ahmed Salih Mohammed, University of Sulaimani, Iraq
- 18:05-18:25 **A Quick Method of Production Profile Prediction Based on Type Curves: A Case Study of the Upper Shale Large Multi-Layered Sandstone Reservoir, Rumaila Oilfield, Iraq**
Li Yong, PetroChina Research Institute of Petroleum Exploration & Development, China

Day-2 | February 27, 2018

Scientific Session-2

@ Seattle I & II

Unconventional Resources | Biofuels | Offshore & Case Studies

Chairs: Jack Christiansen, University of Houston, TX, USA

Janusz Grebowicz, University of Houston-Downtown, TX, USA

- 08:30-08:50 **Brown Grease as a Source of Green Petroleum: Progress Towards an Industrial Process**
Lawrence M. Pratt, University of New York, NY, USA
- 08:50-09:10 **Nuclear – Oil Shale Hybrid?**
Janusz Grebowicz, University of Houston-Downtown, TX, USA
- 09:10-09:30 **Advances in Underground Coal Gasification for Commercial Operations**
Michael Green, UCG Engineering Ltd, UK
- 09:30-09:50 **Offshore Learning Center: Innovative Educational Approach**
Jack Christiansen, University of Houston, TX, USA
- 09:50-10:10 **Fabrication of Micromodel of Carbonate Reservoir for Real-Time Visualization of Fluid Behaviors in Porous Media**
Wei Wang, Aramco Services Company, MA, USA
- 10:10-10:25 **Coffee Break** @ Prefunction Area
- 10:25-10:45 **Crude Oil Density Measurement and Prediction at Platform**
Isaac Gamwo, U.S. Department of Energy, PA, USA
- 10:45-11:05 **Inverse Molecular Design of Green Catalysts for Biofuel Production with High-Yield: Thermodynamics Feasibility and Experimental Implementation**
Dequan Xiao, University of New Haven, CT, USA
- 11:05-11:25 **Renewable Natural Gas as a Solution to Climate Goals: Response to California's Low Carbon Fuel Standard**
Daniel Scheitrum, University of Arizona, AZ, USA
- 11:25-11:45 **Examining the Environmental Constraints and Solution for Coalbed Methane Production in Wainwright, Alaska (The Nanushuk Formation)**
Vahid Atashbari, The University of Alaska Fairbanks, AK, USA
- 11:45-12:05 **Stability of Shale Gas Well Casings Under the Influence of Longwall-Induced Subsurface Deformations**
Daniel W.H. Su, National Institute for Occupational Safety and Health, PA, USA
- 12:05-12:25 **Disruptive Technology for One-Step Blasting, Profiling and Surface Decontamination**
Loren Hatle, Wirx Group, LLC, WA, USA

- 12:25-12:45 **The Dusk of the Fossil Fuel Era**
John Smith Lowry, University College London, UK
- 12:45-13:05 **Upgrading of Vacuum Residue (VR) Using Supercritical Solvents/Carbon System in Batch and Continuous Reactors**
Chang-Ha Lee, Yonsei University, South Korea
- 13:05-13:45 **Lunch** @ Dallas & Houston
- 13:45-14:05 **State Space Estimator for Plunger Lift**
Osmar de Araujo Dourado Junior, IFAL, Brazil
- 14:05-14:25 **Hazardous Emissions Fixation and Enhanced Biohydrogen Production from Microalgae Cultivated in Photobioreactors**
José Viriato Coelho Vargas, Universidade Federal do Paraná, Brazil
- 14:25-14:45 **Green Campus Ecoscore: A Case Study**
KVSG Murali Krishna, Jawaharlal Nehru Technological University Kakinada, India
- 14:45-15:05 **Oil Spills Elimination Using Spongy Structures Based on Carbon Nanomaterials**
Zulkhair Mansurov, Institute of Combustion Problems, Kazakhstan
- 15:05-15:25 **Experimental Investigation on solitary Wave Passing through Opening of Impermeable Breakwater**
Jassim Jaf, University of Houston, TX, USA
- 15:25-15:45 **The Impact of Permeability Jail on Tight Gas Production from the Multistage Hydraulically Fractured Horizontal Well**
Fei Mo, Southwest Petroleum University, China
- 15:45-16:00 **Coffee Break** @ Prefunction Area
- 16:00-16:20 **Application of Discrete Fracture Network Model in the Simulation of Massive Fracturing in Tight Oil Reservoir**
Chunming He, PetroChina Research Institute of Petroleum Exploration & Development, China
- 16:20-16:40 **Study and Field Test of Economic Stimulation of Low Permeability Sandstone Reservoirs In X Depression**
Cai Bo, PetroChina Research Institute of Petroleum Exploration & Development, China
- 16:40-17:00 **The Use of CFD to Optimise Two and Three Phase Separators**
Tariq Ahmed, Teeside Univeristy, UK
- 17:00-17:20 **Carbon Chain Length Increase Reactions of Platform Molecules Derived from C5 and C6 Sugars**
Mats Källdström, Neste Corporation, Finland
- 17:20-17:40 **Experimental Study of a Stable Aqueous Foam System for Drag Reduction of Heavy Oil Transport**
Jiaqiang Jing, Southwest Petroleum University, China
- 17:40-18:10 **Poster Session** @ Dallas & Houston

Chemical Applications | Processing Technologies | Energy Economics

Chairs: Isaac K. Gamwo, U.S. Department of Energy, PA, USA
Ping He, Lamar University, TX, USA

- 08:30-08:50 **The Promotion of MoS₂ with Co and Ni Solved!**
Russell R. Chianelli, University of Texas El Paso, TX, USA
- 08:50-09:10 **Polymer Design to Optimize Enhanced Oil Recovery by Polymer Flooding**
Ton Broekhuis, University of Groningen, The Netherlands
- 09:10-09:30 **Produced Water Treatment using Direct Contact Membrane Distillation**
Kamalesh K Sirkar, New Jersey Institute of Technology, USA
- 09:30-09:50 **Produced Water Treatment Using Forward Osmosis Membrane Technology**
Rong Wang, Nanyang Technological University, Singapore
- 09:50-10:10 **What the Bio-Economy Can Learn from the Petro-Economy ?**
Michael Boot, Eindhoven University of Technology, The Netherlands
- 10:10-10:20 **Coffee Break** @ Prefunction Area
- 10:20-10:40 **Complementary Methodology for Emulsion Breaker Product Selection for SAGD Produced Oil**
Lauren Morrow, Nalco Champion, TX, USA
- 10:40-11:00 **Multiphysics Modeling of Petroleum Fluids in Chemical Processes**
Ping He, Lamar University, TX, USA
- 11:00-11:20 **Product Development and Simulations for EOR**
Francesco Picchioni, University of Groningen, The Netherlands
- 11:20-11:40 **Flow Improvers to Reduce Viscosity of Dry Diluted and Undiluted Heavy Oil**
Vittoria Balsamo, Nalco Champion, TX, USA
- 11:40-12:00 **Oil in Water Characterization by Dynamic Optical Fluid Imaging Technology**
Daniel Fakunle, Baker Hughes, TX, USA
- 12:00-12:20 **Peculiarities of Hydrocarbon Transformations of Benzene and Adamantan Range in the Conditions of Acid Catalysis**
Romanna Safir, RUDN University, Russia
- 12:20-12:40 **Bilevel Stochastic Optimization Model for Natural Gas Cash-Out Problem**
Viacheslav Kalashnikov, Tecnológico de Monterrey, Mexico

- 12:40-13:00 **Water Depths and Discharge Comparison of Dividing Flow in Open Channels**
Mohammed Fathi Bashar, University of Houston, TX, USA
- 13:00-13:20 **Experimental Studies on Low Salinity Waterflooding--Effects of Brine Composition and Clay Minerals**
Renyuan SUN, China University of Petroleum, China
- 13:20-13:40 **A Predictive Real-Time Energy Management Control for a Hybrid Electric System supplied by Hydrogen PEMFC Using a Supplement Energy Storage Battery / Ultracapacitor**
Benslama Sami, King AbdulAziz University, Saudi Arabia
- 13:40-14:00 **Characterization and Synthesis of Perspective Hydrocarbons for Synthetic Lubricants with a High Viscosity Characteristic**
Aygün Mammadova, Azerbaijan National Academy of Sciences, Azerbaijan
- 14:00- **Lunch & Departures** @ Dallas & Houston

Poster Session

- P-01 **Co-processing of Petroleum Vacuum Residue with Woody Biomass Using Supercritical Tetralin and m-Xylene: A Parametric Study**
Chang-Ha Lee, Yonsei University, South Korea
- P-02 **Determination of Klinkenberg Permeability Conditioned to Pore-Throat Structures in Tight Formations**
Guangfeng Liu, China University of Petroleum, China
- P-03 **Application of ASTM Methods and Low Field NMR to Characterization of Petroleum and Fuel**
Lúcio Leonel Barbosa, Federal University of São Paulo, Brazil
- P-04 **A Microwave Heating Method for *In-Situ* Exploitation of Oil Shale Assisted by Nanomaterial**
Jingyi Zhu, Southwest Petroleum University, China
- P-05 **Catalysts for Bio-oil Upgrading Utilizing Trickle Bed Reactors**
Bhavya Singh, Texas A&M University - Kingsville, TX, USA
- P-06 **Evaluation of the pH Value Effect on the Chemical Treatments**
Jedeshkeran Chandrasegaran, Midwestern State University, TX, USA
- P-07 **Production Analysis of Tight Sandstone Reservoir in Consideration of Stress-Sensitive Permeability**
Yinghao Shen, China University of Petroleum, China
- P-08 **Novel Method for Calculating the Effective Stress Coefficient in a Tight Sandstone Reservoir**
Qian Liu, CNPC Research Institute of Petroleum Exploration and Development, China



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