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Scientific Program

3rd World Congress on

Petroleum Engineering and Natural Gas Recovery

July 20-21, 2018 Sydney, Australia



Hosting Organization: Conference Series LLC LTD

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Day 1 July 20, 2018

09:00-09:30 Registrations

Pier One

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09:30-09:45

Opening Ceremony

Keynote Forum

- 09:45-10:30** Title: **The successful development of shale gas and tight oil resources in North America**
Daniel J Soeder, South Dakota School of Mines & Technology, USA
- 10:30-11:15** Title: **Conversion of methane gas from coal and oil and gas sources as a stop gap for the electrical grid and reduction in climate change gases**
Steven Tedesco, Atoka Inc., USA

Group Photo

Networking and Refreshments Break: 11:15-11:30 @ Foyer

- 11:30-12:15** Title: **Next generation reservoir engineering**
Klaus Regenauer-Lieb, University of New South Wales, Sydney
- 12:15-13:00** Title: **Current status and future technical orientation of tight gas development in China**
Ailin Jia, Research Institute of Petroleum Exploration and Development-CNPC, China

Lunch Break: 13:00-14:00 @ Four Element Restaurant–Level 1

Sessions: Petroleum Geology | Hydraulic Fracturing | Advanced Drilling Technologies | Petroleum Refineries | Computer Applications in Petroleum Engineering | Advanced Natural Gas Engineering | New frontiers in Petroleum Engineering

Session Introduction

Session Chair: **Daniel J Soeder**, South Dakota School of Mines & Technology, USA

- 14:00-14:30** Title: **Types, characteristics, challenges and development technologies of carbonate gas reservoirs in China**
Yan Haijun, Research Institute of Petroleum Exploration and Development, China
- 14:30-15:00** Title: **Horizontal well geological optimization in tight sand gas field of braided-river facies**
Guo Zhi, Research Institute of Petroleum Exploration and Development, China
- 15:00-15:30** Title: **Recovery rate calculation method of large tight sand stone gas field**
Guo Jianlin, Research Institute of Petroleum Exploration & Development, China

Networking and Refreshments Break: 15:30-15:45 @ Foyer

YRF

- 15:45-16:15** Title: **Production calculation of trans-layer fractured horizontal wells**
Chen Xiangjun, Research Institute of Petroleum Exploration and Development, China
- 16:15-16:45** Title: **New approach for unconventional reservoirs rock typing characterization: Egyptian unconventional gas reservoirs**
Mohamed A Fathy, British University in Egypt, Egypt

Panel Discussion

Day 2 July 21, 2018

Pier One

Keynote Forum

- 09:30-10:15** Title: **Application of surface geochemical survey with aeromagnetic, subsurface geology and seismic data in exploration for conventional reservoirs**
Steven A Tedesco, Atoka Inc., USA

10:15-11:00 Title: **Groundwater quality and fracking: current understanding and science needs**
Daniel J Soeder, South Dakota School of Mines & Technology, USA

Networking and Refreshments Break: 11:00-11:15 @ Foyer

Session: Reservoir Engineering & Reservoir Simulation | Petrophysics & Petrochemistry | Major Challenges in Petroleum Industry
| Environmental Impacts in Petroleum Engineering | Petroleum Economics

Session Introduction

Session Chair: Steven Tedesco, Atoka Inc., USA

11:15-11:45 Title: **Experimental and theoretical evaluation of solid particle erosion in an internal flow passage within a drilling bit**

Jian Zhao, China University of Petroleum, China

11:45-12:15 Title: **The research of transformation of water-flooding development model in super-low permeability oil reservoirs**

Wu Zhongbao, Research Institute of Petroleum Exploration and Development, China

12:15-12:45 Title: **Experimental investigation of non-linear flows in artificial multi-scale frac-vuggy media**

Yang Yang, Research Institute of Petroleum Exploration and Development, China

12:45-13:15 Title: **Bontang LNG plant operational mode strategy to accommodate lean gas entrance**

Ferri Yohannes, PT Badak NGL, Indonesia

Lunch Break: 13:15-14:00 @ Four Element Restaurant –Level 1

14:00-14:30 Title: **Oil and gas offshore safety case (risk assessment)**

Tegwan Nyonga Hubert, Banthungnoi school, Thailand

14:30-15:00 Title: **Exploring and enhancing the recent trends and applications in the energy sector of Uganda: A legal perspective**

Nasser Drago, UPDF, Uganda

Panel Discussion

Awards & Closing Ceremony