



Society of Petroleum Engineers

SPE International Conference on Oilfield Chemistry

8–9 April 2019

Moody Gardens Hotel
and Convention Center,
Galveston, Texas, USA

go.spe.org/attend19OCC

Conference Preview



Registration Now Open!



Message from the Chair

Dear Colleagues,

Biennially, the Society of Petroleum Engineers brings together leaders from E&P, service companies, and academic institutes to share the latest developments and applications in oilfield chemistry.

Focused on new and emerging chemical technologies and the influence of oilfield fluid properties, this event will continue to be the ideal platform to share technical knowledge, expertise, dissemination, and transfer in the area of chemical applications for oil and gas operations from drilling to processing.

The committee looks forward to your attendance at the conference in April.

Sincerely,



Myles Jordan

Chairperson

Nalco Champion, An Ecolab Company

Pre-Conference Training Courses (as of 5 December 2018)

6-7 April | 0800-1700

Understanding Inorganic Scaling-Mechanisms, Control, and Management

Instructor: Gordon M. Graham

7 April | 0800-1700

Flow Assurance-Managing Flow Dynamics and Production Chemistry

Instructor: Abul Jamaluddin

Monday, 8 April

01 Drilling, Cementing, Completion Fluids, and Additives I

Along with presentations on nanotechnology innovations for drilling/completions, technical papers will also present new studies of chemical additives, such as innovative chemical materials with broad fields of use; rheology modifiers for drilling; fluid-loss additives for cementing; and clay stabilizers for completions. Integrated fluid-system approaches and case studies to improve those operations are also included in two technical sessions on drilling, cementing, and completions.

02 Separation and Asset Integrity

This session addresses the direct and indirect effects of production chemicals, and crude oil on the separation of water and asset integrity. Subjects such as novel chemistries and evaluation methodologies, that give the most up to date insight on both academic and industrial research and development, will be covered.

03 New or Frontier Chemical Technologies I

As field conditions become more extreme, or new chemistry challenges are encountered and understood, new solutions have to be found. This session explores some of the test methods, chemicals and technology solutions being developed to ensure that we provide fit for purpose treatment at the leading edge of the industry.

04 Drilling, Cementing, Completion Fluids, and Additives II

Along with presentations on nanotechnology innovations for drilling/completions, technical papers will also present new studies of chemical additives, such as innovative chemical materials with broad fields of use; rheology modifiers for drilling; fluid-loss additives for cementing; and clay stabilizers for completions. Integrated fluid-system approaches and case studies to improve those operations are also included in two technical sessions on drilling, cementing, and completions.

05 Geochemistry

This session highlights topics ranging from rock characterization and interaction with fluids, to new applications of water chemistry and oil fingerprinting. In addition, papers that describe reservoir changes from injected fluids including brine composition or scale inhibitor retention will be presented.

06 New or Frontier Chemical Technologies II

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Keynote Luncheon

Understand Kinetics and Polymorphic Changes in CaCO₃ Deposition in Single and Multi-Phase Flow Conditions

Instructor: Anne Neville, University of Leeds

This talk will review surface deposition work, conducted over the last few years in Leeds, which has enabled mechanisms and rates of surface deposition to be accessed. The integration of a suite of tests which include in-situ visualization, in-situ diffraction measurements, a new capillary cell, post-test spectroscopy, and diffraction measurements has been used to quantify how scale deposits and how it can be inhibited.

Tuesday, 9 April

07 Flow Assurance I

This session will focus on inhibitors, their novel chemistries and structures for the control of inorganic scales, asphaltene and paraffin deposits. The presentations will pertain to development of prediction models and laboratory studies that improve our understanding of these challenges along with monitoring and optimization of chemical programs under various field conditions.

08 Production Enhancement-Reservoir Recovery

Chemical Enhanced Oil Recovery (EOR) and other Improved Oil Recovery (IOR) techniques are increasingly being considered to maximize economic recovery. This session will cover topics on new chemistries for use under harsh conditions and where cost control is imperative. This session will also discuss the impact of Chemical EOR methods on conventional production chemistry issues, such as scaling. In addition, there will be a presentation on chemical treatments in intelligent completions.

09 Water Management: Chemical Treatment and Additives

Understanding and management of water, be it produced, injected, or for use in drilling and fracturing operations, is critical for our industry. This session reviews selection methods and application of chemical additives to solve problems associated with a range of challenges encountered, focusing particularly on scale and microbiology.

10 Flow Assurance II

This session will focus on inhibitors, their novel chemistries, and structures for the control of inorganic scales, asphaltene and paraffin deposits. The presentations will pertain to development of prediction models and laboratory studies that improve our understanding of these challenges along with monitoring and optimization of chemical programs under various field conditions.

11 Chemical Additives for Unconventional Reservoir Production

The complexity of shale oil and gas fields requires tailored chemical selection to maximize hydrocarbon production. This session encompasses advancements in screening methods and understanding of structure-property relationships, both essential in selecting best-in-class additives.

12 Production Enhancement-Stimulation

This session presents a diverse set of papers that address findings in both acid stimulation and hydraulic fracturing. Selected papers will include field cases and lab studies related to carbonate acidizing, acid diversion, flowback analysis, inhibitor squeeze operations, corrosion inhibitors, viscoelastic surfactants, paraffin wax removal, and hydrophobic associative polymer-based fracturing fluids.

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- **Enhance** your knowledge at this premier oilfield chemistry event
- Gain insights from **70+ paper presentations**
- Network with other **E&P industry professionals**

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Registration

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