

Chemistry in the Oil Industry XVIII Sustainable Chemistry: Towards Net Zero

6th – 8th November 2023

Whitworth Hall, University of Manchester, UK

PROGRAMME

The Symposium is a technical conference focussed on all parts of the oil and gas industry (upstream, midstream and downstream) where chemistry is the central theme. The industry faces key challenges with the shift towards clean energy. Industry expertise can, however, simultaneously reduce our own industry GHG emissions whilst accelerating deployment of renewable energy options. It is crucial to showcase how chemical technologies, developed within the oil and gas industry, can contribute to energy transition solutions whilst meeting safety and environmental standards.

The programme for oral presentations as well as poster presentations is featured below. This programme is correct at the time of writing and may be subject to change.

Monday 6th November 2023

16:00 – 18:00	Registration at Whitworth Hall, University of Manchester
19:00	Welcome Reception at Christie's Bistro, University of Manchester

Tuesday 7th November 2023

08:30 – 09:00	Registration & Refreshments
09:00	Welcome by CITOI XVIII Committee Chair Steve Jackson, Baker Hughes, UK
SESSION 1	ENVIRONMENTAL ISSUES Chair: Nik Robinson, EOSCA & NIKAM Consulting Andrew Shepherd, Shell Australia Pty
09:15 KEYNOTE	<i>Shifting Ecotoxicological Challenges when Moving from Conventional to Renewable Energies, Mathjis Smit, Shell Global Solutions, NL</i>
10:00	<i>A Global Approach to Chemical Regulations in the Oil and Gas Industry, Christina Sanders, Baker Hughes, UK</i>
10:30	Refreshments, Exhibition, Posters & Networking
SESSION 2	HYDRATES MANAGEMENT Chair: John Kennedy, MacDermid Offshore Solutions Tony Haslegrave, RSC & CITOI Committee Member
11:00	<i>Environmentally Acceptable Anti-Agglomerant Low Dosage Hydrate Inhibitors (AA-LDHIs) for Use in Ecologically Regulated Offshore, Jeremy Bartels, ChampionX, USA</i>
11:30	<i>Effect of Brine Composition on the Performance of Kinetic Hydrate Inhibitors, Morteza Aminnaji, ChampionX, UK</i>
12:00	POSTER PITCH PRESENTATIONS, Various Authors
12:30	Lunch, Exhibition, Posters & Networking

SESSION 3	FLUID SEPARATION & SCALE MANAGEMENT Chair: Myles Jordan, ChampionX Ross MacDonald, Spirit Energy
13:30	<i>Benchmarking oilfield demulsifiers by small volume robotic bottle test method, Per-Erik Hellberg, NOURYON, NL</i>
14:00	<i>Quantification of Effects of Production Chemical and Partitioning on OiW, Liridon Aliti, Technical University of Denmark, DK</i>
14:30	Refreshments, Exhibition, Posters & Networking
15:00	<i>Understanding the Chemistry of Carbonate Rock Formations During a Phosphonate Based Scale Inhibitor Squeeze, Gregor Sneddon, Heriot-Watt University, UK</i>
15:30	<i>Synergistic Treatment Fluid for Scale Control at High Temperatures, Rasoul Nazari Moghaddam, NOURYON, NL</i>
16:00	<i>Marine Growth & Scales on Subsea Equipment: Development & Use of Subsea Dissolvers, David Liddy, MacDermid Offshore Solutions, UK</i>
16:30 – 16:45	REVIEW OF DAY 1 – Continued Opportunity to Visit Exhibition, Posters & Networking
18:45	Cocktail Reception at Christie's Bistro, University of Manchester
20:00	Symposium Dinner at Whitworth Hall, University of Manchester

Wednesday 8th November 2023	
09:00	Welcome to Day 2 by CITOI XVIII Committee Chair Steve Jackson, Baker Hughes, UK
SESSION 4	WIDER PRODUCED WATER & FLUID ISSUES & OPPORTUNITIES Chair: Clare Temple-Heald, RSC & CITOI Committee Member Steve Jackson, Baker Hughes
09:15 KEYNOTE	<i>Upcoming Produced Water Treatment Challenges Related to CCS and Geothermal, Steven Tulloch, Shell Global Solutions, NL</i>
10:00	<i>Converting a Drilling Fluid into a Geopolymer Cement; an Eco-friendly Cement, Utilizing Saudi Arabian Volcanic Ash for a Sustainable Development: Method, Preparation and Applications, Khawlah Alangari, Saudi Aramco, KSA</i>
10:30	Refreshments, Exhibition, Posters & Networking
11:00	<i>York Life Extension: Production Chemistry threat management in the Southern North Sea, Emmanuel Ajayi, Spirit Energy, UK</i>
11:30	<i>Injectivity Aid Qualification for Seawater to Produced Water Reinjection Under Matrix Flow Application Conditions, Myles Jordan, ChampionX, UK</i>
12:00	Lunch, Exhibition, Posters & Networking
SESSION 5	WAX MANAGEMENT & FLOW ASSURANCE Chair: Jack Dunlop, JD Vistas Kevan Hatchman, Blagden Specialty Chemicals
13:00	<i>PPD/PI Dispersions as Means to Product Carbon Footprint (PCF) Reduction, Rainer Packe-Wirth, BASF, DE</i>
13:30	<i>Development of a new low freeze point, high activity, high flash-point paraffin inhibitor, Kasper Baack, ChampionX, UK</i>
14:00	Refreshments, Exhibition, Posters & Networking
14:15	<i>Using Sustainable Nanopolysaccharides as Well Treatment Additives, Pradyumna Deshpande, SLB, UK</i>
14:45	<i>Is Produced Water Discharge Harmful to the Environment? Kirit Wadhia, NOV, UK</i>
15:15	REVIEW OF DAY 2
15:30 – 15:45	SYMPOSIUM REVIEW & CLOSING REMARKS – Continued Opportunity to Visit Posters & Networking

DELEGATE PRICING

RSC / EOSCA members - £425 + VAT per person

Non-members - £500 + VAT per person

Academics / Students - £200 + VAT per person

(UK VAT is charged at 20% and will be added to all UK and non-UK conference delegate invoices due to UK VAT "place of supply" rules)

This International Symposium is organised by the Royal Society of Chemistry Speciality Chemicals Interest Group and the European Oilfield Speciality Chemicals Association

For more details please contact the CITOI Conference Secretariat

E: tricia.francis@rscspecialitychemicals.org.uk M: +44(0)7966 560644