

Programme DHRTC Technology Conference 2018

Crown Plaza Hotel Copenhagen

Monday 12 November

Time	Activity
7.30 -	Registration
8.00 - 8.30	Coffee
8.30 - 9.45	<p>Welcome Morten Jeppesen, Acting Director, DHRTC Rasmus Larsen, Provost, DTU</p> <p><i>"The Danish Energy Agency's focus for the future oil and gas production in the North Sea"</i> Trine Sannem Mønsted, Head of Division, DEA</p> <p>Introduction to Research Appetiser Morten Jeppesen, Acting Director, DHRTC</p>
9.45 - 10.30	<p>Meet the Programmes</p> <p>Break-out session with coffee and quiz</p>
10.30 - 12.00	Technical presentations (2 parallel sessions)
<p>Ekofisk and Tor Fm Recovery Improvement (Everest 2)</p> <p>Chairs: Charlotte Lind Laurentzius, Programme Manager, DHRTC Hans Horikx, Advisor, DHRTC</p> <p>"Outcrop analog studies of chalk - integration of geology and geophysics into geostatistical chalk models" Lars Stemmerik, Professor, Natural History Museum, Copenhagen University Klaus Mosegaard, Professor, Niels Bohr Institute, Copenhagen University</p> <p>"Petroleum chemistry - the significance of the molecular details for recovery" Karen Feilberg, Senior Researcher, DHRTC</p>	<p>Structural Integrity and Pipeline Technology (Everest 1)</p> <p>Chairs: Rune Brincker, Professor, DTU Civil Engineering Henning Hartmann, Programme Manager, DHRTC</p> <p>"Possibilities and results in structural monitoring" Rune Brincker, Professor, DTU Civil Engineering</p> <p>"Progress in fully nonlinear wave-structure interaction" Jacob Bjarke Hansen Hicks, PhD, DTU Mechanical Engineering</p> <p>"Utilization of Value of Information Theory for Structural Integrity Management Planning" Arifian Agusta Irman, PhD, DTU Civil Engineering</p>

<p>"Fracture modelling static and dynamic" <i>Michael Welch and Hamid Nick, Senior Researchers, DHRTC</i></p>	
12.00 - 13.00	Lunch
13.00 - 13.30	<p>Radical Innovation <i>Radical Innovation Team</i></p>
13.30 - 13.45	Introduction to Challenge Café and posters
13.45 - 15.15	Poster session and Challenge Café (1st round)
15.15 - 15.30	Break
15.30 - 17.00	Technical Presentations (2 parallel sessions)
<p>Lower Cretaceous - Tight Reservoir Development (Everest 2)</p> <p>Chairs: <i>Ulla Hoffmann, Programme Manager, DHRTC</i> <i>Birgitte D. Larsen, Geoscientist Advisor, DHRTC</i> <i>Charlotte Lassen, Reservoir Engineer Advisor, DHRTC</i></p> <p>"Tectonic and sedimentological control on reservoir properties of the lower Cretaceous in the Danish Central Graben" <i>Ole Rønø Clausen, Associate professor, Aarhus University, Geoscience</i> <i>Kresten Anderskov, Associate professor, Copenhagen University, Department of Geosciences and Natural Resource</i> <i>Jon Ineson, Senior Researcher, GEUS</i> <i>Stéphane Bodin, Associate Professor, Aarhus University</i></p> <p>"What we know (and want to know) about the Lower Cretaceous carbonate reservoir with respect to petrophysics and rockmechanics" <i>Ida Fabricius, Professor</i> <i>Einar Maden Storebø, PhD student, DTU Civil Engineering</i> <i>Helle Foged Christensen, Geomechanics specialist, GEO</i></p>	<p>Enhanced Well Chemistry and Integrity (Everest 1)</p> <p>Chairs: <i>Kitt Ravnkilde, Programme Manager, DHRTC</i> <i>Simon Andersen, Advirsor, DHRTC</i></p> <p>"Reservoir souring treatment in the Halfdan oilfield: laboratory experiments and modelling analyses" <i>Moein Jahanbani, PhD, DHRTC</i> <i>Angeliki Marietou, PostDoc, Aarhus University</i> <i>Hamid Nick, Senior Researcher, DHRTC</i></p> <p>"Modelling and experimental studies of scale formation at well conditions" <i>Karen Feilberg, Senior Researcher, DHRTC</i></p> <p>"Corrosion research leading to enhanced well chemistry and integrity" <i>Magdalena Rogowska, Project Manager, DTU Mechanical Engineering</i></p>

<p>"Better recovery from Valdemar: Fluid Behavior and Gas Injection"</p> <p><i>Wei Yan, Associate professor, DTU Chemistry</i></p> <p><i>Alexander Shapiro, Associate professor, DTU Chemical Engineering</i></p>	
17.00 - 18.30	Poster session and Challenge Café (2nd round) with beer and snacks
18.30 -	More networking and pre-dinner snacks
19.30 -	Dinner

Tuesday 13 November

Time	Activity
8.00 - 8.30	Coffee and registration
8.30 - 10.00	Technical Presentations (2 parallel sessions)
<p>Well and Production Technology</p> <p>Chairs:</p> <p><i>Anders Bak-Jensen, Programme Manager, DHRTC</i></p> <p><i>Jens Vinge Nygaard, Associate Professor, Aarhus University</i></p> <p>"Stability Analysis of Radial Jet Drilling wellbores"</p> <p><i>Maiya Medetbekova, PhD, DHRTC</i></p> <p>"Coupled Thermo-Hydro-Mechanical-Modelling with Radial Jet Drilling"</p> <p><i>Hamid Nick, Senior Researcher, DHRTC</i></p> <p>"Improved Cement Material"</p> <p><i>Ieva Paegle, PostDoc, DTU Civil Engineering</i></p>	<p>Operations and Maintenance Technology</p> <p>Chairs:</p> <p><i>Thomas Martini Jørgensen, Senior Researcher, DTU Compute</i></p> <p><i>Erik Bek-Pedersen, Programme Manager, DHRTC</i></p> <p>"Systematic rationalization and development of maintenance activities"</p> <p><i>Niels Henrik Mortensen, Research Manager, DTU Mechanical Engineering</i></p> <p>"Functional modelling for supervisory control in oil and gas production: Recent progress"</p> <p><i>Morten Lind, Professor Emeritus, DTU Electrical Engineering</i></p> <p>"Advanced Monitoring and Control for Topside Water Treatment Processes: AAU's latest results"</p> <p><i>Professor Zhenyu Yang, Aalborg University, Department of Energy Technology</i></p>
10.00 - 10.15	Break
10.15 - 12.00	Theme based technical presentations (2 parallel sessions)

<p>Everest 1:</p> <p>Modified Seawater Injection</p> <p>"Introduction & examples of existing modified seawater injection projects" <i>Hans Horikx, Advisor, DHRTC</i></p> <p>"Impact of water composition on oil recovery" <i>Arnaud Lager, EOR Advisor, TOTAL</i></p> <p>"Modified seawater and Compaction drive" <i>Ida Lykke Fabricius, Professor, DTU</i></p> <p>" Microbial reduction of sulfate from injected seawater to sulfide" <i>Hans Røy, Assoc. prof., Aarhus University</i></p> <p>"Consequences of modified seawater on scaling and corrosion" <i>Simon Ivar Andersen, Advisor, DHRTC</i></p> <p>Novel Measurements & Monitoring <i>Chair: Simon Ivar Andersen, Advisor, DHRTC</i></p> <p>"Application of Microfluids in Oil Recovery investigations" <i>Murat Nulati Yesibolati, Postdoc, and Kristian Mølhave, Assoc. prof., DTU Nanotech</i></p> <p>"Optical sensing of pH in oil well cement" <i>Søren Døllerup Nielsen, PhD student, Kasper Urup Kjeldsen, Assoc. prof., Hans Røy, Assoc. prof., Klaus Koren, Assist. prof., Aarhus University</i></p> <p>"Surface properties of reservoir material from nanometer perspective" <i>Tue Hassenkam and Nico Bovet, Assoc. profs., Copenhagen University</i></p> <p>"Fast screening Method for Chemical Functionality of Crude Oils" <i>Dmytro Mihin, PhD student, DHRTC</i></p>	<p>Everest 2:</p> <p>Microbiology</p> <p>"Introduction" <i>Hans Røy, assoc. professor, Aarhus University</i></p> <p>"Self-healing cement" <i>Søren D. Nielsen, PhD student, Aarhus University</i></p> <p>"Fungus: Geomechanical properties" <i>Helle Foged Christiansen, Chief Engineer, Project Director, GEO</i></p> <p>"Microbiology souring" <i>Mette Hedegaard Thomsen, Assoc. professor, Aalborg University</i></p> <p>"Conclusions" <i>Hans Røy, Assoc. professor, Aarhus University</i></p> <p>Value of information in risk informed decision making</p> <p>"Value of Information in risk informed integrity management of offshore well and load bearing systems" <i>Jianjun Qin, Assistant Prof., Aalborg University, Yue Guan, PhD student, Aalborg University, Akinyemi Olygbenga Akinsanya, PhD student, Aalborg University and Kashif Ali, PhD student, Aalborg University</i></p> <p>"The DEMO project for Structural Integrity and Pipeline Technology" <i>Henning Brüske, Postdoc, Aalborg University</i></p>
12.00 - 13.15	Lunch and coffee
13.15 - 13.45	"Towards responsible energy, an introduction to Total R&D"

	<i>Mr Pierre Esquier, R&D New Ventures Manager, TOTAL</i>
13.45 - 14.15	"Industrial application of DHRTC research - A case story" <i>Bjarne André Asheim, Managing Director, Eldor</i>
14.15 - 14.30	Reward the poster winners
14.30 - 15.00	Thank you for a great time Mobile evaluation