



Centre for Oil and Gas – DTU
The Danish Hydrocarbon Research Technology Centre

DHRTC YOUNG
RESEARCHERS

2021

SCHEDULE

Friday, 7 May 2021

- 8:45 – 9:00** Zoom in the event with virtual coffee
- 9:00 – 9:15** Welcome speech (Morten Willaing Jeppesen, DHRTC Director)
- 9:15 – 10:00** Elevator pitches (Round 1)
- 10:00 – 10:45** Discussion tables (Round 1)
- 10:45 – 11:30** Elevator pitches (Round 2)
- 11:30 – 12:15** Discussion tables (Round 2)
- 12:15 – 12:30** Break
- 12:30 – 13:10** Game
- 13:10 – 13:40** Best poster award and closing of scientific session

Young Researchers Day 2021



ELEVATOR PITCH (Round 1, 9:15-10:00)

The participants will be allowed 2 minutes per pitch

9:15	[1] Natural fractures in a Lower Cretaceous chalk-marl reservoir (the Valdemar Field, Danish North Sea) <i>Aslaug Glad</i>
	[2] Machine learning approach to challenges in the Valdemar and Adda area <i>Mads Lorentzen</i>
	[3] Bayesian pre-stack seismic inversion of the Lower Cretaceous for litho-fluid classification <i>Kenneth Bredesen</i>
	[4] Forward stratigraphic modelling of the Tuxen and Sola formations <i>Florian Smit</i>
	[5] Fracture characterization and modeling in chalk <i>Tala Maria Aabø</i>
	[6] Kinetics of scaling formation <i>Isaac Appelquist</i>
	[7] Actual and Perceived Rate Constants in Flow-Chemistry <i>Jakob Roar Bentzon</i>
	[8] Probabilistic Modelling of the Performances of the Sub-surface Wells <i>Yue Guan</i>
	[9] Modelling of Biofilm Growth in Porous Media, a Pore-Scale Approach <i>Mohammad Reza Alizadeh Kiapi</i>
	[10] The combined effect of reservoir souring and barite precipitation during waterflooding oil and gas reservoirs <i>Ali Mahmoodi</i>
	[11] Temperature effect on the calcite surface reactions in aqueous environments <i>María Bonto</i>
	[12] Role of relative permeability hysteresis under modified salinity water flooding <i>Seyedbehzad Hosseinzadeh</i>
	[13] Porescale insights into the modified-salinity waterflooding in carbonates <i>Mohsen Farhadzadeh</i>
	[14] Estimating two-phase reactive flow model parameters from single- and two-phase modified-salinity core flooding data <i>Helton Magno Ciriaco</i>
	[15] Water-Rock Interactions During Low-Salinity Water-Flooding of Northern-Sea Chalks <i>Pedro Rendel</i>
	[16] Fibre reinforced cement sheaths for zonal isolation in oil wells <i>Pablo Alberdi-Pagola</i>

[17] Damage detection in offshore structures*Emmanouil Lydakis***[18] Damage localization using Scenario Based Damage Assessment (SBDA)***Jonas Abildgaard, Adam Jacobsen***[19] Extended Reach Interventions***Johannes Liljenherte, Sindhu Vudayagiri***[20] Value of Information in Risk Informed Asset Integrity Management***KASHIF ALI***Discussion session** (round 1, 10:00-10:45)

The participants will be allowed 4 minutes for presenting and 4 minutes for Q/A

Room 1 (1-5)	Room 2 (6-10)	Room 3 (11-15)	Room 4 (16-20)
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ELEVATOR PITCH (Round 2, 11:15-12:00)

The participants will be allowed 2 minutes per pitch

10:45	[21] Feasibility of oxidation of produced water as pre-treatment for eco-toxicity removal <i>Ana Rita Ferreira</i>
	[22] Developing Polymer Gels for Sealing Abandoned Oil Wells <i>Sumant Dwivedi</i>
	[23] Clean Biocides <i>Jakob Stein</i>
	[24] Origin and types of bitumen within the Lower Cretaceous reservoirs in the Valdemar area, Danish North Sea <i>Arka Rudra</i>
	[25] Zero Discharge of H₂S Scavenging Chemicals <i>Nikos Montesantos</i>
	[26] CO₂ Corrosion Product Augmentation <i>Dlshad Shaikhah</i>
	[27] Experimental and molecular modelling study of corrosion inhibition capability of green extracts for 1Cr steel used for oil & gas industry <i>Shivangi Gupta</i>

[28] Corrosion of L80-1Cr with ferritic-pearlitic microstructure: Initiation and growth under CO2 conditions*Kapil Kumar Gupta***[29] Nonlinear performance and damage detection of structural systems***Luigi Caglio***[30] Operational Modal Analysis on structural systems based on short time histories***Johannes Schou, Dimitrios Anagnostopoulos***[31] A midsurface extraction workflow for fluid flow modelling from CT-images of fractured core samples***Carlos Augusto Soares Ferreira***[32] Locally view the molecules at interface***Ming Li***[33] FLEXT: A Flexible Scripting X-ray Computed Tomography System For Multiscale and Dynamic Imaging***Armin Afrough***[34] Improved dynamic imaging of multiphase flow by constrained tomographic reconstruction***Peter Winkel Rasmussen***[35] compaction parameter identification using a genetic algorithm***Mohammad Reza Hajiabadi***[36] Real-world rogue wave probabilities***Dion Häfner***[37] Detection of Breaking Waves***Thomas Kabel***[38] Optimizing maintenance scheduling***Waqas Khalid***[39] Numerical modelling of water waves using a single phase approach***Jesper Roland Kjærgaard Qvist***[40] Damage detection - vibration analysis***Doris Popovic***Discussion session** (round 2, 11:30-12:15)

The participants will be allowed 4 minutes for presenting and 4 minutes for Q/A

Room 1 (21-25)	Room 2 (26-30)	Room 3 (31-35)	Room 4 (36-40)
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