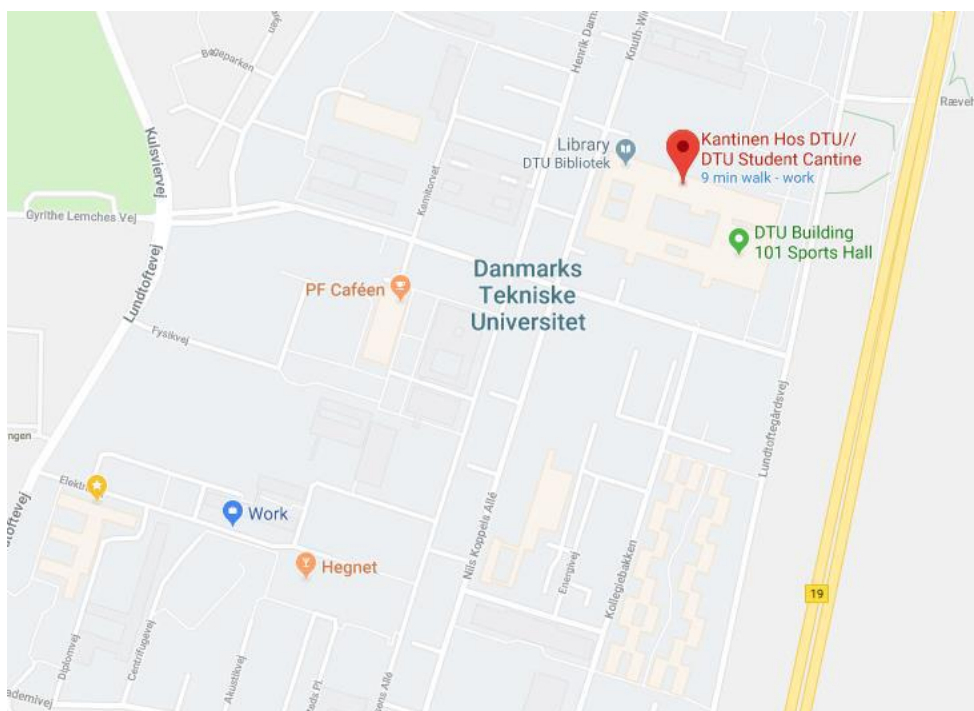


Young Researcher's Day 2019

Dear Participants,

Below you will find practical information for DHRTC Young Researcher's Day. The morning session will begin in DTU Building 101 "Glassalen", which is situated in the canteen area. The registration desk will be open from 9.30 am. There you will receive nametags and will be pointed to where you can attach your poster, if you have one.

The evening part of the event will be held in DHRTC building 375 (Elektrovej 375). Map is attached below. Evening part is for young researchers only, if they have registered for the dinner. We will move there after the poster and discussion sessions are done.



"Glassalen" is situated in the North-East quadrant (marked red). B. 375 is in South-West quadrant (star sign).

Schedule of the event

Friday, 24 May 2019

9:00 – 10:00	Registration with coffee, tea and light breakfast
10:00 – 10:15	Welcome speech Morten Willaing Jeppesen DHRTC Director
10:15 – 11:15	Elevator pitches (round 1)
11:15 – 12:15	Posters (round 1)
12:15 – 13:00	Lunch
13:00 – 14:00	Elevator pitches (round 2)
14:00 – 15:00	Posters (round 2)
15:00 – 15:30	Best poster award and closing of scientific session
15:30 – 15:45	Meet and walk together to 375
15:45 – 17:30	Team building – games and activities (Only DHRTC sponsored young researchers: MSc Students, Research Assistants, PhD students and Post Docs)
17:30 -	Dinner, drinks and socializing (Only DHRTC sponsored young researchers: MSc Students, Research Assistants, PhD students and Post Docs)

3-minute elevator pitch presentations

-
- 10:15 [1] **Risk informed asset integrity management of sub-surface well**
Akinyemi Akinsanya
-
- [2] **Vol for Risk informed asset integrity management**
Kashif Ali
-
- [4] **Offshore load environment modeling**
Sebastian Glavind
-
- [5] **A first step in quantifying the value of OMA based fatigue stress estimation**
Henning Brüske
-
- [6] **Wave loading**
Michael Vigsø
-
- [8] **Getting high - The tectonic origin of the Valdemar Oil Field**
Torsten Hundebøl Hansen
-
- [10] **Machine learning for image processing and pattern recognition for seismic inversion**
Iris Fernandes
-
- [11] **Integrated stratigraphy of Lower Cretaceous tight reservoirs**
Toms Buls
-
- [12] **Physics and Deep Learning - Incorporating prior knowledge in deep neural networks**
Jesper Sören Dramsch
-
- [13] **Hydro-mechanical effects on the stability of RJD wells and production rate**
Mohammad Reza Hajjabadi
-
- [14] **Investigation of corrosion inhibition mechanisms specific to localized corrosion in Sweet and Sour conditions**
Shivangi Gupta
-
- [15] **Fatigue Life Extension based on Stress Estimation using OMA**
Bruna Nabuco
-
- [16] **Dynamics and kinematics of extreme non-breaking and breaking irregular waves**
Mathias Klahn
-

[17] **Detailed analyses of breaking waves and their interaction with offshore structures in intermediate depth**

Jesper Qwist

[18] **On-line monitoring of operation procedures**

Denis Kirchhübel

[19] **Chalk mineralogy and texture**

Stefanie Lode

[20] **Uncertainty-based causal analysis of process systems**

Emil Krabbe Nielsen

[21] **Generation of Qualitative Process Models**

Christopher Reinartz

[22] **Autoencoder Based Fault Detection of Multivariable Processes**

Ásgeir Daniel Hallgrímsson

[23] **Nonlinearity Optimized Random Decrement**

Karsten Krautwald Vesterholm

[24] **Calcite Particles and Emulsions in EOR**

Muhammad Waseem Arshad

[25] **Application of deep learning on GPR image**

Dongfang Qu

[26] **Damage modeling in aggressive environments**

Philip Kristensen

[27] **Effect of non-stationary and oscillatory masses in operational modal analysis**

Lasse Thunbo

Poster exhibition 11:15 – 12:15

[1] **Risk informed asset integrity management of sub-surface well**
Akinyemi Akinsanya, Jianjun Qin, John D. Sørensen, Michael H. Faber

[2] **Vol for Risk informed asset integrity management**
Kashif Ali, Jianjun Qin, John D. Sørensen, Michael H. Faber

[3] **Probabilistic Modelling for the Performance of Sub-surface Wells**
Yue Guan

[4] **Offshore load environment modeling**
Sebastian Glavind

[5] **A first step in quantifying the value of OMA based fatigue stress estimation**
Henning Brüske, Bruna Nabuco

[6] **Wave loading**
Michael Vigsø, Rune Brincker, Christos Georgakis

[7] **Stress estimation**
Marius Tarpø, Christos Georgakis and Rune Brincker

[8] **Getting high - The tectonic origin of the Valdemar Oil Field**
Torsten Hundebøl Hansen

[9] **Improved refinement of seismic-scale heterogeneities within the Tuxen Formation at Valdemar with seismic color processing**
Florian Smit, Lars Stemmerik

[10] **Machine learning for image processing and pattern recognition for seismic inversion**
Iris Fernandes, Klaus Mosegaard, Valisy Demyanov

[11] **Integrated stratigraphy of Lower Cretaceous tight reservoirs**
Toms Buls, Toms Buls, Kresten Anderskov, Nicolas Thibault

[12] **Physics and Deep Learning - Incorporating prior knowledge in deep neural networks**
Jesper Sören Dramsch, Anders Nymark Christensen, Mikael Lühje

[13] **Hydro-mechanical effects on the stability of RJD wells and production rate**
Mohammad Reza Hajiabadi, Hamid Nick

[14] **Investigation of corrosion inhibition mechanisms specific to localized corrosion in Sweet conditions**

Shivangi Gupta, Magdalena Rogowska, Rajan Ambat

[15] **Fatigue Life Extension based on Stress Estimation using OMA**

Bruna Nabuco

[16] **Dynamics and kinematics of extreme non-breaking and breaking irregular waves**

Mathias Klahn

[17] **Detailed analyses of breaking waves and their interaction with offshore structures in intermediate depth**

Jesper Qvist

[18] **On-line monitoring of operation procedures**

Denis Kirchhübel, Morten Lind, Ole Ravn

[19] **Chalk mineralogy and texture**

Stefanie Lode, Bodil Wesenberg Lauridsen, Peter Frykman

[20] **Uncertainty-based causal analysis of process systems**

Emil Krabbe Nielsen, Gürkan Sin, Xinxin Zhang, Ole Ravn, Morten Lind

[21] **Generation of Qualitative Process Models**

Christopher Reinartz, Denis Kirchhübel

[22] **Autoencoder Based Fault Detection of Multivariable Processes**

Ásgeir Daniel Hallgrímsson, Hans Henrik Niemann, Morten Lind

[23] **Nonlinearity Optimized Random Decrement**

Karsten Krautwald Vesterholm, Tobias Friis

[24] **Calcite Particles and Emulsions in EOR**

Muhammad Waseem Arshad, Alexander Shapiro, Karen Louise Feilberg, Kaj Thomsen

[25] **Application of deep learning on GPR image**

Dongfang Qu

[26] **Damage modeling in aggressive environments**

Philip Kristensen

[27] **Effect of non-stationary and oscillatory masses in operational modal analysis**

Lasse Thunbo, Niklas Ørum-Nielsen

3-minute elevator pitch presentations

13:00	[29] Organic Matter Characterization from Lower Cretaceous tight sediments, Danish North Sea Arka Rudra
	[31] Phase behaviour of n-alkanes in tight Lower Cretaceous formation Teresa Regueira
	[32] Microfluidic study of the movement of oil droplets in thin capillaries Tian Wang
	[33] Robust Liquid-Repelling Coatings for Enhanced Oil Flow and Reduced Biofouling, Scaling, and Corrosion within Wells Thaddeus Golbek
	[34] Compacted EOR from chalk reservoirs Ernis Proestakis
	[36] Multi-level Flow Modelling of Offshore Water Injection Process Sharat Kumar Pathi
	[37] A Mixed-Dimensional and -FunctionSpace Model for Flow in Fractured Porous Media Teeratom Kadeethum
	[38] Quality controlled PVT data from Lower Cretaceous chalk fields Hadise Baghooee
	[39] Modelling the effect of time dependent wettability modification in modified salinity water flooding Mirhossein Taheriotaghsara
	[40] Reactive transport modeling in carbonate reservoirs and assessment of the adsorption of oil polar components on the rock surface Maria Bonto
	[41] First step towards an uncertainty analysis of reservoir compaction. Frederic Amour
	[42] Pore-scale simulation of modified salinity water flooding Mohsen Farhadzadeh
	[44] Acids in Dan oil Ming Li

[45] **Non-isothermal simulation of reservoir souring**
Moein Jahanbani Veshareh, Hamid Nick

[46] **Stratigraphic modelling of the Tuxen and Sola Formations in the Danish Central Graben**
Samer Bou Daher

[47] **Identity of nitrate- and sulfate-reducing microorganisms in produced water from oil reservoirs**
Nina Andersen

[48] **Interactions of the Microbial Sulfur and Nitrogen Cycle in Sea Water injected oil reservoirs**
Louise Vinther Grøn

[50] **Miniaturized Core Flooding Experiments results**
Samira Mohammadkhani

[51] **Study of the Radial Jetting Effect on the Geomechanics of Chalk**
Maiya K. Medetbekova

[52] **Anammox in water fed oil wells**
Martin Ravnsbæk Jørgensen

[53] **Tomographic Imaging of Flow in Porous Media**
Peter Winkel Rasmussen

Poster exhibition 14:00 – 15:00

[28] **Investigation of barite kinetics using a new visual cell and 3D printing**
Hamid Rafiee

[29] **Organic Matter Characterization from Lower Cretaceous tight sediments, Danish North Sea**

Arka Rudra, Hamed Sanei, Hans Peter Nytoft, Carlette Blok, Stéphane Bodin, Jørgen A. Bojesen-Koefoed

[30] **Molecular Association Mechanisms of Petroleum and EOR Processes**

Dmytro Mihrin, Karen Feilberg, René Wugt Larsen

[31] **Phase behaviour of n-alkanes in tight Lower Cretaceous formation**

Teresa Regueira, Diego R. Sandoval, Erling H. Stenby, Wei Yan

[32] **Microfluidic study of the movement of oil droplets in thin capillaries**

Tian Wang, Simon Ivar Andersen, Alexander Shapiro

[33] **Robust Liquid-Repelling Coatings for Enhanced Oil Flow and Reduced Biofouling, Scaling, and Corrosion within Wells**

Thaddeus Golbek

[34] **Compacted EOR from chalk reservoirs**

Ermis Proestakis

[35] **Iron Carbonate solubility**

Diana Carolina Figueroa Murcia

[36] **Multi-level Flow Modelling of Offshore Water Injection Process**

Sharat Kumar Pathi, X. Zhang, J. Wu, L. Li, S. Berge, M. Lind, E. Bek-Pedersen, B.A. Asheim

[37] **A Mixed-Dimensional and -FunctionSpace Model for Flow in Fractured Porous Media**

Teeratorn Kadeethum, H. M. Nick, S. Salimzadeh, C. N. Richardson, F. Ballarin, S. Lee

[38] **Quality controlled PVT data from Lower Cretaceous chalk fields**

Hadise Baghooee, Charlotte Lassen, François Montel, Wei Yan, Alexander Shapiro

[39] **Modelling the effect of time dependent wettability modification in modified salinity water flooding**

Mirhossein Taheriotaghsara, Maria Bonto, Hamid Nick, Ali A. Eftekhari

[40] **Reactive transport modeling in carbonate reservoirs and assessment of the adsorption of oil polar components on the rock surface**

Maria Bonto, Ali Akbar Eftekhari, Hamid Nick

[41] **Effects of porosity and water saturation on the failure envelop of chalk.**

Frederic Amour, Hamid Nick and Mohammad Reza Hajiabadi

[42] **Pore-scale simulation of modified salinity water flooding**

Mohsen Farhadzadeh, Maria Bonto, Ali A. Eftekhari, Hamid Nick

[43] **Modelling permeability and capillary pressure curves for Lower Cretaceous marly chalks**

Einar Madsen Storebø, Ida L. Fabricius

[44] **Acids in Dan oil**

Ming Li, Jonas Folke Sundberg, Karen Louise Feilberg

[45] **Non-isothermal simulation of reservoir souring**

Moein Jahanbani Veshareh, Hamid Nick

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[48] **Interactions of the Microbial Sulfur and Nitrogen Cycle in Sea Water injected oil reservoirs**

Louise Vinther Grøn, Angeliki Marietou, Kasper Urup Kjeldsen & Hans Røy

[49] **Mathematical modelling of DME-enhanced water flooding in chalk reservoirs**

Ali Eftekhari

[50] **Miniaturized Core Flooding Experiments results**

Samira Mohammadkhani, Jonas Folke Sundberg, Karen Louise Feilberg

[51] **An integrated workflow for advanced wellbore stability using geomechanics testing and numerical modelling**

Maiya K. Medetbekova, Bertold Plischke, Helle Foged Christensen, Saeed Salimzadeh, Hamid Nick

[52] **Anammox in water fed oil wells**

Martin Ravnsbæk Jørgensen, Hans Røy, Kasper Urup Kjeldsen and Angeliki Marietou

[53] **Tomographic Imaging of Flow in Porous Media**

Peter Winkel Rasmussen

Detailed plan map of "Glassalen"

