

DHRTC-DTU Summer School 2021 - 1st week (CO2 storage in subsurface)

Time	Monday 16-Aug	Tuesday 17-Aug	Wednesday 18-Aug	Thursday 19-Aug	Friday 20-Aug
8:45-9:00	Introduction of the summer school		9:00 Leave DTU B375		
9:00-10:20	International context & workflow Peter van den Bogert	Containment - Peter van den Bogert	Demonstration of CO2 capture technology - Philip L. Fosbøl (Field trip ARC)	Induced seismicity - Peter van den Bogert	Pore-scale processes and implications for secure CO2 storage - Martin Blunt
10:20-10:40	Break	Break		Break	Break
10:40-12:00	Introduction to CCUS - Vural Sander Suicmez	Concept of Miscible Flooding - Vural Sander Suicmez		Summary of DETECT project - Florian Doster	Reactive Transport Modelling – application to CCUS - Tim Tambach
12:00-14:00	Lunch	Lunch	Visit gas storage site (Stenlille)	Lunch	Lunch
14:00-15:20	An Introduction to Phase Behaviour - Vural Sander Suicmez	Challenges and Opportunities of CCUS - Vural Sander Suicmez	presentation of reservoir geology and core material (Geus)	Summary of DETECT project - Florian Doster	CCUS in Fractured Reservoirs - Practical Experience of CCUS - Vural Sander Suicmez
15:20-15:40	Break	Break		Break	Break
15:40-17:00	Site selection; source capacity, injectivity and integrated risk assessment - Peter van den	Northern light project and the CO2 value chain - Forde Nebell	17:00 return to DTU	Seismological monitoring of subsurface storage facilities: why and how - Tine B. Larsen	Field-scale fault reactivation experiments by fluid injection - Yves Guglielmi

DHRTC-DTU Summer School 2021 - 2nd week (Produced water management)

Time	Monday 23-Aug	Tuesday 24-Aug	Wednesday (18-Aug) 25-Aug	Thursday 26-Aug	Friday 27-Aug
8:45-9:00	Introduction of the summer school				
9:00-10:20	Source of Produced Water/regulation - S. Andersen	TBA - Gisle Øye	PW Reinjection (PWRI) 1 - Wolfram Kleinitz	PW Reinjection (PWRI) 5 - Wolfram Kleinitz	Environmental Impact - Lars Skjolding
10:20-10:40	Break	Break	Break	Break	Break
10:40-12:00	Basic Colloidal chemistry needed for PW management - Simon Andersen	Monitoring OiW - Simon Andersen	PW Reinjection (PWRI) 2 - Wolfram Kleinitz	PW Reinjection (PWRI) 6 - Wolfram Kleinitz	Intorduction to toxicity testing - Lars Skjolding
12:00-14:00	Lunch	Lunch	Lunch	Lunch	Lunch
14:00-15:20	Emulsions OiW and WiO - Gisle Øye	TBA - Gisle Øye	PW Reinjection (PWRI) 3 - Wolfram Kleinitz	PW Reinjection (PWRI)7 - Wolfram Kleinitz	Produced Water Tox testing - Lars Skjolding
15:20-15:40	Break	Break	Break	Break	Break
15:40-17:00	Production Chemicals and impact on PW - Simon Andersen	Research topics in PW management	PW Reinjection (PWRI) 4 - Wolfram Kleinitz	PW Reinjection (PWRI) 8 - Wolfram Kleinitz	wrap up