PROGRAM

CSD Winter School
Myrkdalen
March 13.-17., 2023

Overview:

	Monday	Tuesday	Wednesday	Thursday	Friday
07:30-08:15		*Breakfast*	*Breakfast*	*Breakfast*	*Breakfast*
08:30-10:00		Mod. 1	Mod. 1	Mod. 1	Mod. 1
10:00-10:30	*Arrival*	*Break*	*Break*	*Break*	*Break* *Check out*
10:30-12:00	*Check in*	Mod.1	Mod.1	Mod.1	Mod.2,3
12:00-13:00	*Lunch*	*Lunch/*	*Lunch/*	*Lunch/*	*Lunch/*
13:00-15:00	Introductory Sessions	*Skiing/ Other*	*Skiing/ Other*	*Skiing/ Other*	*Departure*
15:30-16:30	Mod.1	Mod.1	Mod.1	Mod.1	
16:30-17:30	Mod.2,3	Mod.2,3/PP	Mod.3/PP	Mod.2	
17:30-18:30	Mod.2,3?	Mod.2,3/PP	Mod.3/PP	Mod.2	
19:00-21:00	*Dinner*	*Dinner*	*Dinner*	*Dinner*	
21:00-	Night talk/ Social activities	Night talk/ Social activities	Night talk/ Social activities	Night talk/ Social activities	

Module 1 = Scientific presentations
Module 2 = Political and ethical perspectives
Module 3 = Soft skills
PP   = Parallel session: Crash course in PorePy

DAY 1:	Monday	
-12:00	*Arrival and check in*	
12:00-13:00	*Lunch*	
13:30-14:00	Welcome and introduction to CSD Winter school	Professor Inga Berre Director CSD
14:00-15:00	Modeling, data, and simulation: Introduction and overview	Professor Hamdi Tchelepi Stanford University
15:00-15:30	*Break*	
15:30-16:30	TBD	Professor Maarten de Hoop Rice University
16:30-17:30	Introduction to Teamwork	Mathilde Sørensen, UiB
17:30-18:30	TBD Mod.2/Mod.3	Mathilde Sørensen, UiB
19:00-21:00	*Dinner*	
21:00-	Night talk/Social activities	

DAY 2:	Tuesday	
07:30-08:15	*Breakfast*	
08:30-10:00	Experiments, observations, modelling, and simulations	Professor Hamdi Tchelepi Stanford University
10:00-10:30	*Break*	
10:30-11:15	Data driven science vs. Model driven science	Professor Hamdi Tchelepi Stanford University
11:15-12:00	Coupled thermal, mechanical deformations, and flow in fractured medium: Applications to Geothermal energy.	Ivar Stefansson UiB
12:00-15:30	*Lunch/Skiing/Other*	
15:30-16:30	Monitoring of Induced Seismicity – some case studies	Volker Oye NORSAR
16:30-17:30	Work in Teams Parallel Session: PorePY[*]	
17:30-18:30	Work in Teams Parallel Session: PorePY[*]	
19:00-21:00	*Dinner*	

*Short Course in PorePY:
An Introduction to simulation of mixed-dimensional problems using PorePy

DAY 3:	Wednesday	
07:30-08:15	*Breakfast*	
08:30-10:00	FluidFlower: Modelling and experiments	Jan Nordbotten, UiB Martin Fernø, UiB
10:00-10:30	*Break*	
10:30-11:15	TBD	Lars Ottemöller, UiB
11:15-12:00	Experiments involving flow in fractured medium: Interface between modelling and experiments	Bergit Brattekås, UiB
12:00-15:30	*Lunch/Skiing/Other*	
15:30-16:30	Energy storage: Short introduction and interview	Professor Rainer Helmig University of Stuttgart
16:30-17:30	Teams work Parallel Session: PorePY[*]	Jan Nordbotten, UiB Kundan Kumar, UiB
17:30-18:30	Teams work Parallel Session: PorePY[*]	Jan Nordbotten, UiB Kundan Kumar, UiB
19:00-21:00	*Dinner*	
21:00-	Night talk/Social activities	

DAY 4:	Thursday	
07:30-08:15	*Breakfast*	
08:30-10:00	Induced Seismicity: modelling and computational challenges	Professor Hamdi Tchelepi Stanford University
10:00-10:30	*Break*	
10:30-11:15	CCS: Status and challanges	Sarah Gasda, NORCE
11:15-12:00	Iterative solvers: how to solve coupled PDEs with a link to applications.	Jakub Both, UiB
12:00-15:30	*Lunch/Skiing/Other*	
15.30-16:30	Building a career in science Interview	Professor Kenneth Ruud UiT/NDI
16:30-17:30	Teams work	Mathilde Sørensen, UiB Helge Dahle, UiB
17:30-18:30	Teams work	Mathilde Sørensen, UiB Helge Dahle, UiB
19:00-21:00	*Dinner*	
21:00-	Night talk/Social activities	

DAY 5:	Friday	
07:30-08:15	*Breakfast*	
08:30-09:30	Modeling, data, and simulation: Summary	Professor Hamdi Tchelepi Stanford University
09:30-10:00	*Break and check out*	
10:00-11:00	Presentation of Teamwork: Session 1	Teams
11:00-12:00	Presentation of Teamwork: Session 2	Teams
12:00-	*Lunch/Departure*	