

Image Analysis and Modelling of Laboratory Porous Media Flow

Place: [Haaheim Gård](#), Tysnesøy

Time: Dec 8-10, 2025

Program Day 1 (Dec 8, 2025)

09.45-12.00	Bus Transportation UiB – Haaheim (bus arrives 9.30 and departs 9.45 sharp!) Meeting place: High Technology Center UiB - Høyteknologisenter Ferry times: Halhjem – Våge: 10.45 – 11.20
12.00-13.00	<i>Lunch</i>
13.00-14.30	Kick-off TIME₄CO₂ Jakub Both, Jan Nordbotten, Martin Fernø + discussion in plenum
	-- <i>Coffee break (30 mins)</i> --
15.00-17.00	Dispersion and convective mixing Marco Dentz (IDAEA-CSIC) <i>Dynamics of Pore-scale Flow and Dispersion</i> Marco de Paoli (TU Vienna) <i>Multiscale analysis of convective mixing with dispersion: insights from experiments, simulations and modelling</i> Trine Mykkeltvedt (NORCE) <i>A Sub-grid Model for Convective Mixing Applied to the 11th SPE Comparative Solution Project</i>
18.00	<i>Dinner</i>

Program Day 2 (Dec 9, 2025)

	<i>Breakfast</i>
8.30 – 9.45	Understanding mixing and dissolution in physical system Holger Class (Stuttgart) <i>Understanding mixing and dissolution in physical systems</i> Jaquelin Cobos (UiB) <i>Mineral Dissolution on Geological Carbon Storage in Carbonates</i>
	-- <i>Coffee break (30 mins)</i> --
10.15-12.15	Mixing at the pore-scale Tanguy Le Borgne (Rennes) <i>Imaging and modelling pore-scale mixing and reaction</i> Gaute Linga (NTNU) <i>Enhanced mixing triggered by unsteady flow at the pore-scale</i> Na Liu (UiB) <i>Imaging Pore-Scale Interactions of Hydrogen, Microbes, and Minerals</i>
12.15-14.00	<i>Lunch and possibility for a walk</i>
14.00-15.30	Laboratory experiments of flow in porous media I Tom Bultreys (Ghent) <i>Pore-scale X-ray imaging and velocimetry of fluid flow and transport in rocks</i> Ketil Djurhuus (NORCE) <i>Influence of linear and non-linear flow in lab scale experiments</i>
	-- <i>Coffee Break (30 mins)</i> --
16.00-16.30	Laboratory experiments of flow in porous media II Geir Ermland (UiB) <i>MRI-Based Flow Visualization and Measurements in Porous Media</i>
16.30-17.15	Modeling of laboratory porous media flow I Erik Hanson (HVL) <i>Pharmacokinetic models in geoscience applications</i>
19.00	<i>Dinner</i>

Program Day 3 (Dec 10, 2025)

	<i>Breakfast</i>
8.30-10.30	Modeling of laboratory porous media flow II Adil Rasheed (NTNU) <i>Potential of Generative AI and Dynamic Mode Decomposition for real-time prediction of porous media flow</i> Trygve Tegnander (UiB) <i>A Solution Strategy for Heterogeneous Wasserstein Distances</i> David Landa (NORCE) <i>Insights from the OPM Flow Simulator: A Journey from FluidFlower to SPE11</i>
10.50 – 12.40	Take-away snack Bus transportation to High Technology Center UiB Ferry Våge – Halhjem 11.30-11.55
12.40-13.30	<i>Lunch at Parken (ViLVite)</i>
13.30-15.30	FluidFlower tour at Department of Physics and Technology (UiB)

Transportation to the venue

The workshop venue, Haaheim Gård, is located approximately 50 km from Bergen city center, on the island Tysnesøy. To make your journey as smooth as possible, we have arranged private bus transportation.

- *Departure to Haaheim Gård:* The bus will depart at 09:45 on December 8 from [Høyteknologisenter](#)
- *Return to Bergen:* On December 10, the bus will bring participants back to Bergen. The expected arrival time is 12:40.

If you prefer to arrange your own transportation, please be aware of the ferry schedule. The recommended route includes the Halhjem–Våge ferry, which departs at 10:45 on December 8. You can find the full schedule [here \(external link\)](#).

Important for air travelers: If you plan to arrive by plane on December 8, please ensure your flight schedule allows enough time to reach the ferry or join the bus at the University. A taxi ride from Bergen Airport to the Halhjem ferry terminal takes approximately 25 minutes. If you wish to join the bus at the ferry dock, please note that the ferry runs every 90 minutes, so careful planning is essential.