Winter School Programme

8–12 March 2027

Preliminary program: Schedule and Titles may be subject to changes.

Monday 8 March 2027

Time	Session	Speaker
14:00–14:15	Welcome and introductions	
14:15–15:30	Coupling Experiments and Modelling	Vahid Niasar
15:30–15:45	*Break*	
15:45–17:00	Darcy lecture: On Reactive transport	Bo Guo
17:00–17:30	Participant introductions / poster teasers	

Tuesday 9 March 2027

Time	Session	Speaker
08:45–10:00	Coupled multi physics in subsurface	Inga Berre
10:15–10:45	*Break*	
10:45–12:00	Scaling of lab results	Tony Kovscek
16:00–17:15	Science Modelling Philosophy	Roger Strand
17:15–18:30	Group Activity – AI-themed project work related to covered lecture topics	

Wednesday 10 March 2027

Time	Session	Speaker
09:00–10:15	Mathematical tools for upscaling	Sorin Pop
10:15–10:45	*Break*	
10:45–12:00	Subsurface Modelling – A lifetime story	Rainer Helmig
16:00–17:15	Mathematics and the LLMs – what will survive?	Maarten V. de Hoop
17:15–18:30	Group Activity continues	

Thursday 11 March 2027

Time	Session	Speaker
09:00–10:15	Challenges in Simulations of Multiphysics problems	Dominik Göddekke
10:15–10:45	*Break*	
10:45–12:00	Poster discussion	Panel discussion / student-led discussion
16:00–17:15	Polytopal methods for Multiphysics problems	Paola Antonietti (to be confirmed)
17:15–18:30	High-Performance Computing in Coupled Subsurface Problems	Miriam Schulte

Friday 12 March 2027

Time	Session	Speaker
09:00–10:15	Group Activity – Results and learnings	
10:15–10:45	*Break*	
10:45–12:00	From pore to field: what's missing? Panel and wrap-up	Panel discussion