CREWES Annual Meeting 2025 - Technical Program - Day 1
Dec 4 2025

Time	Session	Moderator	Title	Speaker
8:40AM	WELCOME		Opening remarks	*Kris Innanen*
9:00AM	ACQ-DAS-LAB	Kris Innanen	Baseline DAS VSP acquisition at the Meadowbrook Carbon Storage Hub	*Kevin Hall*
9:20AM			Transforming physical modelling datasets to make them suitable for time-lapse FWI	*Kevin Bertram*
9:40AM			Impact of sparse acquisition on time-lapse imaging of gas injection: a physical modeling case study	*Christina Schumacher*
10:00AM			COFFEE (10:00AM - 10:50AM)	
10:50AM			Measuring and simulating the directional response of the Croissant multicomponent DAS sensor	*Carla Acosta*
11:10AM			Update on CO_2 storage monitoring at the Newell County Field Research Station	*Marie Macquet*
11:30AM	CO2-NM-INT	Don Lawton	Modelling crustal fluid flow in seamount-influenced hydrothermal systems	*Robert Perrin*
12:00PM			LUNCH (11:50AM - 1:30PM)	
1:30PM			Prediction of Elastic Logs from the limited information available from LWD (logging while drilling) information	*David Emery*
1:50PM			Geophysical Ising solvers	*Anton Ziegon*
2:10PM			AVO inversion and nullspace shuttling on Ising networks	*Kris Innanen*
2:30PM			COFFEE (2:30PM - 2:50PM)	
2:50PM			On the role of multi-physics joint inversion in reducing uncertainties in geophysical inversion	*Tianze Zhang*
3:10PM			Continuous CO_2 monitoring based on combined active-source and microseismic FWI	*Xiaohui Cai*
3:30PM			Transconceptual sampling and geophysical inverse problems	*Jinji Li*
3:50PM	Invited Talk		Sparse seismic data planning for CO_2 sequestration monitoring	*Qi Hu*
4:10-5:45PM			POSTER SESSION & Demos	

CREWES Annual Meeting 2025 - Technical Program - Day 2
Dec 5 2025

Time	Session	Moderator	Title	Speaker
8:30AM	4DFWI	Kris Innanen	Feasibility study on time-lapse FWI using multiple-shallow-well VSP acquisition	*He Liu*
8:50AM			3D targeted nullspace shuttles in 4D FWI	*Jinji Li*
9:10AM			Time lapse nullspace shuttles and illumination in sparse acquisition settings	*Kim Pike*
9:30AM			Potential Wavefield Inversion (PWI): quasi-acoustic surrogates for elastic media	*Ivan Sanchez*
9:50AM			COFFEE (9:50AM - 10:30AM)	
10:30AM			Pseudo-3D and full 3D FWI approaches applied to the Snowflake field data	*Anton Ziegon*
10:50AM			Direct estimation of time-lapse CO_2 saturation variations with eFWI of the Snowflake dataset	*Xiaohui Cai*
11:10AM	ML-DSI-CMP	Daniel Trad	Modelling, migration and inversion: acoustic and elastic 3D modules	*Daniel Trad*
11:30AM			Enabling curvilinear finite-differences in Devito for elastodynamic simulations in complex topography	*Ivan Sanchez*
11:50AM			LUNCH (11:50AM - 1:20PM)	
1:20PM			Seismic low-frequency extrapolation in a latent space based on self-supervised learning	*Anqi Jia*
1:40PM			Self-supervised deep learning for attenuating multiple types of seismic noise	*Ji Li*
2:00PM			Physics-informed neural operators for seismic wave propagation	*Ángel Hernandez*
2:20PM			COFFEE (2:20PM - 3:00PM)	
3:00PM			Synthetic P-wave velocity model generation using LLMs for seismic data simulation	*Marcelo Guarido*
3:20PM			Deep learning for separation of near-surface waves in the frequency–slowness domain	*Ivan Sanchez*
3:40PM	Invited Talk		A comparison of spectral decomposition methods	*Brian Russell*
4:00PM			WRAP-UP AND ADJOURN	

ACQ-DAS-LAB	Acquisition and field methods, DAS, lab results
CO2-NM-INT	CO_2, novel methods, interpretation
FWI-UQ	2D, 3D and 4D FWI and uncertainty quantification
ML-DSI-CMP	Machine learning, data science and computation