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International Meeting for Applied Geoscience & Energy

POSTCONVENTION WORKSHOP

W-2: Distributed Fiber-Optic Sensing in Applied Geophysics

George R. Brown Convention Center, Room 372

Start	Stop	Presentation	Speaker	Affiliation
8:30 AM	8:35 AM	Introduction	Ge Jin	Colorado School of Mines
		Session 1: Seismic Imaging 1		
8:35 AM	8:50 AM	DAS seismic exploration in the Mori geothermal well in Hokkaido, Japan, and subsurface characterization	Junzo Kasahara	ENAA
8:50 AM	9:05 AM	Alaska North Shelf Gas Hydrate Distributed Fiber Optic Sensing	Cullen Young	CSM
9:05 AM	9:20 AM	De-risking 4D Seismic in an HPHT field via 4D DAS VSP Monitoring at Culzean, UKCS	Adrian Merry	TotalEnergies
9:20 AM	9:35 AM	DAS VSP SNR Characterization via Full-Waveform Modeling	Vladimir Kazei	Aramco Americas
9:35 AM	10:10 AM	Panel Discussion		
10:10 AM	10:20 AM	Coffee break		
		Session 2: Seismic Imaging 2		
10:20 AM	10:40 AM	Aspects of Surface DAS seismology: An industrial scale field experiment perspective	Ran Bachrach	Schlumberger
10:40 AM	10:55 AM	Big Foot 3D DAS VSP: from survey design to acquisition to processing	Weihong Fei	Chevron
10:55 AM	11:10 AM	Use of DAS VSP surveys for overburden monitoring: data observations	Vladislav Lesnikov	TotalEnergies
11:10 AM	11:25 AM	DAS and geophone field data comparison from VSP monitoring at the CaMI Field Research Station	Brendan Kolkman-Quinn	CREWES, University of Calgary
11:25 AM	12:00 PM	Panel Discussion		
12:00 PM	1:30 PM	Lunch Break		
1:30 PM	1:35 PM	Introduction	Ge Jin	Colorado School of Mines
		Session 3: Hydraulic Fracturing and Microseismic Monitoring		
1:35 PM	1:50 PM	Fracture Zone Estimated from DAS-recorded Microseismic Event	Frantisek Stanek	Colorado School of Mines
1:50 PM	2:05 PM	DAS microseismic at CCUS	Samantha Grandi	Shell
2:05 PM	2:20 PM	Modeling the effects of hydraulic fractures on tube waves generated by perforation shots and recorded by a DAS fiber	Milad Bader	Stanford University

2:20 PM	2:35 PM	Benefits of hybrid borehole sensing combining DAS and 3C accelerometers in a low-cost all-optical array.	Nicholas Brooks	magiqtech
2:35 PM	3:10 PM	Panel Discussion		
3:10 PM	3:20 PM	Break		
		Session 4: Near Surface and New Applications		
3:20 PM	3:35 PM	Weather-induced signals are sensed by DAS fiber-optic sensors	Junzhu Shen	The Pennsylvania State University
3:35 PM	3:50 PM	Estimating Rayleigh surface wave from ambient noise recorded by DAS dark fiber array in the city	Rafał Czarny	The Pennsylvania State University
3:50 PM	4:05 PM	Mapping dark fiber DAS along the UW campus route	Erin Cunningham	University of Wisconsin Madison
4:05 PM	4:20 PM	DASCore: An open-source python library for processing, managing, and visualizing DAS data	Derrick Chambers	Colorado School of Mines
4:20 PM	5:00 PM	Panel Discussion		