

CSEG Microseismic Workshop - Oct. 13-15, 2009 Final Program

Day	Session	Start	End	Duration	Notes	Author	Title	
Tuesday		8:00 AM	8:10 AM	0:10	OPENING STATEMENTS AND INSTRUCTIONS			
	Acquisition	8:10 AM	8:35 AM	0:25	Keynote	Gillian Foulger	Microearthquake Seismology: Cinderella Technology coming into its own	
		8:35 AM	8:45 AM	0:10	Poster	Joel Le Calvez	Hydraulic Fracture Monitoring of Induced Microseismic Activity Using a Vertical vs. Horizontal Array	
		8:45 AM	8:55 AM	0:10	Poster	Adam Baig	Remote, Near-Surface Monitoring of Microseismicity	
		8:55 AM	9:05 AM	0:10	Poster	Zach Laurence	Locating Microseismicity with downhole geophone arrays	
		9:05 AM	9:15 AM	0:10	Poster	Kit Chambers	Induced seismicity observed with the LoFS permanent sensor surface array	
		9:15 AM	9:25 AM	0:10	coffee break			
		9:25 AM	9:45 AM	0:20	poster discussion			
	Processing 1	9:45 AM	10:10 AM	0:25	History	Kenneth Mahrer	Three Decades of Microseismic Monitoring of Hydraulic Fracture Stimulations: What We Know, What We are Learning, and Where to Go	
		10:10 AM	10:20 AM	0:10	Poster	Leo Eisner	Breaking Preconceptions on Magnitudes of Induced Events	
		10:20 AM	10:30 AM	0:10	Poster	Emmanuel Bongajum	Microseismicity: How to capture, process, and visualize elastic seismic wavefields - a 3D modeling study	
		10:30 AM	10:40 AM	0:10	Poster	Mark Houston	A Comparison between Classical Microseismic P-S-wave Location Methodologies and a 3-component migration semblance algorithm	
		10:40 AM	10:50 AM	0:10	Poster	Xueping Zhao	Gaussian-beam polarization-based location method by S-wave for hydraulic fracturing induced seismicity	
		10:50 AM	11:00 AM	0:10	coffee break			
		11:00 AM	11:20 AM	0:20	poster discussion			
		11:20 AM	12:00 PM	0:40	panel discussion			
		12:00 PM	1:00 PM	1:00	LUNCH			
	Processing 2	1:00 PM	1:25 PM	0:25	Keynote	Colum Keith	Cold Lake Passive Seismic Monitoring	
		1:25 PM	1:35 PM	0:10	Poster	Joe Wong	Classification of microseismic events via principal component analysis of trace statistics	
		1:35 PM	1:45 PM	0:10	Poster	Natalia Verkhovtseva	Interpretation and additional processing of apparently asymmetric event distributions	
		1:45 PM	1:55 PM	0:10	Poster	Joe Wong	Automatic time-picking of first arrivals on noisy microseismic data	
		1:55 PM	2:05 PM	0:10	Poster	Glenn Jones	Improved microseismic event location with a single monitoring well: A case study from Ekofisk	
		2:05 PM	2:15 PM	0:10	coffee break			
		2:15 PM	2:35 PM	0:20	poster discussion			
	Errors 1	2:35 PM	3:00 PM	0:25	Case Study	Tadeusz Ulrych	Processing Surface Microseismic Data	
						CANCELED	Pavel Shkarin	Spatial Accuracy of SET: a Simulation Study
						CANCELED	Evgeny Chesnokov	Changing Velocity Structure Due to Frac Job
		12:00 AM	3:20 PM	15:20	Poster	Werner Heigl	Errors in microseismic event locations and their implications on the interpretation of microseismic monitoring results	
						CANCELED	Evgeny Chesnokov	Anisotropy and accuracy of microseismic locations
		12:00 AM	3:40 PM	15:40	coffee break			
		3:40 PM	4:00 PM	0:20	poster discussion			
		4:00 PM	4:40 PM	0:40	panel discussion			
	5:30 PM	8:30 PM	3:00	Mixer at Olympic Hall of Fame				

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Day	Session	Start	End	Duration	Notes	Author	Title
Wednesday	Engineering	8:00 AM	8:25 AM	0:25	Keynote	Tony Settari	TBA
		8:25 AM	8:35 AM	0:10	Poster	Jo Ellen Kilpatrick	Source Mechanisms from slick-water and nitrogen fracture stimulation treatments
		8:35 AM	8:45 AM	0:10	Poster	Alice Guest	Numerical modeling of the microseismic events using damage theory
		8:45 AM	8:55 AM	0:10	Poster	Natasha Kostenuk	Integrated approach to fracture design in shale gas reservoirs
		8:55 AM	9:05 AM	0:10	Poster	Ian Bradford	Updating a model of the earth using microseismic data
		9:05 AM	9:20 AM	0:15	coffee break		
		9:20 AM	9:40 AM	0:20	poster discussion		
	Source Mechanism	9:40 AM	10:05 AM	0:25	Case Study	Ted Urbancic	Characterizing Frac Growth with Seismic Moment Tensor Inversion Analysis
		10:05 AM	10:15 AM	0:10	Poster	Ismael Rodriguez	Automatic inversion of origin time, hypocenter location and seismic moment tensor: an imaging approach
		10:15 AM	10:25 AM	0:10	Poster	Sheri Bowman	Spatial Stress-Strain Behaviour Related to Hydraulic Fracture Stimulations
		10:25 AM	10:35 AM	0:10	Poster	David Eaton	Solid angles and the impact of receiver-array geometry on theoretical resolution of microseismic moment tensors
		10:35 AM	10:45 AM	0:10	Poster	Scott Leaney	Microseismic source inversion in anisotropic media using least-squares time reversal
		10:45 AM	11:00 AM	0:15	coffee break		
		11:00 AM	11:20 AM	0:20	poster discussion		
		11:20 AM	12:00 PM	0:40	panel discussion		
		12:00 PM	1:00 PM	1:00	LUNCH		
		1:00 PM	5:30 PM	4:30	SOCIAL ACTIVITIES		

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Day	Session	Start	End	Duration	Notes	Author	Title			
Thursday	Fracture Interpretation	8:00 AM	8:25 AM	0:25	Keynote	Shawn Maxwell	Microseismic: Location, Location, Location			
		8:25 AM	8:35 AM	0:10	Poster	Carsten Dinske	Interpretation of Microseismicity Resulting from Hydraulic Fracturing of Tight Gas Reservoirs			
		8:35 AM	8:45 AM	0:10	Poster	Alice Guest	Stress analysis of microseismicity - a search for the fluid signal			
		8:45 AM	8:55 AM	0:10	Poster	Juan Reyes-Montes	Enhancement of fracture network imaging from microseismic monitoring of hydraulic fracture treatments			
		8:55 AM	9:05 AM	0:10	Poster	Shawn Maxwell	Microseismic Location Uncertainty Controls on Interpreted Fracture Geometries			
		9:05 AM	9:15 AM	0:10	Poster	Anton Zaicenco	Uncertainties in Microseismic Event Detection			
		9:15 AM	9:25 AM	0:10	coffee break					
			9:25 AM	9:45 AM	0:20	poster discussion				
	Errors 2		9:45 AM	10:00 AM	0:15	Case Study	Paul Anderson	A comparison of Microseismic results from multiple contractors		
			10:00 AM	10:10 AM	0:10	Poster	John Bancroft	Sensitivity measurements for locating microseismic events using first arrival clock-times		
			10:10 AM	10:20 AM	0:10	Poster	Brian Fuller	Seismic Wave Phenomena and Implications for Accuracy of Microseismic Results		
			10:20 AM	10:30 AM	0:10	Poster	Delaine Reiter	Assessing the Uncertainties of Borehole Microseismic Event Locations in Hydrolic Fracturing Applications		
			10:30 AM	10:40 AM	0:10	Poster	Adam Baig	Limits of Event Location Accuracy in Microseismic Monitoring		
			10:40 AM	10:50 AM	0:10	coffee break				
			10:50 AM	11:10 AM	0:20	poster discussion				
			11:10 AM	11:50 AM	0:40	panel discussion				
			11:50 AM	12:50 PM	1:00	LUNCH				
	Case Studies 1		12:50 PM	1:10 PM	0:20	Case Study	Eric Andersen	Pouce Coupe 4Dseismic and microseismic reservoir monitoring - An overview - Part 1		
			1:10 PM	1:30 PM	0:20	Case Study	Eric Andersen	Pouce Coupe 4Dseismic and microseismic reservoir monitoring - An overview - Part 2		
			1:30 PM	1:50 PM	0:20	Case Study	Louis Chabot	Hydraulic Fracture Mapping: some lesson's learned		
			1:50 PM	2:10 PM	0:20	Case Study	Ulrich Zimmer	Individual viewing distances of microseismic arrays determined on an experiment with four observation wells		
			2:10 PM	2:30 PM	0:20	Case Study	Jassim Al-Kandari	Interpretation of Microseismic Attributes: Minagish oil field case, West Kuwait		
			2:30 PM	2:40 PM	0:10	coffee break				
	Case Studies 2		2:40 PM	3:00 PM	0:20	Case Study	Rob Kendall	Microseismic Monitoring of a multi-stage hydrolic fracture in the Bakken formation, SE Saskatchewan		
							Thierry Bovier-Lapierre	Microseismic monitoring downhole instrumentation for hydraulic fracture mapping. A review through case histories		
							Mike Jones	Monitoring a single horizontal treatment well from three monitor wells		
			3:00 PM	3:20 PM	0:20	Case Study	Mirko van der Baan	The 1998 Valhall microseismicity: An integrated study of relocated sources, seismic multiplets and S-wave splitting		
			3:20 PM	3:40 PM	0:20	Case Study	Ulrich Zimmer	Challenges and results of downhole microseismic data acquisition, processing and interpretation in the Horn River Basin		
		3:40 PM	4:00 PM	0:20	Case Study	Murray Roth	Fracture Interpretation in the Barnett Shale, using micro and microseismic data			
		4:00 PM	4:00 PM		closing remarks					