

CURTIN RESERVOIR GEOPHYSICS CONSORTIUM

Annual General Meeting
29th and 30th November 2018

Karma Rottnest Lodge, Rottnest Island, Western Australia

AGENDA

Thursday 29 November		
8:00-9:00	<i>Arrival in Rottnest and Breakfast on arrival</i>	
Time	Authors	Title
9:00-9:10	Boris Gurevich	Welcome and Overview
9:10-9:30	R. Pevzner , A. Bona, J. Correa, K. Tertyshnikov, G. Palmer and M. McDonald (Fotech Solutions) and O. Valishin (Sercel)	Optimising DAS VSP data acquisition parameters: theory and experiments at Curtin training well facility
9:30-9:50	R. Pevzner , B. Gurevich, K. Tertyshnikov, A. Pirogova and S. Glubokovskikh	Repeated Logging using Distributed Acoustic Sensors and Earthquakes
9:50-10:10	T. Dean	Recent advances in land seismic acquisition technology
10:10-10:30	Session Discussion & Introduction to Posters	
10:30-11:00	<i>Morning Tea</i>	
11:00-11:20	S. Popik , D. Popik and R. Pevzner	Effect of density of seismic sources on the quality of the 4D seismic data
11:20-11:35	J. Correa, R. Pevzner, S. Popik, K. Tertyshnikov , A. Bona, and B. Freifeld (LBNL)	Application of 3D VSP acquired with DAS and 3C geophones for site characterization and monitoring program design: preliminary results
11:35-11:50	S. Yavuz , J. Correa, S. Popik, K. Tertyshnikov, T. Wood and B. Freifeld (LBNL) and R. Pevzner	Continuous seismic monitoring with the surface geophone array, distributed acoustic sensors and the permanent rotary sources
11:50-12:05	J. Correa , B. Freifeld, R. Pevzner, T. Wood, M. Robertson (LBNL), K. Tertyshnikov, S. Yavuz	Time-lapse DAS VSP monitoring using surface orbital vibrators: field trials for optimal configuration
12:05-12:20	Session Discussion	
12:20-13:20	<i>Lunch</i>	
13:20-13:40	S. Glubokovskikh , D. Popik, S. Popik, R. Pevzner, J. Gunning (CSIRO), C. Proud and B. Gurevich	How accurately can 4D seismic characterize a small gas plume?
13:40-14:00	S. Glubokovskikh and R. Pevzner	Deep learning for real-time CO ₂ plume forecasting using permanent seismic monitoring
14:00-14:20	A. Pethick and A. Alghamdi	Feasibility of Natural Language Machine Learning for Hydrogeophysical Characterization
14:20-14:40	M. Urosevic , S. Ziramov, R. Pevzner, K. Tertyshnikov, S. Yavuz, A. Egorov and A. Bona	CO ₂ storage site characterisation at Harvey, Western Australia using non-conventional seismic survey geometries
14:40-14:50	Session Discussion	
14:50-15:20	<i>Afternoon Tea and Posters</i>	
15:20-15:40	A. Bona , M. Urosevic, R. Pevzner, K. Tertyshnikov and S. Ziramov	On-shore seismic with DAS – field examples from Australia
15:40-16:00	J. Cocker (Phase Geo)	The importance of field trials and innovation: a review of an extensive test on Barrow Island for survey design and 4D feasibility.
16:00-17:00	General Discussion	
19:00	<i>Dinner at Rottnest Lodge Restaurant</i>	

Time	Authors	Title
9:00-9:20	A. Pirogova, B. Gurevich and R. Pevzner	Study of intrinsic versus scattering attenuation of seismic waves from borehole measurements
9:20-9:40	B. Gurevich , M. M. Nzikou, and G. Gor (NJIT)	Modeling elastic properties of partially saturated nano-porous media
9:40-10:00	A. Gerhardt and H. Sidi and B. Williams (Woodside Energy), B. Gurevich , M. Lebedev , V. Mikhaltsevitch, J. Fortin (ENS) and Ian Jackson (ANU)	Benchmark laboratory measurements at seismic frequencies for 4D monitoring
10:00-10:10	Session Discussion	
10:10-10:40	Morning Tea	
10:40-11:00	Y. Sun , S. Glubokovskikh, B. Gurevich, A. Squelch and C. Arns (UNSW)	Solid substitution constrained by numerical simulation based on the finite element modeling
11:00-11:20	V. Mikhaltsevitch , R. Chavez (Petrobras), M. Lebedev and B. Gurevich	Influence of creep drifts and boundary effects on dynamic moduli of sedimentary rocks at seismic frequencies
11:20-11:30	Session Discussion	
11:30-12:00	General Discussion	
12:00-13:00	Lunch at Rottnest Lodge Restaurant	



Posters
Passive seismic imaging at BHP's Roy Hill mine M. Asgharzadeh , A. Bona and M. Urosevic
DAS reflections seismic on salt lakes M. Urosevic, A. Bona, S. Ziramov , R. Martin and J. Dwyer (HiSeis) and A. Foley (Gold Fields)
Velocity estimate using surface seismic in Harvey, WA S. Ziramov , M. Urosevic, R. Pevzner, S. Glubokovskikh and B. Gurevich
Integrated field, lab and modelling for containment assessment of CO ₂ in the multi-barrier system of the Yalogorup Mbr, South West Hub S. Vialle , E. Al-Khdheawi, J. Strand and J. Bourdet (CSIRO)
Sorption-Induced Deformation and Elastic Weakening of Bentheim Sandstone A. Yurikov, M. Lebedev , G. Y. Gor (NJIT) and B. Gurevich
Attenuation estimation using viscoelastic full waveform inversion based on wave mode decomposition M. M. Nzikou , A. Yurikov, M. Lebedev and B. Gurevich
VSP to Surface Seismic Interferometric Migration M. Bahri , M. Asgharzadeh, A. Bona and M. Urosevic
Robustness of Q estimates from borehole data J. Liang , T. Müller (CSIRO), G. Tang (China University of Petroleum), B. Gurevich and S. Glubokovskikh
How S-wave velocity in porous media depends on its amplitude N. Nourifard, E. Mashinskii (SB RAS) and M. Lebedev
Application of seismic interferometry to increase the 3D VSP illumination E. Sidenko and R. Pevzner
Results of compaction experiments on synthetic shales M. Cauchefert , M. Lebedev, S. Vialle, and L. Esteban (CSIRO)