

SEG Technical Program – UH Oral and Poster Presentations

	TITLE	AUTHOR	START TIME	LOCATION	TYPE
MONDAY	Joint inversion for microseismic event positions and velocity structures by combining multiscale deformable-layer tomography and master station earthquake location method	Zhili Wei, Yingcai Zheng, Hua-Wei Zhou, Hu Hao, August Lau	1:25:00 PM	144/145	ORAL
	Identifying unconventional potential using seismic inversion and neural networks: An Eagle Ford Shale study	Xavier Refunjol	1:25:00 PM	155	ORAL
	A layer-cell approach of near-surface first-arrival tomography	Yukai Wo, Hua-wei Zhou	1:25:00 PM	150	ORAL
	Well-log lithology discrimination using elastic attributes only	Elita De Abreu, John Castagna	1:50:00 PM	168	ORAL
	Joint inversion for anisotropic velocity model and event locations using S-wave splitting measurements from downhole microseismic data	Duo Yuan, Robert Stewart, Aibing Li	2:15:00 PM	144/145	ORAL
	An unmanned aerial vehicle with vibration sensing ability (seismic drone)	Robert Stewart, Li Chang, Srikanth Sudarshan, Aaron	3:20:00 PM	148	ORAL
	Time-lapse inversion of steam chamber in heavy oil reservoir	Hemin Yuan, De-Hua Han	3:20:00 PM	Lobby D/C	POSTER
	Prestack-image based correlative least-squares reverse time migration	Xuejian Liu, Hu Hao*	3:45:00PM	Lobby D/C	POSTER
	Rock-physics based prediction of hydraulic permeability and thermal conductivity of anisotropic clastic rocks from logging data	Irina Bayuk, Gennady Goloshubin*	4:10:00 PM	167	ORAL
TUESDAY	Least-squares reverse time migration with Hessian preconditioning	Wei Huang, Pan Deng, Hua-Wei Zhou	8:25:00 AM	171/173	ORAL
	Near-surface geophysical imaging for groundwater exploration: La Marque, Texas	Abigail M. Ross, Robert R. Stewart, Li Chang	8:50:00 AM	147/154	ORAL
	The first inverse-scattering-series internal multiple elimination method for a multidimensional subsurface	Yanglei Zou, Chao Ma, Arthur Weglein	10:45:00 AM	142	ORAL
	Effects of fracture density on P-wave reflection coefficients for shale/sand model with HTI anisotropy	Wei Huang, Pan Deng, Hua-Wei Zhou	10:45:00 AM	Lobby D/C	POSTER

TUESDAY

The influence of CEC, salinity, mineralogy, and grain-size distribution on the stress-dependent petrophysical properties on reconsolidated mudrocks	Mohab Dessouki, Michael Myers, Lori Hathon	10:45:00 AM	143/149	ORAL
Correlations between the seismic anisotropy parameters for shales	Fuyong Yan, De-Hua Han	11:10:00 AM	167	ORAL
Channel characterization of drill string acoustic wireless telemetry using a novel high-precision integration algorithm	Shubin Zeng*, Jiefu Chen	11:35:00 AM	141	ORAL
Green's theorem-based onshore preprocessing: A reduced data requirement assuming a vacuum/earth model for the air/earth interface and the evaluation of the usefulness of that assumption	Jing Wu, Arthur Weglein	11:35:00 AM	140	ORAL
Examining the interdependence and cooperation of the terms in the distinct inverse-scattering subseries for free-surface multiple and internal multiple removal	Chao Ma, Arthur Weglein	11:35:00 AM	142	ORAL
Reflectivity of isotropic-fractured layer	Anna Krylova, Gennady Goloshubin	1:50:00 PM	150	ORAL
Least-squares reverse time migration of controlled order multiples	Yike Liu, Xuejian Liu, Yingcai Zheng*, Hao Hu*	1:50:00 PM	171/173	ORAL
Reservoir quality indicators from well logs and 3D-3-C seismic in the Marcellus Shale	Fabiola Ruiz, Robert Stewart	1:50:00 PM	Lobby D/C	POSTER
Controls on acoustic anisotropy observed in unconsolidated sands using laboratory measurements and digital rock technology	Lori Hathon, Michael Myers	2:15:00 PM	166	ORAL
Introduction of upscaling methods derived from the simple averaging method and a comparison with the Backus method of upscaling	Ezzedeen Alfataierge, Evgeny Chesnokov, Yuliya Gorb	3:20:00 PM	150	ORAL
Mineralogical effects on elastic properties and anisotropies of organic shales	Xuan Qin, De-Hua Han, Fuyong Yan	3:20:00 PM	166	ORAL
A clear example of using multiples to enhance and improve imaging	Chao Ma, Arthur Weglein	3:45:00 PM	Lobby D/C	POSTER
Seismic characterization of fractures using exact localized waves: Gaussian wave packet	Yinshuai Ding, Yingcai Zheng, Hua-Wei Zhou, Hao Hu	4:10:00 PM	155	ORAL
The impact of prerequisites (ghosts, source wavelet, and radiation pattern) on the inverse scattering series free-surface multiple-elimination algorithm	Jinlong Yang	4:10:00 PM	Lobby D/C	POSTER

TUESDAY	The first migration method that is equally effective for all acquired frequencies for imaging and inverting at the target and reservoir	Arthur Weglein, James Mayhan, Yanglei Zou, Qiang Fu, Fang Liu, Jing Wu, Chao Ma, Xinglu Lin	4:35:00 PM	171/173	ORAL
	Incorporating a 3D point source in the ISS FSME for a 1D subsurface and its influence on the subsequent processing	Xinglu Lin, Arthur Weglein	4:35:00 PM	Lobby D/C	POSTER
WEDNESDAY	A rational series approach for solving poroelastic wave equation with dynamic permeability	Zhao Li, Donald Kouri, Evgeny Chesnokov	8:00:00 AM	161	ORAL
	Full-waveform inversion by multiscale temporal integration	Pan Deng, Wei Huang, Hua-Wei Zhou	8:25:00 AM	143/149	ORAL
	Locating and characterizing burials using 3D ground-penetrating radar (GPR) and terrestrial laser scanning (TLS) at the historic Mueschke Cemetery, Houston, Texas	Azie Aziz, Robert Stewart, Susan Green	8:25:00 AM	147/154	ORAL
	Electromagnetic tunnel detection using a magnetic-dipole source in three-dimensional space	John Neese, David Jackson, Yingcai Zheng	8:25:00 AM	Lobby D/C	POSTER
	Multiphysics modeling of carbonates calibrated with NMR and micro-CT	Alireza Shahin, Micheal Myers, Lori Hathon	8:25:00 AM	167	ORAL
	2D Green's theorem receiver deghosting in the (x - ω) domain using a depth-variable cable towards on-shore and ocean-bottom application with variable topography	Zhen Zhang, Arthur Weglein	8:25:00 AM	140	ORAL
	Analysis of seismic anisotropy parameters for sedimentary strata	Fuyong Yan, De-Hua Han, Xuelian Chen	8:50:00 AM	Lobby D/C	POSTER
	Sensitivity analysis of seismic anisotropy parameter estimation	Fuyong Yan, De-Hua Han	9:15:00 AM	150	ORAL
	Predicting deghosted reflection data for both pressure and multicomponent displacements at the ocean bottom	Jing Wu, Arthur Weglein	10:20:00 AM	140	ORAL
	The significance and impact of incorporating a 3D point source in Green's theorem deghosting	Xinglu Lin, Arthur Weglein	11:35:00 AM	140	ORAL
	Fast Matching pursuit decomposition based near surface seismic logging data Q estimate with shaping regularization	Song, W., H. Zhou, Z. Deng, R. Wang, and F. Yan	1:30:00 PM	142	ORAL
	Rapid simulation of resistivity well logging using a hybridization of semianalytical and conventional finite-element schemes	Shubin Zeng, Jiefu Chen	1:55:00 PM	168	ORAL
	Rock-physics modeling of shale during smectite-to-illite transition	Xuan Qin, De-Hua Han, Fuyong Yan	1:55:00 PM	150	ORAL

WEDNESDAY	The effect of CEC, salinity, mineralogy, and grain-size distribution on resedimented mudrock strength obtained through multistage triaxial	Mohab Dessouki*, Michael Myers, Lori Hathon	2:20:00 PM	167	ORAL
	Phase decomposition as a hydrocarbon indicator: A case study	Ramses Meza, John Castagna*	3:10:00 PM	140	ORAL
	Total variation denoising of azimuthal resistivity inversion in geosteering	Qiuyang Shen, Jiefu Chen, Zhu Han	3:35:00 PM	168	ORAL
	Solving fractional Laplacian viscoacoustic wave equation using Hermite distributed approximating functional method	Jie Yao, Donald Kouri	3:35:00 PM	148	ORAL
	Analysis of oscillational behaviors of waves in gas-pocket reservoirs via decoupling wavefields	Pongthep Thongsang	4:00:00 PM	Lobby D/C	POSTER
	A new time-space domain dispersion-relation-based implicit staggered-grid finite-difference scheme for scalar wave-equation modeling	Yaning Liu, Wen Hu*	4:25:00 PM	Lobby D/C	POSTER
	A novel formation model for electromagnetic telemetry including surface and innovative casing antenna system	Qiuzhao Dong, Jiefu Chen*	4:25:00 PM	168	ORAL
THURSDAY	Rock-physics modeling of heavy oil sands	Hemin Yuan, De-Hua Han	8:55:00 AM	150	ORAL
	Elastic properties of salt: Ultrasonic lab measurements and the Gulf of Mexico well log analysis	Jingjing Zong, Robert Stewart, Nikolay Dyaur	8:55:00 AM	167	ORAL
	Determination of microseismic event back azimuth from S-wave splitting analysis	Duo Yuan, Aibing Li	9:20:00 AM	144/145	ORAL
	Ultrasonic P-wave velocity and density of heavy oil-toluene mixture	De-Hua Han, Min Sun	9:45:00 AM	150	ORAL
	Compressional velocity of heavy oil at high-temperature condition	Min Sun, De-Hua Han	10:10:00 AM	150	ORAL
	Removal of Doppler effects from marine vibrator OBN seismic	Chen Qi, Fred Hilterman	10:10:00 AM	163/165	ORAL
	An investigation of static and dynamic data using multistage triaxial tests	Abdullah Bilal, Michael Myers, Lori Hathon	11:00:00 AM	150	ORAL
	A cost-effective scheme for reverse time migration angle gathers	Qiang Fu, Arthur Weglein	12:35:00 AM	171/173	ORAL