



Technical Program

2024 SEG 1st Tarim Ultra-Deep Oil & Gas Exploration Technology Workshop

Korla, China

3-5 June 2024

Monday, 3 June

Tarim Oil Apartment (Hotel)

09:30 - 19:30	Registration
18:00 - 19:00	Meeting of Technical Session Chairs
19:30 - 21:00	Dinner (format TBD)

Tuesday, 4 June

Tarim Oilfield R & D Center

Opening & Plenary Session
Session Chairs: TBD

Lecture Hall, Tarim Oilfield R & D Center

10:00 - 10:05	Welcome addresses from Organizer
10:05 - 10:10	Welcome addresses from Organizer
10:10 - 10:15	Welcome addresses from Organizer
10:15 - 10:20	Welcome addresses from representative of Co-Organizers
10:20 - 10:45	Invited Keynote: Super-Long-Offset Experiment for Velocity Model Building , by Ruirui Zhao, Tarim Oilfield Company, Petrochina; Xianhuai Zhu from Forland Geophysical Services
10:45 - 11:10	Invited Keynote: 3D multiple attenuation using trained dictionaries , by Zhou Joe Yu from HuiQuan Geophysical Services
11:10 - 11:35	Invited Keynote: speaker & report title TBD-3
11:35 - 12:00	Invited Keynote: speaker & report title TBD-4

12:00 - 12:25	Workshop Group Photo, Coffee Break		
12:25 - 12:50	Invited Keynote: speaker & report title TBD-5		
12:50 - 13:15	Invited Keynote: speaker & report title TBD-6		
13:15 - 13:40	Invited Keynote: speaker & report title TBD-7		
13:40 - 14:05	Invited Keynote: speaker & report title TBD-8		
14:10 - 16:00	Lunch		
16:10 - 17:50	Session 1: Theory and methods of ultra-deep seismic detection <i>Chairs: TBD</i> Location: Lecture Hall	Session 2: Ultra-deep land seismic acquisition technology (including near surface) <i>Chairs: TBD</i> Location: Meeting Room 2A	Session 3: Ultra-deep fidelity denoising and weak signal recovery technology <i>Chairs: TBD</i> Location: Meeting Room 2C
16:10 - 16:30	Three-dimensional seismic forward modeling and analysis of influencing factors on deep imaging in the piedmont southwestern Tarim Basin Chunming Wang1,2 ,Xiaohong Cheng1 , Qingcai Zeng2, Sian Hou2,Gengxin Peng3, Junru Jiao4,Shijun3 and Xianhuai Zhu4 . (1 China University of Petroleum, Beijing; 2 Research Institute of Petroleum Exploration and Development, Petrochina; 3 Tarim Oilfield Company, PetroChina; 4 Forland Geophysical Services)	Research on the Lack of High Frequency Phenomenon in Seismic Signals in Tarim Oilfield Pei Guangping, Deng Jianfeng, Chen Feixu, Wang Guowei, Wang Xingjun. Research Institute of Exploration and Development, Tarim Oilfield Company, Petrochina, Korla, China	Scattered Noise Suppression Based on the Double-Focusing Method Tianjing shen*1, Yezheng Hu 1, Xuri Huang 1, Xiaochun Chen 1 1.School of Geosciences and Technology, Southwest Petroleum University, Chengdu, 610500, China
16:30 - 16:50	Structure-Oriented Mapping of the Sub-Salt Fractured Reservoir by Reflection Layer Tomography from a Perspective of the Zero-Offset Vertical Seismic Profiling Jingjing Zong*, Cai Lu*, Guangmin Hu* and Yukai Wo** *University of Electronic Science and Technology of China, **Southwest Petroleum University	Exploration and Application of Node collection technology in Mountainous Areas of the Tarim Basin LUO Wen*, ZHANG Xiaobin, YUAN Guangyin, JING Longjiang, SU Jiayi, YUAN Bin, GEN Chun Souhwest Geophysical Branch, BGP Inc.,CNPC	Application of Yu's wavelet filtering and SVI technique in Kuche mountain seismic data Zhongbo Xu1*, Liansheng Liu2, Duoming Zheng1, Wensheng Duan1, Jian Li2, Qingning Dang1 1.Tarim Oilfield Company, CNPC, Korla, China 2.PanImaging Software Development Ltd., Beijing, China
16:50 - 17:10	Physical modeling of strike-slip fault and seismic response characteristics analysis Wenpeng Si*, Tingdong Xing, Shigui Xue, Linwei Ma SINOPEC Geophysical Research Institute Co., Ltd, Nanjing 211103, China	Essential technologies of vibroseis for ultra-deep fault-controlled fracture-cavity reservoirs in the desert area of Tarim Basin Wei Yang1,2*, Xuehua Chen1, Liangjian Ni2, Zichuan Yang2. 1 State Key Laboratory of Oil & Gas Reservoir Geology and Exploitation, Chengdu University of Technology. 2 Northwest Oilfield Branch, Sinopec.	Internal multiple matching based on self-supervised learning Xiaozhou Liu1*, Tianyue Hu1 1 The School of Earth and Space Sciences, Institute of Energy, Institute for Artificial Intelligence, Peking University
17:10 - 17:30	Forward Simulation Study of Viscoelastic Media in the Tarim Basin Yezheng Hu*1, Tianjing shen1, Yukai Wo1, Guangping Pei2, Xuri Huang1. 1.School of Geosciences and Technology, Southwest Petroleum University, Chengdu, 610500, China. 2.Tarim Oilfield Company, PetroChina, Korla, Xinjiang 841000, China	Research and application of the joint surface modeling in the huge-thick loess area in southwest Tarim Lv Jingfeng1*, Zhang Xiaohua1, Chen Feixu2, Di Jiangwei1 , Chen Jingguo 1,3, Cui Yongfu2 (1 BGP,CNPC, Korla, Xinjiang, 2 CNPC Tarim Petroleum, 3 CUP, Beijing)	Research and application of inverse scattering series method to predict internal multiples Xiang Pingao*1,2, Zhao Ruirui1,2, Li Yongjun1,2, Zhang Chunbo1,2, Wang Guowei1,2. (1.Research Institute of Exploration and Development, Tarim Oilfield Company, PetroChina; 2.R & D Center for Ultra-Deep Complex Reservoir Exploration and Development, CNPC)

17:30 - 17:50	<p>High-precision irregular surface seismic wavefield simulation and imaging verification: The three-dimensional case Xiang Li*, Ziduo Hu, Yancan Tian, Wei Liu, Linghe Han, Key Laboratory of Reservoir Characterization, Research Institute of Petroleum Exploration and Development-Northwest, PetroChina, Lanzhou, Gansu, China; Gang Yao, Unconventional Petroleum Research Institute, China University of Petroleum (Beijing), Beijing, China.</p>	<p>Application of the " WBH " Acquisition Technology in Ultra Deep Oil and Gas Exploration in Jilin Exploration Area Chunbo Luo*, Peiyong Cai, Shenghua Yu, Cuiyi Huang, Fucheng Zhao, Guojun Chen. BGP, CNPC</p>	<p>Diffraction separation using envelop and optimized stacking Wentao Mu*, Weiye Zhang, Jianlei Zhang, Zhenping Tian. BGP, CNPC</p>
17:50 - 18:20	<p>Poster Session: Prediction of ultra-deep heterogeneous reservoirs & hydrocarbon detection techniques <i>Chairs: TBD</i></p>		<p>Coffee Break <i>Location: Foyer Area</i></p>
17:50 - 18:00	<p>Application of Carbonate Rock Physics Analysis in Pre-stack Reservoir Prediction Ma yongqiang, Lanmei Ke, Liuxin Yang, Long Yin, Zhao Ding. Sinopec Geophysical Research Institute</p>	<p>Prediction methods and application effects of ultra-deep carbonate reservoirs in the Kedong of the western Kunlun mountain front zone Fei Peng1*, Li Qiang1, Chen Xiangfei1, Liu jun1, Bai Xue1, Wang Yueming1, Du hai2. (1 Tarim Institute of Geophysical Exploration. BGP inc. CNPC; 2 Tarim Southwest Exploration and Development Company, Tarim Oilfield Company, PetroChina)</p>	<p>Application of Chirplet-W transform time-frequency analysis technology in prediction of carbonate fault controlled fracture cave reservoir in Shunbei 8 well area, Tarim Basin Gao Lijun1,2, Li Haiying2, Gong Wei2, Fu Liyun1 1. School of Earth Science and Technology, China University of Petroleum (East China) 2. Exploration and Development Research Institute of Sinopec Northwest Oilfield Branch</p>
18:00 - 18:10	<p>Strike-slip fracture parameters extraction based on optimal attribute weighted learning method Yongqiang Ma, Ruyi Zhang, Shangfeng Yang, Liuxin Yang. SINOPEC Geophysical Research Institute Co., Ltd.</p>	<p>Strata information guided amplitude gradient attribute and the identification of ultra-deep carbonate fault-controlled reservoir seismic reflection in Shunbei, Tarim Basin Kangkang Guo*, Yingtao Li, Shang Deng, Jibiao Zhang, Tiejie Wang and Dawei Liu, Petroleum Exploration and Production Research Institute, Sinopec, Beijing, China.</p>	<p>Application of pre-stack anisotropic fracture detection technique to ultra-deep reservoir prediction in the Dengying Formation, Central Sichuan Yan Yuanyuan12*, Ran Qi1, Chen Kang1, Yang Guangguang1, Dai Juncheng1, Xi Cheng1, Lv Yan1, Weiwei1. (1.Institute of Exploration and Development, PetroChina Southwest Oil and Gas Field Company. 2.Institute of Sedimentary Geology, Chengdu University of Technology)</p>
18:10 - 19:30	<p>Session 4: Theory and methods of ultra-deep seismic detection <i>Chairs: TBD</i> <i>Location: Lecture Hall</i></p>	<p>Session 5: Ultra-deep land seismic acquisition technology (including near surface) <i>Chairs: TBD</i> <i>Location: Meeting Room 2A</i></p>	<p>Session 6: Ultra-deep fidelity denoising and weak signal recovery technology <i>Chairs: TBD</i> <i>Location: Meeting Room 2C</i></p>
18:10 - 18:30	<p>Integrated testing technology and application of high temperature and high pressure rock physics for ultra-deep reservoirs Wei-Hua Liu1,2*, Hui Shen1,2, Wei Cheng1,2, Si-qi Ji1,2, Yue Zhuo1,2. 1. SINOPEC Geophysical Research Institute Co. Ltd., Nanjing, China 211103. 2. SINOPEC Key Laboratory of Geophysics, Nanjing, China 211103</p>	<p>Application of high-efficiency vibroseis acquisition technology in ultra-deep seismic exploration of Tarim basin Guangyin Yuan*1, Hongyuan Li 2, Bing Yuan1, Jianwei Li1, Youhui Huang3. 1.Southwest Geophysical Exploration Branch, BGP inc., CNPC. 2.Acquisition Technology Institute, BGP inc., CNPC. 3.Exploration Utility Department, Tarim Oilfield Company, PetroChina.</p>	<p>Research on ultra-deep internal multiple suppression method for land seismic data Xie Junfa*, Liu Wenqing, Wang Jing, Wang Yanxiang, Jin Baozhong. (Northwest Branch Institute, Research Institute of Petroleum Exploration and Development, CNPC, Lanzhou, China)</p>
18:30 - 18:50	<p>Seismic physical modeling technology using laser ultrasonics for land seismic exploration Xue Shigui*, Xing Tingdong, Wang Huiming, Si Wenpeng, and Jiao Yanyan, SINOPEC Geophysical Research Institute Co., Ltd.</p>	<p>The seismic acquisition for the ultra-deep Carboniferous insider imaging in northern Xinjiang Xia Jianjun*, Zhang Lulu, Guo Zaiping, Peng Xia. BGP, CNPC</p>	<p>High Fidelity Processing Strategy Targeting Deep Ordovician Carbonate Reservoirs in Northern Tarim Basin Duan Wensheng1, Li Rong2, Zhao Ruirui1, Gong Zijing2, Yang Shanshan1, Liu Huaifeng2*, Cui Jie2 1.Tarim Oilfield Company, PetroChina; 2.Schlumberger</p>

18:50 - 19:10	<p>A Study of Seismic Simulation and Response Characteristics based on An Ultra-Deep Fault-related Reservoir Model Dechao Han*, Chonghui Suo, Li Yang, Weihua Liu, Lingwei Ma, Hongyan Li, Yuan Yuan, Lin Song, Chunli Zhang. SINOPEC Geophysical Research Institute Co. Ltd., Nanjing, 211103, China. SINOPEC Key Laboratory of Geophysics, Nanjing, 211103, China</p>	<p>Discussion on preprocessing of downhole data in near surface attenuation survey Gengxin Peng, Tarim Oilfield; Degang Jin*, BGP; Qiang Zou, Tarim Oilfield; Ruirui Zhao, Tarim Oilfield; Dajun Li, Tarim Oilfield; Zhong Li, BGP</p>	<p>A Multi-resolution Deep Learning Denoising Method for Surface Shot Gather Acquired from Tarim Basin Xintong Dong*1,2, Jun Lin1,2, Ming Cheng2, Hongzhou Wang2, Shiqi Dong3, Yuqin Luo4. (1.Southern Marine Science and Engineering Guangdong Laboratory (Zhanjiang); 2.College of Instrumentation and Electrical Engineering, Jilin University; 3.The Key Laboratory of Modern Power System Simulation and Control & Renewable Energy Technology, Ministry of Education, Northeast Electric Power University; 4.Institute of Materials Physics, Northeast Electric Power University.)</p>
19:10 - 19:30	<p>Seismic physical modeling study about the fault core-damage zone of the strike-slip fault XING Tingdong1,2, XUE Shigui1,2, Liu Weihua1,2, Ma Lingwei1,2, Si Wenpeng1,2, Jiao Yanyan1,2, WANG Huiming1,2, LV Cheng1,2. (1.SINOPEC Key Laboratory of Geophysics, Jiangsu, Nanjing 211103, China; 2.SINOPEC Geophysical Research Institute, Jiangsu, Nanjing 211103, China)</p>	<p>Application of low-frequency vibrator in exploration of ultra-deep fractured vuggy reservoirs Wang Yanfeng1, Huang Youhui2, Chen Xueqiang1, Pei Guangping2, Duan Mengchuan1, Xu Kaichi2, Zhang Yan1. (1.BGP,CNPC, Korla, Xinjiang. 2.CNPC Tarim Petroleum)</p>	<p>Post-stack weak signal recovery based on improved BM3D Kai Jiao, Mi Zhang* China University of Petroleum - Beijing at Karamay</p>
19:30 - 20:30	Dinner		
		Wednesday, 5 June	<i>Tarim Oilfield R & D Center</i>
10:00 - 12:00	<p>Session 7: Seismic and GEM techniques in ultra-deep wells <i>Chairs: TBD</i> Location: Lecture Hall</p>	<p>Session 8: Prediction of ultra-deep heterogeneous reservoirs and hydrocarbon detection techniques <i>Chairs: TBD</i> Location: Meeting Room 2A</p>	<p>Session 9: Ultra-deep velocity modeling and migration imaging technology <i>Chairs: TBD</i> Location: Meeting Room 2C</p>
10:00 - 10:20	<p>Application of high precision gravity and magnetic in the study of strike-slip fault in Kubei-Kangcun area Zhao Wenju1*, Wang Yang2, Xu Kaichi2, Li Jianli2, Zhang Pengyue1. (1.CNPC, BGP, Zhuozhou; 2.CNPC, Tarim Oilfield, Korla)</p>	<p>Seismic sedimentology study of facies and reservoir in a Cambrian carbonate platform-to-basin area, Tarim Basin, China: Inspiration from the Florida Keys Zhaohui XU1*, Hongliu ZENG2, Suyun HU1, Junlong ZHANG3, Wei LIU1, Hongying ZHOU1, Debo MA1, Qilong FU2. (1.PetroChina Research Institute of Petroleum Exploration and Development, Beijing 100083, China; 2.Bureau of Economic Geology, Jackson School of Geosciences, The University of Texas at Austin, Austin 78713, USA; 3.Research Institute of Petroleum Exploration & Development, PetroChina Daqing Oilfield Company, Daqing 163712, China)</p>	<p>TTI Anisotropic First Arrival Tomography Inversion and Its Application in the XQ-3D dataset Haijun Yang1, Liansheng Liu2*, Jian Li2, Long Qin1, Wenyang Li1, Yongjun Li1. 1.Tarim Oilfield Company, CNPC, Korla, China. 2.PanImaging Software Development Ltd., Beijing, China.</p>
10:20 - 10:40	<p>Application of MT data in the study of ultra-deep basement structure of Precambrian in Tarim basin Wei wei*, Tarim Oilfield, CNPC; Hu Zuzhi, BGP, CNPC; Zhang Zhen, Tarim Oilfield, CNPC; Zhang Hongqiang, Xu Shichao, Zhang Rongxin, BGP, CNPC</p>	<p>AI-based 3D Seismic Prediction of Ultra-deep Carbonate Karst Reservoir -- Case Study of Tazhong Area in Tarim Basin Wu Jiangyong1, Wang Gaige2*, Cheng Zhao1, Tong Yanming2, Zhou Jie1, Wu Chuan2, Li Shengqian1, Yang Pin2. (1 Tarim Research Institute of Petroleum Exploration & Development, Korla; 2 Schlumberger Technology Service (Beijing) Co. Ltd)</p>	<p>Efficient pure qP-wave reverse time migration for tilted transversely isotropic media Jianping Huang*, Qiang Mao, Zixiao Zhang. Geosciences Department, China University of Petroleum (East China)</p>
10:40 - 11:00	<p>Application of TFEM method in ultra-deep oil and gas exploration Sun Weibin*1, Li Dajun2, Xu Kaichi2, Li Jianli2, Xu Shichao1, 1 BGP CNPC, 2 Resource Exploration Department of Tarim Oil & gas Company</p>	<p>Prestack prediction of ultra-deep heterogeneous reservoirs in Shunbei area Weijia Fan*, Jun Li, Chunyu Liu, Jianli Yang, Elsiwave Reservoir; Chao Huang, Qun Chen, Northwest Oilfield Branch Company, SINOPEC</p>	<p>Study on Low-relief structure imaging based on DWT and multi-well constraint joint modeling Li Li-sheng*, Ye Yue-ming, Zhang Ying, Wang Zhao-qi, Chen Jian-wei; Petrochina Hangzhou Research Institute of Geology</p>

11:00 - 11:20	<p>Seismic multiple identification and suppression for ultra-deep hydrocarbon exploration: ZVSP case study Tengyu Wang*1, Hao Chen2, Zhen Zhang1, Hanpeng Cai2, Yang Wang1, Luzhong Huang1. (1.CNPC, Exploration and Development Institution of Tarim Oilfield; 2.Chengdu AIWebest Technology Co., LTD; 3.School of Resources and Environment and Center for Information Geoscience)</p>	<p>Seismic response analysis of karst reservoirs: A case study on a typical carbonate-karst reservoir model of the Tarim Basin Sheng Yang*1, Xuri Huang1, Wen Xiao2, Kai Li3, Yezheng Hu1. (1.School of Geosciences and Technology, Southwest Petroleum University, Chengdu, 610500, China; 2.Tarim Oilfield Company, PetroChina, Korla, Xinjiang 841000, China; 3.SINOPEC Geophysical Research Institute Co.,Ltd, Nanjing, 211103, China)</p>	<p>Structure modeling technology based on well calibration and digital geological outcrops Wei Zhang1, Ruiqing Hu1*, Jiading Pei1, Xiaoguang Liu1 1.BGP INC, CHINA NATIONAL PETROLEUM CORPORATION</p>
11:20 - 11:40	<p>Application of 3D gravity, magnetic and MT methods in the exploration of complex foothill belt in Kuqa Depression Hu Zuzhi*, BGP, CNPC; Li Dajun, Li Jianli, Tarim Oilfield, CNPC; Zhang Pengyue, Liu Juan, Meng Cuixian, Shi Yanling, BGP, CNPC</p>	<p>A new seismic inversion method based on Bayesian GASA algorithm Heng Liu 1, Ruiqing Hu 1*, Qing Li1, Kai Gao1, Lu Yu1 1.BGP INC, CHINA NATIONAL PETROLEUM CORPORATION</p>	<p>Research and Application of Eigen Wave Based Stereo Tomography for Macro Velocity Inversion Sun Xiaodong*1,2, Li Aowei1, Li Zhenchun1, Zhao Liang1. (1.National Key Laboratory of Deep Oil & gas, China University of Petroleum (East China), Qingdao, 266580, China; 2.Shandong Provincial Key Laboratory of Reservoir Geology, China University of Petroleum (East China), Qingdao, 266580, China)</p>
11:40 - 12:10	<p>Poster Session: Theory and methods of ultra-deep seismic detection, Ultra-deep fidelity denoising and weak signal recovery technology <i>Chairs: TBD</i></p>		<p>Coffee Break <i>Location: Foyer Area</i></p>
11:40 - 11:50	<p>An experiment on surface monitoring for fracturing microseismic of an ultra-deep well Wu Gang1, Cai Jiang2, Zhao YeWei3*, Liu MeiJuan1, Wang Dan3, Liang BeiYuan4 (1.PetroChina HuaBei Oilfield, Renqiu, 065700, China. 2.Test Branch of PetroChina BoHai Drilling, LangFang, 065007, China. 3.ChenYu Group of PanJin Liaoyou, PanJin, 124011, China. 4.GeolImage LLC, CA 94118, USA)</p>	<p>Broadband solutions for ultra-deep imaging: theory and experience in China and in the world Lv Shuying, Philippe Hermann, Nicolas Tellier, and Shuki Ronen*</p>	<p>High fidelity denoising technology for vibrator in Shunzhong Desert of Tarim Basin Mo Yangang, Zhang Yuan, Liu Laixiang, Liu Zhiyuan (1.Sinopec Petroleum Exploration and Development Research Institute, 100020, Beijing, China)</p>
11:50 - 12:00	<p>Variable frequency four-dimensional seismic technology Yang Xuefeng1, Zhao Shengxian 1, Liu Shaojun 1, Li Guo 2, Li Zishun 2,3, Lei Yue 1 (1.Shale Gas Exploration and Development Research Institute of PetroChina Southwest Oil and Gas Field Branch; 2.Naswi Petroleum Technology (Chengdu) Co., Ltd; 3. Exploration and Development Research Institute of PetroChina Daqing Oilfield Co., Ltd)</p>	<p>Research and application of "3Q" high-resolution processing technology Yang Shanshan*12, Zhao Ruihui12, Jiang Yang12, Li Yongjun12, Sun Haijun12. 1. Research Institute of Exploration and Development, Tarim Oilfield Company, PetroChina; 2. R & D Center for Ultra-Deep Complex Reservoir Exploration and Development, CNPC</p>	<p>Seismic data frequency improvement method based on LR neural network Li* Hong, Cao Junxing, College of Geophysics, Chengdu University of Technology, Chengdu 610059</p>
12:00 - 12:10	<p>5D Data Reconstruction in Radial Domain in DiBei area Dang QingNing, Duan WenSheng, Zuo AnXin, Qin Long, Zhou Chang (Tarim Oilfield Company, Korla, Xinjiang)</p>		
12:10 - 13:50	<p>Session 10: Ultra-deep land seismic acquisition technology (including near surface), Ultra-deep fidelity denoising and weak signal recovery technology <i>Chairs: TBD</i> <i>Location: Lecture Hall</i></p>	<p>Session 11: Prediction of ultra-deep heterogeneous reservoirs and hydrocarbon detection techniques <i>Chairs: TBD</i> <i>Location: Meeting Room 2A</i></p>	<p>Session 12: Ultra-deep velocity modeling and migration imaging technology <i>Chairs: TBD</i> <i>Location: Meeting Room 2C</i></p>
12:10 - 12:30	<p>Key technologies and application effect for complex surface seismic acquisition in the Kuqa Depression of Tarim Basin He Wei*, Hu Shanzheng, Jing Longjiang, Geng Chun, Xiao Wei, Du Junguo, Liu Jun, Hu Qi. Southwest Geophysical Branch, BGP Inc., China National Petroleum Corporation.</p>	<p>Calculation of Natural Fractures within Carbonate Rock Formations by Using Continuum Damage Mechanics and Its Application in Shunbei Oilfield Xinpu Shen China University of Petroleum (Beijing), Beijing, China</p>	<p>Integrated Interpretation for Upholes and Small-refraction Data Based on Tomography Inversion Qiaoli Liang1*, Ganglin Lei2, Liansheng Liu2, Jingrong Lai2, Chang Zhou2, Yang Jiang2. (1.PanImaging Software Development Ltd., Beijing, China. 2.Tarim Oilfield Company, CNPC, Korla, China)</p>

12:30 - 12:50	<p>Analysis of factors related to acquisition for deep target exploration Rongwei Xu*, Huazhong Wang, Bo Feng, Chengliang Wu Wave Phenomena and Intelligent Inversion Imaging Group (WPI), School of Ocean and Earth Science, Tongji University, Shanghai, 200092, China</p>	<p>Highlighted ultra-deep seismic low-frequency components via the adaptive W transform Liyu Zhang*, Hanpeng Cai, Zhiwei Zhang, Wandu Ma. School of Resources and Environment, University of Electronic Science and Technology of China (UESTC). Mingjun Su, Cheng Yuan, Research Institute of Petroleum Exploration and Development-Northwest (NWGI), PetroChina.</p>	<p>Research and Application of Super deep "True" Surface Prestack Depth Migration Technology in Double Complex Area of the Southern Junggar Basin Chen Jianwei1, Meng He1, Chen Xiguang1, Ye Yueming1, Zhang Chunyan1, Yao Maomin2, Song Zhihua2. (1 PetroChina Hangzhou Research Institute of Geology, Hangzhou 310023, China; 2 PetroChina Xinjiang Oilfield Company, Karamay 834000, China)</p>
12:50 - 13:10	<p>Application of Compressed Sensing Technology in Seismic Data Processing: A Case Study Using Data from the Tarim Block Wang Deying1,2, Su Qin1,3, Zeng Huahui1, Zhang Kai2, Kou Long-jiang1, Jin Baozhong1. (1.Research Institute of Petroleum Exploration & Development-Northwest (NWGI), PetroChina, Lanzhou City, Gansu Province, 730000; 2.China University of Petroleum (East China), Qingdao City, Shandong Province, 266000; 3.University of Electronic Science and Technology of China, Chengdu City, Sichuan Province, 610000)</p>	<p>Application of multi-attribute constrained prestack wide-azimuth fracture prediction technology in the Yingmai 2 area Yongjian Zeng, and Zhaoyun Zong, National Key Laboratory of Deep Oil and Gas, China University of petroleum (East China), Qingdao, China; Pilot National Laboratory for Marine Science and Technology, Qingdao, China; Tianwei Du*, Kunlun Digital Technology Co., Ltd, Beijing, China; Hongliang Gao, Yu Liu, and Meichun Yang, Exploration and Development Research Institute, PetroChina Tarim Oilfield Company, Xinjiang, China; Nan Yan, LunNan Oil and Gas Extraction Management Department, PetroChina Tarim Oilfield Company, Xinjiang, China.</p>	<p>Application of True Topography Reverse Time Migration in Western Sichuan YANG Tao* ,TANG Dahai, WANG Xuli, RAN Lijun, FU Xin, SUN Zhiyun , LIU bai, XIE Geyun (Northwest Sichuan Gas Division, PrtroChina Southwest Oil and Gas Field Company, Jiangyou, Sichuan6217412, China)</p>
13:10 - 13:30	<p>Removing environmental noise from node instrument data Xiaobin Li*, Qiaomu Qi, Chengdu University of Technology, College of Geophysics; Zhonglin Cao, Pengfei Duan, BGP, CNPC</p>	<p>The study of fault detection technique based on deep learning: A case study in Tarim Basin, NW China Bo Liu*1,2,3, Fengying Yang1,2,3, Suo Cheng1,2,3, Duoming Zheng1,2,3, Xin Wang1,2,3 1 Tarim Oilfield Company, PetroChina. 2 R & D Center for Ultra-Deep Complex Reservoir Exploration and Development, CNPC. 3 Engineering Research Center for Ultra-deep Complex Reservoir Exploration and 3 Development, Xinjiang Uyгур Autonomous Region.</p>	<p>Application of New Pre-stack Depth Migration Technology in the Tarim Kuche Deep Area Qie Shuhai1, Wang Deying1,2, Yong Yundong1, Liu Wenqing1, Zhao Yuhe1. (1.Research Institute of Petroleum Exploration & Development-Northwest (NWGI), PetroChina, Lanzhou City, Gansu Province, 730000; 2.China University of Petroleum (East China), Qingdao City,Shandong Province, 266000)</p>
13:30 -13:50	<p>Q-factor estimation of Ultra-deep rock using inversion algorithm with power spectrum centroid frequency shift Guanlei Zhang*, Hanpeng Cai, Ting Chen, Jianqiang Huang. School of Resources and Environment, University of Electronic Science and Technology of China; Tengyu Wang, Zhen Zhang, Research Institute of Exploration and Development, Tarim Oilfield Company, PetroChina.</p>	<p>Identify lens-shaped reef beach reservoirs By Broadband ultra high-resolution seismic In Gucheng gas field of Tarim Basin Li Zishun 1, 3, Wang Yuhua 2, Li Qiang 3, Li Zhenchun 4, Sun Shan 3, Xu Zhengwei 5, Li Guo1 (1. Naswe Petroleum Technology (Chengdu) Co. Ltd; 2. PetroChina Oil and Gas and New Energy Company; 3. Daqing Oilfield Exploration and Development Research Institute; 4. China University of Petroleum (East China); 5. Chengdu University of Technology)</p>	<p>Velocity modeling of joint tomography with reflection and first-break in complex mountain areas and its application Chen Yangyang*1,2, Peng Gengxin1,2, Liu Zhengwen1,2, Zhao Ruirui1,2, Wu Yubing1,2, Zhao Yingjie1,2. (1.Research Institute of Exploration and Development, Tarim Oilfield Company, PetroChina; 2.R & D Center for Ultra-Deep Complex Reservoir Exploration and Development, CNPC)</p>
13:50 - 16:00	Lunch		
16:10 - 17:30	<p>Session 13: Ultra-deep fidelity denoising and weak signal recovery technology, Ultra-deep velocity modeling and migration imaging technology <i>Chairs: TBD</i> Location: Lecture Hall</p>	<p>Session 14: Prediction of ultra-deep heterogeneous reservoirs and hydrocarbon detection techniques <i>Chairs: TBD</i> Location: Meeting Room 2A</p>	<p>Session 15: Ultra-deep velocity modeling and migration imaging technology <i>Chairs: TBD</i> Location: Meeting Room 2C</p>
16:10 - 16:30	<p>Key techniques and application of amplitude preserving and high resolution seismic data processing in dune area of the Maigaiti slope, Tarim Basin Cui Lei, Chen Xiangfei*, Zhao Bo, Zhou Chenggang, Liu Jun, Chen Lu, Wang Chunyang, Liu Jun, BGP, CNPC</p>	<p>Full 3D Characterization of Ultra-deep Carbonate Fracture-cave System with Combined AI and Geomodelling Technology in Tarim Basin Cheng Zhao1, Tong Yanming2*, Wu Jianguyong1, Wu Chuan2, Li Shengqian1, Wang Gaige2, Zhou Jie1,Tang chenqing2. (1 Tarim Research Institute of Petroleum Exploration & Development, Korla; 2 Schlumberger Technology Service (Beijing) Co. Ltd.)</p>	<p>Three-Step Decoupling Solution for TTI Anisotropic First Arrival Tomography Inversion Jian Li1*, Gengxin Peng2, Liansheng Liu1, Xingjun Wang2, Yaotang Zhang2, Jingya Lu2. (1.PanImaging Software Development Ltd., Beijing, China; 2.Tarim Oilfield Company, CNPC, Korla, China)</p>

16:30 - 16:50	<p>Prestack Random and Coherent Noise Simultaneous Attenuation Based on 3D CWT Xiaokai Wang*, Dawei Liu, Wenchao Chen, Xi'an Jiaotong University, Xi'an, China Xiaohai Yang, Haibo Mao, PetroChina Xinjiang Oilfield Company, Urumqi, China</p>	<p>Structural Tensor-Based Active Contour Method for 3D Carving of Fractured-Cavity Reservoirs Siyao Li*¹, Xuri Huang¹, Shuhang Tang¹ ¹School of Geosciences and Technology, Southwest Petroleum University, China</p>	<p>A Multi-sensory Field Distillation Network for Seismic Velocity Model Building Jing Lu, Chunlei Wu*, Ran Li, Huan Zhang, Wengqi Zhao. College of Computer Science and Technology, China University of Petroleum (East China), Qingdao, China</p>
16:50 - 17:10	<p>Piedmont imbricated first break static correction and surface modeling method Kong Fanyong*, Xia Jianjun, Zon Simeng, Wang Liye, and Yu Jinlin. BGP, CNPC</p>	<p>Mesozoic Structure character of Yangxia sag, Kuqa Foredeep Ding Wei¹, Li Jibai^{2*}, Zhou Xiongbo², Li Zhifang², Yang Qingdao², Li Hao², Luo Zhangqing², Liu Chuanshan², Hu Jianhui², Tan Daiyin², Chen Mingchun². (1 Northwest Oil-Field Company, SINOPEC, Urumqi, Xingjiang; 2 South branch of Sinopec geophysical company, Chengdu, Sichuan)</p>	<p>A Model Study about migration Velocity for Complicated Structures Zhang Shan, Nanjing Geoknow Technology Co., Ltd., China</p>
17:10 - 17:30	<p>Karst reservoir characterization based on vertical seismic-profile data local full-waveform inversion Kai Li^{1,2}, Lixin Wang¹, Xuri Huang², Zhenhao Sun¹, Shan Zhou¹ and Xiaochun Chen². (1. SINOPEC Geophysical Research Institute Co., Ltd., China; 2. School of Geoscience and Technology, Southwest Petroleum University, China)</p>	<p>Crack detection for superdeep complex structure sandstone reservoirs with low porosity and low permeability from 3D seismic data Jian Shikai^{*1,2,3,4}, Peng Gengxin^{1,2,3}, Fu Liyun⁴, Tang Yongliang^{1,2,3}, Duan Wensheng^{1,2,3}, Cheng Suo^{1,2,3}, Zheng Duoming^{1,2,3}, Tian Haonan^{1,2,3}, Zhao Guangliang^{1,2,3}, and Wang Xin^{1,2,3}. (1.Tarim Oilfield Company, CNPC, Korla, China; 2.R&D Center for Ultra-Deep Complex Reservoir Exploration and Development Technology, CNPC, Korla, China; 3.Engineering Research Center for Ultra-Deep Complex Reservoir Exploration and Development, Xinjiang, China; 4.National Key Laboratory of Deep Oil and Gas, China University of Petroleum (East China), Qingdao, China)</p>	<p>Revealing the reservoir underneath volcanic rocks and folding structures in the Liaohé basin Botao Li^{1*}, Peipei Deng¹, Wei Yan¹, Qiwei Zou², Dongwei Zhang², Tong Bai², Kang Liu² ¹ CGG, ² CNPC</p>
17:30 - 17:50	<p>Poster Session: Ultra-deep velocity modeling and migration imaging technology <i>Chairs: TBD</i></p>		<p>Coffee Break <i>Location: Foyer Area</i></p>
17:30 - 17:40	<p>A finite-difference-solved Q-compensated reverse time migration imaging method Jianping Huang*, Xinru Mu, China University of Petroleum (East China), Qingdao, China</p>	<p>The Application research of an integrated velocity modeling method Shuai Yan*, R & D Center of Science and Technology, Sinopec Geophysical Corporation</p>	<p>Target-oriented Data-domain Least Squares Reverse Time Migration Kai Chen*, Yezheng Hu, Xuri Huang, Southwest Petroleum University</p>
17:40 - 17:50	<p>High-resolution background model building for ultra-deep structures based on wavefield reconstruction inversion Yuzhao Lin*, Ocean University of China, Huaishan Liu, Ocean University of China, Kai Zhang, China University of Petroleum (East China), Lei Xing, Ocean University of China, Hehao Tang, Ocean University of China, and Jinghao Li, Ocean University of China</p>	<p>RTM of VSP data technique based on LS-SFD method Ruiqing Hu^{1*}, Kai Gao¹, Qing Li¹, Yiming Zhang¹, Longmei Li¹ ¹.BGP INC, CHINA NATIONAL PETROLEUM CORPORATION</p>	<p>Multi-focus imaging technology with a highly complex structure Zhang liyan*, Li Ang, Yin Wen, Zhang Zhensheng, Ren Yapeng. (China University of Petroleum (Beijing) at Karamay, Karamay, 83400, Xinjiang ,China)</p>

17:50- 18:50	Session 16: Reservoir prediction & detection techniques, Ultra-deep fidelity denoising and weak signal recovery technology <i>Chairs: TBD</i> Location: Lecture Hall	Session 17: Ultra-deep fidelity denoising and weak signal recovery technology, Ultra-deep velocity modeling and migration imaging technology <i>Chairs: TBD</i> Location: Meeting Room 2A	Session 18: Ultra-deep velocity modeling and migration imaging technology <i>Chairs: TBD</i> Location: Meeting Room 2C
17:50 - 18:10	Identification of ultra-deep fracture cavity using pre-stack seismic gradient-texture pattern constrained by stratigraphic structure Zhiwei Zhang*, Hanpeng Cai, Liyu Zhang, Yaojun Wang, School of Resources and Environment, UESTC. Kang Chen, Da Peng, Research Institute of Exploration and Development, Southwest Oil & Gas Field Company, PetroChina.	Application of 5D matching pursuit Fourier interpolation technology in complex mountain 3D seismic data processing Junjie He1, Ruiqing Hu1*, Xiaoli Zhang1, Nengxue Gao1, Sining Zhang 1 1.BGP INC, CHINA NATIONAL PETROLEUM CORPORATION	Study on Velocity Modeling in Depth Domain of Double Complicated Region in Southwest Tarim Basin Jing Wang*, Jiaqing Sun, Shuhai Qie and Junfa Xie, Research Institute of Petroleum Exploration & Development-Northwest (NWGI), Petrochina
18:10 - 18:30	Application of Ocean Bottom Nodes Technology In The Prediction of Sub-salt Ultra-deep Carbonate Reservoirs Chunyuan Bai1, Yungui Xu*1, Siwen Wang2, Hongping Wang2, Guoping Zuo2, Xuri Huang1 1.School of Geoscience and Technology, Southwest Petroleum University, Chengdu, 610500, China 2.Petro China Hangzhou Research Institute of Geology, Hangzhou, 310023, China	A Near-Surface Q Value Prediction Method Based on Neural Network Algorithm Chaofeng Zhao*, Wei Zhang, Jianyu Zhao, Jiantao Tian, Yanjun Chen. BGP Inc., CNPC, Zhuozhou, Hebei, 072751, China	High precision velocity modeling technology for Tarim deep fault controlled reservoirs Zhang Yuan, Mo Yangang, Wei Zhefeng, Jiang Dajian, Liu Zhiyuan. (1. Sinopec Petroleum Exploration and Development Research Institute.Beijing100020)
18:30 - 18:50	Vibroseis sweep signal design method based on customized high-resolution wavelet Zhenbo Nie*, Huazhong Wang, and Shen Sheng Wave Phenomenon and Intelligent Inversion Imaging group (WPI), School of Ocean and Earth Science, Tongji University, Shanghai, 200092, China.	Reflection waveform inversion driven by least-squares redatuming for seismic imaging in ultra-deep oil and gas fields Jiubing Cheng*, Tengfei Wang, Sihai Wu, Feng Zhu and Jianhua Geng, School of Ocean & Earth Science, Tongji University	Application of different first-arrival tomography in thick undulating low-velocity layers Chen Lu1, ZhangYiming1*, Hu Ruiqing1, Gu Xiaodi1, Zhang Xiaoli1, Gao Nengxue1 1.BGP INC , CHINA NATIONAL PETROLEUM CORPORAATION
18:50 -19:10	The application of facies controlled well-seismic joint Bayesian geo-modeling method to the Karst reservoirs of the Tarim Basin Zelei Jiang*1, Xuri Huang1, Kai Li1,2, Wen Xiao3, Yezheng Hu1. (1.School of Geosciences and Technology, Southwest Petroleum University, Chengdu, 610500, China; 2.SINOPEC Geophysical Research Institute Co., Ltd, Nanjing, 21000, China; 3.Research Institute of Exploration and Development, PetroChina Tarim Oilfield Branch Company. Korla, 841000, China)	Application high-resolution stacking imaging for ultra-deep exploration in Tarim Basin Chengliang Wu*1,2, Huazhong Wang1,2, Bo Feng1,2, Rongwei Xu2, Sheng Shen2, Longxiang Han2 1: State Key Laboratory of Marine Geology, School of Ocean and Earth Science, Tongji University, Shanghai 200092, China 2: Wave Phenomena and Intelligent Inversion Imaging Group (WPI), School of Ocean and Earth Science, Tongji University, Shanghai, 200092, China	Velocity fusion processing and trap implementation of pre-stack depth migration in kuqa area <i>Degang Jin</i>
19:10 -19:30	Closing Session: Conclusion & Awarding <i>Chairs: TBD</i>		<i>Location: Lecture Hall</i>
19:30 - 20:30	Dinner		