

2026 SEG 2nd Workshop on Fiber Optics Sensing
Shenzhen · China
Meeting Schedule

11 September 2026, Friday

Opening Ceremony
Moderator: Gang Yu

08:30-08:35	Opening Remarks: TBD	TBD
08:35-08:40	Opening Remarks: Representative of the Workshop Chairman	Arthur Cheng, The Chinese University of Hong Kong (CUHK)
08:40-08:45	Opening Remarks: Representative of the Workshop Chairman	Hong Cao, BGP Inc., CNPC
08:45-08:50	Opening Remarks: Representative of CNPC	Bangliu Zhao, China National Petroleum Corporation Consulting Center

Session 1: Opening Ceremony/Keynote & Invited Speaker Presentation
Session Chair:

Time	Title	Presenter
08:50-09:15	Keynote Speaker 1: The DAS Gauge Length Effect: Signal Detection Versus Characterization	Mark Willis, Independent Consultant
09:15-09:40	Keynote Speaker 2: TBD	Zuyuan He, Shanghai Jiao Tong University
09:40-10:00	Keynote Speaker 3: TBD	Baoshan Wang, University of Science and Technology of China
10:00-10:25	Group Photo & Coffee Break	
10:25-10:50	Invited Speaker 1: Assessing the Potential of Distributed Fiber-Optic Sensing Networks for the Detection and Monitoring of Earthquake Precursors	Yingping Li, BlueSkyDas LLC & University of Houston
10:50-11:15	Invited Speaker 2: High-Precision Fiber-Optic Interferometric Vibration Sensing for Oil and Gas Seismic Exploration	Zhilin Xu, Huazhong University of Science and Technology, HUST
11:15-11:40	Invited Speaker 3: AI-Driven Distributed Acoustic Sensing Technology and Industrial Applications	Shao Liyang, Southern University of Science and Technology
11:40-13:00	Lunch	

11 September 2026, Friday

Session 2: Advances in Fiber Optic Sensing/Well Completions, Subsea Installations and long-term monitoring/Fiber Optics in Energy Transition
Session Chair:

14:00-14:20	Development and Experimental Validation of a Fiber-Optic OBC System	Junguang Nie, Beijing Shenzhou Puhui Technology Co., Ltd., Beijing
14:20-14:40	Multi-Fracture Inversion via Distributed Strain Sensing: A Case Study of HFTS Offset Wells	Qinzhuo Liao, China University of Petroleum (Beijing)
14:40-15:00	Research on Fiber Optic Pressure Gauge Monitoring Technology in Horizontal Wells Using a Retrievable Sleeve Completion System	LIU Xianbo, Research Institute of Oil and Gas Technology, Changqing Oilfield Company, PetroChina
15:00-15:20	Experimental study on acoustic response law of horizontal wells with two-phase flow	Xinyi Zhang, Southwest Petroleum University
15:20-15:40	A Reciprocal Fiber-Optic Differential Interferometer for Seismic Monitoring Applications	Haoyan Liu, Peking University
15:40-16:00	Coffee Break & Poster Presentation	
16:00-16:20	Phase-Modulated Continuous Wave Distributed Fiber Acoustic Sensor	Yu Wang, Taiyuan University of Technology
16:20-16:40	Application of FBG-Based and Conventional Fiber-Optic DAS-VSP in Surface-Borehole Joint Acquisition	Sheng Liu, Optical science& technology (Chengdu) Ltd. Co., BGP., CNPC
16:40-17:00	Reconstruction of Hydraulic Fracture Growth Process Using Distributed Acoustic Sensing: Method and Field Application	Wan'er Hou, SINOPEC Geophysical Research Institute Co., Ltd
17:00-17:20	Advances in the Application of Distributed Optical Fiber in CCUS Wells	Zhen Liu, Optical science& technology (Chengdu) Ltd. Co., BGP., CNPC
17:20-17:40	Noise Prior-Guided Deep Learning Network for Background Noise Suppression in DAS-VSP	Wei Wang, Research Institute of Petroleum Exploration & Development-Northwest, PetroChina
17:40-19:00	Dinner	
12 September 2026, Saturday		
Session 3: DAS Data Management, Simulation, Processing and AI Session Chair:		
Time	Title	Presenter
08:30-08:50	Modeling DAS seismic responses with optical-system effects	Yi Yao, Institute of Geology and Geophysics, CAS
08:50-09:10	Research and Application of a Semi-Supervised First-Break Picking Method for DAS-VSP Data Based on Hierarchical Attention Mechanism and SAM Large Model Fine-Tuning	Yuanzhong Chen, Optical science& technology (Chengdu) Ltd. Co., BGP., CNPC
09:10-09:30	Production Profile Interpretation of Horizontal Well from Distributed Acoustic Sensing (DAS)	Tingting Zhou, Southwest Petroleum University

09:30-09:50	Deep learning based wavefield separation method for DAS-VSP data	Gang Feng , Research Institute of Petroleum Exploration and Development-Northwest (NWGI), PetroChina
09:50-10:10	Compression of Distributed Acoustic Sensing Measurements Using Deep Learning	Xinyue Ma, China University of Geosciences, Beijing
10:10-10:30	Coffee Break & Poster Presentation	
10:30-10:50	Dual domain generative adversarial network for DAS microseismic data noise suppression	Jie Shao, Institute of Geology and Geophysics, CAS
10:50-11:10	Morphology-Edge Detection for DAS-VSP First-Break Picking	Fei Gao, Research Institute of Petroleum Exploration and Development-northwest (NWGI), Petrochina
11:10-11:30	A Modeling Method of Distributed Acoustic Sensing for Multiphase Flow Monitoring in Natural Gas Hydrate Production Test Wells	Xuemin Wu, Guangzhou Marine Geological Survey, China Geological Survey, Guangzhou
11:30-11:50	A Compressed Sensing-Based Reconstruction Technique for DAS-VSP Data	Weijie Liu, Research Institute of Petroleum Exploration and Development-northwest (NWGI), Petrochina
11:50-13:00	Lunch	
12 September 2026, Saturday		
Session 4: Imaging and Monitoring Session Chair:		
13:40-14:00	Subsurface imaging and full waveform inversion using distributed acoustic sensing (DAS) data	Kunpeng Liao , Viridien
14:00-14:20	Evaluating the performance limits of DAS VSP versus 3C point sensors on hybrid wireline	Sebastien Soulas, AVALON SCIENCES LTD
14:20-14:40	Monitoring Fluid Acoustic-Velocity Profiles Using Distributed Acoustic Sensing and a Pumping-Unit Vibration Source	Xin Wang, Geological Research Institute, China National Logging Corporation
14:40-15:00	A Research on DAS-SOV Technology in Hydraulic Fracturing Monitoring for Deep Shale Gas	Fu Xu, Optical science& technology (Chengdu) Ltd. Co., BGP., CNPC
15:00-15:20	FBG Strain Monitoring Combined with Acoustic Emission for Hydraulic Fracturing Process Evaluation	Yingying Xu, China University of Petroleum (Beijing)
15:20-15:40	Coffee Break & Poster Presentation	

Session 5: Field Applications and Application Studies

Session Chair:

15:40-16:00	Development and Field Application of DAS Microseismic Monitoring System for Ultra-Deep Wells	Jianrong Lu, China University of Mining and Technology
16:00-16:20	Distributed Acoustic Sensing in Laboratory-Scale Tank Experiments	CHAN, Yuen Yee, The Chinese University of Hong Kong
16:20-16:40	Evaluation of Non-Uniform Conductive Fracture Networks in Shale Reservoirs Jointly Constrained by Fiber-Optic and Microseismic Data	Gang Hui, China University of Petroleum (Beijing)
16:40-17:00	Application and Research on Fiber-Optic VSP in Deep Shale Gas	Yu Wang, Optical science& technology (Chengdu) Ltd. Co., BGP., CNPC
17:00-17:20	DAS-Based 3D Microseismic Monitoring in Mining Areas: A Case Study of Pingdingshan	Longxiang Yang, Henan Earthquake Agency
17:20-17:40	Application of Fiber-Optic & Microseismic Joint Monitoring in Deep Coalbed Methane Hydraulic Fracturing	Feng Heng, BGP
17:40-18:00	Closing & Award Ceremony	

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Poster Session				
11 September 2026, Friday, 15:40-16:00				
Session 1: Imaging and Monitoring Session Chair:				
Time	e-Screen	No.	Title	Presenter
15:40-15:45	1#	P01	An S-Wave Velocity Inversion Method Based on DAS Data	Jiji Zhou, Tongji University
15:45-15:50	1#	P02	A Six-Component HVSR-Based Method for Single-Station Seismic Subsurface Imaging	Yuzheng Huang, Peking University
15:50-15:55	2#	P03	DTS-Based Inversion of Fiber-Optic Coupling Radial Distance in Downhole Environments	Junhao Hu, University of Chinese Academy of Sciences
12 September 2026, Saturday, 10:10-10:30				
Session 2: Fiber Optics in Energy Transition Session Chair:				
10:10-10:15	1#	P04	Application of DAS-VSP for CCUS Monitoring in Western China	Cai Zhidong, Optical science& technology (Chengdu) Ltd. Co., BGP., CNPC
10:15-10:20	1#	P05	Application Effectiveness of Fiber Optic Monitoring Technology in Shale Gas Development	Wei Zhou, Optical science& technology (Chengdu) Ltd. Co., BGP., CNPC
Session 3: DAS Data Management, Simulation, Processing and AI Session Chair:				
10:10-10:15	2#	P06	DAS versus Geophone VSP: Wavefield and Imaging Comparison	An Xie, University of Electronic Science and Technology of China
10:15-10:20	2#	P07	DAS-VSP Wavemode Tracking and Identification Enabled by Joint DTW-EKF and Deep Neural Networks	Yuanhang Wang, University of Electronic Science and Technology of China
10:20-10:25	2#	P08	Research on Self-Supervised Methods for First-Arrival Picking in DAS-VSP	Lide Wang, Research Institute of Petroleum Exploration and Development-Northwest (NWGI), PetroChina
12 September 2026, Saturday, 15:40-16:00				
Session 4: Environmental and Infrastructure Monitoring/Field Applications and Application Studies Session Chair:				
15:40-15:45	1#	P09	The 2026 Earthquake M 7.6 Generated Tsunami Warning in Molucca Sea: A Review	Admiral Musa Julius, Chengdu University of Technology
15:45-15:50	2#	P10	DAS testing of horizontal oil-water two-phase production profile based on Fosina DXS and two-phase flow algorithm	Xu Lian, Karamay Xianbo Technology Innovation and Incubation Co., Ltd.