

2026 SEG 第二届光纤传感技术研讨会 中国·深圳 会议日程		
2026年9月11日，周五，上午		
大会开幕式 主持人：余刚		
08:30-08:35	开幕致辞-TBD	
08:35-08:40	开幕致辞-大会主席代表	郑传汉，香港中文大学
08:40-08:45	开幕致辞-大会主席代表	曹宏，中国石油集团东方地球物理勘探有限责任公司
08:45-08:50	开幕致辞-中石油代表	赵邦六，中国石油天然气集团公司咨询中心
单元一：主旨报告 & 特邀报告 单元主席：		
时间	题目	报告人
08:50-09:15	主旨报告1：DAS标距长度效应：信号检测与表征	Mark Willis，独立顾问
09:15-09:40	主旨报告2：TBD	何祖源，上海交通大学
09:40-10:00	主旨报告3：TBD	王宝善，中国科学技术大学
10:00-10:25	集体合照，茶歇	
10:25-10:50	特邀报告1：分布式光纤传感网络用于地震前兆探测与监测的潜力评估	李应平，BlueSkyDas LLC & 休斯顿大学
10:50-11:15	特邀报告2：面向油气地震勘探的高精度光纤干涉振动测量研究	徐志林，华中科技大学
11:15-11:40	特邀报告3：TBD	邵理阳，南方科技大学
11:40-13:00	午餐	
2026年9月11日，周五，下午		
单元二：光纤传感技术进展/完井、海底设施及长期监测/光纤传感在能源转型中的应用 单元主席：		
14:00-14:20	光纤OBC研制进展和试验验证	聂俊光，北京神州普惠科技股份有限公司
14:20-14:40	基于分布式应变传感的多裂缝反演：HFTS 邻井案例研究	廖勤拙，中国石油大学（北京）
14:40-15:00	使用可回收套筒完井系统的水平井光纤压力计监测技术研究	刘先博，中国石油长庆油田分公司油气工艺研究院
15:00-15:20	两相流水平井声波响应规律实验研究	李海涛，西南石油大学
15:20-15:40	一种用于地震监测应用的互易型光纤差分干涉仪	刘昊炎，北京大学
15:40-16:00	茶歇 & 张贴报告	

16:00-16:20	调相连续波分布式光纤声波传感器	王宇，太原理工大学
16:20-16:40	光栅与传统光纤DAS-VSP在井地联采中的应用	刘晟，中油奥博（成都）科技有限公司
16:40-17:00	基于分布式声波传感的水力压裂裂缝扩展过程重构：方法与现场应用	侯琬儿，中石化石油物探技术研究院有限公司
17:00-17:20	分布式光纤在CCUS井中的应用进展	刘震，中油奥博（成都）科技有限公司
17:20-17:40	基于噪声先验引导深度学习的DAS-VSP背景噪声压制	王伟，中国石油勘探开发研究院西北分院
17:40-19:00	晚餐	
2026年9月12日，周六，上午		
单元三：DAS数据管理、模拟、处理与人工智能 单元主席：		
时间	题目	报告人
08:30-08:50	基于光学系统影响的DAS地震信号模拟	姚艺，中国科学院地质与地球物理研究所
08:50-09:10	DAS-VSP地震资料自监督智能化初至拾取方法研究	王立德，中国石油勘探开发研究院西北分院
09:10-09:30	基于DAS的水平井产出剖面反演解释	周婷婷，西南石油大学
09:30-09:50	基于深度学习的DAS-VSP数据波场分离方法	冯刚，中国石油勘探开发研究院西北分院
09:50-10:10	基于深度学习的分布式声学传感数据压缩	马新月，中国地质大学（北京）
10:10-10:30	集体合照，茶歇	
10:30-10:50	基于分层注意力机制与SAM大模型微调的DAS-VSP初至波半监督拾取方法研究与应用	陈沅忠，中油奥博（成都）科技有限公司
10:50-11:10	基于双域生成对抗网络的DAS微地震数据噪声压制	邵婕，中国科学院地质与地球物理研究所
11:10-11:30	基于数学形态学与边缘检测结合的DAS-VSP初至拾取方法	高菲，中国石油勘探开发研究院西北分院
11:30-11:50	一种用于天然气水合物生产测试井中多相流监测的分布式声学传感建模方法	吴学敏，广州海洋地质调查局
11:50-12:10	一种基于压缩感知的VSP数据重建技术	刘伟杰，中国石油勘探开发研究院西北分院
12:10-13:00	午餐	
2026年9月12日，周六，下午		
单元四：成像与监测技术 单元主席：		
13:40-14:00	基于分布式声学传感（DAS）数据的地下成像与全波形反演	廖鲲鹏，Viridien
14:00-14:20	评估混合电缆下 DAS VSP 与三分量点式传感器的性能极限	Sebastien Soulas, AVALON SCIENCES LTD
14:20-14:40	基于抽油泵震源的流体声速剖面分布式光纤监测方法研究	王鑫，中国石油测井有限公司

14:40-15:00	DAS-SOV技术在深层页岩气压裂监测中的探索研究	许付, 中油奥博（成都）科技有限公司
15:00-15:20	FBG应变监测联合声发射技术在水力压裂过程评价中的应用	徐滢滢, 中国石油大学（北京）
15:20-15:40	茶歇 & 张贴报告	
单元五：现场应用与案例研究 单元主席：		
15:40-16:00	超深井DAS微震监测系统研发与现场应用	鲁建荣, 中国矿业大学
16:00-16:20	分布式光纤传感技术在实验室尺度水缸实验的应用	陳琬兒, 香港中文大學
16:20-16:40	光纤-微地震联合约束的页岩储层非均匀导流缝网评价	惠钢, 中国石油大学（北京）
16:40-17:00	光纤VSP在深层页岩气的应用研究	王渝, 中油奥博（成都）科技有限公司
17:00-17:20	基于分布式声学传感的矿区三维微震监测：以平顶山为例	杨龙翔, 河南省地震局
17:20-17:40	微地震光纤联合监测技术在煤岩气压裂中的应用	衡峰, 中油奥博（成都）科技有限公司
17:40-18:00	闭幕式 & 颁奖	

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张贴报告				
2026年9月11日，周五，15:40-16:00				
单元主题1：成像与监测技术 单元主席：				
时间	显示屏编号	报告编号	题目	报告人
15:40-15:50	1#	P01	基于DAS数据的S波速度反演方法	周继继，同济大学
15:50-16:00	1#	P02	基于六分量HVSRR的单台站地下地震成像方法	黄征宇，北京大学
15:40-15:50	2#	P03	基于DTS的井下光纤径向距离反演	胡俊昊，中国科学院地质与地球物理研究所
15:50-16:00	2#	P04	岩质边坡含水状态电法探测技术	肖成玉，西南石油大学
2026年9月12日，周六，10:10-10:30				
单元主题2：光纤传感在能源转型中的应用 单元主席：				
10:10-10:20	1#	P05	DAS-VSP 技术在中国西部地区 CCUS 监测中的应用	蔡志东，中油奥博（成都）科技有限公司
10:20-10:30	1#	P06	光纤监测技术在页岩气开发中的应用成效	周慰，中油奥博（成都）科技有限公司
单元主题3：DAS数据管理、模拟、处理与人工智能 单元主席：				
10:10-10:20	2#	P07	分布式声波传感与常规检波器VSP对比：波场及成像特征比较	谢安，电子科技大学
10:20-10:30	2#	P08	基于DTW-EKF联合算法与深度神经网络的DAS-VSP波场追踪与识别	汪远航，电子科技大学
2026年9月12日，周六，15:40-16:00				
单元4：环境与基础设施监测/现场应用与案例研究 单元主席：				
15:40-15:50	1#	P09	2023年班达海Mw7.6级地震引发印度尼西亚马鲁古沿海海啸预警	Admiral Musa Julius，成都理工大学
15:50-16:00	2#	P10	基于Fosina DXS分布式光纤传感系统与两相流算法的水平井油水两相产业剖面DAS监测技术研究	连旭，克拉玛依先博技术创新与孵化有限公司

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

11 September 2026, Friday

Opening Ceremony
Host: 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/Technical Co-chairs & 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: TBD	Liyang Shao, 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
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14:20-14:40	Multi-Fracture Inversion via Distributed Strain Sensing: A Case Study of HFTS Offset Wells	Qinzhao 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	Haitao Li, 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 on Self-Supervised Methods for First-Arrival Picking in DAS-VSP	Lide Wang, Research Institute of Petroleum Exploration and Development-Northwest (NWGI), PetroChina
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	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
10:50-11:10	Dual domain generative adversarial network for DAS microseismic data noise suppression	Jie Shao, Institute of Geology and Geophysics, CAS
11:10-11:30	Morphology-Edge Detection for DAS-VSP First-Break Picking	Fei Gao, Research Institute of Petroleum Exploration and Development-northwest (NWGI), Petrochina
11:30-11:50	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
11:50-12:10	A Compressed Sensing-Based Reconstruction Technique for DAS-VSP Data	Weijie Liu, Research Institute of Petroleum Exploration and Development-northwest (NWGI), Petrochina
12:10-13:00	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	

2026 SEG 2nd Workshop on Fiber Optics Sensing Shenzhen · China				
Poster Session				
11 September 2026, Friday, 15:40-16:00				
Session 1: Imaging and Monitoring Session Chair:				
Time	e-Screen	No.	Title	Presenter
15:40-15:50	1#	P01	An S-Wave Velocity Inversion Method Based on DAS Data	Jiji Zhou, Tongji University
15:50-16:00	1#	P02	A Six-Component HVSR-Based Method for Single-Station Seismic Subsurface Imaging	Yuzheng Huang, Peking University
15:40-15:50	2#	P03	DTS-Based Inversion of Fiber-Optic Coupling Radial Distance in Downhole Environments	Junhao Hu, University of Chinese Academy of Sciences
15:50-16:00	2#	P04	Electrical Resistivity Imaging Technique for Water Occurrence State Detection in Rock Slopes	Chengyu Xiao, Southwest Petroleum University
12 September 2026, Saturday, 10:10-10:30				
Session 2: Fiber Optics in Energy Transition Session Chair:				
10:10-10:20	1#	P05	Application of DAS-VSP for CCUS Monitoring in Western China	Cai Zhidong, Optical science& technology (Chengdu) Ltd. Co., BGP., CNPC
10:20-10:30	1#	P06	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:				
10:10-10:20	2#	P07	DAS versus Geophone VSP: Wavefield and Imaging Comparison	An Xie, University of Electronic Science and Technology of China
10:20-10:30	2#	P08	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
12 September 2026, Saturday, 15:40-16:00				
Session 4: Environmental and Infrastructure Monitoring/Field Applications and Application Studies Session Chair:				
15:40-15:50	1#	P09	The 2026 Earthquake M 7.6 Generated Tsunami Warning in Molucca Sea: A Review	Admiral Musa Julius, Chengdu University of Technology
15:50-16:00	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.