

 WORKSHOP	SEG 2 nd Workshop on Fiber Optics Sensing		
	SEG 第二届光纤传感技术研讨会		
	10–12 September 2026	Shenzhen, China	2026年9月10–12日 中国·深圳
Official Program		会议手册	


SOCIETY OF EXPLORATION
— GEOPHYSICISTS —
国际勘探地球物理学家学会



SEG中国微信公众号

SEG 中国

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ATTENDING INSTRUCTION
参会须知

Onsite Registration

现场注册/报到

- 10 September 2026, 09:00-18:00, Grand Skylight International Hotel Haoyue
- 11 September 2026, 07:00-16:00, Grand Skylight International Hotel Haoyue
- 12 September 2026, 08:00-12:00, Grand Skylight International Hotel Haoyue
- 9月10日, 09:00-18:00, 深圳濠悦格兰云天国际酒店
- 9月11日, 07:00-16:00, 深圳濠悦格兰云天国际酒店
- 9月12日, 08:00-12:00, 深圳濠悦格兰云天国际酒店

Meeting Venue

会议地点

Boyue Grand Ballroom, 4th Floor, Grand Skylight International Hotel Haoyue

Address: Intersection of Jincheng Middle Road West and Minzhu Avenue North, Shajing Street,
Baoan District, Shenzhen, Guangdong province, China

Tel: +86. 18818534013 (Ms. Tan)

深圳濠悦格兰云天国际酒店（4层博悦宴会厅）

地址：深圳市宝安区沙井街道民主大道与锦程中路西交汇处

电话：+86. 18818534013（谭经理）

Onsite Tips

注意事项

- The dining place of the buffet lunches & dinners is in Yuehui Restaurant (Western Buffet), 1st Floor.
Meal coupons will be required.
- All participants must wear the name badges to attend all the sessions.
- To respect the copyright of all the presentations, any forms of sound, camera or video recordings are not allowed during the workshop.
- 会议期间的自助午/晚餐地点：1层 悦荟餐厅（西餐厅·自助餐），用餐时请出示本次会议餐券。
- 会议期间，所有参会代表须佩戴胸卡入场。
- 为尊重报告的版权，会议所有报告期间禁止任何形式的录音、摄像及录影。

IMPORTANT CONTACT INFORMATION

重要联络方式

Recommended Hotel

会场附近住宿酒店推荐

Grand Skylight Yue Hotel (Located in the same building as the main venue hotel)
Tel: +86. 18620074212 (Ms. Cheng)

格兰云天·阅酒店（深圳国际会展中心店）（与主会场酒店同栋楼）
联系人：+86.18620074212 (成女士)

HSE Contact Numbers

HSE联络方式

- Emergency contact number: 110/119/120
- 紧急联系电话：110/119/120

SEG Onsite Stafff

现场联系人（SEG中国）

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BRIEF AGENDA

简明日程

Date 日期	Time 时间	Session 单元	Session Subject 单元主题	Location 地点
PM 10 September 9月10日 下午	13:00-16:20	CIOE & SEG Joint Session CIOE & SEG 联合专场	光纤传感技术高端产业学术论坛 High-end Industry-Academia Forum on Optical Fiber Sensing	Media Center A, Level 1, South Lobby West, Shenzhen World Exhibition & Convention Center 深圳国际会展中心 南登录大厅一楼 媒体中心A
AM 11 September 9月11日 上午	08:30-11:40	Session I 单元 I	Opening Ceremony/Keynote & Invited Speaker Presentation 开幕式/主旨报告 & 特邀报告	Boyue Grand Ballroom, 4 th Floor 4 层博悦宴会厅
PM 11 September 9月11日 下午	13:40-17:20	Session II 单元 II	Advances in Fiber Optic Sensing/Well Completions, Subsea Installations and long-term monitoring/Fiber Optics in Energy Transition 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	
AM 12 September 9月12日 上午	08:30-11:35	Session III 单元 III	DAS Data Management, Simulation, Processing and AI DAS数据管理、模拟、处理与人 工智能	
PM 12 September 9月12日 下午	13:20-15:00	Session IV 单元 IV	Imaging and Monitoring 成像与监测技术	



Date 日期	Time 时间	Session 单元	Session Subject 单元主题	Location 地点
PM 12 September 9月12日 下午	15:20-17:40	Session V 单元 V	Field Applications and Application Studies 现场应用与案例研究	Boyue Grand Ballroom, 4 th Floor 4 层博悦宴会厅
AM 11 September 9月11日 下午	15:00-15:20	Poster Session 张贴报告单元	Imaging and Monitoring 成像与监测技术	
AM 12 September 9月12日 上午	10:10-10:30		Fiber Optics in Energy Transition 光纤传感在能源转型中的应用	
PM 12 September 9月12日 下午	15:00-15:20		DAS Data Management, Simula- tion, Processing and AI DAS数据管理、模拟、处理与人工 智能	
PM 12 September 9月12日 下午	15:00-15:20		Environmental and Infrastructure Monitoring/Field Applications and Application Studies 环境与基础设施监测/现场应用与案 例研究	



GENERAL CHAIRMAN
大会主席



Arthur C.H. Cheng

Prof. Arthur C.H. Cheng is an Adjunct Professor in the Earth, Environmental Science Programme at The Chinese University of Hong Kong. Prior to that, he was a Professor in the Department of Civil and Environmental Engineering, specializing in Petroleum Geosciences, at the National University of Singapore. Previously, he was Senior Manager for Acoustics and Borehole Seismics at Halliburton Technology, where he led the development of the Xaminer® Sonic Imager tool. He received a B.Sc. with Distinction in Engineering Physics from Cornell University in 1973, and a Sc.D. in Geophysics from MIT in 1978. He was one of the co-founders of the Earth Resources Laboratory at MIT in 1982 and was Project Leader of the MIT Borehole Acoustics and Logging Consortium until 1996, when he joined Western Atlas as Manager of Acoustic Science. He had also worked for Baker Atlas, Baker Hughes Inteq, SensorWise, and RockSo-lidImages in various managerial and consulting capacities.

He had published over 150 papers and 30 patents, with a number more pending. He has co-authored two books on borehole acoustics. His current research interests are rock physics modeling, quantitative seismic reservoir character-ization, and near surface geophysics. Arthur had served on several academic and industry positions through the years, and he served as the Editor in Chief for Geophysics in 2023, and a member of the SEG Foundation Board of Directors for 11 years. He was named an Honorary Fellow by The Chinese University of Hong Kong in 2022, received the Honorary Membership Award from SEG in 2021, the Distinguished Technical Achievement Award from SPWLA in 2015, the SPE Formation Evaluation Award in 2016, and served as SEG president (2023-2024).

郑传汉教授，香港中文大学地球与环境科学项目的兼职教授，曾为新加坡国立大学土木与环境工程系的教授，专攻石油地球科学。郑先生还曾担任哈里伯顿技术公司声学及井孔地震资深经理，领导开发了Xaminer®声波成像工具。他于1973年在康奈尔大学获得工程物理学学士学位，并于1978年在麻省理工学院获得地球物理学博士学位。他是1982年麻省理工学院地球资源实验室的联合创始人，并于1996年加入Western Atlas担任声学科学经理。他曾在Baker Atlas、Baker Hughes Inteq、SensorWise和RockSo-lidImages 等公司担任各种管理和咨询职务。

他发表了150多篇论文和30项专利，还有更多的专利正在申请中。他与人合著了两本关于井孔声学的书籍，他目前的研究领域包括岩石物理建模、定量地震储层表征和近地表地球物理学。Arthur在多个学术和行业岗位上任职多年；他于2023年担任《地球物理学》的主编，并在SEG基金会董事会任职11年。他于2022年被香港中文大学授予名誉院士称号，于2021年获得SEG荣誉会员奖，2015年获得SPWLA杰出技术成就奖，2016年获得SPE Formation Evaluation奖，是SEG国际勘探地球物理学家学会主席(2023-2024)。



Hong Cao

Dr. Hong Cao is the General Manager, Deputy Secretary of the Party Committee of BGP Inc., CNPC. Mr. Cao received his bachelor's degree from Chengdu Geological Institute (now Chengdu University of Technology) and went on to obtain Master and Doctoral degrees, with his academic focus covering geology and geophysics. After completing postdoctoral research in the Department of Geology at Peking University, he continued his research and managing work in the Research Institute of Petroleum Exploration & Development (RIPE), PetroChina.

Dr. Cao is one of the academic leaders in the interdisciplinary field of geology and geophysics, specializing in seismic rock physics. As a key initiator of the Rock Physics Committee of the Chinese Geophysical Society, his research achievements include the development of pre-stack attenuation gas reservoir identification technology and advancements in gas saturation prediction technology. Mr. Cao also contributes to technical team management and research talent development, leading several key technology projects.

Dr. Cao has been honored with awards such as the "Outstanding Young Front-Line Worker" by the State-Owned Assets Supervision and Administration Commission of the State Council, "Young & Middle-Aged Leading Scientist in Technological Innovation" by the Ministry of Science and Technology, "Leading Talent of the Ten Thousand Talents Plan" by the Organization Department of the CPC Central Committee, "Top Ten Outstanding Youths of PetroChina", and the "Iron Man Medal", etc.

曹宏博士，现任中国石油集团东方地球物理勘探有限责任公司总经理，并担任该公司党委副书记。曹先生本科毕业于成都地质学院(现成都理工大学)，后续获硕士、博士学位，专业领域涵盖地质学与地球物理学等。曹先生在北京大学地质系完成博士后研究工作后，继续在中石油勘探开发研究院工作。

在科研方面，曹博士为地质与地球物理跨学科学术带头人之一，主要从事地震岩石物理方面的研究。作为中国地球物理学会岩石物理专业委员会的主要发起人之一，其研究成果包括叠前衰减气层识别技术的开发，以及含气饱和度预测技术的推进。曹先生亦参与技术团队管理与科研人才培养工作，主持多项技术攻关项目。

曹博士曾获国资委“杰出青年岗位能手”、科技部“中青年科技创新领军人才”、中组部“万人计划领军人才”、中国石油“十大杰出青年”、“铁人奖章”等荣誉奖项。



TECHNICAL CO-CHAIRS

技术主席



Danping Cao

Danping Cao, Professor at China University of Petroleum (East China), recipient of the National Natural Science Fund for Distinguished Young Scholars (China). He graduated with a bachelor degree in applied geophysics from the University of Petroleum in 2001. He has long been engaged in teaching and scientific research work for oil & gas reservoir geophysics, focusing on the combination and application of new technologies such as seismic inversion, artificial intelligence, digital rock physics, and distributed acoustic sensing. He is currently a registered geophysical engineer in China, serving as a council member of the Chinese Geophysical Society, deputy secretary-general of the Oil and Gas Geophysics Professional Committee, and a member of the Geophysical Exploration Technical Committee of the National Petroleum and Natural Gas Standardization Technical Committee. He has published more than 100 papers in the important geophysical journals. He has won one second prize for national scientific and technological progress and seven provincial and ministerial level teaching and research awards.

曹丹平，中国石油大学（华东）教授，国家杰出青年科学基金获得者。2001年毕业于石油大学并获得应用地球物理学学士学位。长期致力于油气储层地球物理领域的教学和科研工作，注重与地震反演、人工智能、数字岩石物理、分布式声学传感等新技术的结合和应用。现任中国注册地球物理工程师、中国地球物理学会理事、油气地球物理专业委员会副秘书长、全国石油天然气标准化技术委员会地球物理勘探技术委员会委员。在重要的地球物理期刊上发表了100多篇论文，获得国家科技进步二等奖1项、省部级教学科技奖励7项。



Feng Cheng

Feng Cheng is a Hundred-Talent Plan Researcher and Doctoral Supervisor at the School of Earth Sciences, Zhejiang University. His research focuses on addressing complex scientific problems related to geology, environment, and energy systems through seismic observation and interpretation. His research interests lie in advancing methodologies and technological innovations in seismic data acquisition, imaging, and monitoring, with the aim of deepening the understanding of relevant geophysical parameters, including but not limited to: shallow subsurface structure (above 3 km), fluid migration, fracture mechanisms, and stress perturbations.

His recent work primarily explores the extension and innovation of conventional seismic observation and interpretation approaches using novel fiber-optic sensing technology—Distributed Acoustic Sensing (DAS) and artificial intelligence (AI). His research group is dedicated to developing new methods and technologies for extracting high-resolution, high-quality seismic data from fiber-optic sensing media such as telecommunication cables, and to evaluating their application value in seismology and related fields.

程逢，浙江大学地球科学学院百人计划研究员，博士生导师。研究主要聚焦于利用地震观测与解释手段解决与地质、环境以及能源系统相关的复杂科学问题。研究兴趣主要在于推进地震数据观测、成像与监测相关的手段与技术革新从而提高人们对相关地球物理参数的理解与认识，包括但不限于：浅地表3公里以上地下结构、地下流体运移、裂隙机理、地下应力扰动。

近期研究工作主要利用新型光纤传感技术（分布式光纤传感地震观测技术，DAS）与人工智能技术（AI）来进行传统地震观测与解释手段与方法的拓展与革新；研究小组将致力于发展从通信光缆等光纤传感媒介中提取高分辨率、高质量地震观测数据的新方法、新技术并评估其在地震以及相关领域的应用价值。



Zuyuan He

Zuyuan He received his Ph.D. degree from the University of Tokyo, Japan, and became a Research Associate of the University of Tokyo in 1999. In 2001, he joined CIENA Corporation, Maryland, USA, as a Lead Engineer heading the optical testing and optical process development group. He returned to the University of Tokyo as a Lecturer in 2003, then became an Associate Professor in 2005 and a full Professor in 2010. He is now a Chair Professor at the Department of Electronic Engineering, Shanghai Jiao Tong University, China. His current research interests include optical sensors, optical interconnects, and optical computing. He co-authored about 500 papers in peer-refereed journals and international conferences, and has been awarded about 50 patents from China, Japan, USA, and UK, respectively.

Dr. He is an OPTICA Fellow. He has served as TPC members in a variety of international conferences, such as CLEO, OFC, and OFS, and as the General Chair of Asia Communications and Photonics Conference (ACP) 2014 and Asia-Pacific Optical Sensors Conference (APOS) 2016, respectively, and worked as an Associate Editor of IEEE/OSA Journal of Lightwave Technology 2013-2019.

何祖源，国家特聘专家，上海交通大学讲席教授，光纤通信国家重点实验室主任，OPTICA Fellow。日本东京大学博士，历任东京大学助教、讲师、副教授、教授，曾任美国CIENA公司主任工程师。曾任OFC、CLEO、OFS等国际会议技术程序委员会委员，2014年亚洲通信与光子学国际大会（ACP2014）主席，2016年亚太光学传感国际大会（APOS2016）主席，IEEE/OSA Journal of Lightwave Technology期刊Associate Editor，国家重点基础研究发展计划（973计划）信息科学领域咨询专家。

长期从事光传感、光互连与光计算等领域的科学研究和产业技术开发。2012年回国以来承担了国家自然科学基金重大科学仪器研制专项、国家重点研发计划项目等重要科研项目。在光电子学领域国际期刊和学术会议上发表论文和学术报告500余篇，其中邀请论文和邀请报告数十篇。获授权日、美、英等国专利20余项，中国发明专利30余项。

KEYNOTE PRESENTATION 2 | 主旨报告（二）

Title 报告题目	Recent Advances in Optical Fiber Distributed Acoustic Sensors (DAS) 分布式声学传感（DAS）前沿进展
Time 报告时间	09:05-09:30 am, Fri/11 September 2026 2026年9月11日/周五，上午09:05-09:30



Ge Jin

Dr. Ge Jin is an Associate Professor of Geophysics and Co-director of Reservoir Characterization Project at Colorado School of Mines. His research interests focus on applications of Distributed Fiber-Optic Sensing (DFOS) in geoscience and engineering, as well as seismic imaging and machine learning techniques. He received the ARMA Case Study Award in 2025, delivered the AAPG/SEG Distinguished Lecture in 2024, received the Best Paper award at the UrTeC conference in 2023 and 2024. Before joining Colorado School of Mines, Dr. Jin worked for five years as a research geophysicist at ConocoPhillips. Dr. Jin earned his Ph.D. in Geophysics from Columbia University and holds dual B.S. degrees in Geophysics and Computer Science from Peking University.

金戈博士是科罗拉多矿业学院地球物理学副教授兼储层表征项目联合主任。他的研究方向集中于分布式光纤传感（DFOS）在地球科学与工程中的应用，以及地震成像和机器学习技术。他曾于2025年荣获美国岩石力学学会（ARMA）案例研究奖，于2024年担任AAPG/SEG杰出讲师，并在2023年及2024年的非常规资源技术大会（URTeC）上获评最佳论文奖。在加入科罗拉多矿业学院之前，金戈博士曾在康菲石油公司（ConocoPhillips）任职五年，担任研究地球物理师。金戈博士于哥伦比亚大学获得地球物理学博士学位，并拥有北京大学地球物理学与计算机科学双学士学位。



Hongjun Lu

Hongjun Lu, Professor-level Senior Engineer, 5th Editorial Board Member of the Chinese core journal "Drilling & Production Technology." He has long been engaged in research on enhanced recovery and drilling and completion technology for unconventional oil and gas reservoirs. He has successively served as Chief Engineer of the Oil and Gas Technology Research Institute and Director of the Engineering Technology Management Department in Changqing Oilfield Company. Lu has extensive research experience and management expertise in areas such as low-permeability sandstone gas, tight oil and gas reservoirs, and enhanced recovery in unconventional shale oil and gas reservoirs. He has participated in over 40 research projects and served as the project manager for the national major project "Development Demonstration Project of Large Low-Permeability Lithologic Oil and Gas Reservoirs" and deputy project manager for the major CNPC project "Key Technology Research for Enhancing Recovery of Tight Sandstone Gas Reservoirs." Many of the research outcomes have achieved international advanced levels in technical indicators, contributing significantly to the large-scale and efficient development of lacustrine interlayer-type shale oil and substantially increasing the single-well production of the Sulige tight gas field.

He has received 15 provincial and ministerial-level science and technology awards, including three first prizes or higher. He holds 53 authorized invention patents, including four international patents, and has published over 30 papers in the Chinese core journals. He has been honored with titles as Advanced Science and Technology Worker of the Changqing Oilfield Company, one of the Top Ten Outstanding Young Persons, Outstanding Communist Party Member, and "Outstanding Academic Leader."

陆红军，教授级高级工程师，中文核心期刊《钻采工艺》第五届编委。长期从事非常规油气藏增产改造和钻完井工艺技术研究工作。先后担任长庆油田分公司油气工艺研究院总工程师、工程技术管理部主任等职务。在低渗砂岩气、致密油气藏和非常规页岩油气增产改造及提高采收率领域具有丰富的科研经历与管理经验，先后承担参与科研项目40余项，并担任国家重大专项“大型低渗透岩性油气藏开发示范工程”课题经理和中石油集团公司重大专项“致密砂岩气藏提高采收率关键技术研究”项目副经理，形成的多项研究成果技术指标达到国际先进水平，为陆相夹层型页岩油规模效益开发及苏里格致密气大幅提高单井产量做出了重要贡献。

先后获省部级科技成果奖15项，其中一等级及以上3项；获授权发明专利53件，其中国际专利4件；在核心期刊发表论文30余篇。曾获长庆油田公司先进科技工作者、十大优秀青年、优秀共产党员和“优秀学科带头人”等荣誉称号。

**Roman Pevzner**

Dr. Pevzner joined Curtin University (Perth, Western Australia) in 2008 as an Associate Professor in Exploration Geophysics and was promoted to Professor in 2018. Previously he led the software development department at DECO Geophysical service company from 2002–2008 and conducted research and teaching at the Geological Faculty of Lomonosov Moscow State University. Roman Pevzner received his Ph.D. in Geophysics (2004), M.Sc. in Geophysics (2001), and B.Sc. in Geology (1999) from Lomonosov Moscow State University.

His main areas of interest include subsurface monitoring using active and passive seismic methods, borehole seismic, distributed fiber-optic sensing for geophysical applications, and CO₂ geosequestration. Roman has co-authored 5 book chapters, 110 journal papers and more than 240 refereed conference publications.

Roman Pevzner博士于2008年加入位于西澳大利亚珀斯的科廷大学，担任勘探地球物理学副教授，并于2018年晋升为正教授。此前，他在2002年至2008年期间担任DECO地球物理服务公司软件开发部门负责人，并曾在莫斯科国立大学地质系从事教学与科研工作。Roman Pevzner于莫斯科国立大学获得地质学学士学位（1999年）、地球物理学硕士学位（2001年）和地球物理学博士学位（2004年）。

他的主要研究方向包括：基于主动与被动地震方法的地下监测、井中地震技术、分布式光纤传感在地球物理中的应用以及二氧化碳地质封存。他已合作出版5部专著章节、发表110篇期刊论文及240余篇经过同行评审的会议论文。

**Mark E. Willis**

Mark E. Willis is an independent geophysical consultant. He retired from Halliburton in 2025 where he was Chief Scientific Advisor of Borehole Seismics. Before Halliburton he worked in various research technology, supervisory and management positions at Mobil Oil, Cambridge GeoSciences, Massachusetts Institute of Technology Earth Resources Laboratory, and ConocoPhillips. He has been responsible for mentoring technologists, developing and promoting geophysical innovations, and fostering long term client relationships.

In his career he has performed research and development in distributed acoustic sensing, VSP technology, deep sonic log processing and imaging, fracture identification using all types of seismic data, interferometric imaging, Kirchhoff and reverse time depth migration, machine learning, and velocity model building.

Willis holds a B.S. in Applied Math and Physics from the University of Wisconsin – Milwaukee and a Ph.D. in Geophysics from MIT. He has written over 100 papers, publications, and presentations, and holds over 30 patents. He is a member of the SEG, EAGE, and ASA.

Mark E. Willis是一位独立地球物理顾问。他于2025年从哈里伯顿公司退休，任职期间担任该公司井中地震领域的首席科学顾问。在加入哈里伯顿之前，他曾在美孚石油公司、剑桥地球科学公司、麻省理工学院地球资源实验室以及康菲石油公司担任多个研究技术、主管及管理职位。其职责涵盖指导技术团队、开发与推广地球物理创新技术，以及建立和维护长期客户关系。

在他的职业生涯中，他的研究与开发工作涉及多个前沿领域，包括：分布式声学传感、垂直地震剖面技术、深部声波测井处理与成像、基于各类地震数据的裂缝识别、干涉成像、克希霍夫与逆时深度偏移、机器学习以及速度建模。

Willis持有威斯康星大学密尔沃基分校应用数学与物理学学士学位，以及麻省理工学院地球物理学博士学位。他已发表超过100篇论文、出版物及报告，并拥有30多项专利。他是SEG, EAGE和ASA的会员。

KEYNOTE PRESENTATION 1 | 主旨报告（一）

Title 报告题目	The DAS Gauge Length Effect: Signal Detection Versus Characterization DAS标距长度效应：信号检测与表征
Time 报告时间	08:40–09:05 am, Fri/11 September 2026 2026年9月11日/周五，上午08:40–09:05

**Baoshan Wang**

Baoshan Wang is a professor at the School of Earth and Space Sciences, University of Science and Technology of China (USTC). He received his Ph.D. degree in geophysics from USTC in 2003 and worked at Rice University as a postdoctoral researcher from 2008 to 2009. Baoshan's main research interests are the development of Distributed Optic-Fiber Sensing techniques (DOFS) and adopting the DOFS techniques in seismic observations and subsurface imaging under various conditions. He is a council of the Seismological Society of China and the deputy Editor-in-Chief of the journal "Earthquake Research Advances". He has published more than 100 papers in journals such as Nat. Comm., EPSL, JGR, and served as a reviewer for journals such as GRL, JGR (Excellence in Refereeing 2019), and BSSA.

王宝善，中国科学技术大学博士生导师，国务院政府特殊津贴获得者，中国地球物理学会理事，中国地震学会理事，《Earthquake Research Advances》杂志执行副主编。2003年毕业于中国科学技术大学，获理学博士学位。主要从事地球内部精细结构及其精细变化，新型地震观测技术等方面的研究。2012年获得国家自然科学基金委优秀青年基金资助。负责过重点研发计划(国际合作)项目，自然科学基金重大项目课题、基金面上、国际(地区)合作项目，地震行业专项等项目。曾获赵九章中青年科学奖、中国地球物理学会科技进步一等奖等奖励。在 NC、EPSL、JGR、GJI、BSSA、Geophysics、SRL等期刊发表100余论文，是JGR（2019年度JGR-solid earth 优秀审稿人），GRL, GJI, SRL, JAES, Geophysics, Scientific Reports, Geoscience Journal, 中国科学等杂志审稿人。

**Yibo Wang**

Yibo Wang is a professor at the Institute of Geology and Geophysics, Chinese Academy of Sciences. He is a recipient of the National Science Fund for Distinguished Young Scholars and serves as Chief Scientist of the National Key R&D Program. He has held research positions at the University of Utah, Saudi Aramco, BP America Inc., and Peking University. His current research focuses on geophysical imaging instrumentation and methods, as well as reservoir geomechanics. He currently serves as Associate Editor-in-Chief of the Chinese Journal of Geophysics, Associate Editor for Geophysics, Chair of the Chinese Geophysical Society's Committee of Young Geophysicists, and Chair of the China National Commission of the Young Earth Scientists Network (YES Network).

王一博，中国科学院地质与地球物理研究所二级研究员，博士生导师，所学术委员会委员，国家杰出青年基金获得者，国家重点研发计划变革性项目首席科学家。曾先后在美国犹他大学、沙特阿美石油公司、英国石油美国分公司、北京大学从事科研工作。目前主要研究方向为地球物理成像设备与方法、储层地质力学。现任地球物理学报副主编、Geophysics副主编、中国地球物理学会青年工作委员会主任、世界青年地球科学家联盟中国委员会主席。



Gang Yu

Dr. Gang Yu is the Senior Technical Director of BGP's Optical Science & Technology Division and Senior Technical Advisor of BGP. Providing technical support and consultancy to BGP's Optical Science & Technology Division and Non-Seismic Division. He provides technical advice to projects of microseismic monitoring of hydraulic fracturing operation, distributed acoustic sensing (DAS) VSP survey and 3D VSP imaging, integrated shale gas reservoir characterization, marine MT and CSEM, land MT and TFEM, borehole-to-surface TFEM, etc. Dr. Gang Yu holds a B.Sc. and a M.Sc. from Chengdu University of Technology of China, and a Ph.D. from Macquarie University of Australia. He is an active member of SEG, EAGE and SPE.

余刚博士是BGP光电技术事业部高级技术总监、BGP高级技术顾问。他为BGP光电技术事业部及非地震勘探事业部提供技术支持与咨询服务，主要针对水力压裂微地震监测、分布式光纤声波传感（DAS）垂直地震剖面（VSP）勘探、三维垂直地震剖面成像、页岩气储层综合表征、海洋大地电磁（MT）与可控源电磁（CSEM）、地面大地电磁（MT）与时间域电磁（TFEM）、井地时间域电磁等项目提供技术指导。

余刚博士先后取得成都理工大学理学学士、硕士学位，以及澳大利亚麦考瑞大学博士学位。他是SEG国际勘探地球物理学家学会、欧洲地球科学家与工程师学会（EAGE）、国际石油工程师学会（SPE）的活跃会员。



Jingjing Zong

Dr. Jingjing Zong is an Associate Professor at the School of Resources and Environment, University of Electronic Science and Technology of China (UESTC). She is a highly influential young scholar in the field of geophysical exploration, with sustained research expertise in vertical seismic profiling (VSP) elastic wavefield processing and imaging, distributed fiber optic sensing response mechanisms and DAS VSP applications, rock physics, and quantitative seismic assessment. She received her Ph.D. in Geophysics from the University of Houston in 2019, and subsequently worked as a Research Fellow at the National University of Singapore. In 2020, she joined the research group at UESTC, which focuses on complex multi dimensional information processing. Since then, she has been dedicated to advancing signal processing and intelligent sensing technologies for deep earth exploration.

In 2025, she was one of only three recipients worldwide of the SEG J. Clarence Karcher Award. In 2026, she was elected as a Director at Large on the SEG Board of Directors, becoming the youngest member of the Board. She has previously served as the representative for SEG District 11 and currently serves as an Associate Editor for GEOPHYSICS.

宗晶晶是电子科技大学资源与环境学院的副教授，长期深耕井中地震VSP弹性波波场处理及成像、分布式光纤传感响应机制与DAS-VSP应用、岩石物理与定量地震评估等前沿方向。她2019年于美国休斯顿大学取得地球物理学博士学位，随后在新加坡国立大学担任研究学者，2020年加入电子科技大学资源与环境学院复杂多维信息处理团队，多年来在深地探测相关的信号处理与智能感知领域持续深耕。

她是2025年SEG J. Clarence Karcher奖全球仅三位获奖者之一，2026年当选SEG董事，成为SEG董事会最年轻的成员，并曾担任SEG全球第11区理事会代表，目前担任《GEOPHYSICS》副主编。

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许川东	中石化石油物探技术研究院有限公司
詹 戈	TGS-NOPEC Geophysical Company
张文涛	中科院半导体研究所
张旭苹	南京大学
张 毅	中国石油集团测井有限公司
赵争光	应急管理大学
朱 涛	重庆大学
M Hafizal B Mad Zahir	PETRONAS

(按姓氏字母顺序排列.)



INVITED PRESENTATIONS

特邀报告

INVITED PRESENTATION 1 | 特邀报告（一）



Liyang Shao 邵理阳 教授	Southern University of Science and Technology 南方科技大学
报告题目	AI-Driven Distributed Acoustic Sensing Technology and Industrial Applications AI驱动分布式声波感知技术及产业应用
Time 报告时间	09:30-09:55 am, Fri/11 September 2026 2026年9月11日/周五, 上午09:30-09:55

Prof. Liyang Shao, Ph.D. (ZJU/PolyU), Exec. Deputy Dean, School of Innovation & Entrepreneurship, Prof. of Electronic Eng. in SUSTech, Acad. of U.S. Nat. Acad. of AI (Exec. VP, Asia Branch); Nat. Young Talent Scholar; Joint Researcher, Pengcheng Lab, Southern Marine Lab, SIOM, CAS; Director, Space-Earth-Integrated Intelligent Network Research Center; Exec. Director, Guangdong Integrated Optoelectronic Intelligent Sensing Lab. Sr. Member, IEEE/OSA/SPIE/CSOE; committee, COS/CSOE; Editorial Board, PhotonIX/OEA.

Prof. Shao's research covers intelligent distributed fiber-optic sensing and space-earth-integrated networks for energy, transport, security, telecom, aerospace, marine, geophysics, and defense. He has 199 SCI papers (9,790 citations, H-index 53), 20+ patents, 4 keynotes, 20+ invited talks, and TPC/organizing roles at major conferences. As PI, he has led 20+ projects (NSFC, international, provincial/municipal). His systems are deployed with Shenzhen Gas, HK MTR, China Telecom, China Southern Power Grid, and the Qiongzhou 500 kV cable, and featured by People's Daily and Xinhua. Honors include the Endeavour Scholar, Zhan Tianyou Youth Award, Sichuan Outstanding Contributor, CSOE Invention Award (2nd Class), Industry-University-Research Collaboration Award, and Shenzhen Innovation Talent Award; he has been a Stanford Top 2% Scientist for six consecutive years.

邵理阳, 浙大/港理工联培博士, 南科大创新创业学院常务副院长、电子系教授(博导)。美国国家人工智能科学院院士(亚洲分院执行副院长), 国家特聘青年专家, 鹏城实验室、南方海洋实验室、中科院上海光机所双聘研究员, 天地海一体化智能网联研究中心主任, 广东省集成光电智感实验室执行主任。IEEE/OSA/SPIE/CSOE资深会员, 中国光学学会高级会员及专委会委员, 中国光学工程学会光纤传感专委会委员, 《PhotonIX》《OEA》编委。

邵教授的研究方向覆盖智能分布式光纤传感及天地海一体化智能网联关键技术, 应用于油气、风电、轨交、桥隧、安防、通信光缆、航空航天、海洋风电、油气勘探、地球物理及国防。发表SCI论文199篇(含Nat. Comm., Light Sci. Appl.等12篇), 引用9790次, H指数53。主旨报告4次、特邀报告20余次, 担任ACP、OECC、OGC、APOS、CLEO-PR等TPC/组委委员。授权发明专利20余项, 主持国家自然科学基金、科技部国际合作、省部级重大项目及企业合作等20余项。研制系统应用于深圳燃气、港铁、中国电信、南方电网、琼州海峡500kV电缆等示范工程, 获《人民日报》《新华社》报道。获澳大利亚“奋进学者奖”、詹天佑铁道科技青年奖、四川省突出贡献专家、中国光学工程学会技术发明二等奖、产学研合作促进奖(个人)、深圳市产业发展与创新人才奖, 连续6年入选斯坦福全球前2%顶尖科学家榜单。

INVITED PRESENTATION 2 | 特邀报告（二）



Lanbo Liu 刘澜波 教授	Shandong University 山东大学
Title 报告题目	Kagoshima Earthquake ground motions recorded by the Bohai Bay DAS submarine cable 基于渤海湾DAS海底光缆的鹿儿岛地震动记录
Time 报告时间	10:25-10:50 am, Fri/11 September 2026 2026年9月11日/周五, 上午10:25-10:50

Dr. Lanbo Liu is Professor at Shandong University and Professor Emeritus at the University of Connecticut. He holds B.S. and M.S. in Geophysics from Peking University, an M.S. in Civil/Environmental Engineering and a Ph.D. in Geophysics from Stanford University, and was a postdoctoral fellow at the Carnegie Institution. He held visiting positions at Stanford (Blaustein Professor) and Carnegie, and has focused on engineering and environmental geophysics. He received China's "Overseas Distinguished Scholar" and a U.S. Fulbright Scholarship. He served at NASA GSFC, the U.S. Army Corps of Engineers, and the Schlumberger-Doll Research Center. He was Associate Editor for Geophysics and the Journal of Environmental & Engineering Geophysics, and editorial board member for the Journal of Applied Geophysics, Geodesy and Geodynamics, and the Journal of Earth Science.

He has led projects funded by the U.S. National Science Foundation (NSF, 4 projects), the U.S. Department of Homeland Security (DHS, 2 projects), the U.S. Geological Survey (USGS, 4 projects), the Schlumberger-Doll Research Center (1 project), and the National Cooperative Highway Research Program (NCHRP, 2 projects). He authored 128 papers (88 SCI) in Science, Tectonics, and the Journal of Geophysical Research, with 3,943 SCI citations and 5,211 Google Scholar citations. He has given invited lectures at over 100 universities in more than 10 countries, including Stanford, MIT, Yale, and Peking University.

刘澜波, 山东大学教授, 美国康涅狄格大学终身教授(荣休)。北京大学地球物理学本科、硕士; 斯坦福大学土木与环境工程硕士、地球物理学博士; 卡耐基研究院博士后。曾任斯坦福大学Blaustein客座教授、卡耐基研究院成员, 长期致力于工程与环境地球物理研究。入选中国教育部“海外名师”、美国国务院富布赖特学者(Fulbright Scholarship)等。曾任美国宇航局(NASA)戈达德航天中心暑期研究员、美国陆军工程兵外聘专家、斯伦贝谢-道尔研究中心客座研究员等。曾任地球物理领域顶刊Geophysics和Journal of Environmental & Engineering Geophysics副主编, 以及Journal of Applied Geophysics、Geodesy and Geodynamics和Journal of Earth Science等期刊编委。

主要从事工程与环境地球物理研究, 承担了美国国家科学基金(NSF)4项、美国国土安全部项目2项、美国联邦地质调查局(USGS)项目4项、斯伦贝谢-道尔研究中心项目1项、美国公路研究联合咨询委员会项目2项等。在Science、Tectonics、Journal of Geophysical Research等发表论文128篇(其中SCI论文88篇), SCI被引3943次、Google scholar被引5211次。受邀在斯坦福大学、哥伦比亚大学、北京大学、麻省理工学院、耶鲁大学等10余个国家的上百所高校做学术报告。



INVITED PRESENTATION 3 | 特邀报告（三）



Yingping Li 李应平 教授	BlueSkyDas LLC & 休斯顿大学
Title 报告题目	Assessing the Potential of Distributed Fiber-Optic Sensing Networks for the Detection and Monitoring of Earthquake Precursors 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
Time 报告时间	10:50-11:15-11:20 am, Fri/11 September 2026 2026年9月11日/周五, 上午10:50-11:15

Dr. Yingping Li earned his B.S. in Geophysics from the University of Science and Technology of China (USTC) in 1982 and his M.S. in Seismology from the Institute of Geophysics of the Chinese Seismological Administration (IGCSA) in 1984. He received his Ph.D. in Geophysics from Stony Brook University, New York, in 1992. Dr. Li has held research and professional positions at the high school affiliated with Shanxi University, IGCAS, Stony Brook University, MIT, Baker Hughes, and Shell, where he served as a Subject Matter Expert in Borehole Geophysics. In 2021, he co-founded BlueSkyDAS LLC, where he serves as Chief Scientist, and since 2022, he has also served as an Adjunct Professor at the University of Houston. His current work focuses on advancing Distributed Acoustic Sensing (DAS) technology, promoting its diverse applications, and increasing awareness of DAS within the broader scientific and engineering communities. As an Editor-in-Chief, he organized and co-edited two AGU monographs (268 and 289) on DAS, published in 2021 and 2024. Dr. Li is a Life Member of both the American Geophysical Union (AGU) and the Society of Exploration Geophysicists (SEG). He has organized and co-organized numerous DAS-focused technical sessions, workshops, and meetings for SEG, AGU, and EAGE.

李应平博士于1982年获中国科学技术大学（USTC）地球物理学学士学位，1984年获中国地震局地球物理研究所（IGCAS）地震学硕士学位，并于1992年获纽约州立石溪大学（Stony Brook University）地球物理学博士学位。李博士曾先后在山西大学附属中学、中国地震局地球物理研究所、石溪大学、麻省理工学院（MIT）、贝克休斯（Baker Hughes）和壳牌（Shell）等单位从事教学、科研和专业技术工作。在壳牌公司期间，他担任井中地球物理学（Borehole Geophysics）领域技术专家（Subject Matter Expert, SME）。2021年，李博士共同创立了 BlueSkyDAS LLC（蓝天答丝）并担任首席科学家；自2022年起，他受聘休斯敦大学兼职教授。他目前主要致力于分布式声波传感（DAS）技术的发展、推广和多领域应用，并积极推动DAS技术在科学、工程和社会领域中更广泛的认知、科学普及和应用。作为主编，李博士组织并共同主编了两部美国地球物理联合会（American Geophysical Union, AGU）DAS专著，即2021年和2024年出版的AGU专著第268卷和第289卷。李博士是AGU和SEG（美国勘探地球物理学家协会）的终身会员。他曾组织或共同组织SEG、AGU和欧洲地球科学家与工程师协会（EAGE）的多场DAS专题会议、专题讨论会和研讨会。

INVITED PRESENTATION 4 | 特邀报告（四）



Zhilin Xu 徐志林 博士	Huazhong University of Science and Technology 华中科技大学
Title 报告题目	High-Precision Fiber-Optic Interferometric Vibration Sensing for Oil and Gas Seismic Exploration 面向油气地震勘探的高精度光纤干涉振动测量研究
Time 报告时间	11:15-11:40 am, Fri/11 September 2026 2026年9月11日/周五, 上午11:15-11:40

Dr. Zhilin Xu is an Associate Professor and PhD Supervisor at the Center for Gravitational Experiments, Huazhong University of Science and Technology (HUST). She received her Ph.D. in Optical Engineering from HUST in 2016. From 2016 to 2018, she conducted postdoctoral research at Nanyang Technological University, Singapore. She joined the National Gravimetry Laboratory at HUST in 2018.

Her research focuses on fiber optic sensing and precision measurement, encompassing fiber-optic precision displacement sensing, fiber-optic vibration measurement, and high-precision phase measurement. She has led and participated in projects funded by the National Natural Science Foundation of China (NSFC), the National Key Research and Development Program, and the Innovative Achievement Transformation Project under the "Huiyan Action" program. She has published over 30 papers as first or corresponding author in journals such as *Optica*, and more than 20 papers in international conferences including OFC and CLEO. She holds over 10 national invention patents (applied or granted). She is invited to serve as a Youth Editorial Board Member for *Opto-Electronic Advances* and *Infrared and Laser Engineering*, and as a Reviewer for several journals including *Opto-Electronic Advances*, *Advanced Photonics*, *Photonics Research*.

徐志林，副研究员，博士生导师。2016年获得华中科技大学光学工程专业工学博士学位，2016-2018年在新加坡南洋理工大学开展博士后研究，2018年加入华中科技大学国家精密重力测量科学中心（原引力中心）。主要从事光纤传感与精密测量方面的研究工作，包括光纤精密位移传感、光纤振动测量、高精度相位测量等；主持和参与国家自然科学基金项目、国家重点研发计划项目和“慧眼行动”创新成果转化项目等科研项目；以第一或通讯作者身份在*Optica*等期刊上发表学术论文30余篇；在OFC、CLEO等国际学术会议上发表论文20余篇；相关研究成果已申请或授权国家发明专利10余项。受邀担任*Opto-Electronic Advances*、*红外与激光工程*等期刊青年编委，担任*Advanced Photonics*、*Opto-Electronic Advances*、*Photonics Research*、*Measurement*等多个期刊审稿人。

INVITED PRESENTATION 5 | 特邀报告（五）



Zhou Yu 于舟 博士	Independent Consultant 独立顾问
Title 报告题目	Wavelet-transform based approaches to DAS denoise and resolution enhancement 基于小波变换的 DAS 降噪与分辨率增强方法
Time 报告时间	08:30-08:55 am, Sat/12 September 2026 2026年9月12日/周六, 上午08:30-08:55

Dr. Zhou Yu received a B.S. (1983) in marine geophysics from Ocean University ('83; Qingdao, China), a M.S. in geophysics from MIT ('96; Boston, MA) and a Ph.D. in geophysics from The University of Texas at Dallas ('01; Dallas, TX). Zhou has pioneered several wavelet-transformed based seismic data processing and non-intrusive corrosion detection tools over his 30+ year career in both industry and academia. Most recently, he worked in BP's Advanced Seismic Imaging group in theUpstream Technology organization for 20+ years. Zhou's interests lie in developing innovativesolutions to various signal process and analysis problems, including Kirchhoff migration operator anti-aliasing, 3D/2D land/VSP/DAS/OBN/ISS data denoise process, 3D multiple attenuation,3D/4D/5D conditioning data for AVO analysis, 3D inverse-Q seismic and 4D seismic process. He has published 20+ papers in peer-reviewed journals. He retired from BP in 2021 and has been an independent consultant since then.

Dr. Yu has designed and built Wavelet-Transformed based System (WTS) for seismic processing. Developed and implemented 100+computer modules in seismic process WTS, which has been applied successfully to various seismic imaging projects,includingOBN, Land, DAS, high-density ISS, and streamer. Features of WTS include automatic (minimum human interference), adaptive, efficient, effective and fast turnaround.

于舟博士获中国海洋大学海洋地球物理学学士学位（'83；中国青岛），麻省理工学院地球物理硕士学位（'96；马萨诸塞州波士顿），德克萨斯大学达拉斯分校地球物理博士学位（'01；得克萨斯州达拉斯）。在他30多年的工业和学术生涯中，于博士开创了几种基于小波变换的地震数据处理方法和非侵入式腐蚀管道检测工具。他在BP英国石油公司上游技术部门的高级地震成像小组工作了20多年。于博士的研究兴趣在于开发各种信号处理和分析问题的创新解决方案，包括Kirchhoff抗假频偏移算子、三维和二维的(land/VSP/DAS/OBN/IS)各种数据去噪处理、三维多次波(包括层间多次波)压制、用于AVO分析的3维，4维和5维数据处理、3维地震信号衰减补偿(逆Q)处理和4D地震数据处理。他在同行评审期刊发表20多篇论文。于博士于2021年从英国石油公司退休，并自那时起作为独立顾问为业界提供技术支持。

于博士设计并构建了基于小波变换的地震处理系统(WTS)，开发并程序化了基于小波变换(一维，二维和三维)的100多个计算机模块，已成功应用于各种地震成像项目，包括OBN、Land、DAS、高密度ISS和拖缆。WTS的特点是它的灵活和自适应性对各种噪声，包括强振幅的面波和无法预测的生产和下行波噪声，都非常有效。而且高效率，缩短传统去噪处理流程。



2026 SEG光纤传感技术高端产业学术论坛
2026 SEG High-end Industry-Academia Forum on Optical Fiber Sensing

CIOE & SEG 联合专场
CIOE & SEG Joint Session

 2026年9月10日下午
September 10 - PM, 2026

 深圳国际会展中心 南登录大厅一楼媒体中心A
Media Center A, Level 1, South Lobby West, Shenzhen World Exhibition & Convention Center

 MEETING SCHEDULE
会议日程

时间/Time	演讲题目/Topics	演讲嘉宾/Speakers
12:30-13:00	check-in 签到	
13:00-13:10	Opening Address by the Organizer 主办方致辞 Guest Speaker: Xuri Huang 致辞嘉宾: 黄旭日	
13:10-13:30	Using DAS for cross well seismic applications DAS在井间地震中的应用	Mark Willis, Independent Geophysical Consultant (USA), Former Chief Scientific Advisor of Borehole Seismics, Halliburton 独立地球物理顾问（美国），前哈里伯顿井孔地震学首席科学顾问
13:30-13:50	Engineering Applications of DAS in Oilfield Development and Safe Coal Mining DAS在油田煤矿行业的前沿应用	Zhengguang Zhao, Associate Professor, University of Emergency Management 赵争光，应急管理大学 副教授
13:50-14:10	Distributed Fiber Sensing for Geophysical Applications 分布式光纤传感技术在地球物理中的应用	Dawei Fang, Vice President, Smart Earth Sensing (Hefei) Technology Co., Ltd. 方大为，智地感知（合肥）科技有限公司 副总经理

时间/Time	演讲题目/Topics	演讲嘉宾/Speakers
14:10-14:30	An overview from ASL on innovations in downhole sensing technology for VSP, roadmap for future development VSP 井下传感技术创新综述与未来发展规划	Sebastien Soulas, VP New Ventures, AVALON SCIENCES LTD Sebastien Soulas, AVALON SCIENCES LTD 新业务副总裁
14:30-14:50	茶歇 & 自由交流 (20分钟) Coffee Break (20 mins)	
14:50-15:10	DAS for Subsurface Imaging and Monitoring DAS 在地下成像与监测中的应用	Kunpeng Liao, Lead DAS Specialist, Viridien 廖鲲鹏, Viridien 首席DAS专家
15:10-15:30	Research Status of Thermal Stability of Fiber Bragg Gratings 光纤光栅热稳定性的研究现状	Changzun Zhou, Technical Director, Guangchuan Sensing (Beijing) Technology Co., Ltd. 周长尊, 北京广川智感科技有限公司 技术总监
15:30-15:50	Integrated Application of Multi-Parameter Optical Fiber Sensing and Intelligent Interpretation 多参量光纤传感与智能解释的一体化应用	Xiaolin Cao, Founder and General Manager, Qingdao Guangqing Energy Technology Co., Ltd. 曹晓琳, 青岛光擎能源科技有限公司 创始人兼总经理
15:50-16:20	专家小组讨论 (30分钟) Panel Discussion (30 mins) 主持人: 王一博 Moderator: Yibo Wang	

*具体议程以现场为准
*Agenda is subject to change

KEYNOTE SPEAKERS
演讲嘉宾



Mark E. Willis

Mark E. Willis is an independent geophysical consultant. He retired from Halliburton in 2025 where he was Chief Scientific Advisor of Borehole Seismics. Before Halliburton he worked in various research technology, supervisory and management positions at Mobil Oil, Cambridge GeoSciences, Massachusetts Institute of Technology Earth Resources Laboratory, and ConocoPhillips. He has been responsible for mentoring technologists, developing and promoting geophysical innovations, and fostering long term client relationships.

In his career he has performed research and development in distributed acoustic sensing, VSP technology, deep sonic log processing and imaging, fracture identification using all types of seismic data, interferometric imaging, Kirchhoff and reverse time depth migration, machine learning, and velocity model building.

Willis holds a B.S. in Applied Math and Physics from the University of Wisconsin – Milwaukee and a Ph.D. in Geophysics from MIT. He has written over 100 papers, publications, and presentations, and holds over 30 patents. He is a member of the SEG, EAGE, and ASA.

Mark E. Willis是一位独立地球物理顾问。他于2025年从哈里伯顿公司退休，任职期间担任该公司井中地震领域的首席科学顾问。在加入哈里伯顿之前，他曾在美孚石油公司、剑桥地球科学公司、麻省理工学院地球资源实验室以及康菲石油公司担任多个研究技术、主管及管理职位。其职责涵盖指导技术团队、开发与推广地球物理创新技术，以及建立和维护长期客户关系。

在他的职业生涯中，他的研究与开发工作涉及多个前沿领域，包括：分布式声学传感、垂直地震剖面技术、深部声波测井处理与成像、基于各类地震数据的裂缝识别、干涉成像、克希霍夫与逆时深度偏移、机器学习以及速度建模。

Willis持有威斯康星大学密尔沃基分校应用数学与物理学学士学位，以及麻省理工学院地球物理学博士学位。他已发表超过100篇论文、出版物及报告，并拥有30多项专利。他是SEG, EAGE和ASA的会员。

**Zhengguang Zhao**

Dr. Zhengguang Zhao holds a Ph.D. from the University of Queensland, Australia, and is currently an Associate Professor at the University of Emergency Management. He served as President of the Geophysical Society at the University of Queensland for the 2017–2018 term and previously worked as a Senior Geophysicist for Australian publicly listed oil companies Pilot Energy and Denison Gas. He was the lead editor of the key national publication during China's 13th Five Year Plan period, Microseismic Monitoring Technology for Shale Gas Development.

Dr. Zhao's research focuses on the development of domestically developed DAS (distributed acoustic sensing) data processing and interpretation software with independent intellectual property rights. He is dedicated to advancing the application of DAS in oil and gas field development and coal mine safety monitoring. His team's software products, FracListen and Optix, are widely deployed for DAS monitoring across domestic oilfields and coal mines.

赵争光，澳大利亚昆士兰大学博士，应急管理大学副教授。曾任澳大利亚昆士兰大学地球物理学学会2017-2018年度主席，曾任职澳大利亚上市石油公司Pilot Energy和Denison Gas高级地球物理师，主编“十三五”国家重点图书《页岩气开发微地震监测技术》。赵博士专注于国产自主知识产权DAS数据处理解释软件研发，并致力于推动DAS在油气田开发和煤矿安全生产监测领域的应用，其团队研发的FracListen和Optix软件广泛应用于国内油田和煤矿的DAS监测。

**Dawei Fang**

Dawei Fang serves as Vice President of Smart Earth Sensing (Hefei) Technology Co., Ltd. He earned his degree from the Department of Geophysics, School of Ocean and Earth Science, Tongji University. With nearly two decades of professional experience in the oil-and-gas service industry, he has long focused on downhole microseismic fracturing monitoring and distributed fiber-optic sensing technologies (DAS & DTS). Within the company, he takes primary responsibility for hardware-software R&D of distributed fiber-optic sensing equipment and engineering deployment for diverse application scenarios. He bridges the full value chain from technical research and product development to field-site implementation. He is committed to advancing innovative adoption and industrial development of distributed fiber-optic sensing in geophysical exploration as well as oil-gas and mineral exploitation, driving progress in monitoring technologies and the industrial ecosystem amid the global energy transition.

方大为，智地感知（合肥）科技有限公司副总经理。毕业于同济大学海洋与地球科学学院地球物理系。拥有近 20 年油气服务行业工作经验，长期深耕井下微地震压裂监测以及分布式光纤（DAS/DTS）监测技术领域。目前在公司主要负责分布式光纤传感装备软硬件研发与应用场景工程化落地。打通技术攻关、产品实现与现场应用的完整链路，致力于推动分布式光纤传感技术在地球物理勘探、油气矿产开发中的创新应用与产业化发展，赋能能源转型背景下的监测技术进步与行业生态建设。

**Sebastien Soulas**

Sebastien Soulas is a borehole seismic geophysicist with over 30 years' experience. He is currently acting as VP New Ventures for Avalon Sciences in Somerton UK and is coordinating and building business strategies to facilitate company growth as well as driving innovation. He is still deeply involved in field operations, field testing and advise on internal/external technical matters. He also supports the R&D team for 3-C fibre optic sensors and DAS technology continuous development.

He has presented numerous technical papers on borehole Geophysics including DAS seismic at EAGE/SEG conferences and workshops promoting data value, synergy, technology adoption and integration with surface seismic. He played a key role in the installation, validation and operation of the world's first subsea DAS installation offshore Gulf of America a few years ago.

Sebastien Soulas井孔地震地球物理学家，拥有超过30年的行业经验。现任英国萨默顿Avalon Sciences公司新业务副总裁，负责统筹制定业务战略，推动企业发展与技术创新。他持续深度参与现场作业、设备测试，并为内外部技术事项提供专业咨询，同时支持研发团队在三分量光纤传感器和分布式声波传感（DAS）技术的持续迭代研发。

他在EAGE/SEG等国际会议及研讨会上发表了多篇关于井孔地球物理（包括DAS地震）的技术论文，积极推广数据价值、协同效应、技术应用及其与地面地震数据的融合。数年前，他在美国墨西哥湾海域成功参与并主导了全球首个海底DAS系统的安装、验证与运行，为行业树立了里程碑。

**Kunpeng Liao**

Kunpeng Liao is the Lead DAS Specialist at Viridien. His career has spanned various roles in subsurface characterization and operations, including petrophysics, well planning, and geophysics. He has extensive expertise in signal processing, seismic imaging, and full waveform inversion (FWI). In recent years, Kunpeng has specialized in subsurface imaging and monitoring using DAS data, with global experience in DAS VSP and seafloor DAS applications across the oil and gas industry and carbon capture and storage (CCS).

廖鲲鹏博士，现任Viridien公司首席DAS专家，毕业于德克萨斯大学奥斯汀分校。他的研究贯穿地下储层特征表征及开发生产等多方面，涵盖岩石物理、井眼规划及地球物理等多个领域，在信号处理、地震成像和全波形反演方面造诣深厚。近年来，廖博士专注于DAS数据在地下构造成像和储层监测中的应用，在油气开发及碳捕获与封存（CCS）领域，积累了丰富的DAS VSP及海底DAS处理与成像经验。

*Changzun Zhou*

Changzun Zhou, a senior fiber photonics expert and Canadian Chinese. He is an alumnus of Harbin Institute of Technology (Class of 1977), where he completed his bachelor's and master's degrees, and holds a doctorate from École Polytechnique de Montréal.

He has long served at ITF Technologies in Canada and devoted himself to the R&D and industrialization of Fiber Bragg Grating (FBG) devices. He led the process development of high-temperature metallized FBGs and special photosensitive fiber gratings, and is proficient in 248 nm UV laser inscription and packaging technologies for high-temperature-resistant gratings.

With years of overseas engineering experience in optical sensing components, he focuses on the development of core fiber sensing components for industrial and energy sectors, facilitating the industrial implementation of FBG and ultra-weak grating technologies. He maintains continuous connections with China's fiber sensing industry and promotes the technological iteration and localization of high-temperature fiber grating sensing technology.

周长尊，资深光纤光子学专家，加籍华人，哈工大 77 级老校友（本硕），蒙特利尔工学院博士；长期任职加拿大 ITF Technologies，深耕光纤光栅（FBG）器件研发与产业化。主导高温金属涂覆光纤光栅、特种光敏光纤光栅工艺开发，精通 248nm 紫外光刻写、耐高温光栅封装技术。拥有多年海外光传感器件工程经验，专注工业、能源领域光纤传感核心元器件研发，推动 FBG、超弱光栅工艺技术落地。持续对接国内光纤传感产业，助力高温光纤光栅传感技术国产化工艺迭代。

*Xiaolin Cao*

Xiaolin Cao serves as Founder and General Manager of Qingdao Guangqing Energy Technology Co., Ltd. She holds degrees from Emlyon Business School (France) and Texas A&M University (USA). Prior to her current role, she worked in private equity investment. Over the past several years, she has dedicated her efforts to the field of distributed fiber optic sensing, with a particular emphasis on the synergistic integration of multi-parameter sensing and intelligent interpretation algorithms. Her work is committed to providing integrated and highly reliable monitoring solutions tailored to the energy sector.

曹晓琳，青岛光擎能源科技有限公司创始人兼总经理。毕业于法国Emlyon商学院与美国德州农工大学（Texas A&M University），早期曾从事私募股权投资，近年来深耕分布式光纤传感领域，专注于多参量光纤传感技术与智能解释算法的融合创新，致力于为能源行业提供一体化、高可靠的光纤监测解决方案。

MEETING SCHEDULE

会议日程

11 September 2026, Friday		
Opening Ceremony Moderator: Gang Yu		
08:30-08:35	Hotel HSE Briefing	
08:35-08:40	Opening Remarks: Representative of SEG	Xuri Huang, Executive Director, SEG China
Session 1: Keynote & Invited Speaker Presentation Session Chair: Gang Yu		
Time	Title	Presenter
08:40-09:05	Keynote Speaker 1: The DAS Gauge Length Effect: Signal Detection	Mark Willis, Independent Consultant
09:05-09:30	Keynote Speaker 2: Recent Advances in Optical Fiber Distributed Acoustic Sensors (DAS)	Zuyuan He, Shanghai Jiao Tong University
09:30-09:55	Invited Speaker 1: AI-Driven Distributed Acoustic Sensing Technology and Industrial Applications	Liyang Shao, Southern University of Science and Technology
09:55-10:25	Group Photo/Acknowledgement/Coffee Break	
10:25-10:50	Invited Speaker 2: Kagoshima Earthquake ground motions recorded by the Bohai Bay DAS submarine cable	Lanbo Liu, Shandong University
10:50-11:15	Invited Speaker 3: Assessing the Potential of Distributed Fiber-Optic Sensing Networks for the Detection and Monitoring of Earthquake Precursors	Yingping Li, BlueSkyDas LLC & University of Houston (Virtual)
11:15-11:40	Invited Speaker 4: High-Precision Fiber-Optic Interferometric Vibration Sensing for Oil and Gas Seismic Exploration	Zhilin Xu, Huazhong University of Science and Technology, HUST
11:50-13:00	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: Zhilin Xu, Yibo Wang		
Time	Title	Presenter
13:40-14:00	Development and Experimental Validation of a Fiber-Optic OBC System	Junguang Nie, Beijing Shenzhou Puhui Technology Co., Ltd., Beijing
14:00-14:20	Multi-Fracture Inversion via Distributed Strain Sensing: A Case Study of HFTS Offset Wells	Shaohua You, China University of Petroleum (Beijing)
14:20-14:40	Application Practice and Prospect of Fiber-Optic Sensing Technology in Changqing Oilfield	Yingjie Li, Research Institute of Oil and Gas Technology, Changqing Oilfield Company, PetroChina
14:40-15:00	Experimental study on acoustic response law of horizontal wells with two-phase flow	Yixin Zhang, Southwest Petroleum University
15:00-15:20	A Reciprocal Fiber-Optic Differential Interferometer for Seismic Monitoring Applications	Haoyan Liu, Peking University
15:20-15:40	Coffee Break & Poster Presentation	
15:40-16:00	Phase-Modulated Continuous Wave Distributed Fiber Acoustic Sensor	Yu Wang, Taiyuan University of Technology
16:00-16:20	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
16:20-16:40	Reconstruction of Hydraulic Fracture Growth Process Using Distributed Acoustic Sensing: Method and Field Application	Wan'er Hou, SINOPEC Geophysical Research Institute Co., Ltd
16:40-17:00	Advances in the Application of Distributed Optical Fiber in CCUS Wells	Zhen Liu, Optical science& technology (Chengdu) Ltd. Co., BGP., CNPC
17:00-17:20	Acknowledgements & Award	
17:30-19:00	Dinner	

12 September 2026, Saturday		
Session 3: DAS Data Management, Simulation, Processing and AI Session Chair: Danping Cao, Jingjing Zong		
Time	Title	Presenter
08:30-08:55	Invited Speaker 5: Wavelet-transform based approaches to DAS denoise and resolution enhancement	<i>Zhou Yu, Independent consultant (Virtual)</i>
08:55-09:15	Modeling DAS seismic responses with optical-system effects	<i>Yi Yao, Institute of Geology and Geophysics, CAS</i>
09:15-09:35	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	<i>Yuanzhong Chen, Optical science& technology (Chengdu) Ltd. Co., BGP., CNPC</i>
09:35-09:55	Production Profile Interpretation of Horizontal Well from Distributed Acoustic Sensing (DAS)	<i>Tingting Zhou, Southwest Petroleum University</i>
09:55-10:15	Coffee Break & Poster Presentation	
10:15-10:35	Compression of Distributed Acoustic Sensing Measurements Using Deep Learning	<i>Xinyue Ma, China University of Geosciences, Beijing</i>
10:35-10:55	Dual domain generative adversarial network for DAS microseismic data noise suppression	<i>Jie Shao, Institute of Geology and Geophysics, CAS</i>
10:55-11:15	A Modeling Method of Distributed Acoustic Sensing for Multiphase Flow Monitoring in Natural Gas Hydrate Production Test Wells	<i>Xuemin Wu, Guangzhou Marine Geological Survey, China Geological Survey, Guangzhou</i>
11:15-11:35	Innovation of Optical-Fiber Oil-Gas Monitoring Technology and R&D of the HiFiber Software Platform	<i>Yuanyuan Li, SINOPEC Petroleum Exploration and Production Research Institute</i>
11:45-13:00	Lunch	

12 September 2026, Saturday		
Session 4: Imaging and Monitoring Session Chair: Zhengguang Zhao		
Time	Title	Presenter
13:20-13:40	Subsurface imaging and full waveform inversion using distributed acoustic sensing (DAS) data	Kunpeng Liao, Viridien
13:40-14:00	Evaluating the performance limits of DAS VSP versus 3C point sensors on hybrid wireline	Sebastien Soulas, AVALON SCIENCES LTD
14:00-14:20	Monitoring Fluid Acoustic-Velocity Profiles Using Distributed Acoustic Sensing and a Pumping-Unit Vibration Source	Xin Wang, Geological Research Institute, China National Logging Corporation
14:20-14:40	A Research on DAS-SOV Technology in Hydraulic Fracturing Monitoring for Deep Shale Gas	Fu Xu, Optical science& technology (Chengdu) Ltd. Co., BGP., CNPC
14:40-15:00	FBG Strain Monitoring Combined with Acoustic Emission for Hydraulic Fracturing Process Evaluation	Yingying Xu, China University of Petroleum (Beijing)
15:00-15:20	Coffee Break	
Session 5: Field Applications and Application Studies Session Chair: Yuanzhong Chen		
15:20-15:40	Distributed Acoustic Sensing in Laboratory-Scale Tank Experiments	CHAN, Yuen Yee, The Chinese University of Hong Kong
15:40-16:00	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)
16:00-16:20	Application and Research on Fiber-Optic VSP in Deep Shale Gas	Yu Wang, Optical science& technology (Chengdu) Ltd. Co., BGP., CNPC
16:20-16:40	DAS-Based 3D Microseismic Monitoring in Mining Areas: A Case Study of Pingdingshan	Longxiang Yang, Henan Earthquake Agency
16:40-17:00	Application of Fiber-Optic & Microseismic Joint Monitoring in Deep Coalbed Methane Hydraulic Fracturing	Feng Heng, BGP
17:00-17:20	Closing & Award Ceremony	

Poster Session				
11 September 2026, Friday, 15:20-15:40				
Session 1: Imaging and Monitoring Session Chair: Jingjing Zong				
Time	e-Screen	No.	Title	Presenter
15:20-15:25	1#	P01	Subsurface imaging and full waveform inversion using distributed acoustic sensing (DAS) data	Jiji Zhou, Tongji University
15:25-15:30	1#	P02	A Six-Component HVSR-Based Method for Single-Station Seismic Subsurface Imaging	Yuzheng Huang, Peking University
15:20-15:25	2#	P03	DTS-Based Inversion of Fiber-Optic Coupling Radial Distance in Downhole Environments	Junhao Hu, University of Chinese Academy of Sciences
15:25-15:30	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.
12 September 2026, Saturday, 09:55-10:15				
Session 2: Fiber Optics in Energy Transition Session Chair: Wenjie Hao				
09:55-10:00	1#	P04	Application of DAS-VSP for CCUS Monitoring in Western China	Cai Zhidong, Optical science& technology (Chengdu) Ltd. Co., BGP., CNPC
10:00-10:05	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:				
09:55-10:00	2#	P06	DAS versus Geophone VSP: Wavefield and Imaging Comparison	An Xie, University of Electronic Science and Technology of China
10:00-10:05	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

2026年9月11日，周五，上午		
大会开幕式 主持人：余刚		
08:30-08:35	酒店安全提示	
08:35-08:40	开幕致辞-SEG代表	黄旭日，SEG中国执行理事
单元一：主旨报告 & 特邀报告 单元主席：余刚		
时间	题目	报告人
08:40-09:05	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
09:05-09:30	主旨报告2：分布式声学传感（DAS）前沿进展	何祖源，上海交通大学
09:30-09:55	特邀报告1：AI驱动分布式声波感知技术及产业应用	邵理阳，南方科技大学
09:55-10:25	集体合照/致谢颁奖/茶歇	
10:25-10:50	特邀报告2：基于渤海湾DAS海底光缆的鹿儿岛地震动记录	刘澜波，山东大学
10:50-11:15	特邀报告3：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（线上）
11:15-11:40	特邀报告4：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
11:50-13:00	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：徐志林，王一博		
时间	题目	报告人
13:40-14:00	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
14:00-14:20	基于分布式应变传感的多裂缝反演：HFTS 邻井案例研究	尤少华，中国石油大学（北京）
14:20-14:40	光纤传感技术在长庆油田应用实践与展望	李颖捷，中国石油长庆油田油气工艺研究院
14:40-15:00	两相流水平井声波响应规律实验研究	张怡馨，西南石油大学
15:00-15:20	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
15:20-15:40	茶歇 & 张贴报告	
15:40-16:00	调相连续波分布式光纤声波传感器	王宇，太原理工大学
16:00-16:20	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
16:20-16:40	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
16:40-17:00	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
17:00-17:20	致谢颁奖	
17:30-19:00	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：曹丹平，宗晶晶		
时间	题目	报告人
08:30-08:55	特邀报告5：基于小波变换的 DAS 降噪与分辨率增强方法	于舟，独立顾问（线上）
08:55-09:15	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
09:15-09:35	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
09:35-09:55	基于DAS的水平井产出剖面反演解释	周婷婷，西南石油大学
09:55-10:15	茶歇 & 张贴报告	
10:15-10:35	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）
10:35-10:55	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
10:55-11:15	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
11:15-11:35	光纤油气监测技术创新与HiFiber软件平台研发	李媛媛，中国石化石油勘探开发研究院
11:45-13:00	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：赵争光		
时间	题目	报告人
13:20-13:40	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
13:40-14:00	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
14:00-14:20	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
14:20-14:40	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
14:40-15:00	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	王宇，太原理工大学
15:00-15:20	茶歇	
单元五：现场应用与案例研究 单元主席：陈沅忠		
15:20-15:40	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
15:40-16:00	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）
16:00-16:20	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
16:20-16:40	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
16:40-17:00	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
17:00-17:20	闭幕式 & 颁奖	

张贴报告				
2026年9月11日，周五，15:20-15:40				
单元主题1：成像与监测技术 单元主席：宗晶晶				
时间	显示屏编号	报告编号	Title	报告人
15:20-15:25	1#	P01	基于DAS数据的S波速度反演方法	周继继，同济大学
15:25-15:30	1#	P02	基于六分量HVSr的单站地下地震成像方法	黄征宇，北京大学
15:20-15:25	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
15:25-15:30	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年9月12日，周六，09:55-10:15				
单元主题2：光纤传感在能源转型中的应用 单元主席：郝文杰				
09:55-10:00	1#	P04	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
10:00-10:05	1#	P05	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：				
09:55-10:00	2#	P06	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
10:00-10:05	2#	P07	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

EXHIBITION
展览

Exhibit Hours 展览时间

08:30-17:30, Friday 11 September 9月11日 星期五 08:30-17:30
08:30-17:30, Saturday 12 September 9月12日 星期六 08:30-17:30

Exhibitors List (in order of booth #)
参展商名单(按展位号排序)

Suzhou Lanwair Intelligent Technology Co.,LTD 苏州三合智能科技有限公司	Booth 01
Wuxi Huixian Zhigan Technology Co., Ltd. 无锡慧纤知感科技有限公司	Booth 02
Zhidi Perception (Hefei) Technology Co., Ltd. 智地感知（合肥）科技有限公司	Booth 03
Avalon Sciences Ltd	Booth 04
Harbin Realphotonics Technology Co., Ltd. 哈尔滨睿科光电科技有限公司	Booth 05
Beijing Great Luster Technology Ltd 北京巨泽科仪科技有限公司	Booth 06
Optisoft (Beijing) Technology Co., Ltd. 光软（北京）科技有限责任公司	Booth 07
Jiangsu Huaneng Cable Co., Ltd. 江苏华能电缆股份有限公司	Booth 08
Puniu (Shanghai) Technology Co., Ltd. 朴牛（上海）科技有限公司	Booth 09
Qingdao Guangqing Energy Technology Co., Ltd. 青岛光擎能源科技有限公司	Booth 10
Sinopec Geophysical Research Institute Co., Ltd. 中石化石油物探技术研究院有限公司	Booth 11

苏州三合智能科技有限公司
Suzhou Lanwair Intelligent Technology Co.,LTD

地址：（苏州）苏州工业园区澄湾路19号1幢1106室 （北京）北京市朝阳区北苑2号院（三合智能北京分公司）
（广州）广州市海珠区新港西路135号中山大学（南校区）国家大学科技园A座8层
电话：136 2133 8042；010-8286 0760；020-8415 8991
官网：www.lanwair.com



Booth#01

Suzhou Lanwair Intelligent Technology Co.,LTD. is dedicated to the field of geoscientific exploration, with operations spanning land, marine, and aerial survey sectors.

Since its establishment, Lanwair has established strategic partnerships with internationally renowned companies such as Silixa Ltd (UK), Sensors & Software Inc. (Canada), Geophex Ltd (USA), GF Instruments s.r.o (Czech Republic), and ESG Solutions (Canada), GDD Instruments inc.(Canada), etc, and is fully responsible for the marketing, sales, and technical after-sales service of their products in the Chinese market.

The company has subsidiaries and representative offices in Beijing, Guangzhou, Hong Kong, and Jiangxi, and its distribution network extends nationwide.

Primary Products of Silixa: Silixa iDAS-MG; Silixa iDSS; Silixa DTS.

三合智能公司专注于地球科学探测技术领域，业务覆盖陆地、海洋与航空探测领域。

自成立以来，三合智能已与英国Silixa公司、加拿大Sensors & Software公司、美国Geophex公司、捷克GF仪器公司、加拿大ESG公司、加拿大GDD公司等国际知名企业建立战略合作关系，全面负责其产品在中国区域的市场销售及技术售后服务。

公司在北京、广州、香港、江西设有子公司及代表处，分销网络覆盖全国。

英国Silixa公司主营产品：



Silixa iDAS-MG



Silixa iDSS



Silixa DTS



无锡慧纤知感科技有限公司

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Booth#02

Wuxi Intelligent Fiber Sensing Technology Co., Ltd. ("Intelligent Fiber Sensing") is a high-tech enterprise established with the support of Wuxi Research Institute of HUST and Wuxi Industrial Innovation Research Institute. Leveraging 20 years of fiber-optic sensing expertise from HUST and Wuhan National Laboratory for Optoelectronics, the company specializes in designing and fabricating specialty sensing fibers and developing intelligent sensing systems for diverse applications.

The company has released China's first industrialized platform for continuous direct writing of micro-structured fibers on standard optical fibers. Through flexible discretization processing, its distributed acoustic sensing (DAS) system achieves picostrain-level detection sensitivity across a broad bandwidth from infrasound to ultrasound, enabling distributed measurement of seismic waves, acoustic signals, micro-vibrations, and micro-strains. Its solutions serve infrastructure monitoring in oil & gas pipelines, exploration, mining, transportation tunnels and bridges, and marine hydrology.

The R&D team holds 28 core patent applications (including 1 PCT), with 22 authorized invention patents and 7 software copyrights. Its innovations have earned the First Prize of the China Institute of Communications Science and Technology Award, the First Prize of the Chinese Optical Engineering Society Technological Innovation Award, and a Gold Award at the Geneva International Invention Exhibition.

无锡慧纤知感科技有限公司（简称“慧纤知感”）是在华中科技大学无锡研究院和无锡市产业创新研究院支持下成立的一家高科技企业。公司依托华中科技大学和武汉光电国家研究中心两大国家级科研平台积累的二十年光纤传感研究经验，致力于特种传感光纤的设计制备以及光纤智能感知系统的研发和场景应用推广。

慧纤知感发布国内基于成品光纤连续直写的微结构光纤工业化制备平台，通过对光纤进行灵活的离散化处理，将分布式声波传感系统的探测能力优化至皮应变级，响应带宽涵盖次声到超声，可应用于地震波、声波、微振动和微应变等的分布式测量。分布式光纤传感产品和应用场景解决方案可广泛应用于油气管网、油气勘探、矿山、交通桥隧、海洋水文等基础设施的分布式监测。

慧纤知感研发团队共申请核心专利28项（包括PTC国际专利1项），其中获授权发明专利22项、取得软件著作权登记7项、获得中国通信学会科学技术一等奖、中国光学工程学会科技创新一等奖及日内瓦国际发明展金奖。

智地感知（合肥）科技有限公司

Smart Earth Sensing (Hefei) Technology Co., Ltd.

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Booth#03

Smart Earth Sensing (Hefei) Technology Co., Ltd., a USTC-incubated spin-off, holds National High-Tech Enterprise and Anhui "Specialized & Innovative SME" status. Its core technology, originating from USTC, focuses on distributed fiber-optic sensing, geophysics, and AI—integrating independent hardware, proprietary software, and intelligent systems. As one of the few Chinese companies with full in-house R&D capabilities across hardware, algorithms, applications, and field deployment, it holds competitive advantages in critical technology and domestic substitution.

Our mission: "To provide the world's best fiber-optic sensing solutions." Commercialized products include the ZD-DAS system, ZD-DTS system, geophysical software suites, and vibration-based monitoring systems—serving geoscience, oil & gas, energy safety, marine monitoring, urban exploration, and smart transportation.

Going forward, Smart Earth Sensing will continue advancing core sensing technologies and industrial upgrades, committed to independent innovation, quality, and service—empowering frontier research, infrastructure, and smart cities, with the goal of becoming a globally recognized leader in fiber-optic sensing.

智地感知（合肥）科技有限公司是中国科学技术大学赋权改革首批孵化企业，国家级高新技术企业及安徽省“专精特新”中小企业。公司核心技术源自中国科大，专注于分布式光纤传感、地球物理与AI的交叉研究及工程转化，构建了覆盖自主硬件、自研软件与智能系统集成的一体化产品体系。作为国内少数具备底层硬件、核心算法、行业应用及工程实施全链条自主研发能力的企业，公司在关键技术与国产化替代方面形成显著竞争优势。

以“为全世界提供最好的光纤感知解决方案”为使命，依托中国科学技术大学核心技术，智地感知已规模化落地的产品包括分布式光纤地震仪(ZD-DAS)、分布式光纤温度监测仪(ZD-DTS)、地球物理行业软件及基于振动信号的智能监测系统等，业务覆盖地球科学研究、油气开采、能源安全、海洋环境、城市地下空间勘探及智慧交通等领域。

面向未来，智地感知将持续聚焦光纤感知核心技术的迭代突破与产品工业化升级，坚持技术自主可控、产品品质卓越、服务专业高效，以科技创新赋能前沿科学研究、重大基础设施与智慧城市建设，致力于成为全球光纤感知领域的领先品牌。



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Booth#04

Avalon Sciences is a specialist in borehole seismic technology, with more than 20 years of experience in the innovation, design and manufacture of downhole seismic instrumentation. The company is recognised for its expertise in Vertical Seismic Profiling (VSP) and downhole microseismic monitoring, providing bespoke solutions for challenging well environments. Avalon combines dedicated R&D with experienced global operations and technical support to meet individual client requirements.

A key innovation is BOSS™ (Borehole Optical Seismic System), a passive fibre-optic downhole seismic platform designed for deep and challenging wells. With electronics retained at surface, a continuous operating temperature rating of 260°C and robust mechanical coupling, BOSS™ provides a durable and flexible solution for applications including deep-well subsalt 4D timelapse and high-resolution fracture monitoring.

Avalon Sciences 是一家专注于井孔地震技术的专业公司，在井下地震仪器的创新、设计与制造领域拥有超过20年的经验。公司在垂直地震剖面（VSP）和井下微地震监测方面具有深厚的技术实力，能够为复杂井况环境提供定制化解决方案。Avalon将自主研发与成熟的全球运营及技术支持相结合，以满足不同客户的个性化需求。

公司的核心技术之一是 BOSS™（井下光纤地震系统），这是一个专为深井及复杂井况设计的无源光纤井下地震平台。BOSS™ 将电子设备置于地面，具有连续耐温260°C的能力和可靠的机械耦合性能，为深井盐下四维时移监测和高分辨率裂缝监测等应用提供了一种耐用且灵活的解决方案。

哈尔滨睿科光电科技有限公司

Harbin Realphotonics Technology Co., Ltd.

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Booth#05

Harbin Realphotonics Technology Co., Ltd. ("Realphotonics") specializes in research and development, manufacturing, and commercialization of high-performance distributed fiber-optic sensing technologies and integrated systems. Using the optical fiber itself as the sensing medium, the technology enables continuous, real-time monitoring of strain, temperature, and vibration across millions of sensing points over hundreds of kilometers, offering significant advantages over conventional point-based sensors. Distributed fiber-optic sensing has become a critical technology for structural health monitoring of large-scale infrastructure and wide-area geological hazard surveillance.

The project team has independently developed a comprehensive portfolio of distributed fiber-optic sensing analyzers backed by proprietary intellectual property. These have received multiple top-tier honors, including first prizes from the Chinese Society for Optical Engineering, the China Petroleum and Chemical Industry Federation, the Heilongjiang Provincial University Science and Technology Achievement Award, and the laser industry's "Halo Award." An expert evaluation committee concluded that "the overall performance of the instruments surpasses that of comparable international products, breaks foreign technological monopolies, and has reached an internationally leading level."

哈尔滨睿科光电科技有限公司（Realphotonics Co., Ltd.）专注于高性能分布式光纤传感技术及其应用系统的研发、生产与推广。该技术以光纤本身为传感器，可实现应变、温度、振动等多参数的连续实时监测，监测点位达百万级，测量距离达百公里级，相较传统点式传感器优势显著，已成为大尺度基础设施结构健康监测及大范围地质灾害监测的关键技术手段。

项目团队自主研发的系列化分布式光纤传感分析仪具备完全自主知识产权，荣获第十一届中国光学工程学会科学技术奖科技进步奖一等奖、2025年中国石油和化学工业联合会科技进步奖一等奖、黑龙江省高校科学技术成果一等奖及中国激光行业“光环奖”。科技成果评价委员会评价认为：“仪器综合性能优于国外同类产品，打破了国外技术垄断，成果达到国际领先水平。”

**北京巨泽科仪科技有限公司**
Beijing Great Luster Technology Ltd

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**Booth#06**

Beijing Great Luster Technology Ltd. (abbreviated as GLT, also referred to as Great Luster Technology) The company specializes in four core business areas: distributed optical fiber sensing, non-contact visual measurement, sensors and data acquisition, as well as geotechnical engineering. We are committed to building a comprehensive high-tech service platform integrating independent R&D, brand distribution, import & export trading and technical services.

We have established an in-depth cooperative partnership with Sintela UK to supply industry-leading distributed fiber-optic DAS equipment for domestic customers. As a global frontrunner in distributed fiber-optic sensing, Sintela UK has developed the ONYX series, which delivers an ultra-long detection distance of 200 kilometers per channel and boasts world-class technical capabilities in the industry.

北京巨泽科仪科技有限公司（英文名称Beijing Great Luster Technology Ltd，简称：巨泽科仪 Great Luster Technology，英文缩写GLT）。公司深耕分布式光纤传感、非接触视觉测量、传感器与数据采集、岩土工程四大核心业务领域，着力打造集自主研发、品牌代理、进出口贸易、技术服务于一体的综合性高科技服务平台。

公司与英国 Sintela 建立深度合作关系，面向国内客户供应行业顶尖分布式光纤 DAS 设备。英国 Sintela 为全球分布式光纤传感头部企业，旗下 ONYX 系列产品可实现单通道 200 公里超长探测距离，技术实力行业领先。

光软（北京）科技有限责任公司
Optisoft (Beijing) Technology Co., Ltd.

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**Booth#07**

OptaSoft is a corporate dedicated in providing distributed fiber-optic sensing (DFOS) services. We are committed to providing DFOS solutions for oil and gas exploration and development, mining, urban underground space, carbon sequestration, enhanced geothermal system projects. OptaSoft boasts a series domestic proprietary software products, which have made breakthroughs in DFOS data processing and interpretation, and broken up software blockade from foreign companies. OptaSoft has been awarded with a series software copyrights and invention patents related to DFOS data processing and interpretation.

OptaSoft's technical team has independently developed the Optix series of multi-scenario DFOS data processing and interpretation software. Optix series software aim to provide data processing and interpretation solutions for various applications, with OptixFrac for hydraulic fracturing monitoring, OptixProduction for production profiling, OptixLeakage for well integrity evaluation and OptixListen for microseismic monitoring. OptaSoft, among many DFOS service providers, is the first company in China that has successfully developed and commercialized software products for hydraulic fracturing and production profiling of oil and gas wells.

OptaSoft has established collaboration partnerships with multiple domestic oil giants and mining corporations. We are committed to spare every effort in developing Optix series software and digital solutions in order to provide more comprehensive services.

光软（北京）科技有限责任公司（以下简称“光软”）是一家行业领先、赋能百业、专注于分布式光纤监测技术服务的科技创新企业。我们致力于为油气勘探开发、矿山开采、城市地下空间、碳封存、地热等项目提供分布式光纤监测解决方案。光软拥有一系列自主研发的国产软件，攻克了数据处理解释的“卡脖子”算法，突破了国外企业对该领域软件的封锁，并取得一系列软件著作权、发明专利等知识产权。

光软技术团队自主研发了Optix系列多场景分布式光纤监测软件，在油田压裂监测、产液剖面监测、井筒泄漏监测、微震监测四个领域均有成熟的软件产品，分别为OptixFrac, OptixProduction, OptixLeakage和OptixListen。光软是国内首家研发出油田压裂剖面和产液剖面监测软件的公司。

光软已经与国内多家油田及矿山企业建立了合作关系。我们将深耕Optix系列软件产品和数字化解决方案，为行业提供更加完善的服务。

**江苏华能电缆股份有限公司****Jiangsu Huaneng Cable Co., Ltd.**

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**Booth#08**

Jiangsu Huaneng Cable Co., Ltd. focus on cable manufacturing over 50 years. We are industrial standard constitutor of Wireline Logging Cable in China. Since 1997, through technology introduction, digestion, absorption and re innovation, Huaneng company has achieved a perfect transformation from industry followers to industry leaders, has kept the pursuit of product quality for over 50 years, and provided the best quality and cost-effective products for the field of energy exploration and development in China.

江苏华能电缆股份有限公司是有着50年电缆生产历史的国家高新技术企业,是油气井用承荷探测电/光缆行业标准制定者。从1997年起,通过技术引进、消化、吸收与再创新,华能公司实现了从行业追随者到行业领军者的蜕变,保持着五十多年如一日精益求精的对产品品质的追求,为我国的能源勘探和开发领域提供高品质、高性价比的产品。

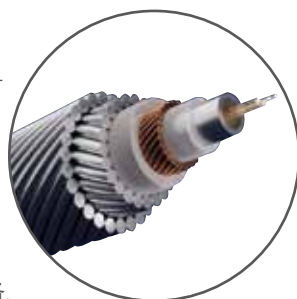
主要产品 Major Products

With cable sizes of industry standards, Huaneng's fiber optic products are compatible with standard electrical pipeline pressure control equipment, single-core casing well logging tools, and cabletraction equipment. They can be either deployed in inclined shafts or horizontal wells, pumped or towed downwards.

华能的光纤产品采用行业标准的电缆尺寸,可与标准电气管线压力控制设备、单芯套管井测井工具以及电缆牵引设备相兼容。可以部署在斜井或水平井中,可以向下泵送或牵引。

Distributed fiber optic sensing wireline cable products can be used to detect temperature, monitor wellbore activity throughout the entire cable length, and can also be used for remote sensing directional fiber optic sensors, such as pressure transducer or strain transducer, with the combination of distributed acoustic sensing (DAS) and distributed temperature sensing (DTS) methods, it can be used to measure weak signal strain and microseismic events between wells, and obtain high-quality logging data.

分布式光纤传感承荷探测电缆产品可以用来探测温度,监听整个电缆长度的井筒活动,也可以用来遥测指向光纤传感器,如压力传感器或应变传感器等;应用分布式声学传感系统(DAS)和分布式温度传感测量系统(DTS)相结合的方法,能够测量井间弱信号应变和微地震事件,获取高质量的测井数据。

**朴牛(上海)科技有限公司****Puniu (Shanghai) Technology Co., Ltd.**

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**Booth#09**

Puniu (Shanghai) Technology Co., Ltd. was established in August 2018 and is registered at No. 555 Dongchuan Road, Minhang District, Shanghai (within the Shanghai Zizhu National High-Tech Industrial Development Zone). As a National High-Tech Enterprise spun off from Shanghai Jiao Tong University through industry-academia-research collaboration, Puniu specializes in the R&D, manufacturing, and commercialization of high-precision Distributed Acoustic Sensing (DAS) technology.

Backed by a core team with deep expertise in optical path architecture, digital signal processing, and intelligent perception algorithms, the company has overcome critical technical bottlenecks related to sensing distance, spatial resolution, and coherent fading noise. Leveraging its proprietary TGD-OFDR (Time-Gated Digital Optical Frequency Domain Reflectometry) scheme, Puniu independently developed the HiFi-DAS high-fidelity distributed acoustic sensing system. This system boasts internationally advanced specifications, including an ultra-long sensing range (100 km per channel), sub-meter spatial resolution (0.3 m), high strain sensitivity (better than $3 \mu\epsilon/\sqrt{\text{Hz}}$), and an ultra-wide response bandwidth (0.001 Hz–200 kHz).

We look forward to collaborating with research institutes, universities, and geophysical service companies to jointly advance the application and development of DAS technology in the field of geophysics.

朴牛(上海)科技有限公司成立于2018年8月,注册于上海市闵行区东川路555号(上海紫竹国家高新技术产业开发区),是依托上海交通大学产学研技术转化成立的高新技术企业,专注于高精度分布式光纤声波传感(DAS)技术的研发、制造与产业化应用。

公司核心团队长期深耕光路结构、数字信号处理与智能感知算法。基于TGD-OFDR(时间门控数字光频域反射)方案,攻克了传感距离、空间分辨率、相干衰落噪声等关键技术瓶颈,自主研发出HiFi-DAS高精度分布式光纤声波传感系统,具备超长传感距离(单通道100km)、亚米级空间分辨率(0.3m)、高应变灵敏度(优于 $3\mu\epsilon/\sqrt{\text{Hz}}$)与宽响应带宽(0.001Hz-200kHz)等国际先进指标。

愿与相关科研院所、高校、地球物理公司合作,共同推动DAS技术在地球物理领域的应用及发展!

**中石化石油物探技术研究院有限公司**
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**Booth#11**

Sinopec Geophysical Research Institute Co., Ltd. (SGRI, Sinopec), is China's only specialized seismic R&D institution, serving as Sinopec's "One Department and Three Centers" (advisory, R&D, software promotion, engineering support). Covers all geophysical domains except acquisition, undertaking major national and Sinopec projects. The institute has strong human resources, with 87.8% technical professionals, 72.3% holding master's or doctoral degrees, and 50.9% holding senior or higher titles. It comprises 1 group senior expert, 18 chief and senior experts, 5 State Council special allowance recipients, 6 outstanding experts, 18 Min Enze Youth Award winners, and 9 Sinopec innovation teams.

The institute operates two research campuses in Weigang and Jiangning in Nanjing, China. Facilities include 10+ internationally leading lab systems and Sinopec's largest geophysical cloud computing center (16 clusters, 2,300 CPU + 450 GPU nodes, 2.1 petaflops, 42 PB storage, 30,000 km²/year processing). Awards: 51 provincial/ministerial+ prizes, including National First-Class Science Progress and Second-Class Invention prizes. Filed ~1,800 patents, 600+ granted, 170+ software copyrights. Publishes SCI journal JGE (IF=1.477) and Chinese core Petroleum Geophysics (IF=1.657). Maintains long-term cooperation with SEG, EAGE, and 11 international institutions; hosts SEG Southern China Chapter and chairs Jiangsu Geophysical Society.

中石化石油物探技术研究院有限公司（简称“物探院”）是全国唯一成建制的专业化地震勘探研发机构，定位“一部三中心”（参谋部、研发中心、软件推广中心、工程支持中心），覆盖除野外采集外全部物探业务，承担国家及中石化重大项目，为集团总部及油田企业提供全方位技术支持与服务。人才团队充实，专业技术人员占87.8%，硕博占72.3%，高级及以上职称占50.9%；集团高级专家1人、首席及高级专家18人，国务院特贴5人，突出贡献专家6人，闵恩泽青年奖18人，优秀创新团队9个。

物探院拥有卫岗、江宁两大科研基地，装备国际领先实验装备10余套，建有中石化最大地球物理云计算中心（16套集群，2300 CPU+450 GPU节点，算力2.1亿亿次/秒，存储42PB，年处理3万km²）。累计获省部级以上奖51项（含国家科技进步一等奖、技术发明二等奖各1项），申请专利近1800件，授权600余件，软著170余件。主办SCI期刊《JGE》（IF=1.477）及中文核心《石油物探》（IF=1.657），与SEG、EAGE等国际机构深度合作，设SEG中国南方分部，为江苏省地球物理学会理事长单位。

**青岛光擎能源科技有限公司**
Qingdao Guangqing Energy Technology Co., Ltd.

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**Booth#10**

Qingdao Guangqing Energy Technology Co., Ltd. is focused on the industrial application of distributed fiber optic sensing technology in oil and gas exploration and production. The company integrates multi parameter sensing systems, including DAS, DTS, DSS, and fiber optic pressure/temperature sensors, enabling full wellbore, full lifecycle data acquisition. It independently develops and manufactures high precision, high reliability equipment and offers a one stop solution covering "process design, data acquisition, interpretation & evaluation, and cloud based data sharing."

Guangqing Energy has contributed to the drafting of two national standards, promoting the standardized industrial application of fiber optic sensing technology. Its products have demonstrated proven accuracy and reliability in tests across several national level oil and gas projects, including shale oil fracturing monitoring, horizontal well production profile analysis, casing deformation monitoring, and long term safety early warning for underground gas storage. The proprietary interpretation software supports dual mode deployment: on site rapid interpretation via the on premises host system, and cloud based long term monitoring with cloud based sharing of results — delivering a complete closed loop solution from downhole data to reservoir decision making.

青岛光擎能源科技有限公司专注于分布式光纤传感技术在油气勘探开发领域的产业化应用，集成DAS、DTS、DSS及光纤温压等多参量传感系统，具备全井筒、全生命周期的数据感知能力。公司自主研发生成高精度、高可靠性设备，并提供“工艺+采集+解释评价+云端共享”一站式解决方案。

公司参与两项国家标准编写，推动光纤传感技术的行业规范化应用；产品在页岩油压裂监测、水平井产剖分析、套管形变监测及储气库长期安全预警等多个国家重点油气项目测试中精度与可靠性得到充分验证。自研解释软件支持双模式部署——主机端现场快速解释与云平台长期监测、成果云端共享，为客户提供从井下数据到油藏决策的完整闭环。



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VIRIDIEN

Viridien is an advanced technology, digital and Earth data company that pushes the boundaries of science for a more prosperous and sustainable future. With our ingenuity, drive and deep curiosity we discover new insights, innovations, and solutions that efficiently and responsibly resolve complex natural resource, digital, energy transition and infrastructure challenges.

Viridien是一家专注于前沿技术、数字化及地球数据领域的企业，不断突破科学边界，助力打造繁荣且可持续的未来。凭借独创能力、进取精神与深度探索的求知热忱，我们挖掘全新认知、打造创新成果、提供定制解决方案，以高效合规的方式，攻克自然资源、数字化转型、能源转型与基础设施建设领域的各类复杂难题。



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