

# 5<sup>th</sup> EAGE Workshop on Fiber Optic Sensing for Energy Applications

3-4 JULY 2025 • KUALA LUMPUR, MALAYSIA

# Programme

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# **TECHNICAL COMMITTEE**

The Technical Programme Committee is integral to the workshop and enables EAGE to continue its mission in the development and application of geosciences to promote innovation and technical progress in communities worldwide.

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AP. Ir. Dr. Hisham Mohamad	Universiti Teknologi PETRONAS
Harrison Moore	SHEARWATER
Dr. Henry Debens	Woodside Energy



# **WORKSHOP OVERVIEW**

The workshop will focus on recent developments in fiber optic sensing, including high-value use cases, technology drivers, and emerging trends. We aim to bring together current and prospective technology end-users, problem owners, and experts in sensor hardware, tools, fibers, cables, interrogators, and applications. Topics will cover a wide range of uses, such as seismic imaging, downhole monitoring, reservoir surveillance, and more.

This workshop is designed to cater to professionals engaged in Energy Transition, including those in the oil and gas, geothermal, CCUS, and other linked sectors, such as geoscientists, geophysicists, reservoir engineers, well completion specialists, data scientists, civil engineers, and marine professionals. We are inviting both industry practitioners and researchers in the fiber optic sensing field to contribute to the workshop.

### Key highlights will include:

- Fiber Optic Sensors: Combining distributed and point sensors, such as 3C fiber optic sensors, for diverse applications.
- Infrastructure Monitoring: Focusing on structural health, civil engineering, and smart cities applications.
- Marine Acquisition: Addressing subsea applications, underwater acoustics, and the security of cables for underwater deployments.
- Reservoir Monitoring and Surveillance: Key applications in oil and gas, with a focus on reservoir monitoring and surveillance for improved reservoir management.
- Fiber Optic Applications Across Oil Fields: Exploring how fiber optic technologies support the oil and gas industry in reservoir monitoring, well completion, and overall field management.
- Novel and Emerging Use Cases: Identifying and exploring innovative fiber optic sensing technologies and their potential applications in various industries.



# **STRATEGIC PROGRAMME**

### **Opening & Keynote Address Speaker**



**M. Zabuddin M. Zawawi** Custodian (Acquisition) PETRONAS

### **Keynote Speakers**



**Dr. Gang Yu** Senior Technical Advisor to the President BGP, Inc.

Keynote Title: Junggar Basin 3D DAS-VSP Data Acquisition , Processing and Integrated Interpretation



**Dr. Pierre Bettinelli** Reservoir Performance Fiber Optics, Geophysics Technical Director

SLB Keynote Title: Transforming Subsurface Understanding and Monitoring: DAS, Elastic FWI, and Microseismic

### **Panel Moderator**



**Prof. Dr. Roman Pevzner** Professor Curtin University



### **Panel Speakers**



**M. Zabuddin M. Zawawi** Custodian (Acquisition) PETRONAS



**Dr. Pierre Bettinelli** Reservoir Performance Fiber Optics, Geophysics Technical Director SLB



**Dr. Xue Ziqiu** Chief Researcher, CO 2 Storage Research Group

Research Institute of Innovative Technology for the Earth (RITE)



**Dr. Gang Yu** Senior Technical Advisor to the President BGP, Inc.



Mr. Christophe Maisons Technology Fellow FEBUS Optics



**Dr. Mahmoud Farhadiroushan** Executive Director Silixa

# **PANEL DISCUSSIONS**

Panel Discussion: Benefits on Fiber Optic Sensing for the Energy Transition Thursday, 3 July 2025, 1100 – 1230 hrs (UTC+8) -Ballroom 2 (Level 10), Imperial Lexis Kuala Lumpur

# **GENERAL INFORMATION**

### Venue Information

Ballroom 2 (Level 10), Imperial Lexis Kuala Lumpur Address: 15 Jalan Kia Peng, 50450 Kuala Lumpur, Malaysia Website: www.imperiallexiskl.com/ Contact: +603 2177 1188 Main Reservations Line: +603 2083 0933 Email: stay@imperiallexiskl.com

### How to Get There: Transportation

• Public transport: Conlay MRT Station - Estimated 2 minutes drive (260m)

### From Kuala Lumpur International Airport:

- By public transport: Board the KLIA Transit to KL Sentral Transit Hub and switch to MRT line
- By car: Estimated 1 hour drive (Terminal 1: 158km / Terminal 2: 258km)
- Shuttle service: Imperial Lexis Kuala Lumpur offers shuttle service at an additional charge. Once you have made your reservation, you can arrange the airport shuttle directly with the Concierge desk.

### **EAGE** Registration Desk

We encourage delegates to visit the EAGE Registration Desk to learn about membership benefits and upcoming events to make the most of your EAGE involvement. We welcome feedback on EAGE's activities for us to improve upon our membership services.

### Badge collection will open at the following times:

3 July 2025 - 7.30 am – 9.00 am (UTC +8) - Ballroom 2 (Level 10), Imperial Lexis Kuala Lumpur 4 July 2025 - 8.00 am – 9.00 am (UTC +8) - Ballroom 2 (Level 10), Imperial Lexis Kuala Lumpur

### **Upload Desk**

If you have any questions about the technical programme or wish to upload their presentation slides on-site, please refer to EAGE Staff at the AV Console at the following times. Speakers are encouraged to upload/email their presentation slides in advance of the session.

### **Upload Onsite**

2 4 100 2025	7.30 am -	Ballroom 2 (Level 10),
5 - 4 July 2025	9.00 am (UTC +8)	Imperial Lexis Kuala Lumpur

### **Poster Presentations**

We encourage delegates to attend and visit the Poster Presentations during the AM & PM Break (Day 1) at Ballroom 2 (Level 10), Imperial Lexis Kuala Lumpur.

### Luncheon

3 July 2025	12.30 pm - 1.45 pm (UTC +8)	Roselle Coffee House (Level
4 July 2025	- 12.20 pm 2.20 pm (UTC +8)	Lumpur

### **Networking Reception**

All workshop delegates are cordially invited to the Networking Reception

3 July 2025 5.25 pm - 6.55 pm (UTC +8)

### Lost & Found

Lost and found items will be placed at the EAGE Registration Desk located at Ballroom 2 (Level 10), Imperial Lexis Kuala Lumpur

### **Medical Assistance**

In case of a medical emergency, please alert EAGE staff immediately.

### **Nearby Hospital**

Prince Court Medical Centre (Estimated 5 minutes drive) Address: 39, Jalan Kia Peng, 50450 Kuala Lumpur, Wilayah Persekutuan Kuala Lumpur 24-Hour Hotline: +603 2160 0000 Ambulance/Emergency: +603 2160 0999 Website: https://princecourt.com/

### **Emergency Contacts**

If you need help, please dial 999 for Malaysia Emergency Response Services (MERS) if you need help from the Police, Fire Services Department or an ambulance. For the speech or hearing impaired, you could call for assistance via SMS to 992.

### **Photo and Video Regulations**

Photography and video/audio recording of any kind are strictly prohibited in the technical sessions.

EAGE strives to bring you the greatest and latest of scientific and technical advances. Due to the importance of the technical content, EAGE upholds a photography and videography policy, in an endeavour to protect these leading-edge technologies.

### Wi-Fi

Delegates may connect to free Wi-Fi at the venue. Wifi details will be provided onsite.

### **Deliverables**

The following are included in the delegate fee

- Access to workshop technical sessions
- Daily Luncheon
- Daily Morning and Afternoon refreshments
- Networking Reception
- Event proceedings via EAGE's EarthDoc (for EAGE members only)
- Complimentary EAGE Membership will be included for the remainder of 2025 (for fully paid non-members)

Disclaimer: The Technical Programme is confirmed as of publishing date and may be subject to change without prior notice.



# **TECHNICAL PROGRAMME**

# Oral Presentations | Thursday, 3 July 2025

BALL	ROOM 2, IMPERIAL LEXIS KUALA LUMPUR	
09:00	Opening Remarks by Workshop Co-chairperson, Prof. Abdul Halim Abdul Latiff, Universiti Teknologi PETRONAS	
09:05	Opening Address by En. M Zabuddin B M Zawawi, Custodian (Acquisition), PETRONAS	
09:30	Keynote 1: Dr. Yu Gang, Senior Technical Advisor to the President of BGP, BGP Inc., CNPC - Junggar Basin 3D DAS-VSP Data Acquisition ,Processing and Integrated Interpretation	
10:00	Keynote 2: Dr. Pierre Bettinelli, Reservoir Performance Fiber Optics, Geophysics Technical Director, SLB - Transforming Subsurface Understanding and Monitoring: DAS, Elastic FWI, and Microseismic	
10:30	AM Break & Poster Presentation (Day 1)	
Post	er Presentation (Day 1)	
10:30	Comparative Analysis of Interrogator Unit Performance in Surface Seismic DAS: Case Study in a Campus Area - A.M. Majdi <sup>1*</sup> , A. Rashid <sup>1</sup> , A.H. Abdul Latiff <sup>1</sup> , M. Rafi <sup>1</sup> , D.T. Asfha <sup>1</sup> , B.A. Adeniyi <sup>1</sup> , A.D. Putra <sup>1</sup> , M.O. Ibrahim <sup>1</sup> <sup>1</sup> Center for Subsurface Imaging, Universiti Teknologi PETRONAS	
	Comparison of Fiber Optic Accelerometers and Conventional Geophones in Field Testing for Seismic Exploration - W. Zhang <sup>1*</sup> , G. Qi <sup>1</sup> , Y. Luo <sup>1</sup> , W. Huang <sup>1</sup> , K. Zhu <sup>1</sup> <sup>1</sup> Institute of Semiconductors, Chinese Academy of Sciences	
11:00	Panel Discussion: Benefits on Fiber Optic Sensing for the Energy Transition	
12:30	Luncheon (Day 1) - Roselle Coffee House (Level 8), Imperial Lexis Kuala Lumpur	
<b>Sess</b> Sessic Farhc	<b>ion 1: Fiber Optics in Action</b> on Chairs: Joel Le Calvez, SLB & Mahmoud adiroushan, Silixa Ltd.	
13:45	Novel Application of Winchless Fiber Optic DTS/DAS Technology for Sustained Casing Pressure Diagnosis in Offshore Malaysia - P.L. Foo <sup>2*</sup> , J. Kueh <sup>1</sup> , A. Bolhassan <sup>1</sup> , M.W.S. Chin <sup>2</sup> , D. Byrd <sup>2</sup> , S. Chatterjee <sup>2</sup> , K.T. Yeo <sup>2</sup> <sup>1</sup> Shell; <sup>2</sup> Halliburton	
14:10	Unlocking Permanent Subsea Monitoring - C. Sagary <sup>1*</sup> , J.K. Brenne <sup>2</sup> , H. Nakstad <sup>2</sup> , B. Six <sup>1</sup> <sup>1</sup> ASN; <sup>2</sup> ASN	
14:35	Identifying the Source of Very Low Sustained Casing Pressure Using DAS Acoustic and Strain Data - R. Crawford <sup>1*</sup> , J. Mignano <sup>2</sup> , J. Ashton <sup>2</sup> <sup>1</sup> Well-Sense; <sup>2</sup> AGL Energy Ltd.	
15:00	Fiber Optics Application in Annulus Pressure Management and Well Integrity - A. Bolhassan <sup>1*</sup> , J. Kueh <sup>1</sup> <sup>1</sup> Shell Malaysia	
15:25	PM Break & Poster Presentation (Day 1)	

# Poster Presentation (Day 1)

	15:25	Comparative Analysis of Interrogator Unit Performance in Surface Seismic DAS: Case Study in a Campus Area - A.M. Majdi <sup>1*</sup> , A. Rashid <sup>1</sup> , A.H. Abdul Latiff <sup>1</sup> , M. Rafi <sup>1</sup> , D.T. Asfha <sup>1</sup> , B.A. Adeniyi <sup>1</sup> , A.D. Putra <sup>1</sup> , M.O. Ibrahim <sup>1</sup> <sup>1</sup> Center for Subsurface Imaging, Universiti Teknologi PETRONAS
		Comparison of Fiber Optic Accelerometers and Conventional Geophones in Field Testing for Seismic Exploration - W. Zhang <sup>1*</sup> , G. Qi <sup>1</sup> , Y. Luo <sup>1</sup> , W. Huang <sup>1</sup> , K. Zhu <sup>1</sup> <sup>1</sup> Institute of Semiconductors, Chinese Academy of Sciences
Sessi Sessi Alex		ion 2: Subsurface Imaging with DAS-VSP on Chairs: Sebastien Soulas, Avalon Sciences & Tarang, PETRONAS
	15:45	Anomalous Amplitude Noise Suppression in 3D DAS VSP Data Using Thresholder Local Frequency - Y. Moradi <sup>1*</sup> , A. Shahbazi <sup>1</sup> , A. Tarang <sup>2</sup> , H. M Zahir <sup>2</sup> , F. Sedaralit <sup>2</sup> , P. Moosavi <sup>1</sup> , A. Shahbazi <sup>1</sup> <sup>1</sup> Risehill Data Analysis Sdn. Bhd.; <sup>2</sup> Petronas
	16:10	A Case Study of Joint Seismic and 3D DAS VSP acquisition and processing in eastern China - Y. Wang <sup>1*</sup> , Y. Chen <sup>1</sup> , J. Shen <sup>1</sup> , X. Li <sup>1</sup> , F. Mu <sup>2</sup> , Y. Wang <sup>2</sup> , J. Li <sup>1</sup> , Q. Zhao <sup>1</sup> <sup>1</sup> Optical Science and Technology (Chengdu) Ltd., CNPC; <sup>2</sup> Sinopec Geophysical Corporation
	16:35	P- and S-wave separation in distributed acoustic sens- ing-vertical seismic profile (DAS-VSP) data using deep learning techniques - Y. Choi <sup>1*</sup> , J. Byun <sup>1</sup> , S.J. Seol <sup>1</sup> <sup>1</sup> Hanyang University
	17:00	Passive Environmental and Subsurface Monitoring via Seafloor DAS: an Update on an Australian Proof of Concept - R. Pevzner <sup>1*</sup> , O. Collet <sup>1</sup> , R. Isaenkov <sup>1</sup> , K. Tertyshnikov <sup>1</sup> , B. Gurevich <sup>1</sup> , E. Sidenko <sup>2</sup> , A. Gavrilov <sup>2</sup> , C. Erbe <sup>2</sup> , D. McCorry <sup>3</sup> , H. A. Debens <sup>3</sup> <sup>1</sup> Centre for Exploration Geophysics (CEG), Curtin University, <sup>2</sup> Centre for Marine Science and Technology (CMST), Curtin University, <sup>3</sup> Woodside Energy Group Ltd.
	17:25	Networking Reception
	18:55	End of Workshop Day 1

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# Oral Presentations | Friday, 4 July 2025

BALLROOM 2, IMPERIAL LEXIS KUALA LUMPUR Session 3: Infrastructure & Ocean Monitoring Session Chairs: Ts. M. Hafizal Mad Zahir, PETRONAS & Konstantin Tertyshnikov, Curtin University	Sess Envi Tecl Sessi Abdu	sion 5: New Frontiers in Carbon Storage, ronmental Monitoring & Sensing nologies on Chairs: Amalia Bolhassan, Shell & Mohd Firdaus ul Halim, PETRONAS	
09:05 Analyzing the Difference and Similarities Between Geophone and DAS using Two Different Sources - H. Hashim <sup>1*</sup> , A.R. Md Arshad <sup>1</sup> , Z. Ahmad Riyadi <sup>1</sup> , A.M. Majdi <sup>1</sup> , A.H. Abdul Latiff <sup>1</sup> Universiti Teknologi Petronas	14:20	Optical Fiber CO2 Sensor Based on a D-Shaped Structure with Au and ZnO Layers - A.A.Z. Awang Bujang <sup>1*</sup> , N.A.M. Zainuddin <sup>2</sup> , Z. Jusoh <sup>2</sup> , S.W. Harun <sup>3</sup> , M.H. Mad Zahir <sup>1</sup> , A. Franzen <sup>1</sup>	
09:30 Multichannel Surface Wave Analysis: A Case Study Evaluating Passive Seismic Recordings Using Geophones and DAS - E. Al-Hemyari <sup>1*</sup> , R. Isaenkov <sup>1</sup> , P. Shashkin <sup>1</sup> , R. Pevzner <sup>1</sup> , K. Tertyshnikov <sup>1</sup>		College of Engineering, Universiti Teknologi MARA, Dungun; <sup>3</sup> Photo Engineering Laboratory, Department of Electrical Engineering, Facult Engineering, University of Malaya, 50603 Kuala Lumpur	
1 <sup>°</sup> Curtin University         09:55       From Surface to Subsurface: Advancing Infrastructure Monitoring with Fiber Optics - L. Urmantseva <sup>1*</sup> <sup>1</sup> AP Sensing GmbH	14:45	Real-Time Multi-Well DAS Monitoring for Carbon Storage: Otway Stage 4 Implementation - R. Pevzner <sup>1*</sup> , R. Isaenkov <sup>1</sup> , K. Tertyshnikov <sup>1</sup> , O. Collet <sup>1</sup> , P. Shashkin <sup>1</sup> , H. Nourollah <sup>2</sup> , J. Correa <sup>3</sup> , T. Wood <sup>3</sup> , B. Gurevich <sup>1</sup> <sup>1</sup> Curtin University; <sup>2</sup> CO2CRC Ltd; <sup>3</sup> LBNL	
10:20 AM Break (Day 2)	15:10	Advancing Dark-Fiber DAS Technology for Seismic,	
Session 4: Advanced Processing & Al-Enhanced DAS Applications Session Chairs: Christophe Maisons, FEBUS Optics & Anton Egorov, RadExPro Seismic Software		S. Choi <sup>1</sup> , H. Lim <sup>1</sup> , Y. Seong <sup>1</sup> , K.G. Park <sup>1</sup> , C. Lee <sup>1</sup> , K. Yang <sup>1</sup> , M. Son <sup>1</sup> , K. Yun <sup>2</sup> , Y. Cho <sup>3</sup> <sup>1</sup> Korea Institute of Geoscience and Mineral Resources; <sup>2</sup> Korea Electric Power Research Institute; <sup>3</sup> Seoul National University	
10:40 Impact of Cable Materials and Soil Properties on the	15:35	PM Break (Day 2)	
Sensitivity of singled ribres for DAS - B. Ademiyir', A.H. Abdul Latiff', Z. Adedeji', A. Majdi', A. Rashid'         'Universiti Teknologi Petronas         11:05         3-C fiber optic point sensors qualification for true vector	Sess Envi Tecl	sion 5: New Frontiers in Carbon Storage, ronmental Monitoring & Sensing nologies (Cont'd) on Chairs: Amalia Bolhassan, Shell & Mohd Firdaus	
wavefield measurements at ASL quarry in Cornwall - S. Soulas <sup>1*</sup> G. Tubridy <sup>1</sup> S. Berry <sup>1</sup> P. Boyds <sup>1</sup> T. Tubridy <sup>1</sup> B. Kaack <sup>1</sup>		Il Halim, PETRONAS	
W. Wills <sup>1</sup> , S. Wellens <sup>1</sup> , S. Bridger <sup>1</sup> , C. Bird <sup>1</sup> , K. Hann <sup>1</sup> , J. Rawlings <sup>1</sup> <sup>1</sup> Avalon Sciences Ltd	15:55	<b>T8 Novel Interrogator with 1 m gauge length and suppressed</b> <b>fading -</b> E. Fomiriakov <sup>1*</sup> , P. Pushko <sup>1,2</sup> , D. Bengalskiy <sup>1</sup> , D. Kharasov <sup>1</sup> ,	
11:30 Application of Fiber Optic Sensing Monitoring in Optimizing Fracturing - F. Heng <sup>1*</sup> , T. Xiong <sup>2</sup> , S. Liu <sup>2</sup> , W. Zhou <sup>1</sup> <sup>1</sup> BGP <sup>2</sup> PetroChina Oinghai Oilfield Company	16:20	v. Iresnenikov <sup>1</sup> <sup>1</sup> T8 LLC; <sup>2</sup> Moscow Institute of Physics and Technology Comparative Study of Distributed Accustic Section (DAS)	
Integrated Workflow for Hydraulic Fracturing: Coupling Fiber Optics, Advanced Simulation, and Stimulation Chemistry - J. Le Calvez*, D. Kuznetsov <sup>1</sup> , R. Korkin <sup>1</sup> , M. Chertov <sup>1</sup> <sup>1</sup> SLB	10:20	and Geophone Response in Geothermal and Groundwater Systems - A. Rashid <sup>1</sup> , A.H. Abdul Latiff <sup>1</sup> , A.D. Putra <sup>1</sup> , M. Rafi <sup>1</sup> , A.R. Md Arshad <sup>1</sup> , I. Babiki <sup>1</sup> , A.M. Majdi <sup>1</sup> , B.A. Adeniyi <sup>1*</sup> <sup>1</sup> Centre for Subsurface Imaging, Universiti Teknologi PETRONAS, Seri Iskandar 32610. Perak	
12:20 Luncheon (Day 2) - Roselle Coffee House (Level 8), Imperial Lexis Kuala Lumpur	16:45	Closing Remarks by Workshop Co-Chairperson, Prof. Abdul Halim Abdul Latiff, Universiti Teknologi PETRONAS	
	16.55	End of Workshop	

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# **SPONSORS' PROFILE**

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NETWORKS	Key Offerings: Offshore Platform Connectivity: Providing high-capacity, low-latency optical fibre links between remote offshore platforms and onshore facilities, enabling seamless communication and real-time data transfer. This connectivity supports remote operations, enhances safety, and reduces operational costs. Permanent Reservoir Monitoring solutions: Using passive sensors (optical fiber) technology in a four components (4C) station, Optowave™ provides supreme reservoir imaging solution and enhanced repeatability from survey to survey. Electrification and Digitalization of Oil Field: ASN's DC/FO solution is a new generation subsea infrastruc- ture delivering power and Fibre Optic (FO) communication from onshore or offshore host facilities to subsea production systems.
	State of the art fiber sensing (DAS): OptoDAS interrogator is using a unique interrogation technique providing low-noise and long-range quantitative phase measurements in single mode optical fibers. This can be used for various applications, from VSP's acquisition to Seismic acquisition and critical infrastructure monitoring.
	Silixa, now part of Luna Innovations, offers the finest portfolio of distributed sensing solutions available anywhere. Shaped by 15 years of pioneering research and application, the offered end-to-end solutions enable temperature, strain and acoustic measurements at the highest fidelity – even in the most hostile settings.
A LUNA company	This unrivalled technical portfolio is backed by project management and specialist data services to help customers finally overcome the obstacles of distance, time and knowledge, to turn data into decisions.
Company Display Sponsor RadExPro seismic software	We offer RadExPro seismic processing software with extended Distributed Acoustic Sensing (DAS) support. This includes direct input for various DAS data formats, real-time acquisition Quality Control (QC), including the estimation of Signal-to-Noise Ratio (SNR) achieved at every stacked shot, as well as the ability to export DAS data to SEG-Y format. Our software also supports DAS Vertical Seismic Profile (VSP) and Multichannel Analysis of Surface Waves (MASW) processing, along with DAS-to-geophone and geophone-to-DAS conversions.
Media Partner	GEO EXPRO is run by a small but dedicated team of people who all work together from different parts of the world to produce six magazines per year, in combination with publishing the magazine's content online and on social media.
	Our mission is to report on developments in the energy sector from a subsurface perspective, taking the role of observer and commentator on projects both in the oil and gas and renewable space. As such, we acknowledge the major importance oil and gas still plays with regards to energy security, whilst keeping a close eye on new developments in low-carbon subsurface solutions at the same time.



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