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EAGE Asia Pacific Virtual Geoscience Week

19-23 APRIL 2021 • ONLINE

- **Technical Programme**

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TECHNICAL COMMITTEE

Tengku Syazwan Tengku Hassan (Chairperson)	PETRONAS
Jose Margotta (Co-Chairperson)	Independent
Muhammad Hanif Haziq	Beicip-Franlab Asia
Shafiq Razak	Beicip-Franlab Asia
Jimmy Ting	CGG
Amir Mahmud	Conrad Petroleum Ltd
Pedro-Restrepo Pace	Oil Search Ltd
Bayu Giriansyah	Pertamina Hulu Energi
Sinchia Dewi	Pertamina Hulu Energi
Muhamad Rofiq	Pertamina Hulu Energi
Perdana Rakhmana Putra	Pertamina Hulu Energi
Sanatul Salwa Hasan	PETRONAS
Kelly La Grange Poret	PTTEP
Duncan Barr	Sedigon Consultants LLC
Oliver Swientek	Shell
Maradona Mansyur	UMD Petroleum SDN BHD
Nur Huda Jamin	Universiti Teknologi PETRONAS

EVENT OVERVIEW

The geology of SouthEast Asia is highly complex due to combinations of regional tectonics, large structuring events and diverse depositional systems. After over 100 years of exploration and exploitation in the region, hydrocarbons are becoming more difficult to find and exploit, and many frontier areas are yet to be explored. New advances in technology and methodology offer improved subsurface characterization, leading to greater prospectivity beyond the wellbore. Such is the demand for better and more accurate understanding of basin characteristics and reservoir behavior that pre-drilled reservoir and hydrocarbon prediction techniques are more important today than ever. EAGE Asia Pacific Virtual Geoscience Week aims to gather Petroleum Geoscience experts from across Asia Pacific to share and discuss their ideas and experiences of the latest methods and technologies, thereby promoting scientific advancement in this exciting field.

EVENT HIGHLIGHTS

Keynote Talks



Surely this has been done before? -
Peter Lunt, Stratos Energy Advisors



Application of Sequence Biostratigraphic Methods in Malaysian Basins: A New Way of Looking at Depositional Cycles and Unconformities from the Region -
Bob Morley & Harsanti Morley, Palynova Ltd.



Integrated Geohistory Analysis (IGA): Enhancing the Power and Relevance of Stratigraphy and Sedimentology in Answering Exploration Questions -
Douglas Waples, Sirius Exploration Geochemistry



COLLABORATION - The Key to Unlock Small Fields and Convert Marginal to Profitable -
Duncan Barr (Sedigon Consultants LLC)



Comprehensive Approach to Reveal Geology from Seismic Data - Sebastien Lacaze, Eliis



A Play-Based Evaluation of a Deepwater Sabah Exploration Area: Prospect Maturation and Implications for Remaining Prospectivity - John Jong, JX Nippon Oil & Gas Exploration Co



A Review of Structural "Complexities" and Tectonic Settings - Carlos Giraldo, Independent Consultant



Characterizing Basement Rocks from Recent Exploration Activities in Malaysia: A Short Overview - Narender Pendkar, PETRONAS Carigali

GEOSCIENCE WEEK FORUM

Friday, April 23, 2021 (3:50 PM - 4:30 PM UTC +8)

The focus of the forum is to discuss the prospectivity and upside potentials of the Asia Pacific that were addressed throughout the event. This is an avenue to summarize the collective perspective on the remaining prospectivity in Asia Pacific basins.

Panelists:



Muhammad Hanif Haziq
Beicip-Franlab Asia



Oliver Swientek
Shell



Vivian Lee Cathey
Carigali Hess



Bob Morley
Palynova Ltd.



Sebastien Lacaze
Eliis

Moderator:



Duncan Barr
Sedigon Consultants LLC

TECHNICAL PROGRAMME

Oral Presentations | Monday, 19 April 2021

DAY 1	
Opening	
14:30	Opening Remarks - T.M. Syazwan (PETRONAS Carigali Sdn Bhd) & J. Margotta (Independent)
Keynote & Session 1 Basin Prospectivity Analysis and New Play Concept in South East Asia Chaired by O. Swientek (Shell) & M.H. Haziq (Beicip-Franlab Asia)	
14:40	Keynote 1: Surely this has been done before? - P. Lunt ^{1*} ¹ Stratos Energy Advisors
15:10	Keynote 2: Application of Sequence Biostratigraphic Methods in Malaysian Basins: A New Way of Looking at Depositional Cycles and Unconformities from the Region - B. Morley ^{1*} , H. Morley ^{1*} ¹ Palynova Ltd.
15:40	17. Preliminary Organic Geochemical and Petrographical Assessment of Coal-bearing Kudat Formation - S.N.A. Mustaffa ^{1*} , K.A. Mustapha ¹ , N.A.F. Md Nor'azam ¹ , T. Silvaraju ¹ , M. Warahmah Husni ¹ , L.N. Mohd Asri ¹ , N.N. Armandy ¹ , M.T. Sanek ¹ , A. Ashaari ¹ , M.H. Rafi ¹ ¹ Universiti Malaya
16:05	3. Frontier Basin Study: Offshore Eastern Sri Lanka Basin, 2D Petroleum System Modelling - C. Tu ^{1*} , O. Schenk ¹ ¹ Schlumberger
16:30	4. Assessment of Shale Gas Potential of Paleozoic Shales from Western Peninsular Malaysia - I. Syed ^{1*} , E. Padmanabhan ¹ ¹ Universiti Teknologi PETRONAS ²

Oral Presentations | Tuesday, 20 April 2021

DAY 2	
Keynote & Session 2 Stratigraphic and Sedimentological Studies to Mature Asset (Exploration to Production) Chaired by B. Giriansyah (Pertamina Hulu Energi) & J.Ting (CGG)	
14:30	Keynote 3: Integrated Geohistory Analysis (IGA): Enhancing the Power and Relevance of Stratigraphy and Sedimentology in Answering Exploration Questions - D. Waples ^{1*} ¹ Sirius Exploration Geochemistry
15:00	Keynote 4: COLLABORATION - The Key to Unlock Small Fields and Convert Marginal to Profitable - D. Barr ^{1*} ¹ Sedigon Consultants LLC
15:30	18. Facies-based Petroleum System of Northern Onshore Sarawak Basin - S.N.A. Mustaffa ^{1*} ¹ Universiti Malaya
15:55	19. Determining Fluid Saturations in a Low Resistivity, Heterogeneous Siliciclastic Oil Reservoir, Offshore Vietnam - L. Knapp ^{1*} , Y. Maehara ² , Y. Kuriyama ¹ , K. Horaguchi ¹ ¹ JOGMEC; ² Schlumberger
16:20	10. Process Parameter, Mineralogy, and Wettability Influence for CO₂ Adsorption on Terengganu Shale Samples and their Interrogation on Improved Oil Recovery - D.F. Abdulkareem ^{1*} , S. Irfan ¹ , E. Padmanabhan ¹ ¹ Universiti Teknologi PETRONAS (UTP) ²
16:45	5. Characterization of Shale's Sweet-Spots - S. Prajapati ^{1*} , E. Padmanabhan ¹ ¹ Universiti Teknologi PETRONAS

Oral Presentations | Wednesday, 21 April 2021

DAY 3	
Keynote & Session 3 New and Proven Technology Applications in Subsurface Characterization Chaired by D.Barr (Sedigon Consultants LLC) & S. S. B. Hassan (PETRONAS Research Sdn. Bhd.)	
14:30	Keynote 5: Comprehensive Approach to Reveal Geology from Seismic Data - S. Lacaze ^{1*} ¹ Eliis
15:00	Keynote 6: A Play-Based Evaluation of a Deepwater Sabah Exploration Area: Prospect Maturation and Implications for Remaining Prospectivity - J. Jong ^{1*} ¹ JX Nippon Oil & Gas Exploration Co
15:30	20. Where Does All the Water Come From? Identifying and Predicting Water-production in a Large & Complex Gas Development with Artificial Intelligence - A. Aulia ^{1*} , T. Chee Pin ¹ ¹ Carigali Hess Operating Company Sdn Bhd
15:55	13. Enhancing Seismic Image Quality through an Automatic Refraction Static Correction: A Machine Learning Application in Web Based Seismic Processing - P.D. Wardaya ^{1*} , E. Septama ¹ , R. Pratama ¹ , V. Rossa ¹ , A. Mulawarman ¹ , T. Setiawan ¹ ¹ pertamina
16:20	7. Data Mining Approach Evaluates the Impact of Depositional Environment on Gas Reservoirs Performance - E. Pratama ^{1*} , D.R. Febriansanu ² , A.J. Widiatama ² ¹ AEM Energy Solutions Sdn Bhd; ² Institut Teknologi Sumatera
16:45	8. Unraveling Hydraulically Fractured Shale-Microbe Interaction for Biogenic Methane Enhancement - Dr Menaka Ganeson ^{1*} , E. Padmanabhan ¹ ¹ Universiti Teknologi PETRONAS

Oral Presentations | Thursday, 22 April 2021

DAY 4	
Keynote & Session 4 Hydrocarbon Evaluation in Complex Structures Chaired by S. Razak (Beicip-Franlab Asia) & M. Mansyur (UMD Petroleum Sdn Bhd)	
14:30	Keynote 7: A Review of Structural "Complexities" and Tectonic Settings - C. Giraldo ^{1*} ¹ Independent Consultant
15:00	16. Mixed Carbonate Clastic Exploration Seismic Stratigraphy, A Case Study, Central Luconia, Sarawak Basin - K.L.G. Poret ^{1*} , P. Henglai ¹ ¹ PTTEP
15:25	11. Java Volcanic Arc: What Lies Beneath? The Overlooked Subvolcanic Petroleum Potential in Java Island. - E. Septama ^{1*} , C. Prasetyadi ² , A. Abdurrokhim ³ , T. Setiawan ¹ , A. Mulawarman ¹ , I. Haryanto ³ , M. Gazali Rahman ³ , A. Novianto ² , J. Setiawan ² , Y. Sutadiwiria ³ , M. Syaifudin ² , R. Ryacudu ¹ , B. Adhiperdhana ³ , P. Dikdya Wardaya ¹ , V. Irine Rossa ¹ , R. Rahmat Pratama ¹ ¹ Pertamina INV; ² Universitas Pembangunan Nasional Veteran; ³ Universitas Padjajaran
15:50	15. OBNEM Exploration in the South China Sea - W. Sun ^{1*} , Y. Cao ¹ , Y. Lu ¹ , Y. Chai ¹ ¹ bgp Inc., China National Petroleum Corporation
16:15	9. Machine Learning Model to Predict the Contact of Angle Using Mineralogy, TOC and Process Parameters in Shale - Dr. Sayed Ameenuddin Irfan ¹ , M.Z. Fadhli ^{1*} , E. Padmanabhan ¹ ¹ Universiti Teknologi PETRONAS

Oral Presentations | Friday , 23 April 2021

DAY 5	
Keynote & Session 5 Fractured Basement Chaired by K.L.G. Poret (PTTEP) & T.M. Syazwan (Petronas Carigali Sdn Bhd)	
14:30	Keynote 8: Characterizing Basement Rocks from Recent Exploration Activities in Malaysia: A Short Overview - N. Pendkar ^{1*} ¹ PETRONAS Carigali Sdn. Bhd.
15:00	6. Geophysical Techniques for Unconventional Fracture Characterization - R.R. Kristen Samy ^{1*} , S. Prajapati ¹ , E. Padmanabhan ¹ ¹ Universiti Teknologi PETRONAS
15:25	12. Sumatera Basement Rocks; Outcrop Analogs for the Porosity and Permeability for Naturally Fractured Reservoir - Professor Benyamin Sapiie ^{1*} , A. Rudyawan ¹ , E. Septama ² , I. Gunawan ¹ , B. Rama ¹ , Y. Festian ¹ ¹ Prodi Teknik Geologi - Institut Teknologi Bandung; ² Pertamina RTC
15:50	Geoscience Week Forum Chaired by D. Barr (Sedigon Consultants LLC) M.H. Haziq ¹ , O. Swientek ² , S. Lacaze ³ , V. Cathey ⁴ , B. Morley ⁵ ¹ Beicip-Franlab Asia, ² Shell, ³ Eliis, ⁴ Carigali Hess, ⁵ Palynova Ltd.
16:40	Closing Remarks - T.M. Syazwan (PETRONAS Carigali Sdn Bhd) & J. Margotta (Independent)



ACCESSING THE VIRTUAL EVENT

The virtual event will be hosted on the Event OnAir platform. A few days prior to the event day, all registered attendees will receive an Attendee Pack via email which will consist of the event guidelines and virtual lobby login link to join the event. All attendees are advised to follow the event guidelines for optimal event experience. This virtual event will be held in the local timezone (Kuala Lumpur, UTC +8).

REGISTRATION

REGISTERED AND PAID	
EAGE Member	€250
Non-Member	€350
EAGE Student Member	€125
Student Non-Member	€150

Members please note:

To qualify for the member registration fee, your EAGE membership dues for 2021 must have been paid and confirmed. The processing time for membership applications or renewals is 10 working days.

To qualify for the reduced student registration fee:

- Students must be enrolled in a full time study programme at a recognized university or institute
- The registration must be accompanied by a copy of a student ID card and/or official proof of enrolment
- The non-member fee includes EAGE membership for the remainder of 2021. This membership will be activated shortly after the event.

Student non-members cannot be older than 34 years of age (when registering). EAGE registration fees differentiate between EAGE members and non-members. In the table above you can see what the different fees are. All fees are in Euros (€). One Euro of your total registration fee is donated to the EAGE Green Fund.

SPONSORSHIP

You may sponsor EAGE Asia Pacific Virtual Geoscience Week and get high visibility in a qualitative and uncluttered environment that makes your message stand out. Virtual sponsorship opportunities are available!

For information on sponsorship packages, please contact EAGE Asia Pacific office at asiapacific@eage.org.

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