



EAGE

EUROPEAN
ASSOCIATION OF
GEOSCIENTISTS &
ENGINEERS

EAGE Workshop on Computational Sciences for New Energy and Oil Recovery

6-7 SEPTEMBER 2021 • KUALA LUMPUR, MALAYSIA

- **First Announcement**

WWW.EAGE.ORG

TECHNICAL PROGRAMME COMMITTEE

Mr Sanjeev Rajput (Co-chairmen)	PETRONAS
Mr Jahan Zeb Ahmed	ADNOC Onshore
Mr Ankit Kumar	Beicip-Franlab Asia
Mr Sachin Sharma	Boston Consulting Group (BCG)
Mr Mohd Azizul Mohd Yahya	Halliburton
Ms Maïke Willuweït	Independent
Assoc. Prof. Dr. Ankik Kumar Giri	Indian Institute of Technology Roorkee
Ms Ain Nadrah Noor Sazali	Iraya Energies
Ms Santika Satya Widita	Institut Teknologi Bandung (ITB)
Mr Sunil Verma	Jacobs Australia
Mr Mritunjay Kumar	McKinsey Consulting
Mr Firdaus Halim	PETRONAS
Mr Neeraj Kumar	PETRONAS
Mr Sumit Soni	PETRONAS
Ms Sam Yet	ROC Oil
Mr Harshad Parakh	Shell International
Assoc. Prof. Dr. Syahrir Ridha	Universiti Teknologi PETRONAS (UTP)

ABOUT THE WORKSHOP

In the era of 'lower for longer' oil prices, energy transition, and rapid digitalization, advancement in computational methods in O&G are key to push the frontier of how activities are carried in the O&G value chain. With the introduction of big data, cloud-based infrastructure, advanced AI/ML, and advanced analytics, Petrotechnical staff is equipped with new toolkits as never before. It is critical to streamline the applications of advanced computational methods and to model in O&G to deliver next-generation performance and win back the investor's trust while reducing cost and time to develop and produce and maximizing production. Advanced seismic processing methods, predictive modeling, multi-million cellular models for dynamic simulation, potentially very large number of scenarios and uncertainty optimization, real-time AI application in drilling, and operations are the leading avenues for the application.

Also, advanced quantitative commercial scenario modeling for a diverse portfolio of energy revenues ranging from O&G (conventional, unconventional, deepwater), Solar, Offshore/Onshore wind, Biofuels, Carbon capture storage, Blue & Green Hydrogen, and upstream decarbonization, which were previously limited due to computing power can be deployed to build real-time strategies with better risk-adjusted returns.

The workshop will discuss the application of computational methods and models in the O&G and Energy sector that oil field operators, service providers, and investors are pursuing to push the frontier of the Energy industry's performance and returns.

EAGE Workshop on Computational Sciences for New Energy and Oil Recovery will take place from 6-7 September 2021 in Kuala Lumpur, Malaysia. The workshop will discuss the application of computational methods and models in the O&G and Energy sector that oil field operators, service providers, and investors are pursuing to push the frontier of the Energy industry's performance and returns. Abstract submissions are welcomed on the following topics.

WORKSHOP FORMAT

The format will comprise a mixture of invited presentations and contributions selected from open submissions followed by interactive parts at the end of each session.

SUBMISSION GUIDELINES

The Technical Programme Committee is encouraging abstracts of maximum one (1) page (not exceeding 600 words) on the following topics. Submissions will be accepted online via EAGE website.

Note: Due to possible travel restrictions there may be an online component to this workshop. All international abstract submissions will be considered.





WORKSHOP TOPICS

1. Computational Sciences for Oil and Gas

- Artificial Intelligence Assisted Models
- Digital Subsurface Models
- Advances in Reservoir Simulation
- Oil Field Development and Depletion Planning
- Data Analytics and Production Operations
- Seismic Imaging and Full Wavefield Inversion
- Field Development Plan Digitalization
- Data Science Technology & Applications
- HPC Standards, Applications & Cloud Usage
- HPC Software Tools & Technologies
- Forward Stratigraphy Modelling

2. Connecting Computational Sciences with New Energy Mix

- Renewable Technology Advances
- Smart Grids
- Low Carbon Heat and Power (CCS, Nuclear, Wind, Solar, Hydro, etc..)
- Low Carbon Transport (Fuel Cells and Hydrogen)

3. The New Frontiers

- Energy Transition Models
- IoT Applications
- Blockchain Applications and Data Security (Cyber Security)
- New Energy Storage
- The Future of Energy
- Energy and Sustainable Development
- Energy Efficiency Challenges
- Real Options Valuation (ROV) in Field Development Planning (decision-making under uncertainties)
- Quantitative Methods for Energy Portfolio Optimization (Maximize Risk-Adjusted Returns)

IMPORTANT DATES

Call for Abstracts Open	22 September 2020
Call for Abstracts Deadline	22 January 2021
Registration Opens	23 January 2021
Early Bird Registration Deadline	26 July 2021
Registration Deadline	1 September 2021

SPONSORSHIP

Enhance your visibility and corporate image by participating as a Workshop Sponsor and presenting your technical expertise to a focused and exclusive regional audience. Companies interested in sponsoring are invited to contact EAGE Asia Pacific via asiapacific@eage.org

CONTACT

For more information or enquiries about this Workshop, please visit the event's website (www.eage.org) or contact the EAGE Asia Pacific via asiapacific@eage.org We hope to see you in Kuala Lumpur!



EUROPE OFFICE
+31 88 995 5055
EAGE@EAGE.ORG

RUSSIA & CIS OFFICE
+7 495 640 2008
MOSCOW@EAGE.ORG

MIDDLE EAST/AFRICA OFFICE
+971 4 369 3897
MIDDLE_EAST@EAGE.ORG

ASIA PACIFIC OFFICE
+60 3 272 201 40
ASIAPACIFIC@EAGE.ORG

LATIN AMERICA OFFICE
+57 1 7449566 EXT 116
AMERICAS@EAGE.ORG

HEAD OFFICE • PO BOX 59 • 3990 DB HOUTEN • THE NETHERLANDS • +31 88 995 5055 • EAGE@EAGE.ORG

www.eage.org



join us on social media!