

Joint Event

4TH EDITION OF INTERNATIONAL CONFERENCE ON

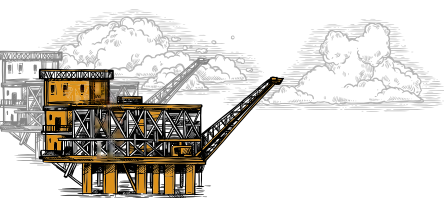
OIL, GAS, AND PETROLEUM ENGINEERING

&

2ND EDITION OF GLOBAL CONFERENCE ON

BIOFUELS AND BIOENERGY

SEPTEMBER 11-13, 2025



IN-PERSON

Olympia Hotel, Events & Spa
Carrer Mestre Serrano, 5, 46120 Alboraya
Valencia, Spain



VIRTUAL

Central European Summer
Time (CEST)

(In-Person) - Zeus Meeting Hall

DAY 01

Thursday

| | |
|--------------------|-----------------------------------|
| 08:00-08:50 | Registrations |
| 08:50-09:00 | Opening Ceremony and Introduction |
| 09:00-11:00 | In-person Keynote Presentations |
| 11:30-17:30 | In-person Oral Presentations |
| 17:30-18:00 | In-person Poster Presentations |

Sept 11

11:00-11:30 Coffee Break 12:50-13:50 Lunch Break 17:30-18:00 Coffee Break

(In-Person) - Zeus Meeting Hall

DAY 02

Friday

| | |
|--------------------|---------------------------------|
| 08:30-09:00 | AV Check and Introduction |
| 09:00-10:20 | In-person Keynote Presentations |
| 10:20-16:50 | In-person Oral Presentations |

Sept 12

11:00-11:30 Coffee Break 12:50-13:50 Lunch Break 16:50-17:20 Coffee Break

(Virtual) - Zoom Meeting

DAY 03

Saturday

| | |
|-------------------------------------|-------------------------------|
| 08:30-09:00 | AV Check and Introduction |
| 09:00-11:00; 15:00-19:00 | Virtual Keynote Presentations |
| 11:00-15:00; 19:10-21:50 | Virtual Oral Presentations |
| 19:00-19:10 | Virtual Poster Presentation |

Sept 13

Important Note

- The conference follows Central European Summer Time, (CEST) for both In-Person sessions and for Virtual sessions.
- When the program refers to "Local Timings" it means that the timing mentioned is based on the time zone of the presenter's country.
- In-person presentations will take place in the Zeus Meeting Hall @Olympia Hotel, Events & Spa and Virtual presentations will take place in Zoom meetings.
- Please remain accessible in the hall or on Zoom throughout the day as there could be minor program adjustments due to technical issues or presenter no-shows.

Moderator: Kelly Jenkins,
Oak Ridge National Laboratory, United States

Chair 1: Susan Newman,
Integrated Lipid Biofuels, United States

Chair 2: Nick Molden,
Emissions Analytics, United Kingdom

Central European Summer Time (CEST)

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|-----------|--|---------------------------------------|
| In-person | 09:00-09:40 | Keynote Presentations |
| | Cleveland M Jones, Fronteira Energia Ltda, Brazil Title: New exploration technologies to keep the O&G industry competitive | |
| In-person | 09:40-10:20 | |
| | Susan Borjesson Newman, Integrated Lipid Biofuels, United States Title: Revolutionizing bioplastics with yeast cell factories | |
| In-person | 10:20-11:00 | |
| | Sanjeev Gajjala, Tomato Sustainables LTD, United Kingdom Title: Green hydrogen: Driving sustainable aviation's future | |
| | | Group Photo |
| | | 11:00-11:30 Coffee Break @Foyer |
| In-person | 11:30-11:50 | Oral Presentations |
| | Kishore Kumar, Mansarovar Energy Colombia Ltd, Colombia Title: Mansarovar energy's role in the energy transition: A success story from Colombia oil & gas company | |
| In-person | 11:50-12:10 | |
| | Angela Navas, Mansarovar Energy Ltda, Colombia Title: Sustainability in action: Overcoming structural barriers to responsible energy in Colombia the MECL experience | |
| In-person | 12:10-12:30 | |
| | Kelly Jenkins and Paul Groth, Oak Ridge National Laboratory, United States Title: Embracing alternative technologies in well logging: A collaborative path | |
| In-person | 12:30-12:50 | |
| | Jeri Aljeri, Abdullah Mousa Ali and Hamad Al Kaabi, Kuwait Gulf Oil Company, Kuwait Title: The reservoir productivity evaluation by utilizing flow jet pump and bottom hole pressure gauges in a horizontal oil well of Wafra Joint Operations | |
| | | 12:50-13:50 Lunch Break @Restaurant |
| In-person | 13:50-14:10 | |
| | Abdullah Alasmari and Yousef Alshammari, Saudi Aramco, Saudi Arabia Title: Water injection laterals replacement project: Execution optimization | |
| In-person | 14:10-14:30 | |
| | Hani Murran Al Jeddani, Saudi Aramco, Saudi Arabia Title: A comparative study for enhanced truck loading measurement and plant safety: Weigh scale vs. Coriolis meter | |

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|-----------------------------------|-------------|---|
| In-person | 14:30-14:50 | |
| | | Hany Osman, Subsurface Insight, United Kingdom Title: Unlocking subsurface value through digital transformation |
| In-person | 14:50-15:10 | |
| | | Jesse Elaayi, IPS International, LLC, United States Title: EOR feasibility in Mexico's naturally fractured carbonate reservoir through microfluidics technology |
| In-person | 15:10-15:30 | |
| | | Ahmed Shehab Al Dashti, Kuwait Oil Company, Kuwait Title: Automating maintenance override switch report for upstream facilities |
| In-person | 15:30-15:50 | |
| | | Masum Akter, Rystad Energy, India Title: Global lease rounds in 2025: A balanced outlook on frontier and mature exploration |
| In-person | 15:50-16:10 | |
| | | Lina Montuori, Universitat Politecnica de Valencia, Spain Title: Biomass-based technologies for the sustainable development of energy communities |
| In-person | 16:10-16:30 | |
| | | Vishal Dhar, IIT Guwahati, India Title: Viscoelastic and flow properties of CO ₂ foams stabilized by surfactant–nanoparticle systems |
| In-person | 16:30-16:50 | |
| | | Felix Koshy, Hindustan Petroleum Corporation Limited, India Title: Burners performance improvement of interheater furnaces in catalytic reforming unit |
| In-person | 16:50-17:10 | |
| | | Rishiraj Goswami and Debanuj Khound, Oil India Limited, India Title: Proactive sand management using machine learning: A predictive approach to well intervention optimization in a major brownfield of upper Assam Basin |
| In-person | 17:10-17:30 | |
| | | Noreddin Issa Mousa, Petroleum Research Center, Libya Title: Estimate for which type of clay minerals that more effect on electrical parameters of fluvial reservoir Sirte Basin Libya using petro-typing approach Global Hydraulic Elements (GHEs) |
| 17:30-18:00 Coffee Break @Foyer | | |
| In-person | PP01 | Poster Presentations |
| | | Tulio J Quijada, Saudi Aramco, Saudi Arabia Title: Project complexity in oil & gas: The missing link between business case and execution |
| In-person | PP02 | |
| | | Omar T Alhindi and Sabih T Harbi, Saudi Aramco, Saudi Arabia Title: Enhancing flare system operations and environmental compliance through optimized purging |

In-person PP03

Fawzi H Alharbi, Saudi Aramco, Saudi Arabia

Title: Best practices to overcome challenges of a brownfield project

In-person PP04

Gatot Simanjuntak, PT Pertamina EP, Indonesia

Title: Unlocking efficiency in oil and gas lifting monitoring: The impact of 144 custody metering system data integration on PT Pertamina EP's digital transformation

In-person PP05

Salim Almutairi, Kuwait Oil Company, Kuwait

Title: Overcoming surface congestion constraints through strategic utilization of evaporite pits a success case from greater Burgan field

In-person PP06

Ayushi Goyal, International Centre for Genetic Engineering and Biotechnology, India

Title: Unraveling the effect of pH-responsive gene elements on cellulase production in the filamentous fungus *Penicillium funiculosum*

In-person PP07

Geun Ho Gim, Green Energy Institute, South Korea

Title: Advanced manure-to-energy platform: Integrated gasification–activation for high-efficiency SOFC operation

End of Day 1

Moderators: Neeraj Singh, Hindustan Petroleum Corporation Limited, India
 Raquel Vieira Santana da Silva, Federal University of Rio de Janeiro (UFRJ) Brazil

Chair 1: Cleveland Jones,
 Fronteira Energia Ltda, Brazil

Chair 2: Magnus Stahl,
 Karlstad University, Sweden

Central European Summer Time (CEST)

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| In-person | 09:00-09:40 | Keynote Presentations |
| Magnus Stahl, Karlstad University, Sweden Title: Combustion performances of advanced cooking stoves using woody and herbaceous pellets as fuel | | |
| In-person | 09:40-10:20 | |
| Nick Molden, Emissions Analytics, United Kingdom Title: Quality variation in market biofuels and the effect on tailpipe emissions | | |
| In-person | 10:20-10:40 | Oral Presentations |
| Jochen Naef, Omya International AG, Switzerland Title: Biobased specialty chemicals for the mineral slurries | | |
| In-person | 10:40-11:00 | |
| Zulqarnain, Korea Institute of Energy Research, South Korea Title: Waste plastic upcycling via solvothermolysis: A pathway to bio-oil and carbon-rich solid production | | |
| <div>Group Photo</div> <div>11:00-11:30 Coffee Break @Foyer</div> | | |
| In-person | 11:30-11:50 | |
| Mehrez Karima, Unilasalle Rennes - School Trades De L'environnement, France Title: Hydrothermal carbonization of contaminated sorghum: Solid/Liquid product characterization | | |
| In-person | 11:50-12:10 | |
| Maria Esther Medina Villafuerte, Universidad Mayor de San Simon, Bolivia Title: Co-digestion of steam pretreated wheat straw and municipal sewage sludge at varying concentrations of solids | | |
| In-person | 12:10-12:30 | |
| Nathalia S Pontes, Universidade Federal do Rio de Janeiro (UFRJ), Brazil Title: The impact of slow pyrolysis bio-oil as co-processing load in delayed coking unit based on chemical characterization of light gas oils via GC×GC-TOFMS | | |
| In-person | 12:30-12:50 | |
| Raquel Vieira Santana da Silva, Federal University of Rio de Janeiro (UFRJ), Brazil Title: Co-processing bio-oil in conventional refineries: A pathway to sustainable energy transition | | |
| <div>12:50-13:50 Lunch Break @Restaurant</div> | | |

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|-----------------------------------|-------------|---|
| In-person | 13:50-14:10 | Neeraj Singh, Hindustan Petroleum Corporation Limited, India Title: Reduction of CO ₂ emissions in integrated VGO & diesel hydrotreater with energy reduction strategies & innovations |
| In-person | 14:10-14:30 | Feliu Sempere Nacher, Global Omnium Medioambiente S.L, Spain Title: Anaerobic digestate centrate as a key resource to improve sustainability in biogas purification and upgrading to biomethane |
| In-person | 14:30-14:50 | Sivakaman Ganapathy, Hindustan Petroleum Corporation Limited, India Title: Addressing NSU/NHT/CCR light naphtha cooler leak without production downtime: A strategic approach to unit asset integrity, emissions mitigation, and cooling tower safety at the refinery |
| In-person | 14:50-15:10 | Neeraj Singh, Hindustan Petroleum Corporation Limited, India Title: Successful maximization of the feed rate of a diesel & VGO integrated unit from its original design operating capacity of 326 m ³ /hr to 400 m ³ /hr with the help of operational changes & innovations |
| In-person | 15:10-15:30 | Sivakaman Ganapathy, Hindustan Petroleum Corporation Limited, India Title: Resolving NHT separator LCV block valve issue online without impacting production while achieving energy savings through flaring mitigation |
| In-person | 15:30-15:50 | Pooriya Motevakel, Universitat Politècnica de Valencia, Spain Title: Integration of a biogas pilot plant in a Spanish rural environment: Challenges and opportunities |
| In-person | 15:50-16:10 | Qi Wei, Zhejiang University, China Title: Process simulation and comparative techno-economic analysis of enhanced biomass-to-aviation fuel pathways: Pyrolysis and gasification strategies |
| In-person | 16:10-16:30 | Manuel Alcazar Ortega, Universidad Politécnica de Valencia, Spain Title: Deployment of the concept of smart grid to the natural gas system: Management strategies and demand response applications |
| In-person | 16:30-16:50 | Abdalla Ali Estuti, National Oil Corporation, Libya Title: Simulation and experimental verification of pump stoppage transients in oil and Gas Pipeline Systems using PEM |
| 16:50-17:20 Coffee Break @Foyer | | |

Central
European
Summer Time
(CEST)

Local Timings

Moderator 1: Preeti Mehta Kakkar,
Amity University, Noida, India

Moderator 2: Prateek Upreti,
Independent Researcher, United States

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|---|-------------|-------------|-----------------------|
| Virtual | 09:00-09:40 | 16:00-16:40 | Keynote Presentations |
| Dai Yeun Jeong, Asia Climate Change Education Center, South Korea | | | |
| Title: Human impact on natural environment and its implications | | | |
| Virtual | 09:40-10:20 | 13:10-13:50 | |
| Arindam Chakraborty, Mectech Process Engineers Pvt. Ltd, India | | | |
| Title: Multi bio-fuel complex - An intrinsic concept for adopting circular economy | | | |
| Virtual | 10:20-11:00 | 13:50-11:30 | |
| Atul Saxena, Growdiesel Climate Care Council, India | | | |
| Title: Ultra modern patented technology to convert agriwaste/MSW/ slaughter house effluent/lake waste/high COD distillery spent wash to 99% pure renewable hythane (hydrogen+methane) | | | |
| Virtual | 11:00-11:20 | 17:00-17:20 | Oral Presentations |
| Jingqiang Tan, Central South University, China | | | |
| The mechanisms and effects of CO ₂ -brine-rock interaction during supercritical CO ₂ fracturing for shale reservoirs | | | |
| Virtual | 11:20-11:40 | 17:20-17:40 | |
| Ili Bazilah Abd Razak, FGV R&D Sdn Bhd, Malaysia | | | |
| Title: Bioenergy generation by optimizing biogas production - FGV's commitment towards amplifying environmental and operational efficiency | | | |
| Virtual | 11:40-12:00 | 15:10-15:30 | |
| Preeti Mehta Kakkar, Amity University, India | | | |
| Title: Enhanced lipid production in <i>Schizochytrium sp.</i> via Synergistic Chemical Modulation | | | |
| Virtual | 12:00-12:20 | 13:00-13:20 | |
| Zac Arackakudiyil Suresh, Halliburton, Saudi Arabia | | | |
| Title: Design and construction of a spool deployed fiber optic gauge array for sand-face monitoring | | | |
| Virtual | 12:20-12:40 | 15:50-16:10 | |
| Yogesh Kaushik, Indian Institute of Technology Roorkee, India | | | |
| Title: Transforming invasion into innovation: Gasification of <i>Lantana camara</i> for sustainable energy generation | | | |
| Virtual | 12:40-13:00 | 15:40-16:00 | |
| Madina Mussalimova, Satbayev University, Kazakhstan | | | |
| Title: Biologically active compositions of humic acid copolymers and plant-based sorbents for remediation of oil-contaminated soils | | | |
| Virtual | 13:00-13:20 | 14:00-14:20 | |
| Rukiye Oztekin, Dokuz Eylul University, Turkey | | | |
| Title: Photocatalytic decontamination petrochemical wastewater via ZnO/TiO ₂ /GO nanocomposite: Operational conditions and electrical energy consumption | | | |

Central
European
Summer Time
(CEST) Local Timings

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|---|-------------|-------------|-----------------------|
| Virtual | 13:20-13:40 | 14:20-14:40 | |
| Fuad Rahimov, Kuwait Energy Basra Limited, Iraq | | | |
| Title: Use of eigenvalue stability analysis for liner inflow test interpretation | | | |
| Virtual | 13:40-14:00 | 14:40-15:20 | |
| Shankar Lal Dangi, Kaunas University of Technology, Lithuania | | | |
| Title: Improving oil recovery in Lithuanian hydrocarbon reservoirs using methods like surfactant and CO ₂ injection | | | |
| Virtual | 14:00-14:20 | 17:00-17:20 | |
| Kapan Shakerkhan, Shakarim University, Kazakhstan | | | |
| Title: Environmental governance and ESG alignment in the petroleum sector: Advancing net-zero strategies through carbon accountability and climate risk integration | | | |
| Virtual | 14:20-14:40 | 15:20-15:40 | |
| Zac Arackakudiyil Suresh, Halliburton, Saudi Arabia | | | |
| Title: Evolution of zonal isolation completion technologies from simple to smart | | | |
| Virtual | 14:40-15:00 | 17:40-18:00 | |
| Kapan Shakerkhan, Shakarim University, Kazakhstan | | | |
| Title: Development of a mathematical model and information system for predicting technological parameters of anaerobic fermentation bioreactor | | | |
| Virtual | 15:00-15:40 | 10:00-10:40 | Keynote Presentations |
| Jorge Antonio Hilbert, Energy and environmental consulting, Argentina | | | |
| Title: Approach to carbon neutral electricity and heat in a bioethanol biorefinery | | | |
| Virtual | 15:40-16:20 | 14:40-15:20 | |
| Saim Memon, Sanyou London Pvt Ltd, United Kingdom | | | |
| Title: Advancements in vacuum insulated technologies for energy efficiency and sustainable temperature sensitive logistics | | | |
| Virtual | 16:20-17:00 | 10:20-11:00 | |
| Michael Radicone, I2 Air Fluid Innovation, Inc and HTRI, United States | | | |
| Title: Maintaining heat transfer functionality with vapor infusion nano bubbles | | | |
| Virtual | 17:00-17:40 | 10:00-10:40 | |
| Selim Sanad Shaker, Geopressure Analysis Services (G.A.S), United States | | | |
| Title: Salt basins exploration risks: The good, bad and ugly | | | |
| Virtual | 17:40-18:20 | 10:40-11:20 | |
| Sharma Dronamraju, AKD Professional Solutions Inc., United States | | | |
| Title: Mature field evaluation and redevelopment case histories and lessons | | | |

Central
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(CEST) Local Timings

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|--|-------------|-------------|---------------------|
| Virtual | 18:20-19:00 | 12:20-13:00 | |
| John W Sheffield, Purdue University, United States | | | |
| Title: Green hydrogen pathway to decarbonize oil refining | | | |
| Virtual | 19:00-19:10 | 19:00-19:10 | Poster Presentation |
| Duaa Allahseh, DBFZ German Biomass Research Center, Germany | | | |
| Hybrid heating system integrating HT-PEMFC, water heat pump, and steam reforming of biogas for residential applications | | | |
| Virtual | 19:10-19:30 | 13:10-13:30 | Oral Presentations |
| Anthony J Sadar and Susan Z Forney, Environmental Science Communication, LLC, United States | | | |
| Title: Environmental risk communication for the oil, gas, and petroleum industries | | | |
| Virtual | 19:30-19:50 | 12:30-12:50 | |
| Selim Sanad Shaker, Geopressure Analysis Services (G.A.S), United States | | | |
| Title: Drilling challenges worldwide due to the geomechanics misconception | | | |
| Virtual | 19:50-20:10 | 12:50-13:10 | |
| Prateek Upreti, Independent Researcher, United States | | | |
| Title: Carbon pricing: Challenges in upstream oil and gas economics | | | |
| Virtual | 20:10-20:30 | 13:10-13:30 | |
| Tirath Raj, University of Illinois, Urbana Champaign, United States | | | |
| Title: Processing of advanced bioenergy crops using Natural Deep Eutectic Solvents (NADESSs) for sustainable biorefinery developments | | | |
| Virtual | 20:30-20:50 | 13:30-13:50 | |
| Wesley Welch, Synthetik Applied-Technologies, United States | | | |
| Title: Machine learning and physics-based modeling to enhance subsurface feature characterization and optimize 3D imaging sensor array configuration | | | |
| Virtual | 20:50-21:10 | 20:50-21:10 | |
| Angel Buendia Esparcia, Universitat Politecnica de Valencia, Spain | | | |
| Title: Innovative technologies and artificial intelligence to decarbonize the shipping industry and measures to control pollution | | | |
| Virtual | 21:10-21:30 | 21:10-21:30 | |
| Nguyen Viet Quang Hung, Centre of Severe Materials and Environment, Vietnam | | | |
| Title: Vietnam coal and underground coal gasification in Red River Coal Basin | | | |
| Virtual | 21:30-21:50 | 21:30-21:50 | |
| Nguyen Viet Quang Hung, Centre of Severe Materials and Environment, Vietnam | | | |
| Title: Potential and using geothermal, solar and wind energies in Vietnam | | | |

*We wish to meet you again at our
upcoming events*

5th Edition of International Conference on
Oil, Gas, and Petroleum Engineering

September 17-19 | Rome, Italy | Hybrid Event

<https://oil-gas.magnusconferences.com/>

3rd Edition of Global Conference on

Biofuels and Bioenergy

September 17-19 | Rome, Italy | Hybrid Event

<https://biofuels-energy.magnusconferences.com/>

Questions? Contact

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