

Joint Event

4TH EDITION OF INTERNATIONAL CONFERENCE ON

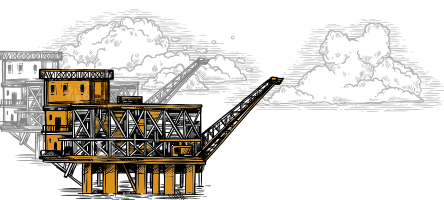
OIL, GAS, AND PETROLEUM ENGINEERING

&

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	Sept 11
		08:50-09:00 Opening Ceremony and Introduction	
		09:00-11:00 In-person Keynote Presentations	
		11:30-16:50 In-person Oral Presentations	
		16:50-17:20 In-person Poster Presentations	
11:00-11:30 Coffee Break 12:50-13:50 Lunch Break 16:50-17:20 Coffee Break			

(In-Person) - Zeus Meeting Hall

DAY 02	Friday	08:30-09:00 AV Check and Introduction	Sept 12
		09:00-10:20 In-person Keynote Presentations	
		10:20-16:30 In-person Oral Presentations	
11:00-11:30 Coffee Break 12:50-13:50 Lunch Break 16:30-17:00 Coffee Break			

(Virtual) - Zoom Meeting

DAY 03	Saturday	08:30-09:00 AV Check and Introduction	Sept 13
		09:00-11:00; Virtual Keynote Presentations	
		15:00-19:00	
		11:00-15:00; Virtual Oral Presentations	
		19:10-21:10	
		19:00-19:10 Virtual Poster Presentation	

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)

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 Gajjela, 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, 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, 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		

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

Maha Jamal Alhouti, 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, IndiaTitle: Viscoelastic and flow properties of CO₂ 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

16:50-17:20 | 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*

End of Day 1

Moderator: 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)

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
Marcelo Henrique de Oliveira Mrtvi, 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		
Group Photo		
11:00-11:30 Coffee Break @Foyer		
In-person	11:30-11:50	
Mehrez Karima, Unilasalle Rennes - School Trades De L'environnement, France		
Title: Contaminated sorghum conversion via hydrothermal carbonization: Solid/liquid products 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		
12:50-13:50 Lunch Break @Restaurant		

In-person 13:50-14:10

Neeraj Singh, Hindustan Petroleum Corporation Limited, IndiaTitle: Reduction of CO₂ 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, IndiaTitle: Successful maximization of the feed rate of a diesel & VGO integrated unit from its original design operating capacity of 326 m³/hr to 400 m³/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 Motevaker, Universitat Politecnica 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 Politecnica de Valencia, Spain

Title: Deployment of the concept of smart grid to the natural gas system: Management strategies and demand response applications

16:30-17:00 | Coffee Break @Foyer

End of Day 2

Central
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(CEST)

Local Timings

Moderator: Prateek Upreti,
Independent Researcher, United States

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		

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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		

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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 (NADESs) 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			

End Note

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

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

September 2026 | Italy | Hybrid Event
<https://oil-gas.magnusconferences.com/>

3rd Edition of Global Conference on
Biofuels and Bioenergy

September 2026 | Italy | Hybrid Event
<https://biofuels-energy.magnusconferences.com/>

Questions? Contact

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