



Joint Event

3<sup>rd</sup> Edition of International Conference on

# **Oil, Gas,** and Petroleum Engineering &

19th Edition of Global Conference on

# Catalysis, Chemical Engineering & Technology

19-21 September | Rome, Italy





#780643

**IN-PERSON:** NH Villa Carpegna Via Pio IV, 6, 00165 Roma RM, Italy VIRTUAL: Central European Summer Time (CEST)

DAY 01 Thursday, September 19 (In-person)	DAY O2 Friday, September 20 (In-Person)	D/ Saturday, (V	DAY 03 Saturday, September 21 (Virtual)
08:00-08:50 Registrations	08:50-09:00 Opening Note and Introduction	Room 1 08:30-09:00 AV Check and Introduction	Room 2 09:30-10:00 AV Check and Introduction
08:50-09:00 Opening Ceremony and Introduction	09:00-11:00 In-person Keynote Presentations	09:00-09:40; 14:10-14:50 Virtual Keynote Presentations	09:00-09:40; 15:30-16:10 Virtual Keynote Presentations
09:00-12:10 In-person Keynote Presentations 12:10-20:30 In-person Oral Presentations	11:30-17:00; 17:30-17:50In-person Oral Presentations17:00:17:30In-person Poster Presentations	09:50-14:10; 14:50-17:10 Virtual Oral Presentations 09:40-09:50 Virtual Poster Presentations	10:10-15:30; 16:10-16:50 Virtual Oral Presentations 09:40-10:10 Virtual Poster Presentations
IN-PERSON	ON Day 01 Break Timings (In-person) 11:00-11:30 13:10-11:30 16:20-16:50	Day 02         Day 02         Break Timings         Break Timings         (In-person)         Coffee Break         Lunch Break        13:10-11:30       Coffee Break         Coffee Break       17:00-17:30       Coffee Break	eak sak
Important Note			
<ul> <li>The conference follows Central European Summer 1</li> <li>When the program refers to Local Timings, it mean:</li> <li>In-person presentations will take place in the Leons</li> <li>Please remain accessible in the hall or on Zoom thr</li> </ul>	ummer Time (CEST) for both In-person and Virtual sessions. it means that the timing mentioned is based on the time zo the Leonardo A Room @NH Villa Carpegna and Virtual prese Zoom throughout the day as there could be minor program a	The conference follows Central European Summer Time (CEST) for both In-person and 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 Leonardo A Room @NH Villa Carpegna 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	eetings or presenter no-shows.



# **SEPTEMBER 19, 2024**

Thursday

# **KEYNOTE PRESENTATIONS**

Central European Summer Time (CEST)	@LEONARDO A
08:00–08:50   Registrations 08:50–09:00   Opening Ceremony and Introduction	Moderator: Shilpa Nandi, Indian Institute of Technology Guwahati, India
09:00-09:40 In-Person	
Irina Giebelhaus BYK-Chemie GmbH, Germany	Title: Innovative chemical additives as pour point depressants
09:40–10:20 In–Person	
Arne Graue University of Bergen, Norway	Title: Disruptive new CCUS technologies utilizing $\rm CO_2$ as a commodity in carbon neutral gas production and reduced carbon footprint oil production
10:20-11:00 In-Person	
Saim Memon Sanyou London Pvt Ltd, United Kingdom	Title: Vacuum insulation energy technologies for realistically reducing heating or cooling energy requirements in buildings
	Group Photo 11:00–11:30   Coffee Break @Foyer
11:30–12:10 In–Person	
Raymond Li University of Canberra, Australia	Title: World oil prices: Has China played a role?

# **ORAL PRESENTATIONS**

In-Person

Chair: Stanislaw Dzwigaj, Sorbonne University, France

12:10-12:30

Laurence Bird S&P Global, Switzerland

Title: The GHG intensity of North Sea production in 2022

Title: Nanotechnology enhanced polymer flooding simulator
Title: Sulfate removal facility yield enhancement
13:10-14:00   Lunch @Restaurant
Title: Advanced comparative studies between MTM-G technology and inline pipeline inspection technology
Title: Accurate prediction of bottom-hole pressure in vertical wells of Algerian fields using a new hybrid intelligent system based on neural network-fuzzy logic and PSO algorithm
Title: Enhanced oil recovery using rectangular silica nanoparticles: An efficiency comparison over commercial spherical nanoparticles
Title: Electrical power sources impact on oil & gas buried pipeline integrity
Title: Innovation on drilling pad and surface facilities selection to unlock potential for oilfield development in populated area
Title: Ensuring safe transition: A comprehensive KIPIC HSE plan for commissioning new or modified plants
Title: The effect of common impurities on the ift, swelling factor and mmp of $CO_2/n$ -decane systems for $CO_2$ -eor applications
16:20–16:50   Coffee Break @Foyer
Title: Rheological and geochemical interactions of low salinity polymer on rock- brine interactions

#### Central European Summer Time (CEST)

#### 17:10–17:30 In-Person

Vishal Dhar Indian Institute of Technology Guwahati, India

#### 17:30-17:50 In-Person

Shilpa Nandi Indian Institute of Technology Guwahati, India

#### 17:50–18:10 In-Person

Enkhsaruul Byambajav National University of Mongolia, Mongolia

#### 18:10–18:30 In–Person

Moftah Ahmed Dieb Petroleum Research Center, Libya

#### 18:30–18:50 In-Person

Noreddin Issa A. Mousa Petroleum Research Center, Libya

#### 18:50–19:10 In–Person

Anthony Djaba Sackey Bureau Veritas Group, Marine and Offshore, Ghana

#### 19:10–19:30 In–Person

Abhishek Prajapati Indian Institute of Technology Madras, India

#### 19:30–19:50 In-Person

Hamad Alomran and Naser Alshebeeb KIPIC (Kuwait Integrated Petroleum Company), Kuwait

In-Person

## Title: Selective Laser Sintering (SLS) and its applications in the oil industry

Title: Permeability reduction threats and the opportunity to enhance well

# 19:50-20:10 In-Person Mohamed Ali Tarassi

Waha Oil Company, Libya

#### 20:10-20:30

Yousef Alqaheem Kuwait Institute for Scientific Research, Kuwait

resources

productivity in geothermal tight sandstone reservoir

Title: A compositional model for  $\mathrm{CO}_{\rm 2}$  foam–based enhanced oil recovery for northeast Indian oil fields

Title: Microbial Enhanced Oil Recovery (MEOR) utilizing biosurfactant-biopolymer synergies

Title: Production of light hydrocarbons ( $C_2-C_4$ ) by hydrogenation of  $CO_2$  using  $CO-K/\gamma-Al_2O_3$  catalysts with additional metal promoters (Ba, La, Ce) and combined supports ( $Y_2O_3$ , TiO<sub>2</sub>)

Title: An organic investigation of source rocks and oils of the upper cretaceous formations of the Sirt Basin, Libya

Title: The integration between global hydraulic elements approach (petrotyping) and petrography to identify the best Intervals in the fluvial reservoir Sirte Basin Libya

Title: An assessment of sociotechnical transitioning in marine warranty survey practice amid the COVID-19 pandemic: Case of West Africa's marine operations

Title: Underground coal gasification: Unlocking the potential of India's coal



# **SEPTEMBER 20, 2024**

Friday

# **KEYNOTE PRESENTATIONS**

Moderator: Enrico Paris, crea-it & diaee, italy
Fitle: $CO_2$ -assisted dehydrogenation of propane to propene over Zn-BEA zeolites: mpact of acid-base characteristics on catalytic performance
Fitle: How to analyze the effectiveness of climate change policy
Title: Personalized and Precision Medicine (PPM) as a unique healthcare model to be set up through biodesign-inspired biotech-driven translational applications and upgraded business marketing to secure the human healthcare, wellness and biosafety
11:00–11:30   Coffee Break @Foyer

# **ORAL PRESENTATIONS**

Chairs: Dai Yeun Jeong, Jeju National University, Korea

11:30-11:50 In-Person	
Abul Kasem Fazlur Rahman University of Oklahoma, United States	Title: Transition metal mediated activation of carbon dioxide
11:50–12:10 In-Person	
Enrico Paris CREA-IT & DIAEE, Italy	Title: Enhancing syngas quality from biomass gasification using an iron-based splitting reactor
12:10–12:30 In-Person	
Lukas Pluska Exazyme GmbH, Germany	Title: Protein regression models as cornerstone of AI–Guided protein evolution

#### Central European Summer Time (CEST)

12:30-12:50 In-Person

#### Doowook Kim

Korea Institute of Energy Research, Korea

Title: Parametric study on steam reforming of methane to syngas with  $\rm Ru/Al_2O_3$  catalyst in an annular reactor

12:50-13:10 In-Person

#### Arzu Akif

Y.H.Mammadaliyev Institute of Petrochemical Processes of the Ministry of Science and Education, Azerbaijan

Title: Oxidative dehydrogenation of 4–Vinylcyclohexene to styrene in a two section reactor on metal–containing zeolites

#### 13:10-14:00 | Lunch @Restaurant

14:00–14:20 In–Person	
<b>Sergey Suchkov</b> The Russian University of Medicine, Russia	Title: Antibody–proteases as unique protein biomarkers, potential targets and translational tools of the next step generation to be applied for biotech–driven biotech and personalized and precision medical practice
14:20–14:40 In–Person	
Salim Daccache Université de Toulouse, France	Title: Magnetically induced heterogeneous catalysis for energy storage applications: Methanation of $\mathrm{CO}_{\rm 2}$
14:40-15:00 In-Person	
<b>Janah Shaya</b> Khalifa University of Science and Technology, United Arab Emirates	Title: 1,3,5–Triethynylbenzene–based conjugated microporous polymers: Green mechanochemical synthesis and energy storage applications
15:00-15:20 In-Person	
Beatrice Vincenti Sapienza University of Rome, Italy	Title: Syngas cleaning by chemical looping conversion of tars from hazelnut shells pyrolysis and gasification
15:20–15:40 In–Person	
<b>Ji-Ren, Zheng</b> National Sun Yat-sen University, Taiwan	Title: Photocatalytic oxidation of elemental mercury by hydrophobic reduced graphene oxide modified $\text{CeO}_2/\text{TiO}_2$
15:40-16:00 In-Person	
<b>leva Kiminaite</b> Lithuanian Energy Institute, Lithuania	Title: Upcycling of plastic to carbon black and $H_2$ -rich gas
16:00–16:20 In–Person	
<b>Orchidea Maria Lecian</b> Sapienza University of Rome, Italy	Title: Markov chain of the k–Ras4B dynamics and new pertinent markov–state model
16:20–16:40 In–Person	
<b>Kai Hong Luo</b> Tsinghua University, China	Title: Efficient catalytic conversion of small molecules for synthetic fuels and chemicals

Central European Summer Time (CEST)

16:40-17:00 In-Person

Fatemehsadat Mirmohammadmakki Shahid Beheshti University of Medical Sciences, Iran

Title: Comparative assessment of biosorption efficiency of two agricultural waste for heavy metal removal

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

# (17:00-17:30) POSTER PRESENTATIONS

PP01 In-Person	
Tim Lenz Technical University of Munich, Germany	Title: Perfectly isotactic polypropylene upon in situ activation of ultrarigid meso metallocenes
PP02 In-Person	
Lukas Eylert Technical University of Munich, Germany	Title: Catalytically programmed functional nano-objects using artificial intelligence
PP03 In-Person	
liham Mokbel Université Claude Bernard Lyon1, France	Title: Phase equilibria (VLE and LLE) of platform molecules for the optimization of separation processes
PP04 In-Person	
Bashar Al-Enezi Kuwait Oil Cinpany, Kuwait	Title: A novel subsurface description for jurassic marrat formation for improved reservoir management in greater Burgan field, Kuwait
PP05 In-Person	
Salim Almutairi Kuwait Oil Cinpany, Kuwait	Title: Infill drilling in the largest clastic reservoir_a challenge
PP06 In-Person	
Laís Bubach Carvalho Simão Federal University of Rio de Janeiro, Brazil	Title: Analysis of operational risk management of health and safety criteria within a multi–criteria analysis methodology for a subsea equipment decommissioning project on an oil and gas production platform



# **SEPTEMBER 21, 2024**

Saturday

KEYNOTE PRESENTATIONS CEST Local Timings	@VIRTUAL ROOM 01
08:30–09:00   AV Check	Moderator: Pieter Samyn, SIRRIS-Department Innovations in Circular Economy, Belgium
09:00-09:40 15:00-15:40	
Shunli Wang Smart Energy Storage Institute, China	Title: Core state parameter monitoring of high-reliability smart energy storage systems
POSTER PRESENTATION	
09:40-09:50 15:40-15:50	
Xia Li Zhengzhou University, China	Title: Upgrading of biomass-derived platform compound 5-hydroxymethylfurfural to high-value chemicals: An environment-friendly corrosion inhibitor

# **ORAL PRESENTATIONS**

09:50-10:10 15:50-16:10	
<b>Xia Li</b> Zhengzhou University, China	Title: Enantioselective total syntheses of mulberry diels-alder type natural products
10:10-10:30 16:10-16:30	
Pangkuan Chen Beijing Institute of Technology, China	Title: $\pi$ -Conjugated luminescent chiral macrocycles and the open-shell radical cations
10:30-10:50 16:30-16:50	
<b>Pengju Wu</b> School of Energy and Power Engineering Jiangsu University, China	Title: Current research progress in heteroatom-doped carbon-based materials for adsorption of pollutants in gas stream
10:50-11:10 11:50-12:10	
Osman Adiguzel Firat University, Turkey	Title: Shape reversibility and functional characterization of shape memory alloys
11:10-11:30 14:40-15:00	
Ashanendu Mandal University of Calcutta, India	Title: Phenol removal from wastewater using innovative biological and industrial wastes as adsorbents
11:30-11:50 15:00-15:20	
Suresh C Ameta Paher University, India	Title: Photocatalysis: An emerging green chemical pathway

	11:50-12:10	11:50-12:1
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#### **Pieter Samyn**

SIRRIS–Department Innovations in Circular Economy, Belgium

Title: Nanocellulose coatings for photocatalytic and photosynthetic properties

#### 12:10-12:30 15:40-16:00 **Tokeer Ahmad** Title: Designing advanced heterostructured nanocatalysts for scalable H<sub>a</sub> production Jamia Millia Islamia India 12:30-12:50 16:00-1620 **Ram Sambhar Shukla** Title: Rhodium-hexagonal mesoporous silica based effective heterogeneous catalyst CSIR-Central Salt and Marine for hydroformylationof vinyl esters Chemicals Research Institute, India 12:50-13:10 17:50-18:10 Vladislav Sadvkov Title: Structured catalysts of biofules transformation into syngas: Design and Boreskov Institute of Catalysis SB performance RAS, Russia 13:10-13:30 14:10-14:30 Igor V Shevchenko Title: Influence of the sun on the day and night sides of the earth. Explanation of the M.P. Semenenko Institute of Geochemistry Mineralogy and Ore 'Storm glass' and 'Water memory' phenomena Formation, Ukraine 13:30-13:50 14:30-14:50 **Elena Milyute** Title: Studying the dynamics of the structure of a mollusk shell using the example of International Research Grouop a bivalent ellipsoidal vortex LITAVEM-3, Lithuania 13:50-14:10 17:20-17:40 **Rajesh Kumar** Title: Lipase mediated synthesis of modified bicyclic nucleosides B.R.A. Bihar University, India

## **KEYNOTE PRESENTATIONS**

#### 14:10-14:50 09:10-09:50

Marta Irene Litter University of General San Martin, Argentina

Title: Use of iron nanomaterials for the treatment of emergent contaminants in water

# **ORAL PRESENTATIONS**

#### 14:50-15:10 18:20-18:40

Reena Saxena Suresh Gyan Vihar University, India Title: Structural and functional evaluation of biochar produced from Spent Coffee Grounds (SCG) for agnps removal from industrial effluent

CEST	Local Timings

15:10-15:30 08:10-08:30

**Orlando Armando Elguera Ysnaga** National University of Engineering, Peru

Title: Review of research topics for scaling-up of sonochemical reactors (Sono-Reactors)

15:30-15:50 19:00-19:20	
V. K. Jain Amity University Uttar Pradesh, Nodia, India	Title: Fabrication of heterojunctions on silicon nanowires on Si Chip, Cds/p–Si for electricity generation from moisture and $n-SnO_2/p-Si$ for UV detection
15:50-16:10 19:20-19:40	
Shashikumar K Paknikar Nishant Aromas Pvt. Ltd, India	Title: Serendipitous biomimetic synthesis of (+)-cymbodiacetal
16:10-16:30 19:40-20:00	
Shally Gupta Indian Institute of Technology, India	Title: Sustainable recycling of valuable materials from lithium-ion battery waste via hydrometallurgical process
16:30-16:50 16:30-16:50	
<b>Xiao Zhang</b> Cracow University of Technology, Poland	Title: Construction of crystalline graphitic carbon nitride composites: Photocatalytic energy conversion
16:50-17:10 16:50-17:10	
<b>Cristina Lavorato</b> University of Calabria, Italy	Title: Photocatalytic degradation of recalcitrant pollutants in batch and membrane reactors



# **SEPTEMBER 21, 2024**

Waewvalee Pramoon, PTT Exploration and Production, Thailand

Saturday

Moderator:

# **KEYNOTE PRESENTATIONS**

CEST Local Timings

#### @VIRTUAL ROOM 02

09:30-10:00 | AV Check

09:00-09:40 15:00-15:40

#### Yuanhua Lin

Southwest Petroleum University, China Title: Mechanical damage behavior and constitutive model of cement sheath under ultra-high temperature thermal cycling

# **POSTER PRESENTATIONS**

# 09:40-09:50 15:40-15:50 Johnson Joachim Kasali<br/>China University of Petroleum<br/>(Beijing), China Title: Integrating deep learning for accurate pore pressure prediction in fractured<br/>conglomerate formation of the Junggar Basin 09:50-10:00 14:50-15:00 Waewvalee Pramoon and East and the second second

**Ronachai Fuangfoong** PTT Exploration and Production, Thailand

#### 10:00-10:10 13:30-13:40

Anshuman Agrawal Minimac Systems Pvt. Ltd., India

Title: Enabling net zero industrial targets through decarbonizing lubricant life-cycle

# **ORAL PRESENTATIONS**

#### 10:10-10:30 13:40-14:00

**Dhiraj Gondaliya** Nayara Energy Limited, India

Title: The novel process for separation of water and sediments from ETP slop oil

#### 10:30-10:50 14:00-14:20

Vikram Mahamiya The Abdus Salam International Centre for Theoretical Physics, Italy

Title: Interplay between van der Waals, Kubas, and chemisorption process for hydrogen storage: A case of Sc–Functionalized  $BeN_4$ 

#### 10:50-11:10 14:20-14:40

Santanu Purohit University of Petroleum & Energy Studies, India

Title: Consumer experience v/s expectations in the digital era in downstream oil & gas industry in India

CEST Local Timings	
11:10-11:30 12:10-12:30	
<b>Shruti Malik</b> Kaunas University of Technology, Lithuania	Title: Geochemical analysis for safe implementation of $\mathrm{CO}_{\rm 2}$ storage in Lithuanian reservoirs
11:30-11:50 15:00-15:20	
Sasmita Chand Manipal Academy of Higher Education, India	Title: Towards sustainable textile and apparel waste management: A comprehensive review
11:50-12:10 11:50-12:10	
<b>Eng Paweł Grabowski</b> Warsaw University of Technology, Poland	Title: Anisidine number as a determinant of aging of ester biofuels
12:10-12:30 15:40-16:00	
Arun Kumar Shandilya Dr.H.S.G.University Sagar, India	Title: Helium in rocks of vindhyan super group around Sagar, South Ganga Basin, Bundelkhand Begion M.P. India
12:30-12:50 16:00-16:20	
Santanu Purohit University of Petroleum & Energy Studies, India	Title: Digital transformation—Usage of technologies for efficiency and effectivity—A fuel retail success story
12:50-13:10 16:20-16:40	
Sathish Sivasubaramaniyan Hindustan Institute of Technology and Science, India	Title: Experimental investigation and parametric optimization with RSM and ANN for floating drum anaerobic bio digester
13:10-13:30 14:10-14:30	
<b>Emin Borlu</b> Erciyes University, Turkey	Title: Experimental investigation of emission and performance values of methanol and gasoline mixtures in an RCCI diesel engine
13:30-13:50 14:30-14:50	
Emir Borovac Istanbul Technical University, Turkey	Title: Thermal maturity and hydrocarbon generation histories of the Silurian Tannezuft Shale formation, Ghadames Basin, Northwestern Libya
13:50-14:10 14:50-15:10	
Ceren Sevimli Istanbul Technical University, Turkey	Title: An assessment of unconventional hydrocarbon potential of the Silurian Dadaş shales in Diyarbakır Basin, Türkiye
14:10-14:30 15:10-15:30	
Ramy Mohamed Fahmy Rashid Petroleum Company, Egypt	Title: Novel approach to detect AVO anomalies supported by direct hydrocarbon indicators in the deep miocene of the offshore mediterranean, Egypt
14:30-14:50 20:30-20:50	
Khosraw Ubaidy China University of Petroleum (Beijing), China	Title: Simulation of fluid flow in the enhanced geothermal system and coupled thermal hydro-mechanical modeling

14:50-15:10 07:50-08:10

#### **Orlando Armando Elguera Ysnaga**

National University of Engineering, Peru

Title: Strategies in petrochemical processes part-I: Case of peruvian oil

#### 15:10-15:30 09:10-09:30

Michael Radicone Heat Transfer Research, Inc, United Title: Nanobubble vapor infusion for heat exchanger fouling prevention States

# **KEYNOTE PRESENTATIONS**

#### 15:30-16:10 09:30-10:10

**CERTI Foundation**, Brazil

John W Sheffield Purdue University, United States

Title: Role of green hydrogen in CO<sub>2</sub> emission mitigation in oil refining

# **ORAL PRESENTATIONS**

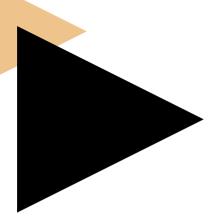
16:10-16:30 17:10-17:30	
Saad Khalid AlSahlawi Kuwait Oil Company, Kuwait	Title: Field implementation and experimental validation of eMCM
16:30-16:50 11:30-11:50	
Nicolas Alexandros Papadopoulos	Title: Standardized practices and digital optimization: Enhancing subsea asset

management with OpenBIM and IFC

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NOTES



# We wish to meet you again at our upcoming events

20th Edition of the Global Conference on

# Catalysis, Chemical Engineering, and Technology

March 13-15, 2025 | Rome, Italy and Online https://catalysis.magnusconferences.com/

4<sup>th</sup> Edition of International Conference on

## **Oil, Gas, and Petroleum Engineering**

September 11-13, 2025 | Valencia, Spain and Online https://oil-gas.magnusconferences.com/

# **Questions? Contact**

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