

CONFERENCE
PROGRAM-HYBRID EVENT



26-28
Oct, 2023

Boston
USA

Joint Event on

**OIL, GAS AND PETROLEUM
ENGINEERING & CATALYSIS,
CHEMICAL ENGINEERING
AND TECHNOLOGY**



IN-PERSON

Hilton Boston/Woburn 2 Forbes Road,
Woburn, Massachusetts, 01801, USA

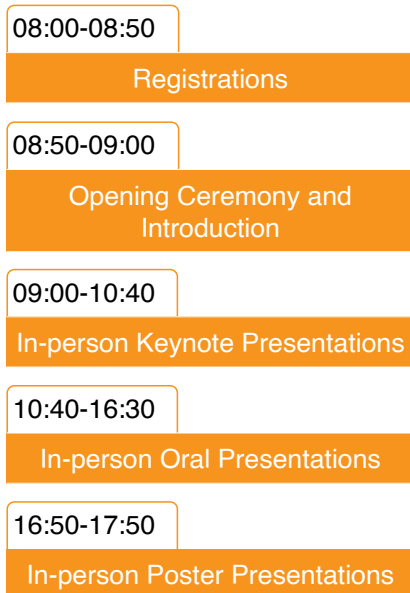


VIRTUAL

Eastern Time
(US & Canada)

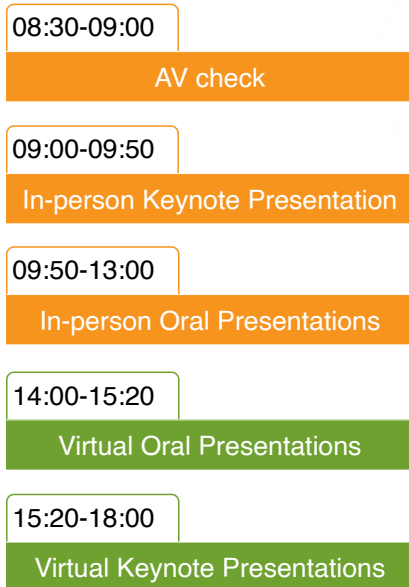
DAY 01

Thursday, October 26
(In-person)



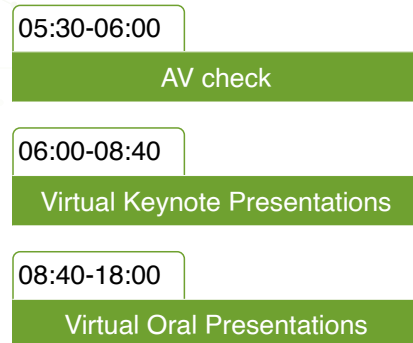
DAY 02



Friday, October 27
(In-person & Virtual)



DAY 03

Saturday, October 28
(Virtual)



 IN-PERSON
 VIRTUAL

Day 01 Break Timings

11:00-11:30	Coffee Break
13:10-14:10	Lunch Break
16:30-16:50	Coffee Break

Day 02 Break Timings

10:50-11:20	Coffee Break
13:00-14:00	Lunch Break
15:20-15:40	Coffee Break

Important Note

- The conference follows Eastern Time (ET) for both in-person and virtual sessions
- The DAY 1 & DAY 2 of the program will take place in-person in Boston, USA and will start from 09:00 EDT
- The DAY 3 will be complete virtual presentations conducted @Zoom and will start from 06:00 EDT
- When the program refers to Local Timings, it means that the timing mentioned is based on the time zone of the presenter's country
- 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

DAY 1

In-person

OCTOBER 26, 2023
Thursday

KEYNOTE PRESENTATIONS

Eastern Time (ET)

@FLAG BALL ROOM

08:00-08:50 | Registrations

08:50-09:00 | Opening Ceremony and Introduction

Moderator:
Youlia Kamei Saito, Federal University of Vicosa, Brazil

09:00-09:50 In-Person

Stanislaw Dzwigaj

Sorbonne-Universite-CNRS,
France

Title: Application of metal single-site zeolite catalysts in catalysis

09:50-10:40 In-Person

Richard Coffin

Texas A&M University - Corpus
Christi, United States

Title: Harmonic frequency cascade: Oil refining with focus on sulfur

ORAL PRESENTATIONS

Chairs:
Richard Coffin, Texas A&M University - Corpus Christi, United States
Stanislaw Dzwigaj, Sorbonne-Universite-CNRS, France

10:40-11:00 In-Person

Shawn Reeves

University of Waterloo, Canada

Title: Engineering stable, expressible, functional industrial enzymes with protein sequence likelihood models

Group Photo

11:00-11:30 | Coffee Break @Grand Ball Room Foyer

11:30-11:50 In-Person

Shutang Chen

Honda Research Institute USA
Inc, United States

Title: fcc/2H and fcc/4H copper nanodisks for carbon dioxide reduction

11:50-12:10 In-Person

Ahmed Bahgat Radwan

Qatar University, Qatar

Title: Tailoring Cu-hydroxyapatite catalysts for hydrogenation of levulinic acid to γ -valerolactone: Impact of copper loading, reaction temperature, and catalyst durability

12:10-12:30 In-Person

Ahmed Mohammed Almogbel
King Abdulaziz City of Science
and Technology, Saudi Arabia

Title: Enhancing energy efficiency in buildings through functional nano-coatings for window glazing: A study on the thermal behavior of glass in Saudi Arabia

12:30-12:50 In-Person

Gitika Rani Saha
IITB-Monash Research Academy,
India

Title: Tunable anchoring of metal nanoparticles on hard carbon supports for kinetically superior and selective hydrogenation of olefins

12:50-13:10 In-Person

Omar Abed
King Abdullah University of
Science and Technology, Saudi
Arabia

Title: The effect of co-feeding H₂ and CO₂ on ethylene oligomerization to produce fuel-range hydrocarbons

13:10-14:10 | Lunch @Brooks Foyer

14:10-14:30 In-Person

Dishant Banga
University of North Carolina at
Charlotte, United States

Title: Data-driven short-term natural gas demand forecasting with machine learning techniques

14:30-14:50 In-Person

Vu Nguyen
University of Louisiana at
Lafayette, United States

Title: Investigation of nano-silica solution flow through cement cracks

14:50-15:10 In-Person

Seddiqi Khwaja Naweed
Akita University, Japan

Title: Decision-making technique for water shutoff using random forests and its application in high water cut reservoirs

15:10-15:30 In-Person

Youlia Kamei Saito
Federal University of Vicosa,
Brazil

Title: Silting process in dam reservoirs. Case study: Lake on the Piumhi River in Minas Gerais - Brazil

15:30-15:50 In-Person

Kazunori Abe
Akita University, Japan

Title: Improvement of the performance of low-salinity water flooding on oil recovery for sandstone reservoirs in northern Afghanistan Kashkari oil field

15:50-16:10 In-Person

Osamah M
Saudi Aramco, Saudi Arabia

Title: Success story in enhancing the reliability of sea water injection used for oil production

16:30-16:50 | Coffee Break @Grand Ball Room Foyer

(16:50-17:50) POSTER PRESENTATIONS

Poster Judge's:
Richard Coffin, Texas A&M University - Corpus Christi, United States
Stanislaw Dzwigaj, Sorbonne-Universite-CNRS, France

PP001 In-Person

Guo Fengshi
Korea University, Korea

Title: Prediction of permeable reactive barrier width for arsenic treatment in groundwater using machine learning techniques

PP002 In-Person

Sun Shiyu
Korea University, Korea

Title: Prediction of micro pollutants degradation kinetic constants by ultrasonic using XGBoost and SHAP models and verification through experiments

PP003 In-Person

Dineshkumar Ishwarlal Prajapati
M. G. Science Institute, India

Title: Synthesis, characterization and application of nano sized barium chromate for photocatalytic degradation of an organic pollutant

PP004 In-Person

Malika Tamimi
University Ibn Zohr, Morocco

Title: The solvent free mechano-chemical grinding of a bifunctional P25-graphene oxide adsorbent photocatalyst and its configuration as porous beads

PP005 In-Person

Cesar Morales Verdejo
Universidad Bernardo O'Higgins,
Chile

Title: Evidence for formation of iron oxide nanoparticles into the mechanistic of the thermal decomposition of ammonium perchlorate using ferrocenyl compounds derived from 1,2,3-triazolyl ligand as burning rate catalysts

PP006 In-Person

Hossein Hezaji
Czech Advanced Technology
and Research Institute (CATRIN),
Czech Republic

Title: Enhanced photodecomposition of ammonia using ruthenium oxide-loaded 2D hematene

PP007 In-Person

Mohamed Salim Al-Fazari
Petroleum Development Oman,
Oman

Title: Flare reduction and utilization for lower GHG

PP008 In-Person

Mohamed Salim Al-Fazari
Petroleum Development Oman,
Oman

Title: Water treatment plant enhancement - Maximize value for lower GHG

Mahdi Ashkanani
Kuwait Oil Company, Kuwait

Title: Water injection for enhanced oil recovery at Kuwait Oil Company

End of Day 1

DAY 2

In-person & Virtual

OCTOBER 27, 2023

Friday

KEYNOTE PRESENTATION

Eastern Time (ET)

@FLAG BALL ROOM

08:30-09:00 | AV check

Moderator:
Shutang Chen, Honda Research Institute USA Inc, United States

09:00-09:50 In-Person

Dai Yeun Jeong

Asia Climate Change Education
Center, South Korea

Title: United Nations' strategy responding to climate change

ORAL PRESENTATIONS

Chair:
Dai Yeun Jeong, Asia Climate Change Education Center, South Korea

09:50-10:10 In-Person

Mohamed A Morsy

King Fahd University of
Petroleum & Minerals, Saudi
Arabia

Title: An innovative magnetic resonance spectroscopic method for catalysts' activities

10:10-10:30 In-Person

Richard Coffin

Texas A&M University - Corpus
Christi, United States

Title: Data required for thorough assessment of oil/gas loading or CO₂ storage monitoring

10:30-10:50 In-Person

Nouh Said Abdullah Al-Naabi

Petroleum Development Oman,
Oman

Title: Operation and production critical valves digitalization. Emergency shutdown valves digitalization journey in oil south fields in Oman for safer and higher ultimate production

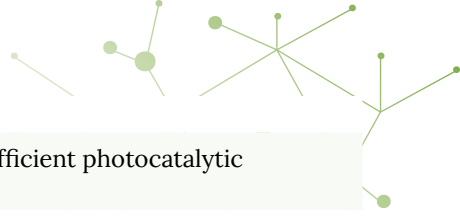
10:50-11:20 | Coffee Break @Grand Ball Room Foyer

11:20-11:40 In-Person

Dhiyab Al-Mahrezi

Petroleum Development Oman,
Oman

Title: Aquifer Pump Off (APO) meter improvement for higher ultimate recovery: An applications of lean approach methodology in a south oil field in Oman



11:40-12:00 In-Person

Salhi Nassima
Blida University, Algeria

Title: $\text{CoFe}_2\text{O}_4/\text{LaAlO}_3$ heterojunction for efficient photocatalytic hydrogen evolution

12:00-12:20 In-Person

Mostafa Ahmed Sobhy
The American University in
Cairo, Egypt

Title: Clay/Brine reactivity and its impact on fluid flow through porous media

12:20-12:40 In-Person

Saad Alarjani
Aramco, Saudi Arabia

Title: Self-Regulating corrosion inhibitors for gas wells: A technological breakthrough

12:40-13:00 In-Person

Bismark Tsatsu Kofi Agbezudor
Duraplast Limited, Ghana

Title: Waste, a resource rather than unwanted and unusable commodity

13:00-14:00 | Lunch @Brooks Foyer

14:00-14:20 Virtual

Yingchun Li
Prairie View A&M University,
United States

Title: Photocatalysis for organic transformations under visible light

14:20-14:40 Virtual

Yira Victoria Hurtado
Universite de Sherbrooke,
Canada

Title: Biofuels production using iron foam as structured catalyst in fischer-tropsch synthesis

14:40-15:00 Virtual

Jessica R P Oliveira
Federal Technological University
of Parana, Brazil

Title: Valorization of the plant extracts in the synthesis of magnetic nanocatalysts

15:00-15:20 Virtual

Orlando Elguera
National University of
Engineering, Peru

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





KEYNOTE PRESENTATIONS

15:20-16:00

Virtual

Nikolaos C Kokkinos
International Hellenic University,
Greece

Title: The contribution of process modeling and simulation in oil and gas industry

16:00-16:40

Virtual

Marco Antonio Ludovico Marques
Polytechnic Institute of Setubal,
Portugal

Title: Mechanical behavior of sandstone reservoir rocks accessed through absorption of water under low pressure test

16:40-17:20

Virtual

Arthur J Nozik
University of Colorado,
United States

Title: Advanced concepts for ultra-high conversion efficiency of solar photons into photovoltaics and solar fuels based on quantization effects in nanostructures and molecular singlet fission

17:20-18:00

Virtual

Haibo Ge
Texas Tech University,
United States

Title: Distal functionalization via transition metal catalysis



End of Day 2

DAY 3

Virtual

OCTOBER 28, 2023
Saturday

KEYNOTE PRESENTATIONS

Eastern Time (ET)

@ZOOM

05:30-06:00 | AV check

06:00-06:40 15:30-16:10

Tokeer Ahmad
Jamia Millia Islamia, India

Title: Designing of nano-sized heterostructures for hydrogen production using overall water splitting

06:40-07:20 18:40-19:20

Yuanhua Lin
Southwest Petroleum University,
China

Title: Failure mechanism of cement sheath interface integrity under severe alternating temperature

07:20-08:00 14:20-15:00

Delia Teresa Sponza
Dokuz Eylül University, Turkey

Title: Nanocatalysts used for biofuel production

08:00-08:40 15:00-15:40

Osman Adiguzel
Firat University, Turkey

Title: Thermal and mechanical processes and reactions in reversible behavior of shape memory alloys

ORAL PRESENTATIONS

08:40-09:00 21:40-22:00

Kilyong Choi
Anyang University, Korea

Title: Air pollution and respiratory disease risks in residential areas near smelters in Korea: A retrospective cohort study using national health information database

09:00-09:20 21:00-21:20

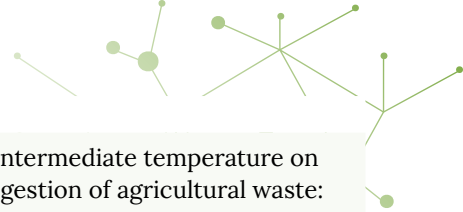
Xiliang Liu
China university of petroleum
Beijing, China

Title: The effect of different phase zones distribution on the characteristics of oil production during CO₂ flooding process

09:20-09:40 21:20-21:40

Endalamaw Ewnu Kassa
Ming Chi University of
Technology, Taiwan

Title: Optimal solvent selection to develop highly responsive and selective MAPbI₃-based ammonia gas sensors



09:40-10:00 21:40-22:00

Md Nurul Islam Siddique
University Malaysia Terengganu,
Malaysia

Title: Role of supplemented nutrients and intermediate temperature on Bio-methane generation from anaerobic digestion of agricultural waste: Feasibility & fertilizer recovery

10:00-10:20 19:30-19:50

Dhanasekaran P
Erode Sengunthar Engineering
College, India

Title: Fixed bed adsorption of Arsenate [As(V)] and Arsenite [As(III)] from groundwater using *Artocarpus hirsutus* based adsorbent

10:20-10:40 19:50-20:10

Suresh C Ameta
Paher University, India

Title: Photocatalysis: An eco-friendly technology

10:40-11:00 20:10-20:30

Ashanendu Mandal
University of Calcutta, India

Title: Removal of phenol from wastewater using biological and industrial wastes as adsorbents

11:00-11:20 18:00-18:20

Bayan M Abbas
King Abdulaziz University, Saudi
Arabia

Title: Facile fabrication of $\text{SnO}_2/\text{g-C}_3\text{N}_4$ photocatalysts for the degradation of endocrine disruptors and pharmaceutical drugs in natural sunlight exposure

11:20-11:40 18:20-18:40

Mostafa Matar
Saudi Aramco, Saudi Arabia

Title: The removal of refining hydrocracking's heavy polynuclear aromatic hydrocarbons: Challenges and solutions

11:40-12:00 19:40-20:00

Yarub Al Douri
University of Sharjah, UAE

Title: Incorporating nanotechnology into renewable energy

12:00-12:20 20:00-20:20

Arzu Akif
Y.H.Mamedaliyev's Institute
of Petrochemical Processes
of the Ministry of Science and
Education, Azerbaijan

Title: Oxidative dehydrogenation of 4-vinylcyclohexene in the presence of modified forms of Zr, Fe-pentasyls

12:20-12:40 19:50-20:10

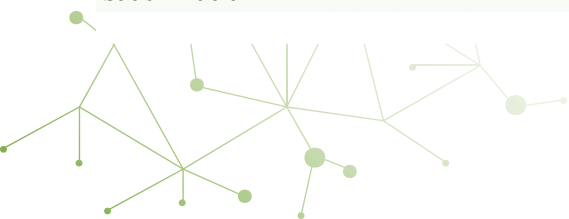
Nahal Majdodin
Science and Research Branch
University of Tehran, Iran

Title: Comparison of the heterogeneous catalytic activity of various solid acids in esterification process of methyl acetate production

12:40-13:00 19:40-20:00

Amal Ali Atran
King Khalid University,
Saudi Arabia

Title: Tuning the photocatalytic activity of cerium oxide





13:00-13:20 22:30-22:50

Arun K Shandilya

Hari Singh Gour University Sagar
M.P, India

Title: Finding of the helium in the petroliferous tube wells in Saugor Division, Southern Ganga Basin, Bundelkhand Region, M.P. India

13:20-13:40 20:20-20:40

Adib Gareyev

Ufa University of Science and
Technology, Russia

Title: Solving modern problems of oil production - through automation

13:40-14:00 20:40-21:00

Delia Teresa Sponza

Dokuz Eylul University, Turkey

Title: Biodiesel production from Waste Cooking Oil (WCO) using calcium oxide (CaO) nano-catalyst

14:00-14:20 22:00-22:20

Intisar Al Busaidi

Sultan Qaboos University, Oman

Title: Experimental investigation of low salinity polymer from pore to core scale in heavy oil sandstone reservoirs

14:20-14:40 21:20-21:40

Musaed Al Harbi

Kuwait Oil Company, Kuwait

Title: Oil & Gas facility integrity enhancement through systematic & risk based prioritization of actions generated through inspection & corrosion reports

14:40-15:00 21:40-22:00

Kamel Fahmi Bou Hamdan

Phoenicia University, Lebanon

Title: The innovative applications of nanomaterials in the oil and gas industry

15:00-15:20 22:00-22:20

Shruti Malik

Kaunas University of Technology
- KTU, Lithuania

Title: Role of digital rock physics in successful implementation of sub-surface carbon storage

15:20-15:40 22:20-22:40

Andrii Panchuk

Ivano-Frankivsk National
Technical University of Oil and
Gas, Ukraine

Title: Use of "green" technologies for methanol production

15:40-16:00 21:40-22:00

Roberto Luigi Oliveri

University of Palermo, Italy

Title: Performance of nanostructured ni alloy electrodes for hydrogen and oxygen evolution reaction in water-alkaline electrolyzer

16:00-16:20 22:00-22:20

Bernardo Patella

University of Palermo, Italy

Title: Reduction of graphene oxide supported on paper by CO₂ laser and its application as electrochemical sensing of phosphate ions

16:20-16:40 15:20-15:40

Yuli Marcela Henao Hoyos

Universidad Nacional de,
Colombia

Title: Photo-oxidation of cyanide in aqueous solution under visible light using Fe-TiO₂ synthesized from ilmenite



16:40-17:00 22:40-23:00

Salvatore Geraci
Universita Degli Studi di
Palermo, Italy

Title: Performance of Nickel-Iron nanostructured electrodes at different temperatures

17:00-17:20 23:00-23:20

Victor Cerda
Sciware Systems, Spain

Title: Analytical kinetic thermometric methods. A review

17:20-17:40 18:20-18:40

Vitor Seiji Andrade Tatemoto
University Federal of Santa
Catarina, Brazil

Title: Thermomechanical analysis of wire arc additive manufacturing of the bell mouth component of offshore facilities

17:40-18:00 05:40-06:00


Kashan Bashir
Tsinghua University, China

Title: Production of biomass-derived 2,5-furandicarboxylic acid alternative to terephthalic acid over non-precious catalyst

END NOTE

Important Note

- The conference follows Eastern Time (ET) for both in-person and virtual sessions
- The DAY 1 & DAY 2 of the program will take place in-person in Boston, USA and will start from 09:00 EDT
- The DAY 3 will be complete virtual presentations conducted @Zoom and will start from 06:00 EDT
- When the program refers to Local Timings, it means that the timing mentioned is based on the time zone of the presenter's country
- 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



*We wish to meet you again at our
upcoming editions...*

Questions? Contact

Phone: +1 (702) 988 2320 | Whatsapp: +1 (540) 709 1879
e-mail: secretary@magnusconference.com

