magnus Group

CONFERENCE
PROGRAM

21ST EDITION OF GLOBAL CONFERENCE ON

CATALYSIS, CHEMICAL ENGINEERING & TECHNOLOGY

September
11-13, 2025

VIRTUAL
Central European Summer Time (CEST)

VIRTUAL

DAY 01 Thursday — SEP 11

09:30-10:00	AV Check and Introduction
10:00-12:30	Keynote Presentations
12:30-15:10	Oral Presentations

VIRTUAL

DAY 02 Friday — SEP 12

10:00-11:40; 13:40-14:30	Keynote Presentations
11:40-13:20	Oral Presentations
14:30-15:00	Poster Presentations

VIRTUAL

DAY 03 Saturday — SEP 13

10:00-12:30	Keynote Presentations
12:30-15:10	Oral presentations

Important Note

- The conference follows Central European Summer Time, (CEST) time zone and will take place in Zoom meetings.
- 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 on Zoom throughout the day as there could be minor program adjustments due to technical issues or presenter no-shows.

Moderator: Fatemehsadat Mirmohammadmakki,
Shahid Beheshti University of Medical Sciences, Iran

	Central European Summer Time (CEST)	Local Timings	
Virtual	10:00-10:50	17:00-17:50	**Keynote Presentations**
	Dai Yeun Jeong, Asia Climate Change Education Center, South Korea		
	Title: Human impact on natural environment and its implications		
Virtual	10:50-11:40	10:50-11:40	
	Isabel Oller Alberola, CIEMAT-Plataforma Solar de Almeria, Spain		
	Title: Solar heterogeneous photocatalysis and photochemistry for urban wastewater regeneration and reuse		
Virtual	11:40-12:30	15:10-16:00	
	Ram Sambhar Shukla, CSIR-Central Salt and Marine Chemicals Research Institute, India		
	Title: Perspective of ruthenium complex catalyst system for selective oxidation of methane		
Virtual	12:30-12:50	18:30-18:50	**Oral Presentations**
	Ying Li, School of Energy and Power Engineering Jiangsu University, China		
	Title: Research progress and future development trend of plasma technology in the field of mercury removal from flue gas		
Virtual	12:50-13:10	18:50-19:10	
	Pengju Wu, School of Energy and Power Engineering Jiangsu University, China		
	Title: Current research progress in alkali metals poisoning of Selective Catalytic Reduction (SCR) denitration catalysts		
Virtual	13:10-13:30	16:40-17:00	
	Sai Prakash Katke, University of Mumbai, India		
	Title: Solar-powered rod-shaped Cu-MOF photocatalyst with carboxylate double linkers for efficient Cr(VI) reduction and Rhodamine B degradation		
Virtual	13:30-13:50	17:00-17:20	
	J Somasekar, Jain University, India		
	Title: Predictive modelling for catalysis using supervised machine learning		
Virtual	13:50-14:10	14:50-15:10	
	Mohammad Alobaid, Kuwait Institute for Scientific Research (KISR), Kuwait		
	Title: The effect of Na2SO4 Salt on the crystallization kinetics of Mordenite Framework Inverted (MFI) zeolite		
Virtual	14:10-14:30	14:10-14:30	
	De Sa Peixoto, INRAE/UMET, France		
	Title: Guided microbial enzymatic catalysis for developing biocompatible, eco-friendly nanostructured smart materials		

	Central European Summer Time (CEST)	Local Timings
Virtual	14:30-14:50	15:30-15:50

Sajjad Ali, Prince Sultan University, Saudi Arabia

Title: The role of hydrogen in sustainable energy solutions

Virtual	14:50-15:10	15:50-16:10

Elena Milyute, IRG "LITAVEM-3", Lithuania

Title: Vortex structure and polymorphism of crystals: Optical manifestations and dynamics of transformations

Moderator: Tapati Bhanja Dey
Jain University School of Allied Healthcare & Sciences, India

	Central European Summer Time (CEST)	Local Timings	
Virtual	10:00-10:50	11:00-11:50	**Keynote Presentations**

Sergey Suchkov, N.D. Zelinskii Institute for Organic Chemistry of the Russian Academy of Sciences, Moscow, Russia
China Hong Kong Innovation International Business Association, Hong Kong

Title: Personalized and Precision Medicine PPM as a unique healthcare model through biodesign inspired and biotech driven translational applications and upgraded business marketing to secure the human healthcare and biosafety

Virtual	10:50-11:40	10:50-11:40	

Enrico Paris, CREA-IT & DIAEE, Italy

Title: Effect of bed material on syngas quality: Comparison of biomass gasification with different bed materials

Virtual	11:40-12:00	17:40-18:00	**Oral Presentations**

Jorge A Delgado, Syensqo, China

Title: Bimetallic catalysts for the hydrogenation of amides: From experimental to data-driven insights

Virtual	12:00-12:20	13:00-13:20	

Sergey Suchkov, N.D. Zelinskii Institute for Organic Chemistry of the Russian Academy of Sciences, Moscow, Russia
China Hong Kong Innovation International Business Association, Hong Kong

Title: Antibody proteases as translational biomarkers, targets and potential tools of the next step generation as applicable for design driven personalized and precision medical practice

Virtual	12:20-12:40	15:50-16:10	

Ladapborlang Mawrie, University of Science & Technology Meghalaya, India

Title: Who gives the hydrogen? A mechanistic study through isotope labeling in photocatalytic hydrogen evolution reactions using cobalt complexes as a catalyst under neutral pH

Virtual	12:40-13:00	12:40-13:00	

Lina Montuori, Universitat Politecnica de Valencia, Spain

Title: Thermo fluid dynamics analysis of high temperature solar thermal collector systems

Virtual	13:00-13:20	14:30-14:50	

Fatemehsadat Mirmohammadmakki, Shahid Beheshti University of Medical Sciences, Iran

Title: Biosorption: A sustainable and practical effective technique for heavy metal reduction

Virtual	13:20-13:40	06:20-06:40	

Haibo Ge, Texas Tech University, United States

Title: Distal functionalization via transition metal catalysis

	Central European Summer Time (CEST)	Local Timings	
Virtual	13:40-14:30	07:40-08:30	**Keynote Presentation**

Thomas J Webster, Hebei University of Technology/Brown University, United States

Title: 30,000 nano implants in humans with no infections, no loosening, and no failures

Virtual	14:30-14:40	17:30-17:40	**Poster Presentations**

Mikhail Petrovich Kashchenko, Ural Federal University, Ural State Forest Engineering University, Russia

Title: Fixation of atoms with increased masses, as a consequence of the existence of massive electron pairs - the basis of catalysis of low-temperature nuclear synthesis

Virtual	14:40-14:50	14:40-14:50	

Maria Gomez Gomez, Murcia University, Spain

Title: Removal of terephthalic acid, derived from polyethylene terephthalate plastics, using an advanced oxidation process based on a KrCl excimer photoreactor

Virtual	14:50-15:00	13:50-14:00	

Ibtissem Guennoun, University Claude Bernard France - University Abou Bekr Belkaid, Algeria

Title: Experimental vapor-liquid equilibria of pure compounds and binary systems (furfural + ɣ valerolactone or ɣ- utyrolactone) encountered in biorefineries

Moderator: Ibtissem Guennoun
University Claude Bernard France - University Abou Bekr Belkaid, Algeria

	Central European Summer Time (CEST)	Local Timings	
Virtual	10:00-10:50	11:00-11:50	**Keynote Presentations**

Osman Adiguzel, Firat University, Turkey

Title: Thermomechanical processes and transformations governing reversibility in shape memory alloys

Virtual	10:50-11:40	15:50-16:40	

Vladislav Sadykov, Boreskov Institute of Catalysis SB RAS, Russia

Title: Design of nanocomposite materials for active components of structured catalysts for biofuels transformation into syngas, catalytic layers of membrane reactors with oxygen/hydrogen separation and anodes of solid oxide fuels cells operating in the internal reforming mode

Virtual	11:40-12:30	15:10-16:00	

Tokeer Ahmad, Jamia Millia Islamia, India

Title: Multi-component heterostructures for scalable green H2 production using overall catalysis

Virtual	12:30-12:50	18:30-18:50	**Oral Presentations**

Guo Wei He, TEDA International Cardiovascular Hospital, Tianjin University, China

Title: Role of lysine propionylation of human right atrium and ALDH6A1-NADH pathway in new-onset atrial fibrillation after coronary surgery

Virtual	12:50-13:10	16:20-16:40	

S R Varadhan, Independent Researcher, India

Title: FTIR and Raman spectral analysis on kerosene and crude oil-auldetration in gaselione, adverse effects on nature during production and trasportation

Virtual	13:10-13:30	16:40-17:00	

Ashanendu Mandal, University of Calcutta, India

Title: Application of solid waste materials for adsorptive removal of toxic phenol from wastewater to protect environment and also to generate circular economy

Virtual	13:30-13:50	14:30-14:50	

Rukiye Oztekin, Dokuz Eylul University, Turkey

Title: Production of nanocomposites from wastes to remove the pollutants

Virtual	13:50-14:10	17:20-17:40	

Jeevan R Dontulwar, Shri Mathuradas Mohota College of Science, India

Title: Biodegradable detergent and its impact on environment and economy

Virtual	14:10-14:30	09:10-09:30	

Yanina Martinez, National Atomic Energy Commission, Argentina

Title: Spectrofluorimetric study of the reversible self-assembly of Irinotecan in aqueous medium

	Central European Summer Time (CEST)	Local Timings
Virtual	14:30-14:50	18:00-18:20
	Tapati Bhanja Dey, Jain University School of Allied Healthcare & Sciences, India	
	Title: Green chemistry in action: Enzymatic extraction of bioactive phenolics	
Virtual	14:50-15:10	18:20-18:40
	Shashikumar K Paknikar, Department of Chemistry, Goa University, Goa. India	
	Title: Acid Catalysed transformation of (+)-longifolene and (-)-isolongifolol: Mechanistic aspects	

END NOTE

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We wish to meet you again at our upcoming events

21st Edition of International Conference on

Catalysis, Chemical Engineering and Technology (CCT 2026)

June 18-20, 2026 | Barcelona, Spain and Online

https://catalysis-conferences.com/

22nd Edition of Global Conference on

Catalysis, Chemical Engineering & Technology (CAT 2026)

October 2026 | Japan and Online

https://catalysis-conferences.magnusgroup.org/

Questions? Contact

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