

3rd Global Summit on

CATALYSIS & CHEMICAL ENGINEERING

September 18 & 19, 2025 at Park Inn
by Radisson Krakow, Poland

Theme:

“Unlocking Future
Pathways through Catalysis
and Chemical Engineering”



Chem Science 2025

<https://catalysisconference.pagicle.com/>



SCIENTIFIC AGENDA

DAY-1

18TH SEPTEMBER 2025

In-person Conference

DAY-1

18TH SEPTEMBER 2025

Time	Name & Affiliation	Title
08:00 - 08:30	Onsite Registration & Seating Arrangment	
08:30 - 09:00	Introduction & Opening Ceremony	
Honourable Chairperson: Prof. Dr. Klaus - Ulrich Neumann,SRH Berlin University of Applied Sciences, Germany		
Plenary Presentation		
09:00 - 09:45	Dr. Javier González-Benito University Carlos III of Madrid, Spain	Solution blow spinning: A sustainable technique for the fabrication of eco-friendly polymers for diverse applications
Keynote Presentation		
09:45 - 10:20	Dr. Lidia Bandura Lublin University of Technology, Poland	Cyclodextrin-functionalized zeolites as next-generation hybrid materials for sustainable construction and environmental engineering
10:20 - 10:50 Refreshment, Coffee Break & Networking		
Keynote Presentations Cont..		
10:50 - 11:25	Dr. Juan Pedro Fernández-Blázquez IMDEA Materials Institute, Spain	Polymer science and technology in the era of 3D printing: structure/processing-morphology-property relationships
11:25 - 12:00	Prof. Andrzej Galeski Polish Academy of Sciences, Poland	Plasticity of crystalline plastics
12:00 - 12:35	Dr. Alberto García-Peñas University Carlos III de Madrid, Spain	Thermoresponsive copolymers with iron oxide magnetic nanoparticles for chromium (IV) water remediation
12:35 - 13:10	Dr. Cláudia Maria Batista Lopes University of Aveiro, Portugal	Clay-based nanocomposites for rare earth recovery: from nature to nanoscale solutions
Memorable Group Photo, Selfie & Networking		
13:10 - 14:00 (Tempting Buffet Lunch - Duration: 50min)		
Keynote Presentations Cont..		

14:00 - 14:35	Dr. Oleksandr Tkach <i>University of Aveiro, Portugal</i>	Performance of potassium sodium niobate piezoelectric ceramics alternatively sintered at low thermal budget
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Oral Presentations

14:35 - 15:00	Prof. Dr. Klaus-Ulrich Neumann <i>SRH Berlin University of Applied Sciences, Germany</i>	Contactless resistivity measurements – fundamentals
15:00 - 15:25	Prof. Andrea Reale <i>University of Rome Tor Vergata, Italy</i>	Scaling up from cell to module organic semiconductor composites for low-temperature-grade energy harvesting
15:25 - 15:50	Prof. Akira Yoshikawa <i>Tohoku University, Japan</i>	Crystal growth method for next generation power semiconductors gallium oxide single crystals without using precious metal crucibles
15:50 - 16:15	Dr. Michał Strankowski <i>Gdansk University of Technology, Poland</i>	Self-healing 3D printing polyurethane nanocomposites based on graphene

16:15 - 16:45 (Refreshment & Coffee - Duration: 30min)

Oral Presentations

16:45 - 17:10	Prof. Mirko Černák <i>Masaryk University, Czech Republic</i>	Can graphene be fabricated fast and cheap?: Ultra-fast, self-propagating and scalable low temperature atmospheric plasma triggered reduction/exfoliation of 2D and 3D graphene oxide structures
17:10 - 17:35	Dr. Andrzej Rybak <i>ABB Corporate Technology Center, Poland</i>	Smart polymer composites with shape memory effect and enhanced thermal conductivity
17:35 - 18:00	Prof. Marek Godlewski <i>The Institute of Physics of the Polish Academy of Sciences (IFPAN), Poland</i>	Theranostic applications of nanoparticles of selected wide band gap oxides
18:00 – 18:25	Mr. Athaher Basha <i>PageMaths Inc., USA</i>	Introduction of PageMaths

END OF DAY 1



SCIENTIFIC AGENDA

DAY-2

19TH SEPTEMBER 2025

In-person Conference

DAY-2

19TH SEPTEMBER 2025

Time	Name & Affiliation	Title
08:30 - 09:00	Onsite Registration & Seating Arrangment	
Honourable Chairperson: Prof. Dr. Klaus - Ulrich Neumann, SRH Berlin University of Applied Sciences, Germany		
Keynote Presentations		
09:00 - 09:35	Prof. Saulius Klimašauskas Vilnius University, Lithuania	Engineering enzymatic transferase reactions for targeted functionalization and analysis of DNA and RNA
09:35 - 10:10	Prof. Jyh-Chiang Jiang National Taiwan University of Science and Technology, Taiwan	Study of methane conversion from DFT calculations and microkinetics simulations
(10:10 - 10:40) Refreshment, Coffee Break & Networking-Duration: 30min		
Oral Presentations		
10:40 - 11:05	Dr. Kurt Püntener F. Hoffmann-La Roche Ltd, Switzerland	Catalysis at Roche: key enablers towards sustainable processes for our pipeline molecules
11:05 - 11:30	Prof. Anita Trenczek-Zajac AGH University of Krakow, Poland	BiVO ₄ and Its heterostructures: tuning photocatalytic efficiency through interface design
11:30 - 11:55	Dr. Ignacy Jakubowicz RISE Research Institutes of Sweden, Sweden	Traceability to promote circular use of plastics
11:55 - 12:20	Dr. Masataka Sugimoto Yamagata University, Japan	Tensile strength of multilayered co-extrusion films using two kinds of polypropylenes
12:20 - 12:45	Dr. Szymon Malinowski Lublin University of Technology, Poland	Mitigation of bitumen thermo-oxidative ageing with innovative zeolite-oxide additives
Memorable Group Photo, Selfie & Networking		
12:45 - 13:45 (Tempting Buffet Lunch - Duration: 1hr)		
Oral Presentations Cont..		
13:45 - 14:10	Prof. Wiesław A. Świątnicki Warsaw University of Technology, Poland	Innovations in nanostructured steels: advanced processes for enhanced performance and industrial sustainability
14:10 - 14:35	Dr. Dania Olmos University Carlos III of Madrid, Spain	Fibrous PHA–Sargassum composites for sustainable packaging and controlled-release agri-food industry applications

14:35 - 15:00	Dr. Jarosław Ferenc <i>Warsaw University of Technology, Poland</i>	Modern, magnetically soft materials: fabrication, structure and properties
15:00 - 15:25	Prof. Sung Chyr Lin <i>National Chung Hsing University, Taiwan</i>	Development and application of chitosan-based metal chelate adsorbents for protein purification and enzyme immobilization
15:25 - 15:50	Prof. Tofik Nagiev <i>Nagiev Institute of Catalysis and Inorganic Chemistry of Ministry of Science and Education, Azerbaijan</i>	Gas-phase oxidation of some alkylpyridines with nitrous oxide
15:50 - 16:15	Dr. Zoulikha Abdelsadek <i>University of M'hamed Bougara Boumerdes, Algeria</i>	A new approach to catalytic reactivity to study the influence of Mg in Ni-based takovite-type catalysts via dry methane reforming

16:15 - 16:45 Refreshment, Coffee Break & Networking-Duration: 30min

Poster Presentations

	Ms. Natalia Pajdosz <i>Lublin University of Technology, Poland</i>	Effect of the addition of zeolite-cyclodextrin composites on the rheological properties and foaming effect of asphalt binders
	Mr. Mateusz Golda <i>Lublin University of Technology, Poland</i>	Influence of starches of different botanical origin on the bitumen aging behavior
	Mr. Wojciech Bulowski <i>AGH University of Krakow, Poland</i>	Co-Doped metal oxide thin films fabricated by ALD for enhanced resistive oxygen sensing
16:45 - 17:55	Dr. Anna Jakimińska <i>Lublin University of Technology, Poland</i>	The influence of the blowing agent on the welding of the LDPE films
	Associate Prof. Nina Kaneva <i>Sofia University St. Kliment Ohridski, Bulgaria</i>	Tribocatalytic degradation of axetine using hydrothermal and Sol-Gel Zinc oxide
	M.B. Khan <i>SRH University, Berlin, Germany</i>	Description of the ramping for a driven oscillator
	V. Achinova <i>SRH University, Berlin, Germany</i>	Contactless resistivity measurements – data analysis

Video Presentations

17:55 -18:25	Prof. Elif Somuncu, <i>Usak University, Turkey</i>	Evaluation of thermodynamic properties of gases with virial equation of state
18:25 - 18:55	Best Poster Awards & Conference Closing Ceremony	

END OF THE CONFERENCE



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