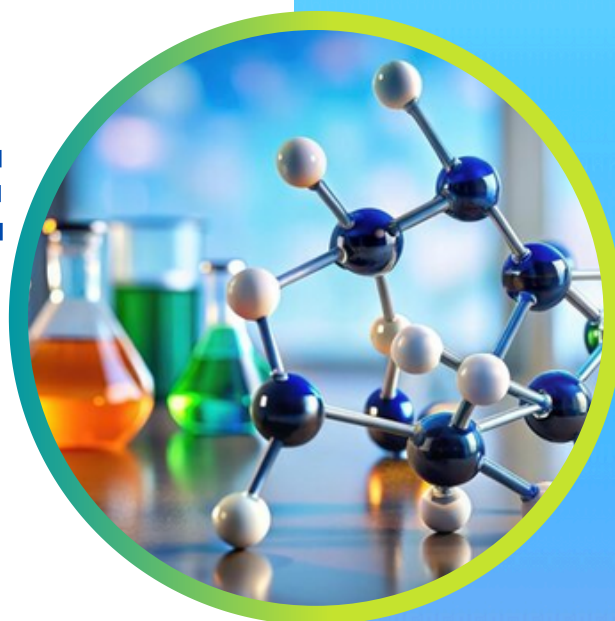


SCIENTIFIC PROGRAM

CONFERENCE ON MATERIALS SCIENCE & POLYMER SCIENCE



DATE

September 18-19, 2025

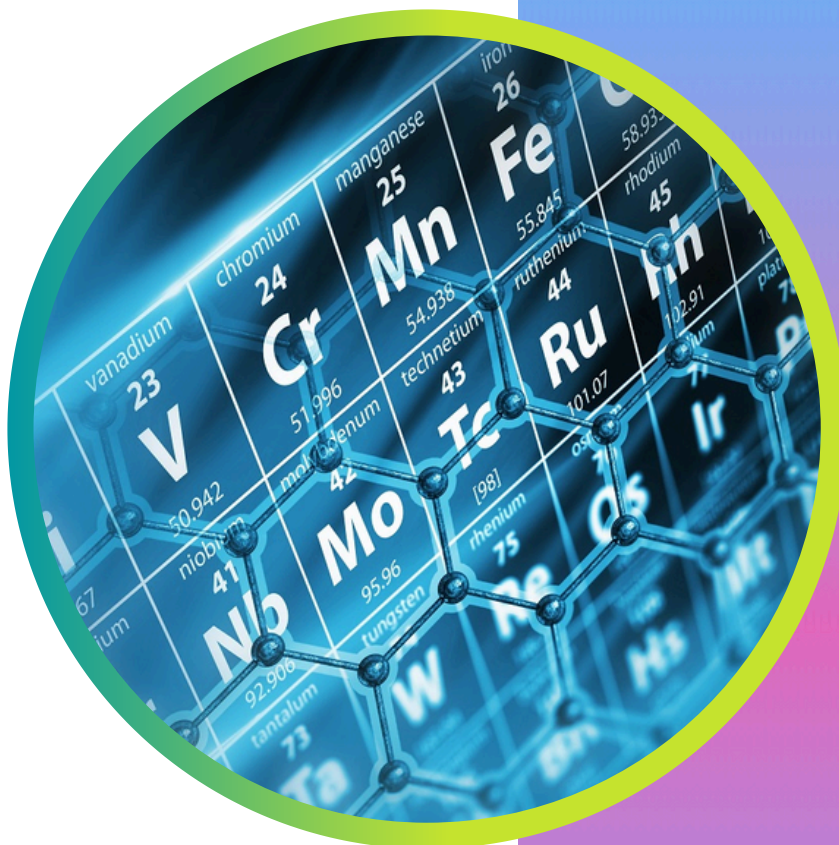
VENUE

Park Inn by Radisson
Krakow, Poland



MORE INFO

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08:00 - 08:30 Onsite Registration & Seating Arrangement

08:30 - 09:00 Introduction & Open Ceremony

Honourable Chairperson:

Prof Klaus - Ulrich Neumann, SRH Berlin University of Applied Sciences, Germany

Plenary Presentation

09:00 - 09:45 **Title: Solution Blow Spinning: A Sustainable Technique for the Fabrication of Eco-Friendly Polymers for Diverse Applications**
Dr Javier González-Benito, University Carlos III of Madrid, Spain

Keynote Presentations

09:45 - 10:20 **Title: Cyclodextrin-Functionalized Zeolites as Next-Generation Hybrid Materials for Sustainable Construction and Environmental Engineering**
Dr Lidia Bandura, Lublin University of Technology, Poland

(10:20 - 10:50) Refreshment & Coffee Break & Networking-Duration: 30min

Keynote Presentations Cont...

10:50 - 11:25 **Title: Polymer Science and Technology in the Era of 3D Printing: Structure/Processing-morphology-Property Relationships**
Dr Juan Pedro Fernández-Blázquez, IMDEA Materials Institute, Spain

11:25 - 12:00 **Title: Plasticity of crystalline plastics**
Prof. Andrzej Galeski, Polish Academy of Sciences, Poland

12:00 - 12:35 **Title: Thermoresponsive Copolymers with Iron Oxide Magnetic Nanoparticles for Chromium (IV) Water Remediation**
Dr Alberto García-Peñas, University Carlos III de Madrid, Spain

12:35 - 13:10 **Title: Clay-based nanocomposites for rare earth recovery: from nature to nanoscale solutions**
Dr Cláudia Maria Batista Lopes, University of Aveiro, Portugal

(13:10 - 14:00) Memorable Group Photo & Tempting Buffet lunch- Duration: 50min

Keynote Presentations Cont...

14:00 - 14:35 **Title: Performance of Potassium Sodium Niobate Piezoelectric Ceramics Alternatively Sintered at Low Thermal Budget**
Dr. Oleksandr Tkach, University of Aveiro, Portugal

Invited Speaker Presentations

- 14:35 - 15:00 **Title: Contactless Resistivity Measurements – Fundamentals**
Prof. Dr. Klaus-Ulrich Neumann, SRH University, Berlin, Germany
- 15:00 - 15:25 **Title: Scaling up from Cell to Module Organic Semiconductor Composites for Low-Temperature-Grade Energy Harvesting**
Prof Andrea Reale, University of Rome Tor Vergata, Italy
- 15:25 - 15:50 **Title: Crystal growth method for next generation power semiconductors gallium oxide single crystals without using precious metal crucibles**
Prof Akira Yoshikawa, Tohoku University, Japan
- 15:50 - 16:15 **Title: Self-healing 3D printing polyurethane nanocomposites based on graphene**
Dr. Michał Strankowski, Gdansk University of Technology, Poland

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

Invited Speaker Presentations Cont..

- 16:45 - 17:10 **Title: 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**
Prof Mirko Černák, Masaryk University, Czech Republic
- 17:10 - 17:35 **Title: Smart Polymer Composites with Shape Memory Effect and Enhanced Thermal Conductivity**
Dr. Andrzej Rybak, ABB Corporate Technology Center, Krakow, Poland
- 17:35 - 18:00 **Title: Theranostic applications of nanoparticles of selected wide band gap oxides**
Prof Marek Godlewski, The Institute of Physics of the Polish Academy of Sciences (IFPAN), Poland
- 18:00 – 18:25 **Title: Introduction of PageMaths**
Mr. Athaher Basha, PageMaths Inc., USA

*****End Of Day 1*****

08:30 - 09:00 Onsite Registration & Seating Arrangement

Honourable Chairperson:

Prof Klaus - Ulrich Neumann, SRH Berlin University of Applied Sciences, Germany

Keynote Presentation

09:00 - 09:35 **Title: Engineering enzymatic transferase reactions for targeted functionalization and analysis of DNA and RNA**

Prof. Saulius Klimašauskas, Vilnius University, Lithuania

09:35 - 10:10 **Title: Study of methane conversion from DFT calculations and microkinetics simulations**

Prof. Jyh-Chiang Jiang, National Taiwan University of Science and Technology, Taiwan

(10:10 - 10:40) Refreshment & Coffee Break & Networking-Duration: 30min

Invited Speaker Presentations

10:40 - 11:05 **Title: Catalysis & conti processing at roche: key enablers towards sustainable processes for our pipeline molecules**

Dr. Kurt Puntener, F. Hoffmann-La Roche Ltd, Switzerland

11:05 - 11:30 **Title: BiVO₄ and Its heterostructures: tuning photocatalytic efficiency through interface design**

Prof. Anita Tenczek-Zajac, AGH University of Krakow, Poland

11:30 - 11:55 **Title: Traceability to promote circular use of plastics**

Dr Ignacy Jakubowicz, RISE Research Institutes of Sweden, Sweden

11:55 - 12:20 **Title: Tensile Strength of Multilayered Co-extrusion Films Using Two Kinds of Polypropylenes**

Dr Masataka Sugimoto, Yamagata University, Japan

12:20 - 12:45 **Title: Mitigation of bitumen thermo-oxidative ageing with innovative zeolite-oxide additives**

Dr Szymon Malinowski, Lublin University of Technology, Poland

(12:45 - 13:45) Memorable Group Photo & Tempting Buffet lunch- Duration: 1hr

Invited Speaker Presentations Cont..

13:45 - 14:10 **Title: Innovations in Nanostructured Steels: Advanced Processes for Enhanced Performance and Industrial Sustainability**

Prof Wiesław A. Świątnicki, Warsaw University of Technology, Poland

14:10 - 14:35 **Title: Fibrous PHA–Sargassum Composites for Sustainable Packaging and Controlled-Release Agri-food Industry Applications**

Dr Dania Olmos, University Carlos III of Madrid, Spain

- 14:35 - 15:00 **Title: Modern, magnetically soft materials: fabrication, structure and properties**
Dr Jarosław Ferenc, Warsaw University of Technology, Poland
- 15:00 - 15:25 **Title: Development and application of chitosan-based metal chelate adsorbents for protein purification and enzyme immobilization**
Prof. Sung Chyr Lin, National Chung Hsing University, Taiwan
- 15:25 - 15:55 **Title: Gas-phase oxidation of some alkylpyridines with nitrous oxide**
Prof. Tofik Nagiev, Nagiev Institute of Catalysis and Inorganic Chemistry of Ministry of Science and Education, Azerbaijan
- 15:55 - 16:20 **Title: Catalysis—A new horizon in asymmetric catalysis**
Prof. Xumu Zhang, Southern University of Science and Technology, China

(16:20 - 16:50) Refreshment & Coffee Break & Networking-Duration: 30min

Poster Presentations

- Title: Effect of the addition of zeolite-cyclodextrin composites on the rheological properties and foaming effect of asphalt binders**
Ms Natalia Pajdosz, Lublin University of Technology, Poland
- Title: Influence of Starches of Different Botanical Origin on the Bitumen Aging Behavior**
Mr Mateusz Golda, Lublin University of Technology, Poland
- Title: Co-Doped Metal Oxide Thin Films fabricated by ALD for Enhanced Resistive Oxygen Sensing**
Mr Wojciech Bulowski, AGH University of Krakow, Poland
- 16:50 - 18:00 **Title: The influence of the blowing agent on the welding of the LDPE films**
Dr Anna Jakimińska, Lublin University of Technology, Poland
- Title: Tribocatalytic degradation of axetine using hydrothermal and Sol-Gel Zinc oxide**
Associate Prof. Nina Kaneva, Sofia University St. Kliment Ohridski, Bulgaria
- Title: Description of the Ramping for a Driven Oscillator**
M.B. Khan, SRH University, Berlin, Germany
- Title: Contactless Resistivity Measurements – Data Analysis**
V. Achinova, SRH University, Berlin, Germany

Video Presentations

- 18:00 – 18:30 **Title: Evaluation of thermodynamic properties of gases with virial equation of state**
Prof. Elif Somuncu, Usak University, Turkey

Poster Evaluation & Best Poster Awards

Conference Closing Ceremony

*****Memorable Group Photo & End of Conference*****