

3rd Global Summit on
**MATERIALS SCIENCE &
ENGINEERING**

July 23 - 24, 2026 Vienna, Austria

Day 1: July 23, 2026

08:00 - 09:00

Registrations

Opening Remarks

Keynote Presentations

09:00 - 09:30

Chamaeleon Nanocarriers for RNA Delivery and Genome Editing

Prof. Ernst Wagner, Ludwig-Maximilians-Universität, Germany

09:30 - 10:00

Flexible Porous Organic Polymers with Well-Defined Structures via Bottom-up Strategy for Precious Metal Recovery and Gases Separations

Prof. Mu-Hua Huang, Beijing Institute of Technology, China

10:00 - 10:30

Networking Break + Group Photo

Technical Session-I (10:30 - 12:50)

10:30 - 10:55

Automated thermal desorption-gas chromatography/mass spectrometry for rapid screening of hazardous chemicals in clothing and other textiles

Prof. Ulrika Nilsson, Stockholm University, Sweden

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| 10:55 - 11:20 | Advanced Oxygen Carrier Materials for Clean H₂ Production and CO₂ Separation in Chemical Looping Processes |
| | <i>Dr. Julien Göthel, Rouge H₂ Engineering AG, Germany</i> |
| 11:20 - 11:45 | Non-halogenated flame retardants for various applications in advanced materials |
| | <i>Dr. Katarzyna Zielińska, Institute of Heavy Organic Synthesis, Blachownia, Poland</i> |
| 11:45 - 12:10 | Correlation between electrical conductivity and deformation of polymeric composites |
| | <i>Prof. Ivan Chodak, Polymer Institute SAS, Slovakia</i> |
| 12:10 - 12:35 | Engineering Nuclearity in Vanadium Assemblies: From metallosupramolecular isomerism to Tunable Oxidation Catalysis |
| | <i>Dr. Visnja Vrdoljak, University of Zagreb, Croatia</i> |
| 12:35 - 12:50 | Slot available |
| 12:50 - 14:00 | Lunch @ Restaurant |
| Technical Session-II | |
| 14:00 - 14:25 | 3D Printing, Additive Manufacturing, and Industrial Applications |
| | <i>Dr. Mohammed Qasim Kareem, Al-Qasim Green University, Hungary</i> |
| 14:25 - 14:50 | Plants as Living Sensors and Power Sources: Revealing Nature's Hidden Transducers |
| | <i>Prof. Carlo Trigona, University of Catania, Italy</i> |

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| 14:50 - 15:15 | Slot available |
| 15:15 - 15:40 | Slot available |
| 15:40 - 16:10 | Poster Presentations + Refreshment Break |
| Poster - 1 | Pd-Modified Porous Frameworks: Towards Selective and Efficient Gas Separation |
| | <i>Dr. Anna Król, Oil and Gas Institute, Poland</i> |
| Poster - 2 | Electrolytic Recovery of Indium from Copper Indium Gallium Selenide Photovoltaic Panels: Preliminary Investigation of Process Parameters |
| | <i>Dr. Monika Gajec, Oil and Gas Institute, Poland</i> |
| Poster - 3 | Synergistic Role of Uranyl ions in Se(VI) Sorption during Fe(II)-mediated Transformation of Ferrihydrite Nanoparticles |
| | <i>Miss. Snidgha Srabanee, Snidgha Srabanee, India</i> |
| Poster - 4 | Evaluation of the effects of adding ginger on the quality of cooked turkey sausages |
| | <i>Dr. Moriken Sangare, ISSMV, Guinea</i> |
| Poster - 5 | Slot available |
| Poster - 6 | Slot available |
| Poster - 7 | Slot available |
| Poster - 8 | Slot available |

| Session Continues | |
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| 16:10 - 16:35 | Evaluation of the effects of adding ginger on the quality of cooked turkey sausages |
| | <i>Dr. Natalia Chaves, University of Brasilia, Brazil</i> |
| 16:35 - 17:00 | Micro/nanostructuring Strategies of Additively Manufactured 316L Stainless Steel for Enhanced and High-Performance Interfacial Transport |
| | <i>Miss. Xinrui Wang, Nanyang technological university, Singapore</i> |
| 17:00 - 17:25 | Slot available |
| 17:25 - 17:50 | Slot available |
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| Day 2: July 24, 2026 | |
| Keynote Presentations | |
| 09:00 - 09:30 | Simulation-based prediction of fiber orientation in highly filled thermoset materials based on process-relevant rheological data |
| | <i>Dr. Uta Rösel, Institute of Polymer Technology, Friedrich-Alexander- Universität Erlangen-Nuremberg, Germany</i> |
| 09:30 - 10:00 | Slot available |
| 10:00 - 10:30 | <i>Networking Break</i> |
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| Technical Session-III (10:30 - 12:50) | |

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| 10:30 - 10:50 | Probing non-covalent interactions within π-π stacking assembly by EPR Spectroscopy |
| | <i>Dr. Baode Zhang, Liaoning Petrochemical University, China</i> |
| 10:50 - 11:10 | Research of the physicochemical properties of biodiesel from grape seed oil as an alternative energy source |
| | <i>Miss. Aisha Suleymanova, Institute of Bioresources, Azerbaijan</i> |
| 11:10 - 11:30 | Revealing the quadrupole surface plasmon resonance in Ti3C2TX multilayered maxine |
| | <i>Prof. Hayk Minassian, A. Alikhanian National Science Laboratory, Armenia</i> |
| 11:30 - 11:50 | First-principles theoretical study of adsorption properties of heavy and superheavy elements and their compounds on selected surfaces |
| | <i>Prof. Miroslav Iliaš, Joint Institute for Nuclear Research, Russia</i> |
| 11:50 - 12:10 | Potential Application of core-shell SPIONs Nanoparticles and Cellulose Acetate Membranes in Synergistic Urea Removal from Dialysate |
| | <i>Fahimeh Zare, Institute Superior Tecnico, Portugal</i> |
| 12:10 - 12:30 | Accelerated creep/fatigue characteristics estimation using DIC |
| | <i>Mr. Radim Halama, Technical University of Ostrava, Czech Republic</i> |
| 12:30 - 12:50 | Slot available |
| 12:50 - 14:00 | Lunch |
| Technical Session-IV | |

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| 14:00 - 14:20 | Recycling Biowaste and Residuals into Chemical Products |
| | <i>Dr. Manfred-Kircher, KADIB, Germany</i> |
| 14:20 - 14:40 | Interfaces in liquid steel processing and related effects |
| | <i>Prof. Piotr. R. Scheller, TU Bergakademie Freiberg, Germany</i> |
| 14:40 - 15:00 | Slot available |
| 15:00 - 15:20 | Slot available |
| 15:20 - 15:40 | Slot available |
| 15:40 - 16:00 | Slot available |
| 16:00 - 16:20 | <i>Networking Break</i> |
| 16:20 - 16:40 | Photobiomodulation with LED Does Not Alter Antibiotic Sensitivity in ATCC and Burn-Patient Bacteria |
| | <i>Dr. Flávia Assunção, University of São Paulo, Brazil</i> |
| 16:40 - 17:00 | Slot available |
| Conference Concludes | |
| Note: This is a tentative agenda, subjected to changes | |
| To book your slot, please contact joseph-harris@urforum.org | |