IN-PERSON

Day 01

July 23, Thursday

REGISTRATIONS AND OPENINGS

08:00 – 09:00

PLENARY SESSION

Cutting-edge Research and Global Perspectives

09:00 – 10:00

09:00 - 09:30

Prof. Abul Kasem Fazlur Rahman,
Oklahoma School of Science and Mathematics, USA

Metal catalyzed water oxidation is a key step in artificial photosynthesis

09:30 - 10:00

Prof. Maria Holuszko, University of British Columbia, Canada

Critical metals extraction from secondary sources; Valorization of Critical Elements recovery from post-industrial waste

10:00 – 10:30 Networking Break + Group Photo

KEYNOTE SESSION

10:30 - 11:00

Prof. Abul Kasem Fazlur Rahman,
Oklahoma School of Science and Mathematics, USA

Synthesis of a Cobalt Cube: A Potential Catalyst for Water Oxidation

11:00 - 11:30

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

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

TECHNICAL SESSION – I

11:30 - 11:55

Prof. Ulrika Nilsson, Stockholm University, Sweden

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

IN-PERSON

11:55 - 12:20

Mr. Julien Göthel, Rouge H2 Engineering AG, Austria

Advanced Oxygen Carrier Materials for Clean H_2 Production and CO_2 Separation in Chemical Looping Processes

12:20 - 12:45

Prof. Ivan Chodak, Polymer Institute SAS, Slovakia

Correlation between electrical conductivity and deformation of polymeric composites

12:45 - 13:10

Dr. Visnja Vrdoljak, University of Zagreb, Croatia

Engineering Nuclearity in Vanadium Assemblies:
From metallosupramolecular isomerism to Tunable Oxidation Catalysis

13:10 – 14:00 Lunch @ Restaurant

14:00 - 14:25

Dr. Katarzyna Zielińska,
Institute of Heavy Organic Synthesis, Blachownia, Poland

Non-halogenated flame retardants for various applications in advanced materials

14:25 - 14:50

Dr. Mohammad Hassan Mazaherifar,
Transilvania University of Brașov, Romania

Performance of Carbon Fiber-Reinforced Date Palm Midrib Composites

14:50 - 15:15

Dr. Harry Z. Ha, Fluor Canada Ltd, Canada

Molecular Representation and Modeling of Renewable Diesel Processing with Canola Oil

15:15 - 15:40

Dr. Tim Åström, Stockholm University, Sweden

Towards a safe and environmentally sustainable valorisation of post-consumer garments made of cotton and cotton blends

IN-PERSON

15:40 – 16:10 Refreshment Break & Poster Presentations

POSTER - 1

Mr. Leonardo Andres Vergara, UTFSM, Chile

Structural and morphological tuning of CuO thin films for enhanced ethanol gas sensing

POSTER - 2

Mr. Fernando Alvarez Asencio, UTFSM, Chile

Spintronic potential of Co/Cr_2O_3 interfaces: oxidation and exchange bias effects

POSTER - 3

Prof. Maria Clara Goncalves, Instituto Superior Técnico, Portugal

Nanoparticle-Assisted Sustainable Regeneration of Spent Dialysate

POSTER - 4

Dr. Magdalena Strzebońska, AGH University of Krakow, Poland

Development of Titanium Dioxide-Free Drotaverine 80 mg Film-Coated Tablets and Validation of HPLC Methods forAssay and Impurity Determination

POSTER - 5

Prof. Hee-Jeong Choi, Catholic Kwandong University, South Korea

Enhanced Nitrate Removal From Wastewater Using Chlorella Vulgaris: Analysis Using Box-Behnken Method

POSTER - 6

Dr. Atanas Svetoslavov Garbev, IEES, Bulgaria

Waste-To-Energy Materials: Transforming Flotation Effluents Into Advanced Polymer–Metal Nanocomposites For HighPerformance Supercapacitors

POSTER - 7

Prof. Nabil Al-Zaqri, King Saud University, Saudi Arabia

Highly efficient nanosized Sn0.96Y0.02M0.02O2 (M = Mo, Zr) photocatalysts for mineralization of methyl green and chlorpyrifos waste

IN-PERSON

16:10 - 16:35

Dr. Fahimeh Zare, Instituto Superior Técnico, Portugal

Enhancing Spent Dialysate Regeneration: The Role of Magnetic Nanoplatforms and Advanced Membranes

16:35 - 17:00

Prof. Norman H. L. Chiu, University of North Carolina Greensboro, USA

Towards Standard-free Quantitative Profiling of RNA Modifications Using Mass Spectrometry

17:00 - 17:25

Mr. Ernest Ewert, Adam Mickiewicz University, Poland

Comparison of the interactions of 18-membered lanthanide macrocycles with G-quadruplexes

17:25 - 17:50

Prof. Alexander A. Kamnev,
Saratov Federal Scientific Centre of the Russian Academy of Sciences, Russian Federation

Invited talk: Microbial reduction of selenite with the formation of Se(0) nano-structures

End of Day 1

Day 02

July 24, Friday

09:00–09:30 KEYNOTE SESSION

09:00 - 09:30

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

Chamaeleon Nanocarriers for RNA Delivery and Genome Editing

09:30 - 10:00

Prof. Bin Fei, Hong Kong Polytechnic University, Hong Kong

Environmental Photonic Energy Manipulation with Fire Safety Coatings

IN-PERSON

10:00 – 10:30 Networking Break

TECHNICAL SESSION – II

10:30 - 10:55

Prof. Nezihe Ayas, Eskisehir Technical University, Turkey

Biomass as Both Feedstock and Functional Material for Hydrogen Production: A Dual Role in Sustainable Energy

10:55 - 11:20

Dr. Pedro Silva, Lumar Metals, Austria

Analysis of a Supersonic Nozzle System Effect in Gas-Cooled Lances on Slag Splashing Parameters

11:20 - 11:45

Prof. Nan Yao, Princeton University, USA

Seeing the Unseen: Decoding Atomic Adsorption, Nucleation, and Electronic Structure with Functionalized Scanning Probe Microscopy

11:45 - 12:10

Dr. N. Funda Ak Azem, Dokuz Eylül Universit, Turkey

Design Strategies for Doping Metal Oxide Nanomaterials for Enhanced Photocatalytic Performance

12:10 - 12:35

Prof. Mihaela Baibarac, National Institute of Materials Physics, Romania

Composites based on reduced graphene oxide and polydiphenylamine doped with heteropolyanions for energystorage applications

12:35 - 13:00

Mr. Catello Somma, Seroba, Italy

Targeted Radiopharmaceutical Therapy: Advances, Investment Dynamics, and Future Directions—Part 1

13:10 – 14:00 Lunch @ Restaurant

IN-PERSON

14:00 - 14:25

Miss. Şehnaz Genc, Eskisehir Technical University, Turkey

Turning Agricultural Waste into Functional Membranes: Banana Peel-Based Materials for Hydrogen Production via Alkaline Water Electrolysis

14:25 - 14:50

Dr. Thomas-Skurk, ZIEL - Institute for Food & Health, Germany

Coffee Beyond Caffeine: Human Pharmacokinetics of Coffee-Specific Biomarkers and Their Association with Acute Immunomodulatory Responses

14:50 - 15:15

Felix Zak, Technical University of Munich, Germany

From Material Characterization to System-Level Performance Prediction

15:15-15:40

Prof. Carlo Trigona, University of Catania, Italy

Plants as Living Sensors and Power Sources: Revealing Nature's Hidden Transducers

15:40 - 16:00

Prof. Hans-Ulrich Dodt, University of Vienna, Austria

Tissue clearing of whole organs: A challenge for chemistry

16:00 – 16:20 Refreshment Break

16:20 - 16:40

Prof. Vermont P. Dia, The University of Tennessee, USA

Sorghum phenolics – extraction, profile, and role in inflammatory-related diseases

16:40 - 17:00

Prof. Tamara Potlog, Research body (other), Moldova

Effect of Peripheral Sulfonate and Hydroxy Groups on the Photophysical Behavior of Zinc Phthalocyanines

Virtual

Day 02

July 24, Friday

Meeting ID: 811 8571 4350

Passcode: Urf@2026

CENTRAL EUROPEAN SUMMER TIME (CEST)

09:00 - 09:20

Dr. Baode Zhang, Liaoning Petrochemical University, China

Probing non-covalent interactions within π-π stacking assembly by EPR Spectroscopy

09:20 - 09:40

Dr. Rongji Lai, Nanning Blood Center, China

A robust DNA walker for simplified, rapid and sensitive detection of HBV DNA in blood donors

09:40 - 10:10

Dr. Abhishek Bansal, New Era Consultancy Services, India

A Projection-Based Framework for Chemical Kinetics, Thermodynamics, and Molecular Organization

10:10 - 10:30

Miss. Krishnendu P R, Amrita school of Pharmacy, India

Molecular mechanism of sesamol in inflammatory bowel disease: Integrative computational, microbiome, andbiological evaluation targeting jak1 pathway

10:30 - 10:50

Prof. Miroslav Iliaš, Joint Institute for Nuclear Research, Russia

First-principles theoretical study of adsorption properties of heavy and superheavy elements and their compounds onselected surfaces

10:50 - 11:10

Miss. Mariia Smirnova, Valiev IPT of NRC Kurchatov Institute, Russia

Evolution stages of periodic relief on the silicon surface under ion irradiation

11:10 - 11:30

Dr. Antonina Dunina-Barkovskaya,
Moscow Lomonosov State University, Russia

Cell Membrane Cholesterol and Diseases Associated with Its Deficiency

Virtual

Meeting ID: 811 8571 4350
Passcode: Urf@2026

11:30 - 11:50

Prof. Hayk Minassian, A. Alikhanian National Science Laboratory, Armenia

Revealing the quadrupole surface plasmon resonance in TI3C2TX multilayered maxine

11:50 - 12:10

Dr. Uta Rösel,
Friedrich-Alexander-Universität Erlangen-Nuremberg, Germany

Simulation-based prediction of fiber orientation in highly filled thermoset materials based on process-relevantrheological data

12:10 - 12:30

Dr. Rayya Al Balushi, A'Sharqiyah University, Oman

Conjugated Poly-Metalla-Ynes for Opto-Electronic Applications

12:30 - 12:50

Mrs. Rumeysa-Hilal-Celik, Niğde Ömer Halisdemir University, Turkey

Effect of GO Derivatives Reinforced Nanofiber Polymeric Scaffolds on Oligodendrocytes' Maturation and Myelination

12:50 - 13:10

Dr. Arzu Çankaya & Team, Kocaeli University, Turkey

Development of polyamide 6.10 composites reinforced with nickel-coated carbon fibers

13:10 - 13:30

Dr. Manfred Kircher, KADIB, Germany

Recycling Biowaste and Residuals into Chemical Products

13:30 - 13:50

Prof. Piotr R. Scheller, TU Bergakademie Freiberg, Germany

Interfaces in liquid steel processing and related effects

13:50 - 14:10

Mr. Radim Halama, Technical University of Ostrava, Czech Republic

Accelerated creep/fatigue characteristics estimation using DIC

Virtual

Meeting ID: 811 8571 4350
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14:10 - 14:30

Dr. Krisna Prak, Imperial College London, UK

Insight into structure-function of Bothrops atrox snake venom LAAO and its mechanism of action on cell apoptosis

14:30 - 14:50

Dr. Flávia Assunção, University of São Paulo, Brazil

Photobiomodulation with LED Does Not Alter Antibiotic Sensitivity in ATCC and Burn-Patient Bacteria

14:50 - 15:10

Prof. Takuji Tanaka, University of Saskatchewan, Canada

Maillard Induced Pea Protein-Polysaccharide Conjugates: A Functionally Enhanced Ingredient for the Food andBeverage Industry

15:10 - 15:30

Dr. Stewart P. Lewis, Pyramid Polymers LLC, USA

TBA

15:30 - 15:50

Mr. Salahaldeen M. A. Aljafreh, Eskisehir Technical University, Turkey

Synthesis of Sugar Beet Pulp-Derived Activated Carbon for CO2/CH4 Separation from H2-Rich Syngas

Conference Concludes