

International Conference on Recycling and Waste Management [ICRWM-2026]
Dates: July 23–24, 2026
Venue: Vienna, Austria in Rainers Hotel

TENTATIVE AGENDA

DAY-I (July 23)

09:30-10:00 **REGISTRATIONS & OPENING REMARKS**

Presentations

Technical Session- I

10:00-10:20

Anticipatory sustainable and circular-by-design material development - Assessment framework, material concepts, and development

Dr. Jan-Marten Sprenger, Fraunhofer-Institute for Manufacturing Technology and Advanced Materials IFAM, Germany

10:20:10:40

A Digital Twin framework for closed-loop water management

Dr. Gialelis Ioannis, University of Patras, Greece

10:40-11:00

Nudging food waste reduction: An experiment at a university dining facility in China

Dr. Zhang Yuchi, The University of Osaka, Japan

11:00-11:30

Group Photo

Refreshment Break

Technical Session- II

11:30-11:50

Circular Aromatics from MSPW Sorting Residues: Pyrolysis Char as an Alternative Reforming Agent – Lab-to-Demo Scale

Prof. Dr.-Ing. Matthias Franke, Fraunhofer UMSICHT, Germany

11:50-12:10	<i>Application of Recycled Concrete Aggregates for the Construction of Asphalt Mixtures for Road Pavements: Sustainable Waste Management and Circular Economy</i>
	Prof. Juan Gabriel Bastidas-Martínez, Nueva Granara Military University, Colombia
12:10-12:30	<i>Effect of Refining Temperature and Refining Time on Purification and Composition Control of FGH95 Powder Metallurgy Superalloy Return Material During Vacuum Induction Melting</i>
	Dr. Jiulong Chen, School of Materials Science and Engineering, Beihang University, China
12:30- 12:50	SLOT AVAILABLE
12:50- 13:45	Lunch @ Restaurant
Technical Session- III	
13:45-14:05	<i>Artificial Intelligence (AI) based diagnosis and analysis for roto-dynamic machinery fault recognition and detection</i>
	Dr. Ahmed Saeed Al-Ghamdi, WTIIRA, SWA, Saudi Arabia
14:05-14:25	<i>Dual Role of Organic Matter in Feammox-driven Nitrogen and Phosphate Removal</i>
	Prof. Kangning Xu, Beijing Forestry University, China
14:45-15:05	<i>Clean Energy Innovation and Carbon Reduction : The Impact of Green Hydrogen, Fuel Cells, and Financial Development in BRICS Economies</i>
	Prof. Kilani Hadda, University of Sfax, Tunisia
15:05-15:25	<i>An analysis of the dust deposition and other climatic parameters on solar photovoltaic modules in Mauritius</i>
	Dr. Dhirajsingh Rughoo, University of Mascarene Islands, Mauritius
15:25-15:40	Refreshment Break
Technical Session- IV	

15:40-16:00	<i>Degradation of agricultural polyethylene film by greater wax moth (<i>Galleria mellonella</i>) larvae and screening of involved gut bacteria</i>
	Prof. Yin Lu, Zhejiang Shuren University, China
15:40-16:00	<i>SpectroMarine: advancing realtime water quality monitoring to mitigate biofouling in desalination plants</i>
	Dr. Amr Mohamed Mahmoud, Deputy Director, WTIIRA, SWA, Saudi Arabia
16:00-16:20	<i>SLOT AVAILABLE</i>
16:20-16:40	<i>SLOT AVAILABLE</i>
16:40-17:00	<i>Study of woad (<i>isatis tinctoria</i> L.)-extracted indoxyl precursors conversion into dyes: influence of the oxidative media on indigo recovery yields and indigotin/indirubin ratio measured by hplc-dad method</i>
	Prof. Patrick Martin , Université d'Artois, France
17:00-17:20	<i>SLOT AVAILABLE</i>
Day-1 Concludes	
<u>DAY-II (July 24)</u>	
09:30-10:00	REGISTRATIONS & OPENING REMARKS
<i>Technical Session- V</i>	
10:00-10:20	<i>Application of the DDM Method for Fabrication of Low-Critical-Material Electrodes for Alkaline Water Electrolysis</i>
	Dr. Elitsa Petkucheva, Institute of Electrochemistry and Energy Systems, Bulgaria
10:20-10:40	<i>SLOT AVAILABLE</i>

10:40-11:00	<i>Reinforcement Learning versus PI Control for CO₂-Based Classroom Ventilation: A Real-Data Benchmark on Fan Electricity and IAQ</i>
	Dr. Masoud Haddad, University of Vaasa, Finland
11:00-11:20	<i>Economic Viability of Electric Bus Deployment in Europe: A Panel Data Analysis of Cost Drivers and Policy Impacts</i>
	Dr. Ayda Farhoudi, University of Sfax, Tunisia
11:20-11:40	<i>Study of electrochemical phenomena in conversion carbon assisted fuel cell</i>
	Dr. Habil. Andrei Bologa, Karlsruhe Institute of Technology, Germany
11:40-12:10	Refreshment Break
12:10-12:30	SLOT AVAILABLE
12:30-12:50	SLOT AVAILABLE
12:50- 13:45	Lunch @ Restaurant
<i>Technical Session- VI</i>	
13:45-14:10	<i>The Potential of Pontederia crassipes to Remediate Heavy Metals in Water</i>
	Dr. Kang Gao, Beijing Academy of Agriculture and Forestry Sciences, China
14:10-14:35	<i>Waste-to-Energy Materials: Transforming Flotation Effluents into Advanced Polymer-Metal Nanocomposites for High-Performance Supercapacitor</i>
	Dr. Atanas Svetoslavov Garbaev, Institute of Electrochemistry and Energy Systems (IEES), Bulgaria
14:35-15:00	SLOT AVAILABLE
15:00 - 15:20	<i>Plastic-Waste-Modified Asphalt for Sustainable Road Infrastructure</i>
	Dr. Syed Khaliq Shah, Southeast University China, China

15:20-15:40	Refreshment Break
15:40-16:00	<i>Application of Machine Learning Techniques in Mineral Resource Estimation: A case study with Iron Ore Deposit</i> Prof. Sheo Shankar Rai, Indian Institute of Technology, India
16:00-16:20	<i>Fractionated Degradation of Polyolefin Wastes and Upcycling to Detergents</i> Dr. Zhen Xu, Beijing University of Chemical Technology, China
15:00 - 15:20	<i>Performance-Driven Waste-to-Wealth Valorization of RAP in DBM: Mechanistic and Statistical Evaluation under Optimized RAP Preheating and Black-White Curve Gradation Control</i> Dr. Dudhwala Rinkal Dineshchandra, Pandit Deendayal Energy University, India
16:00-16:20	<i>SLOT AVAILABLE</i>
16:20-16:40	<i>Energy Transition in a Fragile State: Powering Afghanistan's Sustainable Future through Renewable Energy and Storage</i> Dr. Mujib Ahmad Azizi, University of Siegen, Germany
16:40-17:00	<i>How does Artificial Intelligence mitigate Climate Vulnerability? Role of financial development in global perspective</i> Prof. Muhammad Hussain, Xidian University, China
17:00-17:20	<i>SLOT AVAILABLE</i>
17:20-17:45	Closing remarks
Day-II concludes	
Pannel Discussions	
This is a provisional agenda and may be subject to change. Only a few slots are available. To reserve your slot, please reach out ASAP at jamesmathew@urforum.org or at +44 7404141173.	