

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

A Digital Twin framework for closed-loop water management

Dr. Gialelis Ioannis, University of Patras, Greece

10:20:10:40

An analysis of the dust deposition and other climatic parameters on solar photovoltaic modules in Mauritius

Dr. Dhirajsingh Rughoo, University of Mascarene Islands, Mauritius

10:40-11:00

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

11:00-11:30

Group Photo

Refreshment Break

Technical Session- II

11:30-11:50

Application of the DDM Method for Fabrication of Low-Critical-Material Electrodes for Alkaline Water Electrolysis

11:50-11:50	Dr. Elitsa Petkucheva, Institute of Electrochemistry and Energy Systems, Bulgaria
11:50-12:10	<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
12:10-12:30	<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
12:30- 12:50	<i>SLOT AVAILABLE</i>
12:50- 13:45	Lunch @ Restaurant
<i>Technical Session- III</i>	
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>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
14:45-15:05	<i>Biomass Bottom Ash Valorisation from Fluidized Bed Combustion for Cement and Civil Engineering Applications: A Circular Economy Perspective</i>
	Dr. Elżbieta Jarosz-Krzemińska, AGH University of Krakow, Poland
15:05-15:25	<i>The silent drain: how governance makes or breaks JV value before the financials show it</i>
	Dr. Cornelia Oana Toropoc, OMV, Austria

15:25-16:00	Refreshment Break & Poster Presentations
<i>Technical Session- IV</i>	
16:00-16:20	<i>SpectroMarine: advancing realtime water quality monitoring to mitigate biofouling in desalination plants</i>
	Dr. Amr Mohamed Mahmoud, Deputy Director, WTIIRA, SWA, Saudi Arabia
16:20-16:40	<i>Turning the tide on emissions through circular economy practices, tourism development and innovation-driven climate mitigation</i>
	Prof. Muhammad Imran, Shandong Xiehe University, China
16:40-17:00	<i>Smart Adaptive Heating Control for Overheating Mitigation in Nordic Commercial Buildings</i>
	Prof. Amirmohammad Behzadi, KTH Royal Institute of Technology, Sweden
17:00-17:20	<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
17:20-17:40	<i>Study of woad (isatis tinctoria 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
17:40-18:00	<i>SLOT AVAILABLE</i>
18:00-18:20	<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	<p><i>Nudging food waste reduction: An experiment at a university dining facility in China</i></p> <p>Dr. Zhang Yuchi, The University of Osaka, Japan</p>
10:20:10:40	<i>SLOT AVAILABLE</i>
10:40-11:00	<p><i>Circular Aromatics from MSPW Sorting Residues: Pyrolysis Char as an Alternative Reforming Agent – Lab-to-Demo Scale</i></p> <p>Prof. Dr.-Ing. Matthias Franke, Fraunhofer UMSICHT, Germany</p>
11:00-11:20	<p><i>Degradation of agricultural polyethylene film by greater wax moth (Galleria mellonella) larvae and screening of involved gut bacteria</i></p> <p>Prof. Yin Lu, Zhejiang Shuren University, China</p>
11:20-11:40	<p><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></p> <p>Dr. Dudhwala Rinkal Dineshchandra, Pandit Deendayal Energy University, India</p>
11:40-12:10	Refreshment Break
12:10-12:30	<i>SLOT AVAILABLE</i>
12:30-12:50	<i>SLOT AVAILABLE</i>
12:50- 13:45	Lunch @ Restaurant
<i>Technical Session- VI</i>	
13:45-14:10	<p><i>The Potential of Pontederia crassipes to Remediate Heavy Metals in Water</i></p>

13:45-14:10	Dr. Kang Gao, Beijing Academy of Agriculture and Forestry Sciences, China
14:10-14:35	<i>Energy Storage and Dissipation at Thermomechanical Processes and Transformations in Shape Memory Alloys</i>
	Prof. Osman Adiguzel, Firat University, Turkey
14:35-15:00	SLOT AVAILABLE
15:00 - 15:20	<i>Degradation of agricultural polyethylene film by greater wax moth (<i>Galleria mellonella</i>) larvae and screening of involved aut bacteria</i>
	Prof. Yin Lu, Zhejiang Shuren University, China
15:20-15:40	Refreshment Break
15:40-16:00	<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
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>China's diverse energy transition pathways toward carbon neutrality by 2060 and global implications</i>
	Dt. Xiu Yang, Tsinghua University, China
16:00-16:20	<i>Analysing the role and job creation potential of bakkie collectors and buy-back centres along the South African PET value chains: A circular economy perspective</i>
	Prof. Catherina Schenck, University of the Western Cape Cape Town, South Africa
16:20-16:40	<i>From Generative to Agentic AI in Marketing Communication: Linguistic Autonomy, Ethical Control, and Trust Dynamics in Algorithmic Markets</i>
	Dr. Marwa Khairallah, University of Sfax, Tunisia

16:40-17:00	<i>Breaking Barriers in FAPbI3 Perovskite Photovoltaics: Synergistic Strategies for Phase Stability, Defect Mitigation, and Scalable Production</i>
	Dr. John Anyanwu, ACE in Future Energies and Electrochemical Systems, Nigeria
17:00-17:20	<i>Institutional Quality and Renewable Energy Transition in the European Union: Evidence from Panel Data Analysis</i>
	Dr. Mahdi MNASRI, University Paris Cité, France
17:20-17:40	<i>Data-Driven Urban Logistics for Carbon Footprint Reduction: The Role of Parcel Pick-Up Points in Sustainable Last-Mile Delivery</i>
	Dr. Sirine Adsi, University of Sfax, Tunisia
17:40-18:00	<i>Tribo-electrostatic Separation of Polymer Mixtures Containing Brominated Flame Retardants</i>
	Dr. Lucien Dascalescu, CNRS University of Poitiers, France
18:00-18:20	SLOT AVAILABLE
18:20-18:40	SLOT AVAILABLE
18:40-19:00	SLOT AVAILABLE
19:00-19:20	<i>Bioremediation 4.0: Microbial Consortia Designed for Water Purification</i>
	Dr. Edgar Omar Rueda Rueda Puente, Universidad De Sonora, Mexico
19:20-19:40	<i>Zeolite synthesis as an opportunity for construction and demolition waste upcycling</i>
	Prof. Gabriela A. Vázquez-Rodríguez, Autonomous University of the State of Hidalgo, Mexico
Day-II concludes	
Panel Discussions	
Only a few slots are available.	
This is a provisional agenda and may be subject to change. To reserve your slot, please reach out ASAP at jamesmathew@urforum.org or via Whatsapp +44 7404141173.	