



European Materials Research Society

2025 Spring Meeting

May 26 – 30 | Strasbourg Convention Centre

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SYMPOSIUM W

Indo-Europe Joint Forum on Circular Economy through Urban Mining

Oral sessions : [LEICESTER – FIRST FLOOR](#)

Symposium Organizers:

K.K. PANT, IIT Roorkee, Dept. of Chemical Engineering, New Delhi 110016, India

P. RAMBABU, Greenko Energies Private Limited, Hyderabad, India

R. RATHEESH, Centre for Materials for Electronics Technology (C-MET),
MeitY. Government of India, Hyderabad, Telangana, India

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Monday May 26
W01 Oral session
Chairperson(s): IONESCU Emmanuel

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08:30	3181	Govt. of India focus on circular economy in electronic sector VERMA Sunita (Invited)
09:00	3184	An Integrated Green Approach for the Recovery of Metals from E-Waste: An approach towards Circular Economy PANT Kamal Kishore (Invited)
09:30	2248	Sustainable 3R Framework for Extraction of Valuable Materials from Waste PCBs to minimize environmental pollution E I Anjana
15:30	2773	Recovery of Pd based metal alloy from spent MLCC's of discarded PCB's through pyrometallurgical route KUMAR Rajesh

Monday May 26
W02 Oral session
Chairperson(s): MATHUR Sanjay

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10:30	3176	Energy Transition Choices aligning to Circularity RAMBABU P (Invited)
11:00	2221	Closing the materials cycle in WEEE: the Recovery of lost critical metals GABRIEL Jean-Christophe P. (Invited)
11:30	2232	Unlocking the Potential of Recycled Battery Graphite: Value-Added Applications and Opportunities KAUSHAL Ajay
11:45	3175	Recovery of Co, Ni, Li, and Fe from cathode material of mixed LiFePO ₄ and Li(Ni _{1/3} Mn _{2/3} Co _{1/3})O ₂ to comply with circular economy mission SHARMA Ankur

Monday May 26
W03 Oral session
Chairperson(s): RAMBABU P
VERMA Sunita

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13:45	3007	Achieving sustainability in Germanium resources by circular means of Recycling and Reuse SUMATHI R. Radhakrishnan (Invited)
14:15	3177	Towards a Sustainable Perovskite Future: Green Synthesis, Recycling, and the Path to a Closed- Loop Ecosystem OZ Senol (Invited)
14:45	3226	Development of a Green and Resilient Circular Technology for Complex Waste – GreC Beck Gesa (Invited)
15:15	2769	Sustainable recovery of Pt from spent automotive catalytic converters: pre-concentration and ecofriendly leaching process KUMAR Rajesh
15:30	1336	Recycling of end-of-life c-Si PV modules: A Viable approach to promote Circular Economy DUVVURI Satyanarayana Prasad
15:45	2217	Recovery of rare earths from spent permanent magnets as sustainable solution under circular economy RAMBABU Urlagaddala

Monday May 26
W04 Oral session
Chairperson(s): GABRIEL Jean-christophe p.
SUMATHI R. radhakrishnan

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16:30	3182	Digitalization and Circular Economy IONESCU Emmanuel (Invited)
17:00	3179	Development of technological know-how for the recycling of e-waste at CSIR-NML, India JHA Manis Kumar (Invited)
17:30	3178	E-waste Management practices: Indian Perspective KUMAR Ashok
17:45	3218	Next Generation Materials for Urban Mining and Circularity: A Waste-to-Wealth Approach Ambika S.

Tuesday May 27

W05 Oral session

Chairperson(s): OZ Senol

RATHEESH Ravendran

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08:30	2528	A biotechnological route for recycling spent Lithium-Ion Batteries LAHIRI Abhishek (Invited)
09:00	3185	Flexible (transparent) sustainable electrodes for printed micro supercapacitors SWAMINATHAN Parasuraman (Invited)
09:30	1938	Short Loop Recycling of NdFeB Magnets in Modified HDDR Process ROHITH VINOD K
09:45	3180	Additive Manufacturing- a sustainable solution for Materials and Devices RANE Sunit

Tuesday May 27

W06 Oral session

Chairperson(s): KENYON Tony

KUMAR Ashok

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10:30	3221	Advances in Photon-harvesting Perovskite Absorbers Thin Films MATHUR Sanjay (Invited)
11:00	3186	Debromination of waste printed circuit boards KALPATHY Sreeram Krishnamoorthy (Invited)
11:30	3227	E-Waste management on wheel: An innovative approach SONI B.K.
11:45	3219	Shaping a Sustainable Future: Challenges and Opportunities in Lithium-Ion Battery Recycling BAGARIA Avnish