

REACT 2026

2nd International Conference on Responsible Electronics and Circular Technologies
17 to 18 November 2026 · Technology and Innovation Centre (TIC), 99 George Street, Glasgow G1 1RD

Day 1 · Tuesday 17 November Single track

09:00	Registration
10:00	Welcome and Opening
10:10	OPENING KEYNOTE Professor Mike Berners-Lee Lancaster University and Small World Consulting
11:00	Session 1 Sustainability in Industry imec, Speaker to be confirmed INVITED Francisco Fourcade, Global Electronics Association INVITED Arthur Removille, naKnow INVITED Silicon Austria Labs INVITED
12:05	Lunch and Posters
13:15	KEYNOTE Dr Margreet de Kok TNO at Holst Centre, Eindhoven
14:00	Session 2 Semiconductors, Electronics Design and Manufacture Professor Paul Meredith, Swansea University INVITED Alan Maher, TechWorks INVITED UK Semiconductor Centre INVITED Tugana Aslan, Research Fab Microelectronics (FMD) Carbon Footprint of an InP-HBT Process
15:10	Break
15:30	PLENARY Professor Ian Williams University of Southampton E-Waste and Sustainability
16:00	Session 2 (cont.) Semiconductors, Electronics Design and Manufacture Dr Daniela Iacopino, Tyndall National Institute INVITED Max Mosig, University of Freiburg Key Performance Indicator Analysis of RF Mixer Designs on RF Technologies with Focus on Sustainability Poster flash talks
16:40	Poster Session
18:30	SOCIAL PROGRAMME Civic Welcome Reception Glasgow City Chambers, George Square Welcome address from the Lord Provost of Glasgow, followed by a drinks reception and canapés.

Day 2 · Wednesday 18 November Parallel sessions in Auditorium B and Room 2

09:00	Registration	
09:30	OPENING KEYNOTE Dr Nils F. Nissen Fraunhofer IZM <i>The Role of Packaging for Sustainable and Green Electronics</i>	
10:15	Coffee Break	
10:30	Session 3 New Materials Auditorium B Dr Conor Boland , Dublin City University INVITED Dr Zhe Li , Queen Mary University of London INVITED Dr Julianna Panidi , University of Edinburgh INVITED Mikel G. Palomo , Universidad de Granada <i>Metal-Free PEDOT:PSS Inks for Additively Manufactured Textile Frequency-Selective Absorbers</i> Jiaqi Zong , University of Glasgow <i>Biodegradable Origami Piezoelectric Membranes for Sustainable Self-Powered Sensors</i>	Session 4 Business, Policy and Digital Room 2 Professor Jin Xuan , University of Surrey INVITED Bing Xu and Ran Liu , Heriot Watt University <i>Beyond the Linear Ledger: A Firm-level Framework Linking Circular Economy to Financial Performance in the UK Electronics Sector</i> Ana Julieth Calderón Márquez , Queen's University Belfast <i>Operationalising the Circular Technical Network as a Policy Diagnostic Framework for Lithium-Ion Battery Circularity</i>
12:00	Lunch	
12:45	Session 5 Urban Mining Auditorium B Professor Frances Wall , University of Exeter INVITED Professor Sebastien Farnaud , Coventry University INVITED Charlie Simms , University of Edinburgh <i>A supramolecular method for the recovery of rare earth elements from end-of-life fluorescent lamp phosphors</i> Evandro Castaldelli , University of Leicester <i>Challenges in developing AI inspired WEEE recycling flowsheets</i>	Session 6 Value Retention Room 2 Ryan McCuaig , Renewable Parts Ltd INVITED Gladys Benghalia , NASPIC INVITED Francisco Fourcade , Global Electronics Association INVITED
14:00	Posters and Break	
15:00	Session 7 Design for Circularity Auditorium B Invited talk to be announced Alvaro Méndez-Espinosa , Universidad de Granada <i>Closed-Loop Recycling of Metal-Free Hydrogel-Based Inks for Screen-Printed Antennas</i> Benjamin King , University of Glasgow <i>Large-Area Electromagnetic Chitosan Humidity Sensors with Embedded Circularity</i> Roberto Navarro-Tovar , University of Manchester <i>Molecular Recognition Technology® (MRT™) for Selective Copper Recovery from Iron-Dominant Leach Solutions</i>	Session 8 Circular Economy and Business Perspectives Room 2 Diego Bermudez Bermejo , DICE INVITED Cisco , Speaker to be announced INVITED Astrid Wynne , Techbuyer INVITED
16:15	Closing and Awards	

Invited talks are marked Invited. Contributed papers show the presenting author and title. Programme subject to change.

Poster Presentations

Lunch and breaks on both days, and the Day 1 poster session from 16:40

- | | |
|---|---|
| <p>P01 From regulation to Implementation: A circular technical network-based reference architecture for battery passports
Ana Julieth Calderón Márquez, Queen's University Belfast</p> <hr/> <p>P02 Developing Evidence-Based TL-BMC Archetypes for Circular Bus-Battery Value Chains: Resource Security and Circular Local Value
Ana Julieth Calderón Márquez, Queen's University Belfast</p> <hr/> <p>P03 Neobin: An AI-Enabled Smart Recycling System for Circular Waste Management and Behavioral Engagement
Ammar Yasser Ali, Fayoum University</p> <hr/> <p>P04 Analyzing Power Handling in Sustainable and Recyclable RF Transmission Lines
Xiaochuan Fang, University of Glasgow</p> <hr/> <p>P05 End-of-Life Scenario Modelling for Silver-Containing Printed Electronics in Smart Wound Care
Theresa Seeholzer, Infineon Technologies AG</p> <hr/> <p>P06 Reading Regulation as a Market Signal: A Cross-Sector Framework for Policy- Enabled Innovation in Electronics and Adjacent Industries
Amirreza Ahkami, Silicon Austria Labs GmbH</p> <hr/> <p>P07 CFD-Based Evaluation of Hybrid Air-Distribution Strategies for Energy-Efficient Data-Centre Thermal Management
Azeem Mujawar, King Fahd University of Petroleum and Minerals</p> <hr/> <p>P08 Cross-Source Validation of Machine-Learning Models for Embodied-Carbon Prediction in IC Manufacturing and Packaging
Merve Yunlu Dogruyol, University of Glasgow</p> <hr/> <p>P09 The integration of an Ultrasonic Tube Transducer into a continuous oscillatory baffled reactor to enable the industrial scale recovery of technology critical materials from e-waste
Paul Daly, University of Glasgow</p> <hr/> <p>P10 Rare-Earth-Free Magnetoelectric Antennas Using AlN/CoFeB for Sustainable MEMS connectivity
Laura Mazón-Maldonado, University of Glasgow</p> <hr/> <p>P11 Towards Circular Microfluidics: Biodegradable PEGDA Hydrogel as a sustainable PDMS Alternatives
Paria Kamkar, University of Glasgow</p> <hr/> <p>P12 Laser-Sintered Zinc Electrodes Applied to Schottky Diodes
Luis H. T. Bertoldo, University of Glasgow</p> <hr/> <p>P13 Electrode Width as a Design Lever for Field Concentration in Interdigitated DEP Electrodes
Ali Masoudi, University of Glasgow</p> <hr/> <p>P14 Ultrasonically enhanced gold coating removal from end-of-life spring test probes (pogo pins)
Alireza Parsa, University of Glasgow</p> <hr/> <p>P15 Characterising Computational Headroom in Laptop Usage: A Telemetry-Based Study Across User Profiles
Mohammad Amir, University of Glasgow</p> | <p>P16 Selective and Circular Recovery of Gold and Copper from PCB Leachates Using a Regenerable Single Precipitant
Mukesh Singh, University of Edinburgh</p> <hr/> <p>P17 Advancing Circular Strategies for Material and Energy Recovery from e-waste: LCA Insights from the iRECYCLE-Malaysia Project
Sadish Oumabady, Queen's University Belfast</p> <hr/> <p>P18 Green electronics cooling design using topology optimisation
Ahmed Ali, CSA Catapult</p> <hr/> <p>P19 AI-assisted Discovery of Extractants for Critical Materials Recovery
Jiyizhe Zhang, University of Manchester</p> <hr/> <p>P20 Independent Software Maintenance Beyond Manufacturer Support
Kern Tallett, University of Glasgow</p> <hr/> <p>P21 Mapping Responsible and Sustainable Supply Chains for Quantum Technologies
Gemma Milne, University of Glasgow</p> <hr/> <p>P22 E-textile Circularity Enabled by Contactless Modular RF Interposers: A Life Cycle Assessment Perspective
Tasneem Khodair, University of Glasgow</p> <hr/> <p>P23 Can Circular Supply Chains Reduce Corporate Risk? An Empirical Study Based on Firm-Level Data
Ran Liu, Heriot Watt University</p> <hr/> <p>P24 Degradable RF Transmission Lines and Antennas using Additive Zinc Circuits
Sitong Mu, University of Glasgow</p> <hr/> <p>P25 The Road to Net Zero: Financing Supply, Demand, and Institutional Drivers
Thi Hoa Nguyen, Heriot Watt University</p> <hr/> <p>P26 The Price of Transformation: Financial Challenges of Green Innovation in the Electronics Industry
Thi Hoa Nguyen, Heriot Watt University</p> <hr/> <p>P27 Integrated Biodegradable Multi-sensor Node for Agricultural Monitoring
Andrew Rollo, University of Glasgow</p> <hr/> <p>P28 Easily recyclable polymer synthesised from naturally derived monomers
Joseph Cameron, University of Glasgow</p> <hr/> <p>P29 Morphology-Engineered WO3 Thin Films for Triboelectric Energy Harvesting towards Self-Powered IoT Sensors
Michael McKinlay, University of Glasgow</p> <hr/> <p>P30 Recyclable Wire-Bond Antennas Towards RF Chip and System-in-Package (SiP) Circularity
Jinghong Yue, University of Glasgow</p> <hr/> <p>P31 PVDF Interlayer Development for Screen Printed Textile Electrodes towards Manganese(II) Monitoring in Water
Wenfu Li, Edinburgh Napier University</p> |
|---|---|