

ICoR 2025 Conference Programme

Tuesday 8th April

09:30	ICoR Registration		
10:00	ReMaTec SHOW OPENING CEREMONY		
11:30	<i>Welcome</i>	Prof Winifred Ijomah University of Strathclyde	
11:40	<i>Opening</i>	Prof Rolf Steinhilper	
11:50	<i>Keynote</i>	Siva Balakrishnan, General Manager (Lifecycle Solutions), GE HealthCare, USA Circularity in GE HealthCare	
	Talk Session 1 – Developing Remanufacturing Markets I <i>Chair: Yan Wang</i>		
12:20	<i>Talk</i>	Remanufacturing in Ireland – building capacity for now and the future Damian Coughlan	University of Limerick, Ireland
12:40	<i>Talk</i>	An Investigation on Optimizing Sustainable Remanufacturing in Developing Countries: A Novel Application of Lean Six Sigma Abdullahi Goni	University of Strathclyde, UK
13:00	LUNCH		
14:00	<i>Keynote</i>	Dominic Schultze, Manager Components Rebuild & Warehouse, Herrenknecht AG, Germany High quality rebuilds for ensuring resources and ecological efficiency in tunneling	
	Talk Session 2 – Consumer Perception <i>Chair: Yan Wang</i>		
14:30	<i>Talk</i>	The changing perception of aftermarket goods and sustainable terminology in UK students Ross Amberger-Harris	University of Dundee, UK
14:50	<i>Talk</i>	Statistical Analysis for Evaluating Consumer Decision Making in the Context of New vs. Remanufactured Electronic Products Murtadha Aldoukhi	Al Yamamah University, Kingdom of Saudi Arabia
15:10	COFFEE		
	Talk Session 3 – Remanufacturing Technologies I <i>Chair: Andreas Reimer</i>		
15:30	<i>Talk</i>	Robotic eyes-in-hand unscrewing using deep learning for binocular screw detection and geometric mapping Anthonie Coopman	KU Leuven, Belgium
15:50	<i>Talk</i>	Applying additive manufacturing technology to remanufacture a wind turbine pinion shaft Ashfaq Mohammad	National Manufacturing Institute of Scotland, UK
16:10	<i>Talk</i>	An Experimental Robotic Cell for the Disassembly of Electric Vehicle Battery Modules Anselmo Parnada	University of Birmingham, UK
16:30	<i>Talk</i>	Referencing of Moving Assembly Components Florian Schmutzler	Fraunhofer Institute for Machine Tools and Forming Technology IWU, Germany
16:50	<i>Talk</i>	Pathways to Circular Energy Storage: A Comparative Analysis of End of Life Recovery Approaches in Flow Batteries Technologies John Agbonrofo	University of Strathclyde, UK
18:00	REMAN INDUSTRY RECEPTION – ReMaTec		

Wednesday 9th April

08:40	COFFEE & DANISH		
09:00	<i>Keynote</i>	Prof Surendra M. Gupta, Professor Emeritus, Northeastern University, USA Reverse Supply Chains, Disassembly and Remanufacturing Research and Future Trends	

Talk Session 4 – Digital Product Passports

Chair: Paulina Golinska

09:30	Talk	Enabling Remanufacturing with Digital Product Passports: The ReMake Remanufacturing Data Model and Open-Source Toolkit Syed Awais Hassan Munawar	National Manufacturing Institute of Scotland, UK
09:50	Talk	Approach for Data-Driven Battery Disassembly: Leveraging Digital Product Passports and Sensor Technologies for Re-X Strategies Lars Schaupter	Trier University of Applied Sciences, Germany

10:10 **COFFEE**

10:30	Keynote	Dr Hagen Thielecke, Vanguard AG, Germany Medical Remanufacturing: Opportunities, Regulatory Requirements and Challenges in Research and Development	
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Talk Session 5 – Circular Systems

Chair: Okechukwu Okorie

11:00	Talk	Revaluing Re-manufacturing. A systems thinking approach to enhancing the value of remanufacturing for the circular economy Carl Waring	University of Derby, UK
11:20	Talk	Framework for a Worker Assistance System to Enable Circular Economy Processes Junjie Liang	RWTH Aachen University, Germany
11:40	Talk	Choosing remanufactured products in a Business-to-Customer (B2C) Market Jelena Kurilova-Palisaitiene	Linköping University, Sweden
12:00	Talk	Model for practitioners' capacity building for remanufacturing in product-as-a-service (PaaS) Paulina Golinska-Dawson	Poznan University of Technology, Poland

12:20 **LUNCH**

13:20	Keynote	Michael Hague-Morgan, Executive Director, Autocraft Solutions Group, UK Why We Need to Remanufacture EV Batteries, and Not Prematurely Recycle Them!	
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Talk Session 6 – Remanufacturing Optimisation I

Chair: Jelena Kurilova-Palisaitiene

13:50	Talk	Defining Key Characteristics of Manufacturing Strategies for Remanufacturing: A Systematic Literature Review in the Circular Economy Context Chamirangika Hetti-Arachchige	Chalmers University of Technology, Sweden
14:10	Talk	How best to assess the environmental impacts of product design, does Life Cycle Assessment (LCA) really provide the answer? Fiona Gutteridge	University of Strathclyde, UK
14:30	Talk	Lighting Remanufacturing, overview of the process and specific case studies Benedetta Zarpellon	Società Italiana Remanufacturing, Italy
14:50	Talk	Pathway to Circularity through Remanufacturing: A Study on Waste Reduction by Construction Machinery Remanufacturing Business Elvis Kumar	Hitachi Construction Machinery Co Ltd, Japan

15:10 **COFFEE**

Talk Session 7 – Decision Making

Chair: Erik Sundin

15:30	Talk	Triage for Circular Economy: Techniques for Optimising End-of-Life Decision-Making Gustav Jonsson	University of Birmingham, UK
15:50	Talk	Information management for remanufacturing industrialization – An outline of a conceptual model Paraskeva Wlazlak	Jönköping University, Sweden
16:10	Talk	Optimization of end-of-life decision-making Moritz Hoffmann	Robert Bosch Automotive Steering GmbH, Germany
16:30	Talk	A Methodology for Evaluating the Viability of Circular Strategies: Integrating Environmental Impact and Cost-Effectiveness Analysis Myriam Soto-Gordoa	Mondragon Unibertsitatea, Spain

16:50	Talk	Evaluating the relationship between sourcing policies and remanufacturing operations adoption rate: A simulation modelling approach Okechukwua Okorie	University of Manchester, UK
17:10	Talk	Exploring the Factors Affecting Purchase of Remanufactured Products using a Multi-Criteria Decision Making Model Aditi Joshi	FLAME University, Pune, India
17:45	ICoR BUFFET DINNER		

Thursday 10th April

08:50	COFFEE & DANISH		
	Talk Session 8 – Remanufacturing Technologies II <i>Chair: Myriam Soto-Gordoa</i>		
09:10	Talk	Semantic 3D Product Modeling for Automated Inspection in Remanufacturing Processes Jan-Philipp Kaiser	Karlsruher Institut für Technologie, Germany
09:30	Talk	Data Management System for Robotic Demanufacturing: a case study for Hard Disk Drives (HDDs) Hao Qin	KU Leuven, Belgium
09:50	Talk	Enabling circular economy R-strategies through human-centric smart and flexible automation Kristina Eriksson	University West, Sweden
10:10	Talk	How to design production systems for circular economy – applying the modular Aachen factory planning approach to a white goods manufacturer Niklas Schäfer	RWTH Aachen University, Germany
10:30	COFFEE		
10:50	Keynote	Stefan Caba, EDAG Engineering GmbH, Germany Circular Vehicle Design – A prerequisite for Remanufacturing	
	Talk Session 9 – Developing Remanufacturing Markets II <i>Chair: Kristina Eriksson</i>		
11:20	Talk	Navigating the Remanufacturing Trilemma: Balancing Customer, Manufacturer, and Lawmaker Interests Lisa Reintanz	University of Kassel, Germany
11:40	Talk	Understanding consumer acceptance and preferences through environmental knowledge to optimize remanufacturing end-of-life strategy: Theory development and case study Okechukwua Okorie	University of Manchester, UK
12:00	Talk	Challenges and Opportunities to adopt Remanufacturing by Original Equipment Manufacturers Jelena Kurilova-Palisaitiene	Linköping University, Sweden
12:20	LUNCH		
13:20	Keynote	Prof John W. Sutherland, Purdue University, USA Environmental Sustainability and Circularity via Value Retention Strategies: Past, Present, and Future	
	Talk Session 10 – Reverse Logistics <i>Chair: Okechukwu Okorie</i>		
13:50	Talk	The importance of reverse logistics strategy to the remanufacturing in (independent) small and medium businesses: A Review Etimbuk Basse	University of Strathclyde, UK
14:10	Talk	Circular Strategies for IT Devices in Southeast Asia: Addressing Barriers to Used Mobile Phone Collection in Cambodia Erik Sundin	Linköping University, Sweden
14:50	Talk	Optimization of a Sustainable Transportation System for A Bottled Water Firm in the Kingdom of Saudi Arabia Murtadha Aldoukhi	Al Yamamah University, Kingdom of Saudi Arabia
15:10	COFFEE		
15:30	Journal	Prof Erik Sundin Editor-in-Chief, Journal of Remanufacturing	
16:00	ICoR CLOSING CEREMONY		