



TRIER UNIVERSITY
OF APPLIED SCIENCES

Umwelt-Campus Birkenfeld
Environmental Campus Birkenfeld

Symposium on Innovation and Automation in Remanufacturing Megatrends and future markets for a sustainable revolution

Umwelt-Campus Birkenfeld, Germany
20.-21. February 2024

In-presence
Event

Leading event on research and product development in circular economy:
100+ participants, 15+ speakers, 10+ exhibitors.

Key player in circular economy

Why remanufacturing?

- Sustainability and environmental conservation
- Resource efficiency
- Cost efficiency
- Promoting circular economy

Opportunities for companies:

- Market expansion
- Sustainable image
- Compliance and regulations
- Innovation and differentiation

Key topics of discussion

Experts, researchers & companies focus the latest developments:

- Digitization
- Reman as a new business model
- Robotics and automation
- Additive manufacturing
- Logistics and supply chain management
- Eco design and legal requirements

[Register now](#)

Initiators of the symposium

Umwelt-Campus Birkenfeld (UCB) in cooperation
with FJW Consulting:



Matthias Vette-Steinkamp, UCB



Wolfgang Gerke, UCB



Fernand Weiland, FJW Consulting

AI in remanufacturing

Potential of Artificial Intelligence (AI):

- Automated quality inspection
- Predictive maintenance
- Automation of disassembly and assembly processes
- Data-driven decision-making
- Human-robot collaboration
- Resource efficiency and sustainability

Contact: Prof. Dr.-Ing. Matthias Vette-Steinkamp
E-Mail: robotik@umwelt-campus.de

Organized by: Umwelt-Campus Birkenfeld
Trier University of Applied Sciences
Endorsed by: ReMaTec, APRA, ERC

For more information visit www.remanufacturing.academy



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Program

Tuesday 20 February 2024

12:00	Lunch at Communication Building
13:30	Prof. Dr.-Ing. Matthias Vette-Steinkamp, Trier University of Applied Sciences, Professor for Robotics Welcome to Umwelt-Campus Birkenfeld Prof. Dr.-Ing. Rolf Steinhilper, Bayreuth, Pioneer of the Remanufacturing Technology Welcome to the challenges in Remanufacturing Prof. Dr.-Ing. Carsten Bucker represented by Fernand Weiland Remanufacturing – the ultimate element of Circular Economy
14:15	Mike Hague-Morgan, Autocraft Solutions Group Limited, Executive Director Remanufacturing Automotive Lithium-Ion Battery Packs
14:45	Lars Schaupeter, Trier University of Applied Sciences, Scientific researcher The Product Passport for Remanufacturing: Advantages and Applications
15:15	Coffee break and Exhibition visit
15:45	Xavier Kohl, Circu Li-Ion, Co-Founder and CTO Challenges and opportunities for automated disassembly of EV battery Packs
16:15	Dr. Michael Klos, Yaskawa Europe GmbH, General Manager Robotics Division New Adaptive Robotics for Recycling and Remanufacturing
16:45	Coffee break and Exhibition visit
17:00	Labtour Live Demonstrations: Battery Corner and Robots for Remanufacturing
18:15	Welcome Drink
19:00	Dinner at Campus

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Wednesday 21 February 2024

09:00	Fernand Weiland, FJW Consulting and Adrien Delimoy, Car Parts Industries /Borg Automotive Eco-Design or Design for Remanufacturing
09:15	Prof. Dr.-Ing. Guido Dartmann, Trier University of Applied Sciences, Professor for AI Cyber-physical Systems within the Edge-Cloud Continuum
10:00	Markus Wagner, Circular Economy Solutions GmbH, Lead Engineering Department Core-Management-as-a-Service: Reverse logistics enables Remanufacturing
10:30	Coffee break and Exhibition visit
11:00	Patrick Waltmans, IRS Robotics, Managing Director, Owner & Co-Founder of IRS Robotics Remanufacturing of Industrial Robots. An Insight into ongoing processes
11:30	Max Rettenmeier, TRUMPF Laser- und Systemtechnik GmbH, Industry Management Battery Recycling Laser Applications in Battery Recycling and Remanufacturing
12:00	Short break
12:10	Panel discussion lead by Fernand Weiland with Winifred Ijomah, Hanno Großschmidt and Søren Toft-Jensen Topic: Future strategy for Remanufacturing
12:40	Florian Mohr, Fujitsu, Innovation Leader - Data Space Technologies How data spaces enable inter-organisational production management
13:05	Lunch at Campus-canteen
13:45	Labtour Live Demonstrations: Additive Manufacturing and Hydrogen Fuel Cells
15:00	End

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