



Optional Campus Tours | Campus Boulevard 30 | 52074 Aachen

Part One | Optional Institute Visits – Guided Tours to AZL Partner Institutes and Campus Centers

- 09:30 Registration
- 10:00 Guided Tours (please choose during registration)
 - Tour 1: Lightweight Tour
 - Machinery Halls of AZL, IPT, ITA and IKV
 - Tour 2: Non-Lightweight Tour
 - Center for Wind Power Drives (CWD), full-scale testing facility for wind energy nacelles
 - Cluster for Smart Logistics and Reference Factory Industry 4.0, R&D on solutions for the flow of information and goods in the cyber-physical world of the future
 - Cluster Photonics, laser technology and additive manufacturing
- 12:00 Bus Transfer to Tivoli | Car park available (overnight stay possible)

Official Beginning @ Tivoli Aachen | Krefelder Str. 205 | 52070 Aachen

Part Two | Opening and Activity Review

- 12:30 Registration and Business Lunch
- 13:00 **Welcome and Introduction of all Participants**
Dr. Michael Emonts | Dr. Kai Fischer | Dr. Michael Effing
- 14:00 **Running Partnership Activities**
- 15:30 Networking Break

Part Three | Speed Dating and Technology Insights

- 16:00 **Speed Dating Presentations | First Session**
 - Schunk Kohlenstofftechnik GmbH | Dr. Hartmut Gross | “High Temperature Composite Applications – Lightweight from a different perspective”
 - Katcon S.A. de C.V. | Oscar Salinas | “KATCON cooperation with MAGNA on the composite body parts using a proprietary sandwich technology”
 - Textechno Herbert Stein GmbH & Co. KG | Dr. Stefan Fliescher | “Testing systems for composites”
 - Cato Composite Innovations BV | Joost van Lindert | “High volumes production for sporting goods and furniture applications”
 - Gurit Ltd. | Dr. Dan Jones | “Short Fibre Prepreg – targeting higher volume and lower cost manufacture”
 - Hille Engineering GmbH & Co. KG | Lukas Schulz | “Innovating the filament winding process - combining CNC-based robotics with Hille's highly-precise winding technologies”
 - Institut für Textiltechnik of RWTH Aachen University | Max Schmidt | “Thermoplastic coating for tows and tapes”
 - Compoform BV | Martijn Kalle | “The sandwich will save the world”
 - Michelman SARL | Gilles LeMoigne | “Michelman – the interface expert”
 - Hengrui Corporation Limited | Dr. Timo Huber | “Innovative composite lightweight solutions for small series to high volume applications”
- 17:00 Networking Break
- 17:30 **Technology Insights**
 - European 4.0 Transformation Center GmbH (E4TC)
 - Yizumi Germany GmbH
- 18:30 **Keynote Presentation**
“Model-based System Engineering as a solving approach for multi-model and multi-criteria optimization in material combinations”, Prof. Dr. Georg Jacobs | Head of the Institute for Machine Elements and Systems Engineering
- 19:00 Bus Transfer to Campus
- 19:30 Networking Dinner



Part Four | Keynotes and Activity Outlook

- 08:30** Registration
- 09:00** **Welcome and Review of the first Day**
Dr. Michael Emonts | Dr. Kai Fischer | Dr. Michael Effing
- 09:10** **Opening Remarks**
Prof. Dr. rer. nat. Dr. h. c. mult. Ulrich Rüdiger | Rector of RWTH Aachen University
- 09:20** **Keynote Presentations**
“Digitalization Strategies in Plastics Design and Manufacturing”, Prof. Dr. Christian Hopmann | Head of the Institute for Plastics Processing (IKV) in Industry and Craft at RWTH Aachen University and Co-Founder of the AZL
- 09:50** “Future Mobility- Concept for our cities”,
Prof. Dr. Achim Kampker | Founder of the Chair of Production Engineering of E-Mobility Components (PEM), Co-Founder of Streetscooter
- 10:20** Networking Break
- 10:50** “The Federal Ministry for Economic Affairs and Energy’s Lightweighting Initiative today”, Werner Loscheider | Federal Ministry of Economics and Energy, BMWi
- 11:10** **Starting Partner Activities:**
- Market- and Technology Analyses focussing Lightweight Technologies
 - Next Generation Mobility Solutions
 - Artificial Intelligence in Design and Manufacturing
 - Consortial Projects
 - Marketing and Development Tool: Creating higher-level system models for efficient calculation of KPIs
 - Inductive Double Belt Press Follow-up Project with Focus on Process Evaluations (Impregnation, Consolidation)
- 12:15** Networking Lunch

Part Five | Speed Dating and Future Business Opportunities

- 13:15** **Speed Dating Presentations | Second Session**
- Sabic Innovative Plastics GmbH | Gino Francato | “Thermoplastic continuous fiber composites. Innovative technologies for mass production”
 - Berndorf Band Engineering GmbH | Dominik Inschlag | “Continuous consolidation of UD tapes with a double belt press”
 - Johns Manville | Dr. Dana Miloaga | “Johns Manville at a glance”
 - Institute of Plastics Processing (IKV) in Industry and the Skilled Crafts at RWTH Aachen University | Daniel Schneider | „Characterization of SMC and tapes for process- and structural simulation”
 - Netzsch Gerätebau GmbH | Dr. Alexander Chaloupka | „No automation without process and material information – How NETZSCH and KISTLER will revolutionize intelligent sensor systems”
 - Mitsubishi Chemical Europe GmbH | Dr. Thorsten Kiehne | “Introduction to Mitsubishi”
 - Sino Polymer Co. Ltd. | Daniel He | “Sino Polymer, global matrix resin provider - Your gateway to China”
 - Exel Composites Oyi | Jari Sopanen | “Pultrusion, the most cost efficient way of manufacturing high performance composite profiles”
 - Rein4ced NV | Dr. Michaël Callens | “Automated manufacturing of next generation bicycle frames in Belgium”
 - Conbility GmbH | Thomas Weiler | “Laser-assisted conversion of tapes to tailored blanks”
- 14:15** Networking Break
- 14:30** **Podium Discussion addressing the Future Perspective on Lightweight Technologies**
- 15:30** End of Meeting and optional get together in VIP Lounge
- 17:30** Optional: Training Game of Germanys National Soccer Team | free ticket included