

ITA Reinforced! Innovation Day
“Automation” and “Composite Testing and Sensor
Integration”
September 26th 2023

- Hybrid event for persons who are not able to attend the event physically -

9:30 h	Registration @ ITA Aachen
10:00 – 10:15 h	Welcome and update on activities of ITA Group by Dr. Michael Effing and Dr. Christoph Greb
10:15 – 10:30 h	Partner Presentation “Automation and Digitalization – a new AVK Workgroup for the Composite Industry” By Dr. Elmar Witten, AVK
10:30 – 10:50 h	Partner Presentation “Automation in the Processing of Thermoplastic Composites” By Engel Automotive and Mobility, Austria (<i>requested</i>)
10:50 – 11:10 h	Partner Presentation “Innovative Tooling Systems in the Industrialization of Composite Part Production” By Dr. Ulrich Kuenzer, ALPEX Technologies, Austria
11:10 – 11:30 h	Networking Break
11:30 – 11:50 h	Partner Presentation “Machine Learning for Efficient Process Optimization in Textile Draping for Composite Production” by Dr. Clemens Zimmerling, KIT FAST
11:50 – 12:10 h	Partner Presentation “Advanced Fibre Placement Technology” By Dr. Patrick Kölzer, AFPT GmbH
12:10 – 13:00 h	Matchmaking & Networking Lunch
13:00 – 13:20 h	Presentation “ITA Reinforced! Partnership Model” by Dr. Michael Effing
13:20 – 13:40 h	Partner Presentation “Composite Testing for Formula Student Race Car Development”

	by Ecurie Aix Formula Student Team RWTH Aachen e.V.
13:40 – 14:00 h	ITA Presentation “Composite Pressure Vessels instrumented with fiber-based Sensors for Structural Health Monitoring by Marcus Welsh
14:00 – 14:20 h	Partner Presentation “Structural Health Monitoring Leaf Spring / Tailored Twin Box” by Prof. K.-U. Schröder, SLA of RWTH Aachen University
14:20 – 14:40 h	Joint ITA / Partner Presentation “Innovative Clamping Solution for Tensile Testing of impregnated Carbon & Glass Fibre Rovings” by Shantanu Bhat / Grasse Zur Ingenieurgesellschaft mbH
14:40 – 14:50 h	Joint Partner Project „Sensor Matrix“
14:50 – 15:30 h	Networking and individual ITA-Tours with our Experts
15:30 h	End of Meeting

Location:

ITA of RWTH Aachen University
Otto-Blumenthal-Straße 1
52074 Aachen

In Cooperation with the trade associations:



Online Registration:

<https://rwth.zoom.us/meeting/register/u5crfumqzMuH9VU6eat15GXeAaSznQ5VFLn>