

## CU Innovation Lab *Intelligent Composite Production*

**CTC** we are  
composites  
an AIRBUS company

**On April 14/15, 2026, at the CFK Nord Research Center in Stade**

Address: Ottenbecker Damm 12  
21684 Stade  
Germany

Moderation: Rolf Heusing, CU & Dr. Constantin Hildebrandt & Tobias Reincke, CTC

Composites United (CU) is proud to invite you to an Innovation Day dedicated to critical advancements in Intelligent Composite Production. This event is organized with the support of the CU working groups Digitalization as well as Artificial Intelligence. It will deeply explore the transformative power of Automation, Artificial Intelligence (AI), and digitalization within the manufacturing landscape. It is specifically tailored for industry leaders, pioneering researchers, skilled engineers, and forward-thinking innovators who are committed to revolutionizing production processes for enhanced efficiency, unparalleled precision, and crucial sustainability. In today's rapidly evolving industrial environment, embracing intelligent technologies is not merely an advantage but an essential step towards future-proofing composite manufacturing.

The event will feature an inspiring keynote address offering strategic insights, diverse presentations from experts and companies showcasing real-world applications and trends in intelligent composite manufacturing (including robotics, data-driven decision-making, and advanced analytics), and a significant technical deep dive by the Composite Technology Center's (CTC GmbH, an Airbus Company) "Laboratory for Intelligent Lightweight Manufacturing" (LaiLa) exploring their groundbreaking automated and AI-driven production research. This event is supported by the LaiLa project and the ResC4EU project.

We look forward to welcoming you! CU in Stade in November!

Agenda	Day 1, April 14, 2026, 11:00 am – 05:00 pm plus Evening Event
10:30 am	Registration, Warm-up with Coffee
11:00 am	<b>Welcome &amp; News from Composites United e. V.</b> Marc Fette, CTC GmbH Constantin Hildebrandt, CTC GmbH N. N., Composites United e. V.
11:15 am	<b>KEYNOTE - Artificial intelligence: Holistic strategy for aerospace industry</b> Jay Stoltzenberg, Airbus
11:45 pm	Lunch Break with Networking
12:45 pm	<b>AI Agents in Aerospace: Powering Smarter Ramp-Up &amp; Sustainable Growth</b> Erwin Siegel, Plataine
1:05 pm	<b>Topic: Data acquisition and analysis along the entire process chain</b> Dr. Joachim Starke, inno-focus
1:25 pm	<b>Scan and Spray: AI-Driven Pose Estimation and Automated Robot Programming in Aerospace Coating</b> Philip Koch, Fraunhofer IFAM
1:45 pm	<b>Topic: Digital Optimization of Composite Production Processes</b> Ingo Schlalos, SWMS
2:05 pm	<b>Artificial intelligence in composite processing: from sensor data fusion to predictive quality control</b> Alexander Scherer, Symate GmbH

**2:25 pm Coffee with Networking**

Split up into groups & transition to the CFK Valley Technology building

**3:00 pm Demonstrations of intelligent Composite production**

2 demonstration cases for each participant, 4 parallel sessions

- Stream 1: Fiber deposition – Session 1 & 2
- Stream 2: 3D Printing – Session 1 & 2
- Stream 3: Energy monitoring and simulation for factory design – Session 1 & 2
- Stream 4: Advanced analytics and knowledge-based decision making – Session 1 & 2

**5:00 pm End of the tours**

**7:00 pm until 10:00 pm Networking Evening Event @ Restaurant Die Insel in Stade**

Casual dinner & drinks with lots of opportunity for networking. Enjoy a buffet dinner and some nice drinks and get in touch with participants, speakers and hosts!

**10:00 pm End of Evening Event**

**Agenda Day 2, April 15, 2026, 8:30 am – 2:00 pm**

**8:00 am Registration, Warm up with Coffee**

**08:30 am Welcome**

Marc Fette, CTC GmbH  
Constantin Hildebrandt, CTC GmbH  
N. N., Composites United e. V.

**08:40 am Intelligent Models & Algorithms for Complex Decision-Making Across the Aerospace Life Cycle**

Felix Gehlhoff, Helmut Schmidt University (HSU)

**09:00 am Bringing generative AI into industries with Siemens Industrial Copilots**

André Scholz, Siemens AG Digital Industries

**09:20 am Nimbus – Framework for the digitalized Composite Production**

Nico Liebers, Center for Lightweight Production Technology - DLR

**09:40 am WILD CARD**

Do you have an interesting topic to present at this event? Please contact us at [rolf.heusinger@composites-united.com](mailto:rolf.heusinger@composites-united.com)

**10:00 am Coffee break with Networking**

Split up into groups & transition to the CFK Valley Technology building

**10:30 am Demonstrations of intelligent Composite production**

3 demonstration cases for each participant, 4 parallel sessions

- Stream 1: Smart Assembly – Session 1, 2 & 3
- Stream 2: Data supported joining processes – Session 1, 2 (ultrasonic welding) & 3 (adhesive bonding)
- Stream 3: Smart drilling and virtual reality – Session 1 (Smart Drilling), & 2 (Virtual Reality)
- Stream 4: Factory automation, testing & cyber security – Session 1, 2 & 3

# AGENDA

- 1:15 pm    **Resumé: Wrap-up and next steps**  
Marc Fette, *CTC GmbH*  
Constantin Hildebrandt, *CTC GmbH*  
N. N., *Composites United e. V.*
- 1:30 pm    **Transition to open-end Networking**  
Distribution of Lunch Bags for the trip home.

**2:00 pm    End of Event**

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