

## CU Innovation Day

“The Service Life of Wind Turbine Blades: Inspection, Repairs & End of Life” of CU Working Group “Composites in Wind Energy”

**On April 1. and 2., 2025 at Fraunhofer IWES – Bremerhaven, Germany**

Address:       Großer Westring 2  
                  27572 Bremerhaven  
                  Germany

Moderation:   Lutz Beyland, Steffen Baitinger, Leif Ole Meyer

Join us in Bremerhaven for a CU-Innovation Day organized by Composites United and hosted by the Fraunhofer Institute for Wind Energy Systems (IWES) in Bremerhaven. The task group Wind Energy of Composites United has invited several experts from industry and academia to discuss the service life of wind turbine blades, including presentations about inspection, repair and end of life treatment. The event will include opportunities for networking and a guided tour of the Fraunhofer IWES facilities. Join our 2 days event and enlarge your network with new exciting researchers and innovators! We look forward to welcoming you!

This event will be held in English.

Agenda    Day 1, April 1 <sup>st</sup> 2025	
<b>12:30</b>	<b>Registration, Warm-up with Coffee and snacks</b>
<b>13:00</b>	<b>Welcome</b> Lutz Beyland, DLR / CU task group Wind Steffen Baitinger, Saertex / CU task group Wind Leif Ole Meyer, Olin / CU task group Wind Niels Ludwig / Fraunhofer IWES Sophie Nösler / Composites United e.V.
<b>13:15</b>	<b>Welcome and Keynote lecture from Fraunhofer IWES</b> Niels Ludwig, Fraunhofer IWES
<b>13:45</b>	<b>Sustainable lightweight systems for aviation and wind energy</b> Steffen Opitz, Deutsches Zentrum für Luft- und Raumfahrt (DLR)
<b>14:15</b>	<b>Rotor blade inspection with ground-based thermography</b> Ivana Lapsanska, Bundesanstalt für Materialforschung und -Prüfung (BAM)
<b>14:45</b>	<b>Coffee Break with Networking</b>
<b>15:15</b>	<b>Synergies between aviation and wind energy: Innovative composite technologies for sustainable structures</b> Mark Opitz, Invent
<b>15:45</b>	<b>Physics-informed digital twins for ultrasonic inspection of wind turbine blades</b> Christian Böhm, Mondaic AG
<b>16:15</b>	<b>Spatially resolved carbon fiber strain sensors for structural health monitoring</b> Philip Steinbild, Institut für Leichtbau und Kunststofftechnik (TU Dresden)

16:45      **Closing Remarks Day 1**

18:30      **Dinner / Evening Event**

## Agenda      Day 2, April 2<sup>nd</sup> 2025

8:30      **Registration, Warm up with Coffee**

09:00      **Welcome Day 2**

Lutz Beyland, DLR / CU task group Wind  
Steffen Baitinger, Saertex / CU task group Wind  
Leif Ole Meyer, Olin / CU task group Wind  
Niels Ludwig, Fraunhofer IWES

09:15      **Fatigue Properties of Composites under Moisture Influence**

Christoph Kensche

09:45      **Current sustainability efforts @tpi composites**

Jendrik Meyer, tpi composites

10:15      **FI:IL - A sensor integrated composite lamella for efficient structural health monitoring**

David Thull, fisco GmbH

10:45      **Fraunhofer IWES Site Tour (approx. 1 hour)**

12:00      **Wrap up & Closing Remarks**

Lutz Beyland, DLR / CU task group Wind  
Steffen Baitinger, Saertex / CU task group Wind  
Leif Ole Meyer, Olin / CU task group Wind  
Niels Ludwig / Fraunhofer IWES

12:30      **Distribution of lunch bags**

Optional networking

13:00      **End of Event**