



## INTERNATIONAL ENERGY AGENCY

Implementing Agreement for Co-operation in the Research,  
Development and Deployment of Wind Turbine Systems

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### **IEA Wind TCP Task 46 Erosion of Wind Turbine Blades 8th plenary meeting on September 19–20, 2024, Albuquerque, USA**

#### ***Leading Edge Erosion Special Session September 19, 9:00 am – 12:00 pm MDT.***

##### Agenda

- 9:00 Charlotte Hasager, Operating Agent (DTU, DK): IEA Task 46 Erosion of wind turbine blades
- 9:15 David C. Maniaci (Sandia National Laboratories, USA): Operation with Erosion, Aerodynamic Benchmarking and Next Steps in Classification
- 9:30 Alexander Meyer Forsting (DTU, DK): Validation of 3D CFD simulations of real-world leading edge erosion
- 9:45 Gerard Schepers (TNO, NL): IEA Task 47, TURBINIA, TURBulent INflow Innovative Aerodynamics: The need for collaboration with IEA Task 46
- 10:00 Coffee break
- 10:30 Heather Norton (WEICAN, CAN): The importance of surface preparation in leading edge protection durability
- 10:45 Quaiyum M. Ansari (University of Limerick, IE): Experimental and numerical investigations of droplet impact on filler putty thickness coating systems of offshore wind turbine blades
- 11:00 Aya Aihara (AIST, JP): Relationship between the impact force by water droplet and the surface
- 11:15 Nicolai Frost-Jensen Johansen (DTU, DK): Fitting VN data from rain erosion test data and the potential effects on predicted lifetime
- 11:30 Sara Pryor (Cornell University, US): Measuring hydrometeor size distributions for leading edge erosion estimation
- 11:45 Janis Putrams (Aerones, LV): Can you afford to ignore leading edge erosion? - Unveiling the next generation strategies for repair curvature
- 12:00 Adjourn  
(Lunch)

Participants of the Blade Workshop can attend, see <https://energy.sandia.gov/news/2024-sandia-blade-workshop/> as well as IEA Task 46 members.