

## **Lightning protection of wind turbines**

### **Conveners:**

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### **Description:**

The height and complexity of modern wind turbines requires reliable lightning protection of the turbines, including all components from blade tip to ground.

The protection system has to prevent both damage and reduced functionality of structural, mechanical and electronic systems in the turbine.

The mini-symposium will give the possibility to get insight and discuss the following topics:

- Lightning phenomenology and engineering consequence for wind turbines.
- Test methods for full-scale lightning verification tests.
- Lightning induced damage to materials and components
- Lightning attachment processes and prediction.
- Lightning protection coordination of CFRP structural components
- Damage tolerance of CFRP structural components when exposed to lightning current