



CA3ViAR: Dissemination Event #1

Seminar: Design of a composite UHBR fan

September 5th - 6th, 2022





**Dissemination
Event #1, Seminar:**

**Design of a
composite UHBR
fan**

Announcement

The CA3ViAR consortium is pleased to announce the 1st Dissemination event of the CA3ViAR project in form of a seminar

Title: Design of a composite UHBR fan

Date: 5th - 6th September 2022

Day 1: 13:00 – 17:15, 5th September

End time: 09:00 – 14:00, 6th September

Topics:

- Aerodynamic and aeroelastic design methods
- Design and manufacturing of composite blade
- Influence of composite layups on aeroelasticity

Address: An der Universität 1, 30823 Garbsen

Participation is free of charge.

Registration is possible by filling in the form on the project website at

<https://www.ca3viar-project.eu/en/dissemination/public-events/>

Registration due by 26th August 2022

<https://www.ca3viar-project.eu/>





DRAFT Agenda

Dissemination
Event #1, Seminar:

Design of a
composite UHBR
fan

Day 1

Time

Lecture

Presenter

13:00 – 13:45

Welcome and Project Overview

Nicola Paletta

13:45 – 14:30

Aerodynamic design of a scaled UHBR fan

Torben Eggers
Jens Friedrichs

14:30 – 15:15

Influence on aerodynamic damping of a scaled UHBR fan using composite layup variations

Jan Gößling
Jörg Seume

15:15 – 15:45

Coffee break

15:45 – 16:30

Mechanical design of a composite fan stage

Jens Lindemann
Nicola Paletta

16:30 – 17:15

Manufacturing of composite fan blades

Dimitrios Mazarakos

Day 2

09:00 – 09:45

Experimental and Numerical Quantification of Aerodynamic Damping in Turbomachinery

Niklas Maroldt

09:45 – 10:30

Advanced optical measurement techniques fan deformation and noise propagation

Jan Gößling

10:30 – 11:00

Coffee break

11:00 – 11:45

The propulsion testing facility (PTF) at TU-Braunschweig

Torben Eggers

11:45 – 12:30

A view into the turbomachinery research activities at TU-Braunschweig

Jens Friedrichs

12:30 – 14:00

Meeting closure and Lunch



Travel information

Arrival to the seminar:

Arrival by own vehicle:

Please use the adjacent parking spaces in the north of the Campus Maschinenbau Garbsen. There are sufficient parking spaces available there and you can reach the venue by foot in just a few steps. The address is "An der Universität 1, 30823 Garbsen".

Arrival by taxi:

If you come to the campus by taxi, please ask the taxi driver to let you get off in the central campus area between the two roundabouts. For example, if you are coming from either direction, you can use the bus bays at the bus stops. The address is "An der Universität 1, 30823 Garbsen".

Arrival by public transport:

Coming from the city center, take the U4 underground line to the "Schönebecker Allee" stop. From there, a shuttle bus (line 404) will take you

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Lecture Hall

