









### Hamburg Aerospace Lecture Series Hamburger Luft- und Raumfahrtvorträge

ZAL in cooperation with the DGLR, RAeS, HAW Hamburg, and VDI invites to a lecture

## **ZAL Discourse: Automation in Aviation**

Dr. Felix Berteloot, Technical Domain 'Automation', ZAL GmbH

**Frank Meller**, Cabin & Payload Systems, DLR Institute of System Architectures in Aeronautics Prof. Dr.-Ing. **Alexander Fay**, Institute for Automation Technology, HS University Hamburg **Mark Etzold**, Technical Domain 'Automation', ZAL GmbH

Date: Tuesday, 25 October 2022, 16:00 CET

Online: <a href="https://bit.ly/3EwQhMl">https://bit.ly/3EwQhMl</a>

In the upcoming ZAL Discourse "Automation in Aviation", various experts will shed light on today's unsolved automation problems in the aviation industry — and on corresponding, potential technical solutions. What are the most promising technologies, and what could the future of automation look like? From maintenance, repair and overhaul (MRO) use cases to the use of artificial intelligence: Find out about the latest approaches and how your own business could benefit from these technologies.

#### 16:00 Opening & Introduction

Dr. Felix Berteloot

Why is automation crucial for the aviation industry? The evolution of automation in aircraft manufacturing and overhaul at a glance.

#### 16:10 Lecture: 'Co-Design and Co-Development – From Aircraft Concepts to Automation'

Frank Meller

How can we design new aircraft cabins and plan the automation simultaneously together? A short overview of digital collaborations from the conceptual design to manufacturing at ZAL.



#### 16:40 Lecture: 'Automated Quality Assurance'

Prof. Dr.-Ing. Alexander Fay

How can automated inspections ensure the quality of manufacturing and repair processes? Examples from manufacturing, maintenance and repair, based on various industrial projects.

# 17:10 Lecture: 'Future automation implemented today' Mark Etzold

How can modern technologies address today's industrial automation challenges? With examples from SMEs to large scale aviation industry.

17:40 Panel Discussion

18:00 Optional: Get Together & Networking

DGLR / HAW Prof. Dr.-Ing. Dieter Scholz RAeS Richard Sanderson



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Hamburg Aerospace Lecture Series (AeroLectures): Jointly organized by DGLR, RAeS, ZAL, VDI and HAW Hamburg (aviation seminar). Information about current events is provided by means of an e-mail distribution list. Current lecture program, archived lecture documents from past events, entry in e-mail distribution list. All services via <a href="http://AeroLectures.de">http://AeroLectures.de</a>.