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Arbeitskreis Luft- und Raumfahrt

Invitation to an RAeS lecture in cooperation with the DGLR and VDI

Aerodynamic Design of High-Lift Wings at Airbus - from A350XWB into the Future

Dipl.-Ing. Daniel Reckzeh,
Airbus, Bremen

Lecture followed by discussion

Entry free !
No registration !

Date: **Thursday, 27th January, 18:00**
Location: **HAW Hamburg**
Berliner Tor 5
(Neubau), Hörsaal 01.11

Hochschule für Angewandte Wissenschaften Hamburg
Hamburg University of Applied Sciences
Praxis Seminar Luftfahrt

Fuel efficiency and environmental compatibility of future aircraft configurations are primary motivations for the development of new technologies at Airbus.

The optimisation of the wing is a key factor and the focus of extensive research activities and the flap systems of the wing play a major role in the design process. Besides the classic high-lift functions for take-off and landing, new multi-functional uses for enhancement of cruise performance and control of wing loads are gaining in importance. Also new low-noise approach and departure patterns are required whilst at the same time reduced weight, complexity and costs are to be ensured. New aircraft configurations with innovative concepts such as laminar flow wings or high-efficiency prop-fans require different solutions for flap-systems.

The lecture gives an overview of current and future developments and technologies in the area of aerodynamic design at Airbus concentrating on the high-lift system. The lecture will describe calculation methods and tools used including wind-tunnel testing, discuss current developments with the A350XWB and end with an outlook and examples for future technological solutions.

Daniel Reckzeh has been with Airbus in the Design Organisation since 1996. He has held various leading functions in the Aerodynamics Office and worked on various Technology programmes as well as on the design of the A380, A400M and A350XWB. In his current role in Airbus R&T "Chief Engineering" he is responsible for research and technology activities in the area of "Overall Aircraft Design & Integration" and leads the R&T "Plateau" at the Bremen site.

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VDI, Arbeitskreis L&R Hamburg http://www.vdi.de/2082.0.html
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