

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

The Potential of Aerodynamic Design in a Constrained Environment

Dr.-Ing. **Gerd Heller**, Senior Aerodynamics Expert,
Airbus Operations

Lecture
followed by discussion

Entry free !
No registration required !



Date: Thursday, 3 November 2016, 18:00
Location: HAW Hamburg
Berliner Tor 5, (Neubau), Hörsaal 01.12



The design and development of a new aircraft is defined in close cooperation with a variety of disciplines. In this process Aerodynamics is now a discipline among many. Nevertheless it still holds a special fascination. It is the aerodynamics which gives the aircraft its form. This represents the brand recognition of the product. If it is just that, then why is the aircraft not designed simply by a designer?

The initial design begins with the mission requirements and the Top Level Aircraft Requirements. Aerodynamic considerations deliver an important contribution to the following process aimed at meeting these requirements with the right product in a highly multidisciplinary environment. Despite the many limitations and constraints, there are still many opportunities for aerodynamic improvements which can be exploited.

The lecture will end with a short outlook on the contribution of aerodynamic improvements to future programmes.

After graduating from the Technical University of Munich with a PhD, Gerd Heller joined Dornier as an aerodynamicist in 1997 and in 1999 became Head of Aerodynamics. In 2003 he moved to Airbus in Bremen where he became Local Domain Manager, Airbus Deutschland. He then held various positions within the Aerodynamics Department before becoming Senior Expert Aerodynamics in 2014.

RAeS Richard Sanderson
VDI Hannes Erben
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