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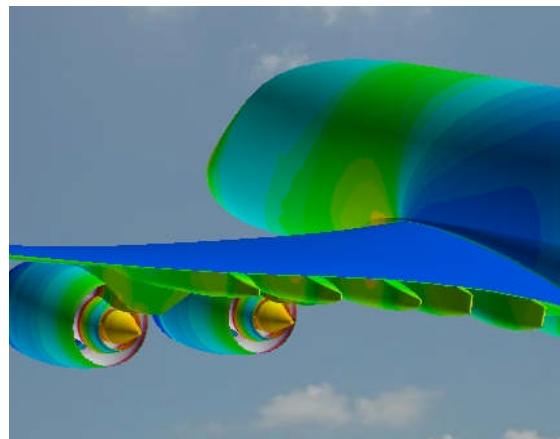
VDI

Verein Deutscher Ingenieure
Hamburger Bezirksverein e.V.
Arbeitskreis Luft- und Raumfahrt

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

Computational Fluid Dynamics: industrial use of high fidelity numerical simulation of flow about aircraft

Dr. Klaus Becker
Aerodynamic Strategies
Airbus, Bremen



Lecture
followed by discussion

Entry free !
No registration required !

Date: Thursday, 26th January 2012, 18:00
Location: HAW Hamburg
Berliner Tor 5, (Neubau), Hörsaal 01.12



Numerical simulation of aerodynamic flow is a key competence and capability in aerodynamic development work. Not only the design and optimisation of external shapes but also the prediction of all aerodynamic data throughout the complete flight envelope is meanwhile based on the predictive quality of CFD. The tremendous progress in physical modelling, numerical algorithms and computer power made over the last decades is now being fully exploited for the development of current and next generation aircraft. But this is not the end of the story: CFD now goes into multi-disciplinary simulation which enables the aircraft designers to optimize the next generation product in a fully integrated way.

The lecture gives an overview of current and future developments and technologies in the area of numerical simulation in aerodynamics. It will show the history and status of CFD at Airbus and give an outlook for the future. A number of examples from recent aircraft development will demonstrate the power of this capability.

Klaus Becker has been with Airbus Aerodynamics since 1985. His PhD in numerical mathematics made him best suited to introduce 3D computational fluid dynamics in the aerodynamic development work in Bremen. After some years on the development of such methods he took over leadership on Numerical Aerodynamics. Since 2006 he has been Head of Aerodynamic Strategies in the transnational Aerodynamics Domain of Flight Physics.

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<http://hamburg.dglr.de>
<http://www.raes-hamburg.de>
<http://www.vdi.de/2082.0.html>

und  Luftfahrtstandort
Hamburg
<http://www.luftfahrtstandort-hamburg.de>

Der Besuch der **Veranstaltung ist steuerlich absetzbar**. Bringen Sie dazu bitte eine ausgefüllte Teilnahmebestätigung zur Unterschrift zum Vortrag mit. Mittels **E-Mail-Verteilerliste** wird über aktuelle Veranstaltungen informiert. **Vortragsunterlagen** vergangener Veranstaltungen, aktuelles **Vortragsprogramm**, Eintrag in E-Mail-Verteilerliste, Vordrucke der Teilnahmebestätigung: Alle Services über die Internetseite zur gemeinsamen Vortragsreihe von DGLR/VDI/RAeS/HAW: <http://hamburg.dglr.de> .