

# Joint Symposium of DFG PAK 136 and DLR-Airbus C<sup>2</sup>A<sup>2</sup>S<sup>2</sup>E

## “Simulation of Wing and Nacelle Stall”



18-19 June 2008  
Programme



**Location: Hermann-Blenk Saal  
DLR Braunschweig, Germany  
Co-Chairmen: N. Kroll, R. Radespiel**

### 18.06.2008

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|-------|--|--|
| 11.00 | R. Radespiel   | Welcome  |
| 11.10 | S. Raasch<br>LU Hannover                                       | <i>Invited Lecture:</i> High Resolution Large Eddy Simulation of Atmospheric Boundary Layer Flows  |
| 12.00 | T. Auerswald, J. Bange<br>TU Braunschweig                      | Generation of a three-dimensional turbulent initial wind field for large-eddy simulation   |
| 12.30 | C. Wolf, A. Raichle, T. Knopp,<br>D. Schwamborn, DLR Göttingen | Chimera Simulations of Moving Large-Scale Vortices and their Interactions with Airfoils  |
| 13.00 |  | <i>Lunch</i>   |
| 14.00 | M. Strelets<br>New Technologies and Services<br>St. Petersburg | <i>Invited Lecture:</i> Recent Developments in Detached-Eddy Simulation  |
| 14.50 | H. Lüdeke, K. Weimann<br>DLR Braunschweig/Göttingen            | Modifications to the Hybrid TAU Solver to Allow Reliable Prediction of Unsteady Separated Flow And Simulation of Realistic Configurations by DES |
| 15.20 | D. König, W. Schröder,<br>M. Meinke, RWTH Aachen               | Large-Eddy Simulation of the Flow over a High-Lift Airfoil Configuration   |
| 15.50 |  | <i>Coffee Break</i>  |
| 16.20 | Luca di Mare<br>Imperial College London                        | <i>Invited Lecture:</i> Inlet Distortions and Compressor Aeroelasticity  |
| 17.10 | J. Iseler, R. Niehuis<br>UniBw München                         | Title of talk to be given  |
| 20.00 |  | <i>Dinner</i>  |

## 19.06.2008

- 09.30 L. Djayapertapa  
Airbus Filton-Bristol *Invited Lecture: The Use of Numerical Simulation for Aircraft Aerodynamic Design & Data in Airbus*
- 10.20 S. Schulze, C.J. Kähler  
UniBw München *On Stalling Flow-Through Nacelles and Powered Inlets at Take-Off Conditions*
- 10.50 A. Probst, R. Radespiel  
TU Braunschweig *Simulation of Stalling Airfoils and Nacelles with a Near-Wall Reynolds-Stress Model*
- 11.20 B. Eisfeld  
DLR Braunschweig *Reynolds Stress Modelling for Complex Aerodynamic Applications*
- 12.00 *Lunch*
- 13.00 A. Krumbein, N. Kimmelbein  
DLR Göttingen and  
TU Braunschweig *Application of the Automatic Transition Prediction Functionality of the DLR TAU Code to 3D Aircraft Configurations*
- 13.30 S. Melber-Wilkending  
DLR Braunschweig *Lift-Hysteresis and the Flow-Simulation of Complex 3D High-Lift Configurations*
- 14.00 R Rudnik, H. Frhr. v. Geyr  
DLR Braunschweig *Engine/Airframe Interference Induced Stall Effects on Commercial Aircraft Configurations*
- 14.30 *Coffee and End of Symposium*