

International Symposium "Simulation of Wing and Nacelle Stall" Germany, Braunschweig, 21st - 22nd June 2012



Center for Computer Applications in AeroSpace Science and Engineering

Conference Chairs: R. Radespiel, TU Braunschweig; N. Kroll, DLR Braunschweig

Location: Institute of Fluid Mechanics, Seminar room, Hermann-Blenk-Straße 37, 38108 Braunschweig, Germany

Thursday, 21st June 2012

	MODELENIO I	
09:00	Capturing free-shear layers in hybrid RANS-LES	Johan Kok,
	simulation of separated flow	National Aerospace
		Laboratory NLR Amsterdam
09:45	Reynolds stress modelling of separated turbulent	Suad Jakirlic,
	flows with an instability-sensitive closure	TU Darmstadt
10:15	Implementation of a synthetic turbulence generator for	Daniela Francois,
	RANS/LES interface in TAU-Code	TU Braunschweig
10:45	Coffee break: Institute of Fluid Mechanics, Foyer	
11:15	Application of chimera with hexahedral blocks in Solar	Simone Crippa,
	meshes	DLR Braunschweig
11:45	On the capability of unsteady RANS and hybrid	Sebastian IIIi,
	methods to predict transonic buffet	Universität Stuttgart
12:15	Aerodynamic modelling for integrated loads analysis	Thiemo Kier,
	models	DLR Oberpfaffenhofen
13:00	Lunch time: Cafeteria LBA, Hermann-Blenk-Straße 26	

MODELLING - 1

MODELLING - 2

14:00	Stall behaviour of a two-element high-lift airfoil with	David Hahn,
	disturbed inflow	TU Braunschweig
14:30	Numerical investigation of the DLR F15 two-element	Silvia Reuss,
	airfoil using the epsilon-h Reynolds stress model	DLR Göttingen
15:00	Dynamics of a simplified wing-body junction flow	Fabien Gand,
		ONERA Meudon
15:30	Coffee break: Institute of Fluid Mechanics, Foyer	

SIMULATION OF ATMOSPHERIC DISTURBANCES

16:00	Turbulence characteristics of the atmospheric	Simon Watkins,
	boundary layer and possibilities of replication	RMIT University
16:45	Numerical simulation of the turbulent flow around a	Torsten Auerswald,
	wing	Eberhard Karls Universität
	-	Tübingen
17:15	Characterization of wind gusts using a large eddy	Christoph Knigge,
	simulation model	Leibniz Universität Hannover
17:45	Experimental investigation of convective-scale	Jürgen Frey,
	atmospheric turbulence and its effect on glider wings	TU Dresden
	in thermal flight	
18:15	Evening Event/Dinner: Institute of Fluid Mechanics,	
	Foyer	

Friday, 22nd June 2012

INLET AND ENGINE FLOWS

08:30	Reynolds-stress modelling of subsonic and transonic	Axel Probst,
	inier stall compared to measurements	DLR Gollingen
09:00	PIV Measurements in a Compressor Test Rig with	Rainer Hain,
	Distorted Inflow	Universität der Bundeswehr
		München
09:30	Coupling of TAU and TRACE for parallel accurate flow	Frank Spiering,
	simulations	DLR Braunschweig
10:00	Numerical investigation of the effect of different inflow	Andreas Lesser,
	distortions on a transonic axial compressor stage	Universität der Bundeswehr
		München
10:30	Coffee break: Institute of Fluid Mechanics, Foyer	
11:00	Modification of a compressor test rig for measuring the	Fabian Wartzek,
	influence of inlet distortions on the compressor flow	TU Darmstadt
11:30	Design of a fan-test-facility with axial flow and	Jan-Hendrik Krone,
	crosswind capabilities	TU Braunschweig

APPLICATIONS IN COMPLEX FLOWS

12:00	Investigation of stall phenomena using zonal RANS-	Koen Geurts,
	LES simulations	RWTH Aachen
12:30	Detached-eddy simulation of generic and complex	Charles Mockett,
	helicopter fuselage geometries	TU Berlin
13:00	Lunch time: Cafeteria LBA, Hermann-Blenk-Straße 26	
14:00	Leading edge vortex system of the A380-800 at high	Rolf Emunds,
	angles of attack for take-off and landing configurations	Airbus Operations GmbH
		Bremen
14:30	Maximum lift predictions of a realistic commercial	Niko Bier,
	aircraft in landing configuration	DLR Braunschweig
15:00	End of Symposium	