

**Thursday, 19.09.2013**

08:30	<b>Registration</b> , welcome coffee	
09:00	<b>Official launch of TCAD</b> Introduction, targets	Björn Nagel DLR
09:20	<b>Aircraft Design Task</b>  Challenges for the next generation of transport aircraft  Reference configurations as basis for assessment  A cost model for assessment of transport aircraft  Novel aircraft concepts: The FANWING	Daniel Böhnke DLR  Lars Jörgensen Airbus  Eike Stumpf RWTH Aachen  Dieter Scholz HAW Hamburg  George Seyfang BAE Systems (ret.)
	<u>Discussion</u> - How to set up aircraft design studies which are of relevance for industry? - Which are the relevant targets? - How to assess the benefits of a novel design? - Are there new aircraft concepts for new operational concepts?	
11:00	Lunch	
12:00	<b>Collaborative MDO Methods</b>  Overall aircraft design optimization in industry: Which are the next challenges?  Multidisciplinary optimization of aircraft configurations: Which are the next challenges?  Novel MDO concepts  Aircraft design in distributed MDO environments: Is collaboration the next big challenge?	Thierry Lefebvre ONERA  Christopher Jouannet SAAB  Gerd Schuhmacher CASSIDIAN  Jos Vankan NLR  Björn Nagel DLR
<b>TBV</b>	High dimensional multidisciplinary optimization: challenges and current opportunities  Towards coupling of different MDO systems	Roberto d'Ippolito NOESIS Solutions  Alexander Schneegans PACE GmbH
	<u>Discussion</u> - What is the state-of-the-art in Collaborative MDO which is applied in reality? - What are remaining and new challenges? - How to deal with rising non-technical challenges of collaborative MDO?	
14:15	Coffee break	

14:45	<b>Aircraft Design Studies 1 – The BoxWing</b>	Jan Vos CFS Engineering
	Introduction to the Prandtl Plane and activities of Uni Pisa	Aldo Frediani Uni. Pisa
	Configuration studies using the Design Engineering Engine	Gianfranco La Rocca TU Delft
	Aerodynamic studies of box wing configurations	Arthur Rizzi KTH Stockholm
	Design aspects of passenger BoxWing aircraft	Dieter Scholz HAW Hamburg
	<u>Discussion</u>	
	- What do we actually know about the BoxWing?	
	- What are remaining research questions?	
	- How can new research projects complement the existing studies?	
16:30	Coffee break	
17:00	<b>Aircraft Design Studies 2 – Towards High Fidelity in OAD</b>	Gianfranco La Rocca TU Delft
	Multidisciplinary optimization of strut braced configuration using high fidelity tools	Gerald Carrier ONERA
	Towards HiFi Optimization of Truss-Braced Wing Configurations via CPACS	Ke-Shi Zang NPU
	Development of new aircraft design semi-empirical methodologies through CFD analysis	Fabrizio Nicolosi Uni. Napoli
	Aeroelastic design studies of strut braced configurations	Sergio Ricci Poli. Milano
	Systems models in aircraft design optimization	Ingo Stack Linköping University
	<u>Discussion</u>	
	- How much do we know about strut braced wings for transport aircraft?	
	- Which disciplines need to be considered on which level of fidelity?	
	- How can we move towards higher levels of fidelity?	
	- How can new research projects complement the existing studies?	
19:30	<b>Get together</b>	
	Mingel (Light dinner)	

**Friday, 20.09.2013**

09:00	<b>Open Software Projects</b>	Petter Krus Linköping University
	CPACS data model and TIXI/TIGL libraries	Daniel Böhnke DLR
	RCE open source framework tool	Doreen Seider DLR
	OpenCDT open source conceptual design tool	Sven Ziemer Bauhaus Luftfahrt
	CEASIOM computerised environment for aircraft synthesis and integrated optimization methods	Arthur Rizzi KTH Stockholm
	NeoCASS conceptual aero structural sizing	Sergio Ricci Poli. Milano
	<u>Discussion</u>	
	- Which tools can be shared and do not need to be re-invented?	
	- Which functionalities are missing?	
	- How can we best create synergies between commercial and open tools?	
11:00	Coffee break	
11:30	<b>Towards the next European project on Overall Aircraft Design</b>	Lars Jörgensen Airbus
	<u>Discussion</u>	
	- Which should be the topics of the next large European project on aircraft design considering the results of NACRE and other projects such as CleanSky?	
12:30	<b>Terms of reference of the CEAS Technical Committee on Aircraft Design</b>	Thierry Lefebvre ONERA
	<u>Discussion</u>	
	- Way forward of the CEAS TCAD	
	- Agreeing the TCAD's terms of reference	
	- Planning of the next meeting	
13:00	Lunch	
14:00	<b>End of symposium</b>	