



MDO PhD day - 21 November 2019 - ISAE-SUPAERO

Time	Session	Title	Presenter
<i>08:30 – 09:00</i>	<i>Arrival & Coffee</i>		
09:00 - 09:10	Welcome & Introduction		Grégoire Casalis (ISAE – SUPAERO)
09:10 - 09:30	MDO Applications Chair: T. Lefebvre	“Exploration of a Blended Wing-Body concept featuring distributed electric propulsion with gradient optimization techniques”	Alessandro Sgueglia (ONERA / ISAE - SUPAERO)
09:30 - 09:50		“Multidisciplinary Design Optimization of a Reusable Lunar Vehicle “	Laurent Beauregard (ICA / ISAE - SUPAERO)
09:50- 10:10		“MDO for representative sub-scale flight Testing”	Akshay Raju Kulkarni, Anne-Liza Bruggeman (TUD)
10:10 - 10:30		“Tool path optimization for free form surfaces machining”	Mahfoud Herraz (ENAC /ICA)
<i>10:30 - 10:50</i>	<i>Coffee Break</i>		
10:50 - 11:10	MDO Aero-structure focus Chair: J. Morlier	“NeOPT: structural optimization in the conceptual design phase”	Francesco Toffol (POLIMI)
11:10 - 11:30		“HALE multidisciplinary design optimization with focus on Eco-Material selection”	Edouard Duriez (ISAE - SUPAERO)
11:30 – 11:50		“Transonic flight and movables loads modelling for preliminary aeroservoelastic MDO of a wing box”	Paul Lancelot (TUD)
11:50 – 12:10		“Some computational aspects of active flutter suppression for co-design”	Emeline Faisse (ISAE – SUPAERO / AIRBUS)
12:10 – 12:30		“High-fidelity aerodynamic shape optimization of wind turbine blades”	Mads Holst Aagaard Madsen (DTU)
<i>12:30 – 14:00</i>	<i>Lunch & Coffee</i>		
14:00 - 14:20	MDO Methods Chair: Y. Diouane	“Recent MDO Lab activities”	Neil Wu (UM - MDO Lab)
14:20 - 14:40		“Optimizing System Architectures by Leveraging Collaborative MDO”	Jasper Bussemaker (DLR)
14:40 - 15:00		“Inclusion of discrete technological choices in design optimization process within a Bayesian framework”	Julien Pelamatti (ONERA)
15:00 - 15:20		“On a feasibility criterion for aircraft efficient global multidisciplinary optimization”	Rémy Priem (ONERA / ISAE - SUPAERO)
15:20 - 15:40		“Robust multidisciplinary design optimization applied to long range aircraft under operational uncertainty”	Nicolas Peteilh (ENAC)
15:40 - 16:00	Conclusion		J. Morlier (ISAE – SUPAERO)
<i>16:00</i>	<i>Coffee Break</i>		
<i>16:30</i>	<i>End of the Day</i>		