

**Invitation for the bachelorendpresentations
on Friday, 19th May 2017 0800-1730
ETH Zentrum, LEE E 308**

A. Electro-Mechanical Material Systems					
08:00 - 08:20	Felix Kieser	BT	Construction and test of an EBL-based adaptive beam		Oleg Testoni
B. Aerospace Structures					
08:20 - 08:40	Fabian Wiesemüller	BT	Lightweight Design of Airborne Wind Energy Aircraft		Dominic Keidel
08:40 - 09:00	Renato Canonica	BT	Optimal design of skin laminate for a AWE aircraft		Dominic Keidel
09:00 - 09:20	Leo Baumann	BT	Fabrication of a camber morphing wing for AWE applications		Dominic Keidel
09:20 - 09:40	Oliver Wild	BT	Aeroelastic analysis of a passive load alleviation wingtip		Urban Fasel
09:40 - 10:00	Andreas Michalski	BT	Aeroelastic Flight Tests of an AWE Wing		Urban Fasel
10:00 - 10:20	Break / Time for Discussion				
10:20 - 10:40	Moritz Wüthrich	BT	Integration of the SeatCase adapter into an airplane floor		Oleg Testoni
10:40 - 11:00	Manuel Gerold	BT	Evaluation der optimalen Materialkombination des SeatCase für verschiedene Businessmodelle		Oleg Testoni
11:00 - 11:20	David Häusermann	BT	Design and optimization of an insert for airplane cabin floor applications		Christoph Karl
11:20 - 11:40	Valentin Grosjean	BT	Adaptation of a multifunctional airline seating system to alternative transportation systems		Christoph Karl
11:40 - 12:00	Benjamin Schacher	BT	Design and optimization of a sandwich insert for a folding airline seat backrest		Christoph Karl
12:00 - 12:20	Denis Patronic	BT	Validation of a tool for the preliminary design of compression-loaded cylindrical composite structures		Christoph Karl
12:20 - 13:00	LUNCH				

C. Composite Materials and Processing

13:00 - 13:20	Filippo Kusch	BT	Mechanical Characterization of Extruded Thermoplastic Composite Rods	Christoph Schneeberger
13:20 - 13:40	Fabian Tischhauser	BT	Novel Interlocking System for Free Standing Composite Lattice Architectures in Intersecting Regions	Christoph Schneeberger
13:40 - 14:00	Simon Schönenberger	BT	Design, Fabrication and Mechanical Testing of Ultra-Lightweight Structures	Martin Eichenhofer
14:00 - 14:20	Yannick Hauswirth	BT	3D Printing of Carbon Fibre Composite: Cost Analysis and Comparison to State of the Art Manufacturing Technologies	Martin Eichenhofer
14:20 - 14:40	Pascal Müller	BT	Implementation of a 3D Parametric Design Model for an Ultra-Lightweight Lattice Structure	Martin Eichenhofer
14:40 - 15:00	Nikola Vulin	BT	Investigation of thermodynamic processing effects in the CLF extrusion process	Martin Eichenhofer
15:00 - 15:20	Break / Time for Discussion			

D. Computational Structural Mechanics / Other

15:20 - 15:40	Dominic Cueni	BT	Stress channeling and temperature effects in curved composite laminates	Claudia Thurnherr
15:40 - 16:00	Andreas Walker	BT	Design Improvement Using Topology Optimization	Gerald Kress

E. Inspire / Others

16:00 - 16:20	Dario Milano	BT	Entwicklung einer Leichtbaustruktur für ein Elektro-Skateboard	Markus Zogg
16:20 - 16:40	Matthias Groner	BT	Charakterisierung von alternativen Fasern für effiziente Faser-Hybrid-Leichtbaustrukturen	Markus Zogg
16:40 - 17:00	Paul Prantl	BT	Particle Damping of a Ski	Chesa Llaquet Oscar
17:00 - 17:10	Theresa Eggler	BT	An experimental parameter study on the mechanical properties of patched laminates	Ralph Kussmal
17:10 - 17:30	Break / Time for Discussion			