PROGRAMME FOR ISMEM 2017

Meeting Room S09, DTU Meeting Centre
Technical University of Denmark
Building 101A
Anker Engelunds Vej 1
DK-2800 Kgs. Lyngby

8 November 2017

Time	Speaker	Title
8.45 - 9.00	**Welcome and coffee**	
9.00 - 9.30	Henrik Stang	**CASMaT: The Villum Center for Advanced Structural and Material Testing**
	Sub-structure and component Testing, Chair: Bent F. Sørensen	
9.30 - 10.00	Arno van Wingerde, Margarita Glöckner	**KompZert: a step ahead on the road towards subcomponent testing for rotor blades**
10.00 - 11.30	Arash Farshidi, Søren Bundgaard, Christian Berggreen	Ground-Air-Ground (GAG) testing of disbonded honeycomb aircraft sandwich panels
	Pietro Sabbadin, Christian Berggreen, Brian Nyvang Legarth	Development of a mode I/II/III test fixture for sandwich face/core fracture characterization
	Stergios Goutianos, Leonardo Di Crescenzo, Malcolm McGugan, Bent F. Sørensen	Specimen design and instrumentation for monitoring fatigue crack growth initiating at ply drops
	Vishnu Saseendran, Christian Berggreen	On Fracture Testing of Sandwich Face/Core Interface using the DCB-UBM Methodology in Fatigue
	Vasileios Karatzas, Mohsen Rezaei, Pierrick Mindykowski, Thomas Hulin, Grunde Jomaas, Christian Berggreen	Testing sandwich composites under thermomechanical loading at different scales – a discussion
11.30 - 13.30	**Lunch and Lab visit**	
	Hybrid and Full Scale Testing, Chair: Henrik Stang	
13.30 - 14.00	Shawn S. You, X. Shawn Gao	**Hybrid simulation combined with fatigue testing method**
14:00 - 15.30	Jacob Paamand Waldbjørn, Christian Berggreen	Single Component Hybrid Simulation on a Wind Turbine Blade
	Alex R. Quinlan	Understanding Fatigue of Fiber Reinforced Polymers through Hybrid Simulation and Multi-scale Testing and Modeling
	Malo Rosemeier, Moritz Bätge, Alexandros Antoniou	A novel single actuator test setup for combined loading of wind turbine rotor blade sub-components
	Kim Branner, Sergey Semenov, Peter Berring, Steen Hjelm Madsen	Full-scale structural testing at DTU Large Scale Facility
	Xiao Chen	Structural degradation of a large composite wind turbine blade in a full-scale fatigue test
18.00	**Dinner** Brede Spisehus, I.C. Modewegs Vej 40, 2800 Kgs. Lyngby	

9 November 2017

9.00 - 10.00	Ole Thybo Thomsen	**Towards a new paradigm for high-fidelity testing and integrated multi-scale modelling of composite substructures and components** **Part 1**
	Janice Dulieu-Barton	**Towards a new paradigm for high-fidelity testing and integrated multi-scale modelling of composite substructures and components** **Part 2**
10.00 - 10.30	**Coffee break**	
10.30 - 12.00	Mohsen Rezaei, Mads Borgnæs, Christian Berggreen	Multi-scale testing of composite steel interfaces for blade root bushing connections
	Timothy M Harrell, Ole Thybo Thomsen, Janice M. Dulieu-Barton	Hybrid multiscale modelling to predict lightning damage on CFRP materials
	Mehrtash Manouchehr, Christian Berggreen, Joachim Holbøll	Experimental study of the effect of high electric voltage on the fatigue life of glass fiber composites
	Alexandros Antoniou, Christian Ueing, Catherine Lester, Nils Englisch	A damage approach on the fatigue degradation mechanism of biaxial Glass/Epoxy laminates
12.00 - 13.00	**Lunch**	

13.00 - 14.30	Oscar Castro, Paolo Carraro, Lucio Maragoni, Marino Quaresimin	Fatigue damage evolution of unidirectional glass/epoxy composites
	Freja N. Sjøgreen, Stergios Goutianos	Challenges in experimental fatigue testing of glass-fibre reinforced polymer matrix composites for wind turbine industry
	Ulrich Andreas Mortensen	Fatigue damage in non-crimp fabric composites subjected to cyclic bending load
	Ilja Koch, Gordon Just, Maik Gude	Discussions on the influence of residual stresses to the fatigue of layered polymer composites
	Kristine M. Jespersen, Lars P. Mikkelsen	Investigating 3D fatigue damage progression in fibre composites by combing X-ray tomography with trans-illuminated white light imaging
14.30 - 15.00	**Coffee break**	
15.00 - 16.30	Morten S. Andersen, Christian Ertel	Concrete compression fatigue - Design rules and focus areas for testing
	Jens Peder Ulfkjær	Low Cycle Fatigue of Ultra High Performance Concrete
	Asmus Skar, Peter Noe Poulsen, John Forbes Olesen	Cyclic cohesive model for fatigue crack growth in concrete
	Alexander Michel	Corrosion fatigue – need for further research?
	Rasmus Normann Wilken Eriksen, Christian Berggreen	Blast testing of high strength steel and composite panels – ongoing work