

Programme for the Risø International Symposium 2018

Monday 03 Sep 2018

09:00	Registration		
09:25	Opening		
09:30	Invited paper	Torben Krogsdal Jacobsen	Scaling fatigue from materials to blades
10:20	Paper	Hans Lilholt	Wind energy and composite materials at Risø
10:45	Coffee break + fruit		
11:15	Invited paper	Andreas Brunner	Scatter, Scope and Structures: What fatigue fracture testing of fiber polymer composites is all about
12:05	Paper	Felipe Parise Garpelli	Structural Behavior of Secondary-Bonded Composite Joints Subjected to Mode II Fatigue Induced Delamination
12:30	Paper	S. Goutianos	Measurement of delamination fatigue crack growth rate emanating from ply-drops
12:55	Paper	Jens Kjær Jørgensen	A micromechanical model of fiber bridging including effects of large deflections and fracture in the bridging fibers
13:20	Lunch		
14:20	Invited paper	Georg Adolphs	Effect of fibres, interfaces, fabrics on fatigue properties
15:10	Paper	Marco Aurelio Miranda Maduro	Influence of processing parameters on the build of residual stresses and consequent effect on the fatigue life of fiber reinforced composites
15:35	Coffee break + fruit		
15:50	Paper	Fracisco Lahuerta	Manufacturing curing cycles influence on local shear, interfacial and interlaminar fracture toughness properties of a thick composite laminate
16:15	Paper	Ulrich Andreas Mortensen	Practical approach to cure optimization for improved fatigue performance of thermoset matrix composites
16:40	Discussion	Povl Brøndsted	Scale effects in composite materials / structures
17:30	Reception in the lobby of the Niels Bohr auditorium		

Tuesday 04 Sep 2018

09:00	Invited paper	Lars P. Mikkelsen	Observation of microscale fatigue damage mechanisms
09:50	Paper	Janis Varna	Common features of intralaminar cracking in tensile quasi-static and cyclic loading
10:15	Paper	Yosuke Ueki	Stiffening behaviour of unidirectional flax fibre/epoxy composites exposed to fatigue and creep loading
10:40	Coffee break + fruit		
11:20	Invited paper	John Michopoulos	Multiaxial and multiscale implications of dissipative behavior on structural design
12:10	Paper	Marc Möller	Investigation on multiaxial strength reduction for multi-directional laminates under variable amplitude loading
12:35	Paper	Kristine Munk Jespersen	Damage mechanisms of directly bonded carbon fibre reinforced thermoplastics and aluminium with nanostructured surface
13:00	Lunch		
14:00	Invited paper	Soraia Pimenta	Predicting damage accumulation and fatigue life of UD composites under longitudinal tension
14:50	Paper	Bent F. Sørensen	Prediction of fatigue limit for unidirectional carbon fibre/epoxy composites
15:15	Coffee break + fruit		
15:30	Paper	Paolo Andrea Carraro	Fatigue behaviour of infused and autoclave-moulded glass/epoxy laminates in the presence of manufacturing-induced voids
15:55	Paper	Amjed Saleh Mahmood	Process-property-performance relationships in CFRP composites using fractal dimension
16:20	Discussion	Lars P. Mikkelsen	In-plane fatigue (tension, compression, tension-compression)
17:05	Break		
17:20	Bus leaving Risø		
17:30	Roskilde CATHEDRAL		
18:30	Dinner at the restaurant Rådhus Kælderen		

Wednesday 05 Sep 2018

09:00	Invited paper	René Alderliesten	Delamination fatigue of composite materials – approaches for accounting for large scale fibre bridging
09:50	Paper	John Botsis	The effects of scale on delamination of carbon epoxy composites under monotonic and fatigue loads
10:15	Paper	Søren Wahlgren	Cyclic delamination of a glass fiber composite exhibiting large-scale bridging
10:40	Paper	E. Lindgaard	Recent developments on simulation of fatigue-driven delamination in 3D composite structures
11:05	Coffee break + fruit		
11:45	Invited paper	Yosuke Ueki	High-speed bending fatigue testing of composite materials
12:35	Paper	Siyuan Yao	Tension-compression fatigue behavior of 3D woven composites
13:00	Lunch		
14:00	Paper	Samuli Korhikoski	Tensile-tensile fatigue testing and fatigue properties of quasi-unidirectional non-crimp fabric reinforced glass-fibre/epoxy laminates
14:25	Discussion	Bent F. Sørensen	Delamination in fatigue: crack growth rate, effect of fibre bridging
15:25	Coffee break + fruit		
16:00	Paper	Peter Horst	Very High Cycle Fatigue - Testing Methods
16:50	Paper	Carl Wolf	Development of a novel testing device for fabric reinforced carbon fibre composites under cyclic biaxial load applications
17:15	Paper	Aakash Moncy	Sensitivity of crack density to scale effects in GFRP laminates
17:40	Closing		
17:45	Break		
18:00	Tour at Risø		