	Wednesday 11 December 2019							
Start	End	Type	Session title	Presenter	Presentation title			
8h00	8h50	Registration						
8h50	9h00	Opening words						
9h00	9h40	Keynote Larissa Gorbatikh		Larissa Gorbatikh	FiBreMoD project: designing novel composite microstructures and applications			
9h40	10h00	Oral		Carol Rodricks	Strength and toughness tuning of fibre-reinforced composites through interfacial topographical obstacles			
10h00	10h20	Oral	Interface	Wei Li	Fracture toughness determination of polymeric matrix materials with TDCB specimens and its validation by simulation and VCCT			
10h20		Oral		Usman Sikander	Surface modification of UHMWPE fibres with Ar-O2 plasma treatment			
10h40			Break					
11h05	11h25	Oral		Sina AhmadvashAghbash	Numerical analysis of the effect of interfacial parameters on longitudinal fibre-matrix debonding			
11h25	11h45	Oral		Frederik Van Loock	A shear transformation zone model to predict the deformation and failure of glassy polymers in fibre reinforced composites			
11h45	12h05	Oral	Matrix and fibres	Lucien Laiarinandrasana	Comparative study of voiding and failure modes in thermoplastics and thermosetting matrices in fibre reinforced composites			
12h05	12h25	Oral		Ali Kandemir	Natural fibres as raw materials for sustainable aligned discontinous fibre composites			
12h05	12h45	Oral		Zainab Al-Maqdasi	Functional cellulose fibers for smart composites			
	12h45 13h45 Lunch							
13h45		Oral		Sarah Gayot	Relationships between processing parameters, mechanical and chemical properties of thick glass fibre reinforced thermoplastic methacrylic composites			
14h05		Oral	al Processing and characterisation al	Luca Martulli	Variability of strand-based sheet moulding compounds as failure determinant			
14h25	14h45	Oral		Babs Van De Voorde	Recycled carbon fibre reinforced PET as feed for additive manufacturing for optimal composite performance			
14h45	15h05	Oral		Luis Amorim	Two different interleaving approaches to mitigate impact damage propagation on carbon/epoxy laminates			
15h05	15h25	Oral		Torquato Garulli	Fully-uncoupled multi-directional delamination specimens: a preliminary validation			
15h25	5h25 15h50 Break							
15h50	16h10	Oral	Oral Oral Bio-inspired and hybrid composites Oral	Veronica Rodriguez Garcia	Manufacturing and characterization of bioinspired CFRP			
16h10		Oral		Stepan Lomov	Hybrid effect in critical energy release rates in all-carbon interlayer unidirectional fibre-hybrids			
16h30	16h50	Oral		Jose Manuel Guerrero	A micromechanical progressive failure model for predicting the tensile failure and damage development in hybrid unidirectional composite materials			
16h50	17h10	Oral		Mir Mohammad Badrul Hasan	Fibre hybrid composites consisting of discontinuous waste carbon fibre and continuous glass filaments with improved impact strength			

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Start End	Туре	Session title	Presenter	Presentation title					
9h00 9h40	9h00 9h40 Keynote		Yentl Swolfs	Second benchmarking exercise for longitudinal tensile failure of UD composites: overview and first results					
9h40 10h00	Oral		Anna Matveeva	Material engineering for composites across scales and physics					
10h00 10h20	Oral	Models of different scales	Traian Dumitrica	Distinct element method (DEM) for fibrous composites: toward computational guided manufacturing					
10h20 10h40	Oral		Ali Khodayari	What holds cellulose nano-fibrils together?					
10h40 11h05		Break							
11h05 11h45	Mini-orals								
11h45 12h20	Posters	· ·							
12h20 13h20	12h20 13h20 Lunch								
13h20 13h40	Oral	Unidirectional composites	Fabio Malgioglio	A machine learning inspired approach to predict the longitudinal tensile failure in unidirectional composites					
12h05 14h00	Oral		Mostafa Barzegar	Effects of dynamic failure and local peak stress in UD composites					
14h00 14h20	Oral		Paolo Carraro	Fibre-related damage in unidirectional composites under cyclic tension loadings					
14h20 14h40	Oral		Bent Sorensen	Prediction of a fatigue limit of unidirectional fibre composites					
14h40 15h00	Oral		Abir Mejdoub	Compressive failure of fiber reinforced unidirectional composites: experimental approach and finite element analysis					
15h00 15h20				Break					
15h20 15h40	Oral	Dedicated characterisation and modelling	Yuan Chai	Synchrotron X-ray computed tomography study of braided composite tubes under torsion					
15h40 16h00	Oral		Martinus Putra Widjaja	The effect of input properties to the predicted failure of a type IV composite pressure vessel using a multiscale model					
16h00 16h20	Oral		Alp Sik	Development of a modeling strategy to improve the embedded element method in composites modeling in case of matrix nonlinearity					
16h20 16h40	Oral		Keerti Krishna Parvathaneni	Automated RVE generator of realistic voids for 3D textile composites manufactured by RTM					
16h40 17h00	Oral		Arsen Melnikov	Influence of stitching on the tensile strength of unidirectional non-crimp fabric composites: investigation using multi-scale fibre bundle strength mode					