

FiBreMoD School

9-10 December 2019, Leuven, Belgium

Monday, 9th of December 2019

Registration and lunch	12h00-13h30
Fibre, matrix and interfacial characterisation	
Sebastien Joannès (Mines ParisTech): <i>"Introduction to the science of fibres: From statistical nature to mechanical properties"</i>	13h30-14h20
Faisal Islam (Mines ParisTech): <i>"Testing and characterization of fibres to assess failure strength distribution"</i>	14h20-14h45
Christian Breite (KU Leuven): <i>"Mechanical characterisation of thermoset resins for composite applications"</i>	14h45-15h10
Coffee break	15h10-15h45
Daniel Wagner (Weizmann Institute of Science): <i>"A short tutorial about interface mechanics in fiber composites"</i>	15h45-16h35
Carol Rodricks (Weizmann Institute of Science): <i>"Characterisation of interfacial properties in model fibre composites"</i>	16h35-17h00
Welcome reception with a wide selection of Belgian beers	17h00-20h00

Tuesday, 10th of December 2019

Modelling composite behaviour	
Yentl Swolfs (KU Leuven): <i>"Failure development in longitudinal tension of unidirectional composites"</i>	8h45-9h35
Marco Alves (Imperial College London): <i>"On the fatigue of unidirectional composites: modelling approaches"</i>	9h35-10h00
Francisco Mesquita (KU Leuven): <i>"Modelling the longitudinal failure of fibre-hybrid composites"</i>	10h00-10h25
Coffee break	10h25-10h50
Silvestre Pinho (Imperial College London): <i>"Development of failure criteria & multiscale failure simulation of CFRP structures"</i>	10h50-11h40
Paula Martinez (Siemens Digital Industries Software): <i>"Towards Integrated Computational Materials Engineering (ICME)"</i>	11h40-12h30
Lunch	12h30-13h30
Recycling	
Soraia Pimenta (Imperial College London): <i>"Recycling carbon-fibre composites"</i>	13h30-14h20
Composite characterisation and experimental validation	
Ian Sinclair (University of Southampton): <i>"Developments, opportunities and challenges in the application of X-ray computed tomography to composite materials studies"</i>	14h20-15h10
Erich Schöberl (University of Southampton): <i>"Application of digital volume correlation to composite materials"</i>	15h10-15h45
Coffee break	15h45-16h10
Ashok Rajpurohit (Chomarat): <i>"Fiber-hybrid composites: processing and characterization of textiles and composites"</i>	16h10-16h35
Lorenzo Mencattelli (Imperial College London): <i>"Damage tolerant composite structures: challenges, design strategies and applications"</i>	16h35-17h00