

day 1 (Oct. 09, 2018)

12:00 - 13:00	coffee (foyer to rooms A1.19 and A1.20)	
	room A1.20: plenary session	
13:00 - 13:30	welcome address	
13:30 - 14:10	keynote <u>J. Albinger</u> , A.K. Weiß, M. Wolff (MT Aerospace AG) Development of a differential composite booster case including a structural bonding	
14:10 - 14:40	coffee break (foyer to rooms A1.19 and A1.20)	
	room A1.20: material models and effective properties	room A1.19: experimental methods for advanced models
14:40 - 15:00	<u>J. Bold</u> : Composite Simulation: a new type of material model and failure criteria?	<u>K. Tschöke</u> , T. Gaul, B. Weihnacht, L. Schubert: Modelling composites for structural health monitoring systems using acoustic ultrasonic methods
15:00 - 15:20	L. Faksa, W. Daves, W. Ecker, <u>T. Kaltenbrunner</u> , C. Czetti: Modeling of the residual stress evolution in coated cemented-carbide tools during manufacturing	<u>M. Schober</u> , Z.M. Abdul Hamid, S. Fliegner, P. Gumbsch, J. Hohe: Characterization of fiber-matrix interface strength using micro tensile experiments
15:20 - 15:40	<u>Z.M. Abdul Hamid</u> , M. Gall, J. Hohe: A material model for fatigue degradation and damage in composite materials	<u>W. Weglewski</u> , M. Basista, M. Krajewski, K. Bochenek: An unusual grain size effect in measurements of thermal residual stress in alumina-chromium composites – explanation by modelling
15:40 - 16:00	<u>W. Bielski</u> , R. Wojnar: Conductivity of a two-dimensional two-component structure	<u>J. Lienhard</u> , F. Huberth, P. Stadtmüller, B. Ragupathi: High strain rate micro testing on long glass fiber reinforced thermoplastics
16:00 - 16:20	<u>M. Pletz</u> , S.G. Nagaraja, C. Schuecker: Constitutive modelling of anisotropic plasticity with application to fiber-reinforced composites	<u>O. Saburow</u> , F. Henning: Damage and viscoelasticity of SMC Materials: testing, modelling and parametrization
16:20 - 16:40	<u>F. Welschinger</u> , J. Köbler, H. Andrä, R. Müller, M. Schneider, S. Staub: Efficient multiscale methods for viscoelasticity and fatigue of short fiber-reinforced polymers	<u>A. Jackstadt</u> , W.V. Liebig, S. Galkin, V. Sessner, K.A. Weidenmann, L. Kärger: A multi-scale approach for the virtual characterization of transversely isotropic viscoelastic materials in the frequency domain
16:40 - 17:10	coffee break (foyer to rooms A1.19 and A1.20)	
	room A1.20: plenary session	
17:10 - 17:50	keynote A. Jung, S. Diebels (Universität des Saarlandes) Multi-scale characterisation and modelling of cellular materials	
	downtown: evening program	
19:00 - 20:00	guided city walk	
20:00 - 23:00	conference dinner (location to be announced)	

day 2 (Oct. 10, 2018)

room A1.20: plenary session

08:30 - 09:10	<p>keynote  <u>I. Vladimirov</u>, A. Fischersworing-Bunk (MTU Aero Engines AG)                      Material and structural modelling aspects of fiber-reinforced ceramic materials in aircraft engines</p>	
09:10 - 09:40	<p>coffee break (foyer to rooms A1.19 and A1.20)</p>	
	<p>room A1.20: multiscale analysis and scale-bridging</p>	<p>room A1.19: mean field approaches and effective properties</p>
09:40 - 10:00	<p><u>S. Nosewicz</u>, J. Rojek, K. Wawrzyk, P. Kowalczyk, G. Maciejewski, M. Maździarz: Multiscale modeling of sintering process of mixture of two-phase powder</p>	<p><u>P. Sadowski</u>, K. Kowalczyk-Gajewska, S. Stupkiewicz: Efficient and robust incremental Mori-Tanaka scheme for finite-element modeling of elastoplastic composites</p>
10:00 - 10:20	<p><u>V. Wittner</u>, C. Morin, C. Hellmich: Hierarchical elastoplasticity of bone</p>	<p><u>P. Lenz</u>, R. Mahnken: Damage simulation of fibre reinforced composites using mean-field homogenization methods</p>
10:20 - 10:40	<p><u>F.A. Gilabert Villegas</u>: Modelling different scales and challenges of composite material research at Ghent University</p>	<p><u>F. Dillenberger</u>, S. Kolling, J. Schneider: An approach for the mechanical modelling of short fibre reinforced thermoplastics (SFRTTP)</p>
10:40 - 11:00	<p>C. Beckmann, <u>J. Hohe</u>: Probabilistic multiscale analysis of foam core sandwich structures</p>	<p><u>L. Parashkevova</u>, L. Drenchev: A new variant of differential effective medium theory for mechanical properties assessments of as-cast light alloys</p>
11:00 - 11:20	<p><u>B. Coto</u>: Molecular modelling of interfacial properties of epoxy matrix reinforced with functionalized carbon nanotubes</p>	<p><u>A. Hashibon</u>: European Materials Modelling Council</p>
11:20 - 11:50	<p>coffee break (foyer to rooms A1.19 and A1.20)</p>	
	<p>room A1.20: plenary session</p>	
11:50 - 12:30	<p>keynote  <u>E. Baranger</u> (LMT Cachan)                      Strategies to enrich macroscopic models, application to ceramic matrix composites</p>	
12:30 - 12:45	<p>concluding remarks</p>	
12:45 - 14:00	<p>lunch buffet (foyer to rooms A1.19 and A1.20)</p>	