



ECCM20 – DETAILED CONFERENCE PROGRAM

22/06/2022





Time Rooms

08:00		TUESDAY 28/06/2022										
Registration desk open		Cloud C	Garden 1	Garden 2	Garden 3	Garden 4	Garden 5	Garden 6	Garden 7	Garden 8	Garden 9	Garden 10
08:30		Plenary Lecture 2 Alexander Krummer - rvs composites summary Gemil Composites going in circles - engineering composites for sustainability										
09:15		C85 - Automotive applications (M. Akramo, I. Schleich)	G1.5 - Modeling prediction/Optimization (M. Fagerstrom, P. Camanho)	G2.5- Bio composites (S. Grammatikos, A. Porras)	G3.5-Additive manufacturing (L. Pyk, G. Wikman)	G4.5-Property characterization (A. Pagoretti, A. Bernasconi)	G5.5-Adhesive joining (T. Valke, J. Correira)	G6.5-Frontal Polymerization (M. Wollfarth, P. Geidel)	G7.5-Textiles (S. Lovrov, V. Carvill)	G8.5-Polymers and Polymer composites - mechanical characterization (N. Barikoula, S. Tsamirli)	G9.5-Modeling prediction/Fracture mechanics (A. Turon, V. Loukoudimos)	G10.5-Modeling prediction/Machine learning (R. Bedi, S. Coma Canes)
09:30		02712(Zengqiang Fu)	02713(Zengqiang Fu)	02714(Zengqiang Fu)	02715(Zengqiang Fu)	02716(Zengqiang Fu)	02717(Zengqiang Fu)	02718(Zengqiang Fu)	02719(Zengqiang Fu)	02720(Zengqiang Fu)	02721(Zengqiang Fu)	02722(Zengqiang Fu)
09:45		02723(Zengqiang Fu)	02724(Zengqiang Fu)	02725(Zengqiang Fu)	02726(Zengqiang Fu)	02727(Zengqiang Fu)	02728(Zengqiang Fu)	02729(Zengqiang Fu)	02730(Zengqiang Fu)	02731(Zengqiang Fu)	02732(Zengqiang Fu)	02733(Zengqiang Fu)
10:00		02734(Zengqiang Fu)	02735(Zengqiang Fu)	02736(Zengqiang Fu)	02737(Zengqiang Fu)	02738(Zengqiang Fu)	02739(Zengqiang Fu)	02740(Zengqiang Fu)	02741(Zengqiang Fu)	02742(Zengqiang Fu)	02743(Zengqiang Fu)	02744(Zengqiang Fu)
10:15		02745(Zengqiang Fu)	02746(Zengqiang Fu)	02747(Zengqiang Fu)	02748(Zengqiang Fu)	02749(Zengqiang Fu)	02750(Zengqiang Fu)	02751(Zengqiang Fu)	02752(Zengqiang Fu)	02753(Zengqiang Fu)	02754(Zengqiang Fu)	02755(Zengqiang Fu)
10:30		02756(Zengqiang Fu)	02757(Zengqiang Fu)	02758(Zengqiang Fu)	02759(Zengqiang Fu)	02760(Zengqiang Fu)	02761(Zengqiang Fu)	02762(Zengqiang Fu)	02763(Zengqiang Fu)	02764(Zengqiang Fu)	02765(Zengqiang Fu)	02766(Zengqiang Fu)
10:45		02767(Zengqiang Fu)	02768(Zengqiang Fu)	02769(Zengqiang Fu)	02770(Zengqiang Fu)	02771(Zengqiang Fu)	02772(Zengqiang Fu)	02773(Zengqiang Fu)	02774(Zengqiang Fu)	02775(Zengqiang Fu)	02776(Zengqiang Fu)	02777(Zengqiang Fu)
11:00		02778(Zengqiang Fu)	02779(Zengqiang Fu)	02780(Zengqiang Fu)	02781(Zengqiang Fu)	02782(Zengqiang Fu)	02783(Zengqiang Fu)	02784(Zengqiang Fu)	02785(Zengqiang Fu)	02786(Zengqiang Fu)	02787(Zengqiang Fu)	02788(Zengqiang Fu)
11:15		02789(Zengqiang Fu)	02790(Zengqiang Fu)	02791(Zengqiang Fu)	02792(Zengqiang Fu)	02793(Zengqiang Fu)	02794(Zengqiang Fu)	02795(Zengqiang Fu)	02796(Zengqiang Fu)	02797(Zengqiang Fu)	02798(Zengqiang Fu)	02799(Zengqiang Fu)
11:30		02800(Zengqiang Fu)	02801(Zengqiang Fu)	02802(Zengqiang Fu)	02803(Zengqiang Fu)	02804(Zengqiang Fu)	02805(Zengqiang Fu)	02806(Zengqiang Fu)	02807(Zengqiang Fu)	02808(Zengqiang Fu)	02809(Zengqiang Fu)	02810(Zengqiang Fu)
11:45		02811(Zengqiang Fu)	02812(Zengqiang Fu)	02813(Zengqiang Fu)	02814(Zengqiang Fu)	02815(Zengqiang Fu)	02816(Zengqiang Fu)	02817(Zengqiang Fu)	02818(Zengqiang Fu)	02819(Zengqiang Fu)	02820(Zengqiang Fu)	02821(Zengqiang Fu)
12:00		02822(Zengqiang Fu)	02823(Zengqiang Fu)	02824(Zengqiang Fu)	02825(Zengqiang Fu)	02826(Zengqiang Fu)	02827(Zengqiang Fu)	02828(Zengqiang Fu)	02829(Zengqiang Fu)	02830(Zengqiang Fu)	02831(Zengqiang Fu)	02832(Zengqiang Fu)
12:15		02833(Zengqiang Fu)	02834(Zengqiang Fu)	02835(Zengqiang Fu)	02836(Zengqiang Fu)	02837(Zengqiang Fu)	02838(Zengqiang Fu)	02839(Zengqiang Fu)	02840(Zengqiang Fu)	02841(Zengqiang Fu)	02842(Zengqiang Fu)	02843(Zengqiang Fu)
12:30		02844(Zengqiang Fu)	02845(Zengqiang Fu)	02846(Zengqiang Fu)	02847(Zengqiang Fu)	02848(Zengqiang Fu)	02849(Zengqiang Fu)	02850(Zengqiang Fu)	02851(Zengqiang Fu)	02852(Zengqiang Fu)	02853(Zengqiang Fu)	02854(Zengqiang Fu)
12:45		02855(Zengqiang Fu)	02856(Zengqiang Fu)	02857(Zengqiang Fu)	02858(Zengqiang Fu)	02859(Zengqiang Fu)	02860(Zengqiang Fu)	02861(Zengqiang Fu)	02862(Zengqiang Fu)	02863(Zengqiang Fu)	02864(Zengqiang Fu)	02865(Zengqiang Fu)
13:00		02866(Zengqiang Fu)	02867(Zengqiang Fu)	02868(Zengqiang Fu)	02869(Zengqiang Fu)	02870(Zengqiang Fu)	02871(Zengqiang Fu)	02872(Zengqiang Fu)	02873(Zengqiang Fu)	02874(Zengqiang Fu)	02875(Zengqiang Fu)	02876(Zengqiang Fu)

1400 Keynote Lecture 3 - Ignas Verpoest (KULeuven) Keynote Lecture 4 - Inma Partridge (Bristol) The history of composites: 1000+ years of creative innovations by paraservant scientists and engineers

1430 1435 1445 1515 1530 1600 Coffee break

1610 1630 1645 1700 1715 1730 1745 1760 1775 1790 1800 1815 1830 1845

General Assembly

Students event - Rolex Learning Center





**1400**  
**Keynote Lecture 5 - John Botis (EPFL)**  
Mechanisms and mechanics of delamination in layered composites

**Keynote Lecture 6 - Soralin Pinitera (Imperial College)**  
Hierarchical scaling laws for strength, durability and damage tolerance: applications across the

G.11-Hybrid Joints (T. Valle, S. Teixeira de Freitas)  
G.12-Characterization/Damage tolerance (C. Capoen, R. Garmette)  
G.13-Characterization/Damage tolerance (J. Botis, S. Kollén)  
G.4.1-Characterization/Durability (I. Sena-Cruz, Y. Moles)  
G.5.1-Life cycle performance/sustainability (S. Grammatikos, M. Budini)  
G.6.1-Natural and hybrid composites (L. Edrington, A. Levy)  
G.7.1-Polymers and Polymer Composites (A. Erdemir, A. Levy)  
G.8.1-Advanced manufacturing/automation (M. Ahraru, M. Taghizadeh)  
G.9.1-Modeling prediction/Computational methods (M. Hirsiger, K. Tanaka)  
G.10.1-Characterization/NDT (N. Gadin, G. Frasca)

1430		82451 (Joakim Järn, Rodrigo Garcia Oscar, Halala Pauli, Javanmohr Farzin, Kenzo Mikio) (Title) Bearing strength prediction by carbon and fiber composite damage onset criteria for riveted joints	82452 (Vitor Medeiros, Victor, Kazem Erfan, Erenenghuo Emile, Przemyslaw Fajon, Pedro Barro, (Title) Hierarchical modeling and fiber composite damage onset criteria for riveted joints	82453 (Saeid Moghaddam, Momen Stepan V., M. Riaz, Mehrdizhan Mahoor) (Title) CRACK DYNAMICS IN LAMINATED COMPOSITES USING HIGH-SPEED SPECTROSCOPY	82454 (Danilo Fedorico, Tavares Rodrigo Pava, Xavier José, Fátima Daniela, Camacho Pedro Pinotes) (Title) Effects of hybridization and carbon fiber thickness on carbon/carbon composites thermomechanical properties and toughness	82455 (Danilo Fedorico, Tavares Rodrigo Pava, Xavier José, Fátima Daniela, Camacho Pedro Pinotes) (Title) Improving the delamination behavior of 2-ply resin through material selection	82456 (Santana da Gue Eduardo, Alegre Guiliano, Zhang Bing, Harnilton Luis, Haites Raphael E. (Title) Improving the delamination behavior of 2-ply resin through material selection	82457 (Barrage Ali, Karim Ismail, Simeh Setir, Yildiz Mehmet) (Title) Investigating the effect of ply orientation on the surface thermal history of newly placed tape during thermomechanical composite manufacturing with AFP process	82458 (Vittorio Faroni, Martin Robert Henning, Ragner Luis, (Title) Fiber breakage modeling based on hydrodynamic forces in macroscopic injection molding simulations
------	--	---	---	---	---	---	---	--	---

1445	82503 (Eguchi Takashi, Ho Mikita, Nishiyu Kazuki) (Title) Investigation on fastening behavior and joining strength of UD-CF/PEEK rivet to metal matrix	82504 (Boucarat David, Cahat Mathieu, Veille Béné, Lévesque Martin, (Title) Analysis of time-dependent damage within carbon woven-glycyl reinforced thermoplastic composite laminates at high temperature	82505 (Uemura Sangeetha), Nollari Prasad, Shiv Shee Shankarban, Fernando Anas, (Title) Measurement of Carbon Fiber Torque Damage during Freezing from Electrochemical Impedance Spectroscopy	82506 (Ueda Masahito, Ichihara Noriki, Shirokura Tomohiro, Watanabe Takashi, Yuchiyama Yusaku, Ushiyama Yuta) (Title) The effect of filament winding arrangement on damage evolution in carbon fiber reinforced plastic for high-pressure hydrogen vessels	82507 (Rishard Amaratunga, Gerard Peries) (Title) THERMAL STABILITY OF ELUMAF RESIN AND ITS COMPOSITES	82508 (Duda Subrata Chandna, La Rosa Angela L, Kim Hak-Sung) (Title) Study on the effect of strain rate and temperature on the mechanical behavior of polypropylene-glass fiber composite and thermoplastic olefin	82509 (Sei-Wei Kim, Dong-Geung Han, Ji-Soo Kim, Hak-Sung) (Title) Study on the effect of strain rate and temperature on the mechanical behavior of polypropylene-glass fiber composite and thermoplastic olefin	82510 (Delfino Domina, Uskert Christian, Kromholz Christian, (Title) Efficient and component-specific fibre layer processes	82511 (Eun Yu-gwon), Park Dong-woon, Kim Hak-sung) (Title) Study on predicting electrical conductivity and percolation threshold of multi-walled carbon nanotube/epoxy composites using terahertz time domain spectroscopy
------	--	---	--	--	--	--	---	---	--

**Coffee break**

G.12-Modeling prediction/Computational methods (W. Van Paepen, G. Edrington)  
G.13-Fatigue of composites (G. Pinter, L. Marangù)  
G.13-Life cycle performance/Environmental impact (S. Grammatikos, V. Verpeest)  
G.4.2-Property characterization (A. Pagnetti, P. Camanho)  
G.5.2-Modeling prediction/Machine learning (R. Bedi, M. Budini)  
G.6.2-Polymers and Polymer composites (M. Gulin, G. Bötti)  
G.7.2-Polymers and Polymer composites, functional properties and sensing (A. Anvikah)G.8.2-Modeling prediction/Continuum damage (M. Ali, A. Turon)  
G.9.2-Modeling prediction/Optimization (K. Tsarpes, K. A. Katerdelis)  
G.10.2-European Technical Specification "Design of fibre-polymer composite structure" (T. Keller, J. Correia)

1630	<b>Council Meeting #2</b>	82473 (Pouromment Shah, Fatima Briza G) (Title) Property Effects on Stochastic Damage of Composites Subjected to Low-Velocity Impact Loads	82474 (SAPARU Wajid, NAD Umar, ABDURA BOVAZ, KARAGIANNOS, CARRERA FRONZO) (Title) On the use of the thermal and electrical signatures for the rapid estimation of the fatigue limit of Polymer Matrix Composites	82475 (Gina Anastasia, Petrali Fotini, Vyspidi Aescia, Karagiannis Panagiotis, Melean Sandy) (Title) Life Cycle Assessment and Life Cycle Costing on recycled post-industrial composite waste	82476 (Wuzur Stefan, Wengrich Helena, Souzouz Gabriela Izabela) (Title) Integrative material characterization of crystalline nanocellulose reinforced filaments for fused-fiber fabrication	82477 (Sakulnar Aravind, Mynireddy Jean, Raju Jay, Bavaa Miguel, Turso Albert) (Title) Generation of design allowances on the open hole tensile strength of composite laminates using sensitivity analysis and uncertainty quantification framework	82478 (Veretti Oliveri, Pappas George, Emma Pappas) (Title) Multiscale interface behaviour and performance of GF-CFRP composite COMPOSING SHAPED 3D WOVEN COMPOSITES USING FIBRE NANOPARTICLES	82479 (Shihui Prasad, Prasad Vaidyan, Vatselakrishna Datta) (Title) STRAIN SENSING OF COMPOSING SHAPED 3D WOVEN COMPOSITES USING FIBRE NANOPARTICLES
------	---------------------------	--	--	---	---	---	--	--

1645	83432 (Pantelidis Alexandros) (Title) The effect of modelling nanoparticle and nanotube variation on the representativity of nanocomposite volume elements	83433 (Laurikainen Pekka, O'Souza Boyron, Hakonen Anttoni, Sarin Essi, Kanerva Mikko) (Title) Micro-fatigue test: A new dimension towards a cyclic loading test for interface polymer composites: Durability assessment	83434 (Jeyaraj Govin Aji, Srinavasa Chaman, Pragasim Jose Fossan, Sunel Sose Aditya, Sravani Ana, Grammatikos Sotiris) (Title) Additive manufacturing of multilayered polymer composites: Durability assessment	83435 (Suzuki Susumu N, Bapista André Antonio T, Mariami L, Hamilton Jan, (Title) Material Design for excellence (IM-DM) - New methodological approach applicable to composite materials	83436 (Jou Yuntai, Zhou Junyi, Galim Gustavo, Pellegri Antonio, (Title) Experimental analysis of glass fibre reinforced nylon 6/6 under combined tension-torsion loading at low and high rates of strain	83437 (Scott Carl, Rhoad Andrew T., Butler Richard) (Title) Bayesian characterization of a finite element based panel model using experimental compression test data	83438 (Wang Congling, Vassilopoulos Anastasiou P., Keller Thomas, D'Almeida José Roberto Moraes) (Title) Studies of moisture absorption of GF/EP and epoxy systems exposed to marine environment	83439 (Shihui Gouwen, Keller Thomas, D'Almeida José Roberto Moraes) (Title) Numerical Simulation of Microscale Crack Propagation in Glass-Epoxy Composites Using Discrete Fibres, Matrix and Interface	83440 (Kang Kwang Mo), Yang Hyun-joon, Yoo Woong-yeol) (Title) Structural modeling of three-dimensional woven preform considering 3D propagation in Glass-Epoxy Composites Using Discrete Fibres, Matrix and Interface
------	--	---	---	--	--	--	--	--	--

1650	82486 (Sanderog Michael N, Hafid Wasop, Spangenberg Jon, (Title) A stream-line, integration technique for simulating build-up of process induced stresses and shape distortions in thermost pultrusion processes	82487 (Bridi Ramani, Singh Anshwari Kumar, (Title) Fatigue behavior of glass fiber reinforced composite laminates based on recycled PET	82488 (Sousa Susana B, Bapista André Antonio T, Mariami L, Hamilton Jan, (Title) Material Design for excellence (IM-DM) - New methodological approach applicable to composite materials	82489 (Trava Burak Ognel, Belgece Inanhan P, H, Longina Marcella L, Hamilton Jan, (Title) Tensile characterization of HiPCF/PAA/Carbon fibre tape under processing conditions	82490 (Welfare Johannes), Giermer Maria, Schneider Christian, Pinter Gerard, (Title) Density based clustering as a tool to analyse acoustic emission signals	82491 (Wang Ruihan, Turfado Samuel, Ayleyhook Martin, Rottler Prasad) (Title) Effect of Lightweight Fillers on the Properties of Polymer Concrete	82492 (Jin Hui, Li Suo, Han Jianjun, Wang Yequn, Wang Ben, Yao Xueliang) (Title) Understanding lightning strike induced damage behavior of Carbon Fiber Polymer Composites Based on its Dynamic Constitutive Properties	82493 (Sun Jintao, Li Suo, Han Jianjun, Wang Yequn, Wang Ben, Yao Xueliang) (Title) Failure criteria assessment for composite materials using micro-mechanics modeling under multiaxial loading conditions	82494 (Barrage Ali, Karim Ismail, Simeh Setir, Yildiz Mehmet) (Title) Investigating the effect of ply orientation on the surface thermal history of newly placed tape during thermomechanical composite manufacturing with AFP process	82495 (Dimitris Moutaris, Plets Martin, Schuecker Clara) (Title) Fatigue damage model for composite laminates based on a Mori-Tanaka formulation	82496 (Costa Raul O E S.), Pitha Shivraj T, (Title) A novel topology of structural methodology for robust design of multimaterial components considering material defects	82497 (Gonçalves António, Tavares Michel, Dayane Thomas, Kropien Jan, Matroan Toby, Pasinato Carlo, Sena-Cruz José) (Title) DESIGN OF FIBRE COMPOSITE STRUCTURES - EUROPEAN TECHNICAL SPECIFICATION OVERVIEW AND SCOPE	82498 (Fang Kwang Mo), Yang Hyun-joon, Yoo Woong-yeol) (Title) Structural modeling of three-dimensional woven preform considering 3D propagation in Glass-Epoxy Composites Using Discrete Fibres, Matrix and Interface	82499 (Correia João R), Pacheco João, Sorensen John D., Keller Thomas, Matroan Toby, Sena-Cruz José) (Title) Design of fibre-polymer composite structures - European Technical Specification: Basis of Design	82500 (Dimitris Moutaris, Plets Martin, Schuecker Clara) (Title) Fatigue damage model for composite laminates based on a Mori-Tanaka formulation	82501 (Dimitris Moutaris, Plets Martin, Schuecker Clara) (Title) Fatigue damage model for composite laminates based on a Mori-Tanaka formulation	82502 (Correia João R, O E S.), Pitha Shivraj T, (Title) A novel topology of structural methodology for robust design of multimaterial components considering material defects	82503 (Correia João R), Pacheco João, Sorensen John D., Keller Thomas, Matroan Toby, Sena-Cruz José) (Title) Design of fibre-polymer composite structures - European Technical Specification: Combined stress
------	--	---	---	---	--	---	---	--	--	--	---	--	--	---	--	--	--	---

**1930**  
**Gala Dinner STCC Campus**

Door opens at 19:30  
Dinner starts at 20:00

Time		Registration desk open											
08:00		Campus A	Cloud C	Garden 1	Garden 2	Garden 3	Thursday	Garden 5	30/06/2022	Garden 6	Garden 7	Garden 8	Garden 9
		<p>62143-[Smets Eva], Rans Calvin, Alderlesten René; (Title):Measurement of damage growth in ultrasonic spot welded joints</p> <p>62276-[Nafios Angelos], Gkourras Arsenios, N. Georgis Leonidas, S. Pappas Alkiviadis; (Title):Comparison of Pulsed, Pulse-Phase, Lock-in and Standard Deviation Thermography techniques for nondestructive evaluation of composite materials</p> <p>62267-[Ruiz Iglesias Rafael]; (Title):Surface and subsurface damage assessment of multi-directional composite laminates utilizing a full field imaging technique</p> <p>62101-[Ospitia Nicolas], Tsangouri Eleni, Pourkazemi Ali, Siens Johan H., Aggelis Dimitrios G.; (Title):Multimodal NDT monitoring of Textile Reinforced Cementitious Composite sandwich beams in bending</p> <p>61890-[Tao Nan], Anisimov Andrei, Ebenbas Marcel, Groves Roger; (Title):Shearography non-destructive testing of a composite ship hull section subjected to multiple impacts</p> <p>61847-[Jafsson Geri], Jack Tobý, Dulleu-Barton Janice; (Title):Assessment of complex structural scale composite structures by adapting thermoelastic stress analysis for 3D perspective imaging</p> <p>62122-[Moghimiadekani Ali], Ivers Jan, Willem van Vuure Aart; (Title):The effect of humidity on the mechanical properties of E-glass/polyester biocomposites with different fiber architectures</p> <p>61639-[Ram Farsa], Berglund Lars; (Title):Functionalized wood composites for mechanical energy harvesting and vibration sensing</p>											
		<p>62350-[GUILAUMAT Laurent], Manal Racha, Yerekhina Svetlana, Duriati Davy; (Title):Behaviour and repair of flux/Elium Biocomposites loaded in low velocity impact</p> <p>62493-[FERRIN Henri], SENOUSAOUI Noha-Lys, VALEDMONT Régis, KOUTSAMIA Yac; (Title):Experimental investigation and modelling of the morphology and induced thermal properties evolution by consolidation of flux Fibres hybrid reinforced thermoplastic composite</p> <p>62338-[PSUPATI Anung], LAURENT Thomas, LEROY Mathilde/PARK Chung Hae; (Title):Flax and self-reinforced PLA non-woven preforms for high performance and lightweight bioinspired composite materials</p> <p>62179-[Hartwig Marie], Gamstedt Kristofer, Wohliert Malin, Briot Corentin; (Title):On the flexural strength and actuation of wood branches – Mechanisms useful in composite design?</p> <p>61890-[Tao Nan], Anisimov Andrei, Ebenbas Marcel, Groves Roger; (Title):Shearography non-destructive testing of a composite ship hull section subjected to multiple impacts</p> <p>62139-[Ongaro Federica], Pugno Nicola; (Title):Mechanical modelling of viscoelastic hierarchical joint systems and their optimization and auxeticity</p> <p>62132-[Reichenbacher Rudi], Eschner Cindy, Eichhorn Julia, Groß Martin, Zornmel Markus, Scheffler Christina; (Title):Bio-based glass fiber filings for composites in medical and technical applications</p>											
		<p>62138-[Patena Sara], Schneider Johannes, Kumar Shanmugam, Böhm Robert; (Title):3D printed polymer nanocomposites engineered with graphene and metallic nanoparticles for optical detection of water pollutants</p> <p>62009-[Langenbach Jakob], Bakkaï-Hasani Camille, Poulter Quentin-Arthur, Georgopolou Antonia, Clemens Frank, Tournilhac Francois, Norvez Sophie; (Title):Self-healing vitrimer composites for soft robotics</p> <p>61886-[Georgopoulou Antonia], Eckey Louisa Marie, Vandenberght Bram, Clemens Frank; (Title):Soft carbon-based multi-sensory resistive receptors</p> <p>62420-[Li Kai-Young], Trompeter Bill, Amirpour Maedeh, Allen Tom, Bickerton Simon, Kelly Paras; (Title):Characterization of a soft magnetic composite for use in road-embedded wireless-charging systems</p> <p>62068-[Vareli Ioanna], Gkarakola Alkaterini, Pajpetis Alkiviadis S., Barkoula Nektaria-Marianthi; (Title):Thermoelectric OD/2D cement composites for future large-scale thermal energy harvesting</p> <p>61643-[Bengtsson Rhodol], Afshar Reza, Mousavi Mahmoud, Gamstedt E. Kristofer; (Title):Evaluating viscoelastic shear properties in clear wood via off-axis compression testing and digital image correlation</p> <p>62037-[ALTUNTAS IMIRZA OKAY/OZTURK GÜZÜHAN], KAHTI ALEXANDER, WAGNER CHRISTIAN, BÖHM ROBERT; (Title):Self-sensing properties of different carbon nanomaterial based composites for sustainable infrastructures</p> <p>62447-[Pupure Livia], Varma Janis, Galitis Rihards, Pakrastins Leonids, Al-Maqdasi Zainab; (Title):Development of methodology for experimental parameter identification for inelastic 3D material model</p>											
		<p>62319-[Amerson Gustaf], Lung Anna-Lena, Atomaki Yvonne, Lundström T. Staffan; (Title):3D flow and Fibre Orientation Modelling of Compression Moulding of A-SMC Simulation and Validation in Squeeze Flow</p> <p>62142-[Qian Connie], Yuan Hao, Khan Muhammad, Kendall Kenneth; (Title):Squeeze Flow of Carbon Fibre Sheet Moulding Compound in Compression Moulding</p> <p>62483-[Akay Erdem], Köhler Filipp, Fernandez Vilgas Irene; (Title):In-Situ Monitoring of Weld Line Thickness in Continuous Ultrasonic Welding of Thermoplastic Composites</p> <p>62184-[Gkaravela Alkaterini], Vareli Ioanna, Barkoula Nektaria Marianthi, Pajpetis Alkiviadis; (Title):MONITORING THE PROPERTIES OF CEMENT-BASED COMPOSITE MATERIALS WITH IMPEDANCE SPECTROSCOPY</p> <p>61893-[Ricardo Losada], Francisco Amedeo, Alberto Pedreira, Xabier Perez, Adrian Rodriguez, Celia Martin, Elena Rodriguez; (Title):FFF manufacturing of high performance thermoplastics. Crystallinity and mechanical properties linked to the processing parameters</p> <p>61893-[Varna Janis], Nunes Stephanie, Pupurs Andrejs, Emami Nazamin, Swar Roshan, Joffe Roberts; (Title):The effect of short carbon fibers on viscoelastic behavior of UHMWPE</p> <p>61676-[Gackowski Bartosz Mikolaj], Sharma Mohit, Idapalapati Srihar; (Title):Additive manufacturing of composite structures with integrated internal heating and damage sensing</p>											
		<p>62439-[König Richard], Spitzer Sebastian, Böhm Holger, Bätzel Tim, Rao Reyva Nitin, Gude-Maik; (Title):Ice hall stone impact testing of tailored fiber placed composite structural vanes for novel CFRP-TI intermediate cases of future jet engines</p> <p>62230-[Mihalic Matthias], Pretschuh Claudia, Lummerstorfer Thomas, Kissel Wolfgang; (Title):Physical and Chemical Foam Injection Moulding of Natural Fibre Reinforced Polypropylene Compounds with Controlled Mould Opening</p> <p>62279-[Thorn Thomas D.S.], Liu Yi, Biotti Emiliano, Peijs Ton, Zhang Han; (Title):Easy-repairing of high performance fibre reinforced composites with multiple healing cycles and integrated damage sensing</p> <p>61909-[Chappuis Selene], Tournilhac Francois; (Title):Design and formulation of epoxy-anhydride vitrimers for application in composites</p> <p>61734-[Varma Janis], Nunes Stephanie, Pupurs Andrejs, Emami Nazamin, Swar Roshan, Joffe Roberts; (Title):The effect of short carbon fibers on viscoelastic behavior of UHMWPE</p> <p>61640-[Fuchs Peter Filipp], Novak Philipp Michael, Lang Margit, Qi Tao, Zündel Julia, Gschwandl Mario, Antretter Thomas; (Title):Determining the influence of the Level of Detail in FEA Modeling on the Warpage Prediction of PCBs</p>											
12:30		Coffee break											
11:00		Albert Cardon Keynote - Yentl Swolfs (KU Leuven)											
11:15		Micromechanics of fibre-reinforced composites: challenges in experimental validation of numerical models											
11:30		Closing ceremony											
Thursday afternoon		14:00-16:00 Guided city tour with a sweet surprise											
Friday		All day (from 9:00 am-) Excursion in the Gruyere region with cheese and chocolate activity											



POSTER SESSIONS

Tuesday 28/06/2022

61379:Pedrina Estévez Alberto, Rodríguez Vázquez Adrián, Rodríguez Alonso Paula, Rodríguez Semín Elena (Title) Robotic additive manufacturing of continuous carbon fiber thermoplastic composites	62046:Kang Seung In, Yoo Jung Jae, Kim Min Byoung, Seong Dong Gi (Title) Developing a new type of fiber-reinforced composites manufacturing system: Multi-drop filling process	6180E:DIMOS EVANGELOS, D'ELIA RAFFAELLA, SAUCEAU MARTIAL, ESCOFFIER ROMAIN, QUIROGA CORTES LUIS, SANCHES LEONARDO, MICHON GUILLIEM (Title) Supercritical CO2 assisted foam extrusion for aeronautical sandwich structure manufacturing	61586:Loth Andrea, Förster Raff (Title) COMBIO - properties of a novel bamboo based honeycomb core material for composite sandwich structures	62468:Jimenez Martin Claudia, (Title) Time Resolved in-situ CT Scanning of Non-Crimp Fabric Forming
61988:Hiizad Muzaffar, Niha Shammii Sultana, Jithrom Fareed Tamazoud, Bodaghi Masoud, Akobabo Mohammad (Title) Iqin as a Green Additive for 3D Printing Applications	61537:Per Hallander, Tommy Granåll, Mikael Petersson, Main Akermo (Title) An engineering view of using research results to increase the design window and avoid manufacturing defects	62382:Schuster Julian, Chazregouss Lazarou (Title) Improving mechanical properties with AFP-based fiber architecture	62434:Gigante Vito, Alotta Laura, Molinari Giovanni, Ciancetti Roberto, Botta Luigi, Lazzeri Andrea (Title) Mechanical, rheological and thermal evaluation of Poly(Lactic Acid) (PLA) / Micro Fibrillated Cellulose (MFC) plasticized biocomposites produced with flat die extrusion and calendaring	62491:Salzmann Moritz, Schledgewald Raff, Feuchtmann Michael (Title) Using Near-Infrared Spectroscopy for quality inspection of prepregs before processing
61807:Anishevich Andrey, Zile Edmunds, Bulderberga Olga, Zelenakone Dava (Title) Mechanical characterization of some polymers used in 3D printing	61736:Yang Hyun Joon, Kang Yeoung Mo, Kim Doyoung, Yu Woong Ryoo (Title) A new 3D weaving method for three-dimensional woven fabric preforms	61741:Plat Romana, Deshpande Vinit Vijay (Title) Prediction of elastic properties of ceramic foam by creating artificial microstructures statistically equivalent to the real one	61924:Geiger Thomas, Geiger Christine K., Hoffmann Karim U., Nythron Gustav (Title) Printed Circuit Boards made from cellulose fibrils	62305:Jia Zhen, Pastor Marie-Laetitia, Garnier Christian, Huang Jia, Gong Xiaojing (Title) Rapid fatigue life prediction of CFRP laminates by combining the data of self-healing with stiffness degradation
61996:BAO Huiqiang, Marquardt Philipp, Olivier Philippe (Title) Cure monitoring of carbon fiber reinforced composites using a specific impedance method	61758:Rouhi Mohammad, Liu Jialong, Tan B.C Vincent, Tay Tong Seng (Title) Integrated simulation platforms to map effects of manufacturing on the structural performance of composites	62569:Brodszowy Hanna, Hennig Anne (Title) Lacase-Enzyme Treatment of Flax Fibres for Improved Interfacial Strength in Natural Fibre Composites	62112:Botta Luigi, Iopresti Francesco, Ferrice Gaia, Savatdo Giuliana, Gaglio Raimondo (Title) Biodegradable polymer based composites filled with biochar for tunable release of concrete	62373:Kallini Aleksey, Luykanchuk Andrey, Parkov Andrey, Andreev Stanislav (Title) Microstructure Based Fatigue Failure Criterion for CFRP
62081:Liebig Wilfried, Muth Markus, Seitz Michael, Wittenham Florian, Weiss Patrick (Title) Effort reduction of structural health monitoring in additive manufactured structures by total electrical resistance measurements	61718:Novotná Jana, Tomková Blanka (Title) Influence of the innovative process of production of epoxy composites filled with microcellulose on the mechanical properties of these composites	62562:Eaton Mark, Okalio Kyriaki, Sangha Permdinder (Title) The Role of Graphene in Curing of Epoxy Nanocomposites	61646:Seychal Guillém, Osando Conito, Paribakiri Nara, Gignard Bruno, Bonhaud Sébastien, Gordon Hatry, Derembleur Christophe, Jean-Marie Raquez (Title) Non-isoxyane Polyurethane based composites: a new route to sustainable fully bio-based structural composites	62063:Ham Seokwoon, Cheon Seong S (Title) The design of piezoelectric integrated composite bumper beam with machine learning algorithm
62397:Buanel Félix, Pintau Bruno, David Patrick (Title) 3D Printing and Study of Ceramic Matrix Composites	61880:Epuchi Takeshi, Ito Mikitaka, Nishiyabu Kazuki (Title) Manufacturing and fastening system of CFRP-Fibers by pultrusion and serve press thermforming process	62246:Nakamura Misaki, Noda Junji (Title) Hybrid ratio effect on flexural properties for CFRP-natural fiber composite hybrid-reinforced thermoplastic composites	62212:Owczarek Monika, Herczyńska Lucyna, Rucińska Izabela (Title) CHITOSAN NANOPARTICLES WITH GINGKO BILOBA EXTRACT IN AN ALGINATE CARRIER AS A SYSTEM FOR THE SLOW RELEASE OF THE ACTIVE SUBSTANCE	61935:Sharma Anshika, Mahagopathy Tannoy, Kuthuva Vinod (Title) Uncertainty Quantification of the Dynamic Fracture Toughness of Particulate Polymer Composites using a Surrogate Based Methodology
61564:Muñoz Dominik, Sprenger Anna Mona, Rysew Tomasz (Title) Design of additively manufactured composite elements with long and short fiber reinforcements for improved fish protection	62005:Sano Mami, Kobayashi Kodai, Tanaki Satoshi, Noda Junji (Title) VARTM of natural fiber composite dome using stay knit fabrics	62364:Lee Seung Jun, Jung Yu Jin, Jang Sunghwan (Title) Temperature Detectable Surface Coating and Self-sensing System with Carbon Nanotube/Epoxy Composite	62259:Liu Domenico, Jorge Muñoz, Asti Sakari, Alberto Giménez, José Reina, Víctor García-Peñas, Juan A. García, Fernando Sánchez (Title) Biomimetic fiber as sustainable and renewable resource for reinforcement of poly(lactic acid)	62002:Choi Donghwi, Lee Kwangtan, Lee Seoung, Lee Cheolju (Title) Finite Element Analysis of Thick Carbon Composite Laminates Subjected to Low-Velocity Impact Loads
62170:Alexander Matschinski, Silvano Semmical, Paul Compton, Klaus Drechsler (Title) Characterization of a Novel Manufacturing Method for 3D-Printing Nozzles Using X-ray Computed Tomography (CT)	62482:Mahmoud Hunza, Sun Lu, Kim Byung Chul, Stojkovic Miroslav (Title) Use of internet of Things (IoT) in digitalizing in-process monitoring and control during composite manufacture	62324:Sadagur Maryam, Hennig Anne, Clouppenburg Frederik (Title) Biomimetic fiber as sustainable and renewable resource for reinforcement of poly(lactic acid)		

PS1-15:30 to 18:15

Wednesday 29/06/2022

PS1-15:30 to 18:15

61780:Volpon Ruggero, Clement Fabrizio, Martore Alfonso, Diusta Giuseppe, Toscano Carlo, Giordano Michele, Barletta Giovanni, Gallo Nicola (Title) Innovative use of a high filled graphene film in an aeronautical composite panel	61571:Leempe Gwadyli, Fayette Bruno, Hippolito Iliás, Bat Stephahe, Bénéthouère Thibaut (Title) Effect of aeronautic fluid hydro on neat poly(ether ketone ketone) and its carbon fiber reinforced composite	61939:Almoua Hassan, De Luca Hugo, Anthony David E, Greenhalgh Emily S, Blumrick Alexander, Shaffer MMS SP (Title) Robust Continuous Production of Carbon Nanotube-Infused Structural Fibres: A Route to Hierarchical Fibre Reinforced Composites	61588:Recolin Luis, Fedrig Oriano, Hode Roman, Pons Guillaume (Title) Automated Multi-NDT method	62165:Kim Geon Hee, An Taechang (Title) Fabrication of a high performance flexible electrode with better conductive layer-to-polymer substrate adhesion
62088:Bulderberga Olga, Ovodok Evgeni, Stankevich Stanislav, Tarasov Sergey, Pomny Sergey, Aisleskhe Andrey (Title) 3MAGNES/PAAMA based sensors for composite structures	62177:Hafze Hojjer, Trauth Anna, Sause Markus G. R. (Title) Investigation of mode I fracture toughness of carbon reinforced polymers at cryogenic temperatures	61874:Blanchi Osvaldo, Aparecido Da Cruz Joseil, Pini Da Silva Lucas, Campos Amico Sandro (Title) Effect of the rheology of carbon nanoparticles suspensions on the epoxy cure kinetics	61815:Anthony David, Garguill Tonquato, Piccardi Laura, Quino Guston, Garguill Joseph, Pinella Sorali, Allegri Giuliano, Pinho Silvestre, Hamerton Ian, Greenhalgh Emily, Eichhorn Stephen, Robinson Paul, Wilson Michael, Traub Richard, Shaffer Mito (Title) Hierarchical solutions to compressive problems in fibre-	62155:Choi SungWong, Jung SuReon (Title) Solubility behavior of graphene oxide with various solvents
62202:Alberto Gimenez Sanchez, Manuel Martínez Corcos, Jordi Reina, Víctor García Peña, Luis Domenico Balazari, Antonio Real, Enrique Carriés, Asta Sakalyte, Juan A. Garcia, Fernando Sánchez Lopez (Title) Polymer based interface optimization for coated lightweight composite additive manufacturing	62305:Jia Zhen, Pastor Marie-Laetitia, Garnier Christian, Huang Jia, Gong Xiaojing (Title) Rapid fatigue life prediction of CFRP laminates by combining the data of self-healing with stiffness degradation	61940:Wani Baharut Ahmad, Dagumati Subbareddy (Title) Failure analysis of NCF glass-epoxy composites under various fiber and transverse direction loads: An experimental and computational (MZRVE) study	62502:Joseph Ashvithan Wesley James J., Shahneew Kabir Mohammad, George Sony, Grammatikos Sotiris (Title) Rapid durability modified aremid pulp and biochar as potential filler replacement for EPDM rubber composites	62078:Kerthe Eduardo, Chonka Siyala, Benedito da Silva Vinícius, Nichole Brandalise Rosmarry, Strzelawska Anna, Stephan Schrekker Heintz, Campos Amico Sandro (Title) Ionic Liquid modified aremid pulp and biochar as potential filler replacement for EPDM rubber composites
61500:ALI FAHAD (Title) Numerical and Experimental Investigation of Honeycomb Sandwich Composite Material and its Aerospac Application	62112:Botta Luigi, Iopresti Francesco, Ferrice Gaia, Savatdo Giuliana, Gaglio Raimondo (Title) Biodegradable polymer based composites filled with biochar for tunable release of concrete	62386:Feng Weikang, He Pei, Koetzier Mathew, Pavovic Marko (Title) DIC-based monitoring on bonding crack propagation in wrapped composite joints	62325:Robert Amir, Farrokhbadi Amin, Ghoshani Farshad, Gharehbaghi Hossein (Title) Investigation of energy absorption capacity of novel 3D-printed glass fibre reinforced thermoplastic bio-inspired structures	
62496:Kostaras Christos, Pavlou Christos, Patralakis George, Koutoumami Nikolettos, Trakakis George, Dassiou Constantinou, Galotis Costas (Title) Robust and flexible restorative graphene and carbon nanotube heaters: Ultra-fast heating response and high sensitive performance	62063:Ham Seokwoon, Cheon Seong S (Title) The design of piezoelectric integrated composite bumper beam with machine learning algorithm	62183:Jang Yu-Jin, Lee Seung-Joon, Jang Sung-Hwan (Title) Performance evaluation of E-Skin for structural deformation detection	62558:Gadolkova Ekaterina (Title) Sustainable polyethylene succinate biopolymer for 3D printing applications	
61904:Calabrese Luigi, Gull Giuseppe, Palamara Davide, Bertino Riccardo, Grungo Francesco (Title) Flexural toughening of wave-shaped short plastic fibers in a cementitious mortar	62212:Owczarek Monika, Herczyńska Lucyna, Rucińska Izabela (Title) CHITOSAN NANOPARTICLES WITH GINGKO BILOBA EXTRACT IN AN ALGINATE CARRIER AS A SYSTEM FOR THE SLOW RELEASE OF THE ACTIVE SUBSTANCE	62183:Jang Yu-Jin, Lee Seung-Joon, Jang Sung-Hwan (Title) Performance evaluation of E-Skin for structural deformation detection	62378:SPRIBLUC Valentin, GUILLAUMET Laurent (Title) Optimization of an exoskeleton	
61511:Dagumati Subbareddy, Raj Kumar J Kiran, Rajagopal Nirmal Dagaabath, Prasad Jayak (Title) Design allowable estimator for CFRP composite structures: An experimental and numerical approach	62324:Sadagur Maryam, Hennig Anne, Clouppenburg Frederik (Title) Biomimetic fiber as sustainable and renewable resource for reinforcement of poly(lactic acid)	62183:Jang Yu-Jin, Lee Seung-Joon, Jang Sung-Hwan (Title) Performance evaluation of E-Skin for structural deformation detection	61748:He Sulhaa, Ward Carolyn, Hamerton Ian (Title) FINITE ELEMENT STUDIES AND ITS INFLUENCE ON PHASE TRANSITION BEHAVIOUR OF MULTICOMPONENT AMINE-CURED EPOXY BLEND	
62386:Gabele Leonard, Trauth Anna, Sause Markus (Title) Development of a test rig for the temperature dependent determination of composite material properties at cryogenic temperatures	62364:Lee Seung Jun, Jung Yu Jin, Jang Sunghwan (Title) Temperature Detectable Surface Coating and Self-sensing System with Carbon Nanotube/Epoxy Composite	62183:Jang Yu-Jin, Lee Seung-Joon, Jang Sung-Hwan (Title) Performance evaluation of E-Skin for structural deformation detection	61888:Pińkarzka Kizulka, Wroniewska Wronia Maria, Machnyk Mikolajczyk Olga, Struzczyk-Iwka Katarzyna, Drodzyński Piotr, Dziuba Przemysław Hanna, Korbańska-Glinka Grazyna (Title) DEVELOPMENT OF A RECIPE FOR THE PRODUCTION OF CHITOSAN/GYCOPIROS BIOCOMPOSITES FOR PLANT PROTECTION	
62572:Madrid Mathew, Almeida Jr, Humberto, Lisboa Talo, Marczak Rogério, Amico Sandro (Title) Design of a burst pressure feature for composite cylinders	62364:Lee Seung Jun, Jung Yu Jin, Jang Sunghwan (Title) Temperature Detectable Surface Coating and Self-sensing System with Carbon Nanotube/Epoxy Composite	62183:Jang Yu-Jin, Lee Seung-Joon, Jang Sung-Hwan (Title) Performance evaluation of E-Skin for structural deformation detection	62320:LONGER LAMIC, MICHELY LAURENT, GILLIÉS Antoine, RIOS DE ANDA Agustín, VANHAE Henri, REMOND Estelle, LATROCHE Michel, ALLAS Florent, LANGUÉS Valérie (Title) Highly deformable and processable poly(β-hydroxybutyrate) in presence of ferulic acid-based additives	
				61850:Kang Da Jeong, Jeong Jae-Moon, Jeong Hwang Il, Kim Seong Su (Title) Sandwich type shape memory polymer composite actuators to increase the recovery moment and deformability

**ECCM**



**26-30 JUNE**

**2022**

**LAUSANNE  
SWITZERLAND**



LOOKING FORWARD SEEING YOU ALL IN LAUSANNE