ECCM22 — Programme at a Glance

Oslo Kongressenter · 21–25 June 2026 (block heights are proportional to time)

Time	Sunday 21	Monday 22	Tuesday 23	Wednesday 24	Thursday 25
08:00	*Arrivals & Registration*	**08:00–08:25 Opening Ceremony**	**08:00–08:45 Plenary 2**	**08:00–08:45 Plenary 3**	**08:00–08:30 Plenary 4**
08:25					
08:30		**08:25–09:10 Plenary 1**			
08:45					**08:45–10:45 SESSION 12**
09:00			**09:00–11:00 SESSION 5**	**09:00–11:00 SESSION 8**	
09:10					
09:15		**09:15–11:00 SESSION 1**			
10:45					10:45–11:15 Coffee Break
11:00		11:00–11:30 Coffee Break	11:00–11:30 Coffee Break	11:00–11:30 Coffee Break	
11:15					**11:15–12:30 SESSION 13**
11:30		**11:30–13:00 SESSION 2**	**11:30–12:45 SESSION 6**	**11:30–12:45 SESSION 9**	
12:30					12:30–13:30 Lunch
12:45			12:45–13:45 Lunch	12:45–13:45 Lunch	
13:00		13:00–14:00 Lunch			
13:30					**13:30–14:00 Keynotes · rooms A & B**
13:45			**13:45–14:15 Keynotes · rooms A & B**	**13:45–14:15 Keynotes · rooms A & B**	
14:00		**14:00–14:30 Keynotes · rooms A & B**			**14:00–15:30 SESSION 14**
14:15			**14:15–15:15 SESSION 7**	**14:15–15:45 SESSION 10**	
14:30		**14:30–16:30 SESSION 3**			
15:15			15:15–16:30 Poster Discussion + Coffee		
15:30					15:30–16:00 Coffee Break
15:45				15:45–16:15 Coffee Break	
16:00					**16:00–17:00 SESSION 15 — Rapid & ESCM Awards**
16:15				**16:15–18:00 SESSION 11**	
16:30		16:30–17:00 Coffee Break	16:30–18:00 ESCM General Assembly		
17:00		**17:00–18:00 SESSION 4**			**17:00–17:30 Closing & Awards**
17:30					
Evening	**Welcome Reception 18:00**		**Student / PhD Event 20:00–00:00**	**Gala Dinner 20:00–00:00**	

ECCM22 — MONDAY (08:00-19:00) — TECHNICAL PROGRAMME - VERSION 2 (updated 19 June 2026)
◆ = Italic = Short oral (7 min) · plain = Full oral (15 min) · - Minor changes to the programme may occur.

Time	Activity	A	B	C	D	Forum	M1	M2	M4	M5	Balder	Odin
08:00–08:25	OPENING CEREMONY											
	PLENARY 1 - Marcin Rusin (Gjenkraft AS) & Alessandro Forestieri (OCF) From Wind Waste to Wind Blade Chair: Sotirios Grammatikos (NTNU)											
08:25–09:10												
09:15–11:00	SESSION 1											
	Session →	S510 - Understanding and improving longitudinal compressive strength Session chair: Lars Pilgaard Mikkelsen (Technical University of Denmark), Paul Robinson (Imperial College London)	S515 - AI and Mechanics for Composite Design, Optimisation, and Digital Twins Session chair: Wei Tan (Queen Mary University of London), Richard Butler (University of Bath)	S553 - Digital Twins and AI for Composite Manufacturing: Modelling, Monitoring and Control Session chair: Baris Caglar (TU Delft), Iryna Tretiak (University of Bristol)	S508 - Experimentation and Modelling of Composite Materials and Structures under Dynamic Loading and Environmental Conditions Session chair: Yanhong Chen (Harbin University of Technology), Karthik Ram Ramakrishnan (University of Bristol), Dayou Hu (Politecnico di Milano)	S5 Prepegs Session chair: Bodo Fiedler (Hamburg University Of Technology), Clemens Dransfeld (TU Delft), Veronique Michaud (EPFL)	S.13 Process Modelling and Simulation Session chair: Suresh Advani (University of Delaware), Chung Hae Park (IMT Nord Europe)	S522 - Exploring challenges: from novel observations to paradigm shifting applications of composites Session chair: Nuno Correia (University of Porto), Antonio Torres Marques (FEUP)	S7 Failure Mechanics and Simulations Session chair: Gergely Czél (Budapest University of Technology and Economics), Frédéric Laurin (ONERA, Paris-Saclay University)	S 2.3 Matrix Materials: Polymers, Metals, Ceramics, Concrete, Geopolymers Session chair: Maik Gude (TU Dresden), Martin HERSKEDKEN (ONERA)	S.6 Automated Placement Technologies Session chair: Christophe Binetruy (Centrale Nantes), Andreas Endruweit (University of Nottingham)
09:15												
09:30					S45 - Zuoxi Xu (Harbin Institute of Technology) Investigation of scaling effects in the impact response of CFPR woven composites Co-authors: Yanhong Chen, Zhongwei Guan	S1223 - Priyanka Patel (University of Bristol (BCI)) Use of Wet Filament Winding Processes for the Manufacture of Non-Oxide Ceramic Matrix Composites Co-authors: David King, Giuliano Allegri, Iryna Tretiak	S134 - Dennis Buddenkemper (Hamburg University of Technology; Institute of Polymers and Composites (IPC)) Processing characteristics of unidirectional prepregs with bio-derived poly(furfuryl alcohol) matrices Co-authors: Bodo Fiedler	S1436 - Durai Prabhakaran Ragh (Indian Institute of Technology, JAMMU) Lightweight Composite Translational Prosthetic System with EMG-Enabled Dynamic Movement Co-authors: Durai Prabhakaran Raghavalu Thirumalai	S1054 - Rui Guo (Department of Materials Engineering, KU Leuven) High-fidelity micromechanical modelling of transverse tensile damage in cross-ply composites Co-authors: Christian Brabo, Hahnsaar Mehdikhani, Yentl Swolfs	S619 - Damien Gacon (Univ Toulouse, IMT Mines Albi, IRSA Toulouse, ISAE Sup Aero, CNRS, ICA, Albi, France) Identification and modeling of pore formation conditions during reactive acrylic resin polymerization Co-authors: Raffaele D'Elia, Olivier De Almeida	S631 - Mar Zuazo Ruiz (FIDAMC, Foundation for Research, Development and Application of Composite Materials) Stamping and AFP for Next-Gen High-Rate Flaperon Manufacturing Co-authors: Katla Fernández Horcajo; Rafael Contanto Tercedor; Alberto Hernandez Ortiz; Alberto Blanco Lais
09:45				S29 - Clement Wolvreez (ISL) Dynamic characterisation using laser impact loading of damage properties of UHMWPE-fibres based composites used in ballistic protection Co-authors: Laurent Berthe; Patrick Rozycki; Yael Damarty	S61 - Firat Ergin (Bristol Composites Institute (BCI), University of Bristol, University Walk, Bristol BS8 1TR, UK) Repeated Low-Velocity Impact and Quasi-Static Indentation at Various Temperatures Co-authors: Luiz Kawashita; Karthik Ram Ramakrishnan; Stephen R. Hallett	S744 - Mutsuteus El-jabi (Delft University of Technology) Experimental analysis of tape manufacturing with melt impregnation Co-authors: Onur Yuksel; Shalee Upadhyay; Ozgul Eryilmaz; Clemens Dransfeld	S93 - Benjamin Halse (Airbus Helicopters) The Use of Manufacturing Process Simulation for the Industrialization of Composite Structures Co-authors: Markus Englhard; Johannes Matthaus Balvers			
10:00		S1043 - Milo Shaffer (Imperial College London) From constituents to composites: the NextCOMP project to enhance compression performance Co-authors: Giuliano Allegri; Steve Eichhorn; Emile Greenhalgh; Ian Hamerton; Soraia Pimenta; Silvestre Pinho; Paul Robinson; Richard S. Trask; Michael R. Wisnom	S1265 - Wei Tan (Queen Mary University of London) Multi-Fidelity Bayesian Optimisation for Inverse Design of Cellular Composites with Targeted Nonlinear Mechanical Response Co-authors: Hirak Kansara	S641 - Grigori Ochl (German Aerospace Center (DLR)) Towards Sovereign Digitalization in Composite Material Development: A Shift to "Science as a Service" Co-authors: Dominic Bertling; Nico Liebers; Daniel Krause	S1747 - Xiyan Sun (University of Oxford) Characterising damage mechanisms of CFRP laminates under high-strain-rate loading and extreme temperatures using synchrotron X-ray imaging Co-authors: David Sory; Bratislav Lukic; Kai Liu; Yanhong Chen; Ziwen Xu; Justus Hoffmann; Jens Wingard; Alexander Rack; Maria Lisnner; David Chapman; Nik Petrinic; Daniel Eakins	S328 - Matt Miller (Bristol University) Scalable defect inspection of NCF preforms using polarisation imaging Co-authors: Chris Dighton; Iryna Tretiak; Byung Chul Kim	S254 - Junxi Liu (KU Leuven) Numerical and experimental investigation of temperature and polymerization evolution during filament winding of Elium resin composites Co-authors: Stepan Lomov; Chung Hae Park; Ian Ivens	S1252 - Lin Yang (University of Strathclyde) Additively manufactured high-performance polymer and composite for pump application Co-authors: Ashkee Espinoza	S1367 - Shaoran Cheng (National Key Laboratory of Strength and Structural Integrity, School of Aeronautic Science and Engineering, Beihang University)(BUAA) Investigating the evolution of damage in 3D woven composites: thermomechanical experiments and an improved failure model Co-authors: Zhenyu Yang	S575 - Félix Thébault (CoHi) Optimizing the staggering of singularities in Automated Fiber Placement Co-authors: Alexandre Clement; Sylvain Fréour; Gwénolé Le Moal; Pascal Casari
10:15		S1522 - Sandra Schmidt (Hochschule Darmstadt hda) The behaviour of paper composites under pressure loads and their failure modes Co-authors: Andreas Bülze	S191 - Runze Li (Imperial College London) Feasibility-Aware Bayesian Modelling and Optimization of Composite Structures with Failure Constraints Co-authors: Wei Zhou; Mario Miranda; Silvestre Pinho	S861 - Benno Sonderkemp (Department of Polymer Engineering, Faculty of Mechanical Engineering, Budapest University of Technology and Economics) A Digital Twin-driven workflow for structural design and failure analysis of continuous fiber-reinforced 3D printed components Co-authors: Norbert Kristián Kovacs; Tibor Czigany	S1413 - Karthik Ram Ramakrishn (University of Bristol) Effect of temperature and strain rate on the translaminar fracture of thermoplastic composites Co-authors: Gustavo Quino; Karthik Ram Ramakrishnan	S596 - Alessandro Mille (Politecnico di Milano, Department of Chemistry, Materials and Chemical Engineering "Giulio Natta") Innovative mechanical recycling methods for vitrimer-matrix composites Co-authors: Enrica Greco; Riccardo Di Giovanni; Lorenzo Di Marco; Narongkorn Krajangsawasdi; Roberto Frassine; Marco Luigi Longana	S674 - Shalee Upadhyay (Department of Aerospace Structures and Materials, TU Delft) Effect of slurry characteristics on the quality of Carbon fiber-PEEK Slit-ply prepreg tapes manufactured by wet impregnation Co-authors: Eki Andrikse; Veronique Michaud; Ozgul Eryilmaz; Onur Yuksel; Baris Caglar; Clemens Dransfeld	S1157 - Yannis Grohmann (DLR) Temperature model for the direct resistance heating of carbon fiber tapes during fiber placement processes or filament winding Co-authors: Jonas von Hessinger; Jörg Melcher; Daniel Stefaniak	S743 - Ruggero Volponi (CRA Italian Aerospace Research Centre) Micro/Nano-structured Polyethylene Composites for Galactic Cosmic Radiation shielding. Co-authors: Filomena Piscitelli; Fabrizia Cilento; Barbara Palmieri; Alfonso Martone; Giovangiuseppe Giusto; Mario Costantini; Mario De Cesare; Lucio Galanello; Lorenzo Mardi	S1531 - Florian Gaubier (Ecole Polytechnique) A Phase-Field Formulation Accounting for Interlocal Fracture in Additively Manufactured Polymers Co-authors: Samuel Guiton; David Melancon; Daniel Therriault; Martin Lévesque	S735 - Burak Akdeniz (Aerospace Structures and Materials Department, Faculty of Aerospace Engineering, Delft University of Technology) 3Elastic/Lay&Fary Effects in the Slurry Impregnation Method in for Manufacturing Unidirectional Thin Ply Thermoplastic Tapes Co-authors: Valeria Garbin; Clemens Dransfeld	S1398 - Florian Max (University of Bayreuth) Tack to the future: influence of resin tack and AFP process parameters on interlaminar performance in natural fibre composites Co-authors: Alexander Schmitt; Philipp Salathe; Holger Ruckdäschel
10:30		S1256 - Emile Greenhalgh (Imperial College London) Enabling full-safe composite design – Tailored laminate design for unstable compressive crack-arrest in Fibre-Reinforced Polymers Co-authors: Bruno P Santos; Silvestre T Pinho	S399 - Luca Patrignani (Imperial College London) Graph Transformers for Effective Prediction of Progressive Failure Evolution in Composite Structures Co-authors: Silvestre Pinho	S1436 - Sergio Martínez Crespo (Instituto Tecnológico de Aragón (ITA)) Deep Learning-Based Surrogate Models for Resin Transfer Moulding Process Simulation Co-authors: Francisco Serrano Alcalde; Manuel Laspalas Casanova	S188 - Louis Griffin (University of Bristol) Mat/Wet Intralaminar Fracture Characterisation of A Newly Developed Phenolic-Triazine Ester Composite System Co-authors: Ian Hamerton; Giuliano Allegri	S1260 - Zirui Guo (The University of Tokyo) Tape-level deformation of CFRTP-SMC during molding flow investigated by simulation and x-CT tracking Co-authors: Cheng Jin; Yi Wan; Jun Takahashi	S891 - Sofia Sautrigi (Department of Chemical Engineering Materials Environment, Sapienza University of Rome, Via Eudossiana 18) Bio based FA13 Composites incorporating space-derived lunar regolith simulant Co-authors: Matteo Simboni; Erika Palazzi; Fabrizio Sarasini; Jacopo Tirillò	S1403 - Roberto Guzmán De Vil (University of Salamanca) Ultrasonic-assisted in-situ Consolidation of Carbon Fiber Thermoplastic Tapes Co-authors: Jorge Bautista Perez; M. Elena Hernández; Saber Maamri; C. Izquierdo; Pablo Moreno
10:45		S764 - Charles Shou (Department of Chemistry, Imperial College London) Silica-epoxy nanocomposite matrix shear properties and their effect on unidirectional fibre composite compressive strength Co-authors: Dimitrios Bikos; Ian Hamerton; Milo Shaffer	S413 - Mustafa Okumeo (IHNA, WMG, University of Warwick) Probabilistic Machine Learning Approach to Design of Polymer Composites for Hydrogen Permeation Co-authors: Lukasz Figiel	S521 - Jimmy Gaspard Jean (Delft University of Technology) Accelerating flow prediction in arbitrary fibrous microstructures with latent models Co-authors: Guillaume Broggi; Baris Caglar	S683 - George Holiday (NCC & BCI) Ceramic coatings for protection of polymer composites from high energy events Co-authors: Sian Cooper; Konstantina Kanari; Craig Wallbuck; Dong Liu; Ian Hammerton; Richard Trask	S1235 - Fulvio Pinto (University of Bath, Department of Mechanical Engineering) Effect of Moisture Absorption on the Dynamic Compressive Behaviour of Polymeric Syntactic Foams Co-authors: Yue Chen; Lallina Shah; Gustavo Quino Quispe; Antonio Pellegrino	S1268 - Giaolugi Crivelli (EROSPERE Srl) Graphene Reinforced Glass and Recycled Carbon fabric based, Mass Productive, Circular Composite Crossing! Co-authors: Ahmed Elmarakbi; Beatriz Alonso; Pelin Uzun; Ali Basuel; Daniele Pullini; Marco Martin; Laura Mazzocchetti; Daniele Biondi; Jacopo Orsitani	S1279 - Raj Das (IIMT University) Influence of Accelerated Moisture Absorption on Thermo-Mechanical Behaviour of Carbon Fibre Composites Co-authors: Brandon Argent; Srinivas Nunna; Brian Falzon		S1647 - Alejandro Ríos (University of Ottawa) Linking Physicochemical Properties of Lignosulfonic Residues to Lime-Based Insulating Biocomposite Performance Across Feedstock Types and Inc. Volume Fractions Co-authors: Fernando Avencio; Tomas Contreras; Orlando Peredes; Martin Noël; Marcelo Gonzalez	S882 - Joachim Grosser (IFB, Uni Stuttgart) Automated Winding Technique to Generate Functional Free-Form Composites Inspired by Nature Co-authors: Johannes Valentin Bauer; Silvia Ivichi; Mike Remelej; Guarab Sundar Dutta
11:00–11:30	COFFEE BREAK											
11:30–13:00	SESSION 2											
	Session →	S510 - Understanding and improving longitudinal compressive strength Session chair: Silvestre Pinho, Charlie Shaw (Imperial College London)	S519 - Fatigue and Damage Mechanics of composite and composite structures Session chair: Marino Quaresimin (University of Padova)	S502 - Additive manufacturing (3D/4D printing, AFP) for advanced composites Session chair: Kunal Masania (TU Delft), Antoine Le Duigou (University of South Brittany)	S532 - Durability of polymers and fibre reinforced polymer composites Session chair: José Grácio Cruz (SIDE_ARISE, University of Minho), Sotirios Grammatikos (NTNU), Olga Bulderberga (University of Latvia)	3.8 Fatigue Session chair: Anastasios Vassilopoulos (EPFL), Andrea Dorigato (University of Trento)	S612 - Long Discontinuous Fibre Composites: Processing, Microstructure, Properties and Performance Session chair: Connie Qian (University of Sheffield), Miro Dukovic (Leibniz-Institut für Verbundwerkstoffe)	3.12 Joining and Joints Session chair: Michele Zappalorto (University of Padova), Atsushi Hosoi (Waseda University)	3.11 Other Application Domains Session chair: Karthik Ramaswamy (Collins Aerospace), Erik Thostenson (University of Delaware)		T2 - Interfaces & Bio-derived composites Session chair: Fabrizio Sarasini (University of Roma La Sapienza), Vincent Placet (Université Marie et Louis Pasteur)	S.10 Liquid Molding, Pultrusion, Filament Winding Session chair: Mikko Alonen (KTH Royal Institute of Technology), Benjamin Alcock (Sintef)
11:45		S1093 - Bohao Zhang (Bristol Composite Institute, School of Civil, Aerospace and Design Engineering, University of Bristol) The experimental characterisation of compressive properties of pultruded carbon fibre reinforced polymer composites Co-authors: Kostas Meniagos; Gustavo Quino; Paul Robinson; Richard S. Trask	S1586 - Marino Quaresimin (University Of Padova) Innovative analysis of fatigue damage evolution and stiffness loss in structural composite components Co-authors: Paolo Andrea Carraro; Lucio Maragoni; Filippo Venezian; Filip Damaschin	S1431 - Antoine Le Duigou (University South Brittany) 4D printing of composite materials : Opportunity for disruptive functions ?	S242 - Sebastian Seibel (Fraunhofer Institute for Mechanics of Materials (WM) Time-resolved Study of CF/PPS and CF/Epoxy Aging Under Hygrothermal and Irradiative Conditions Co-authors: Benedict Rohrmüller; Carla Beckmann; Claudio Findeisen; Achim Neubrand; Jörg Hohe	S590 - Torben Deutschmann (Hamburg University of Technology (TUHH)) Experimental Multiaxial Fatigue Testing of Composite Profiles on a 6-DoF Hexapod Co-authors: Floyd Bischop; Dieter Krause	S1343 - Miro Dukovic (Leibniz-Institut für Verbundwerkstoffe) Polarization Image Analysis for the Monitoring of C-SMC Part Manufacturing Co-authors: Pascal Felber; Paul Egorov; Fabian Rösler; Markus Kronenberger; Florian Gortner; Katja Schiefer; Hannes Grimm-Strele	S372 - Léo Sudrès (University of Toulouse, Institut Clément Ader (UMR CNRS 5312) ISAE-SUPAERO / IRSA / IMT Mines Albi / UPS) Contribution to the study of damage in composites/metal structures under bearing loadings Co-authors: Joël Serra; Wijaa Azidi; Bruno Castanié	S523 - Vincent Lutz (MOG Mixer-Glaser AG, Pfiffner Group Switzerland) Advanced Polyester Textile-reinforced Epoxy Composites for High-Voltage Insulation Co-authors: Simon Lüthi; Julian Kupski; Karsten Frick	S248 - Ivan Avalat (Université Marie et Louis Pasteur, SUPMICROTECH, CNRS, Institut FEMTO-ST) Tailoring Transcrystallinity and Moisture Stability in PAA/PA12 Copolymer CF/RTPs Fabricated by T-RTM Co-authors: Sylvie Pourchet; Vincent Placet; Lamine Boubakar; Florian Boutenel	S313 - Seung-Mo Son (Pusan National University) Tailoring Transcrystallinity and Moisture Stability in PAA/PA12 Copolymer CF/RTPs Fabricated by T-RTM Co-authors: Su Jeong Heo; SeungMoo Jung; Moonsuk Jang; Dong Gi Seong
12:00		S789 - Diana Cotoenco (Institute Of Materials Chemistry And Research, University Of Vienna) Hierarchical nanostructured interphases for high performance carbon fibre-reinforced thermoplastic composites Co-authors: David B. Anthony; Milo S.P. Shaffer; Alexander Bismarck	S754 - Sam Patel (Imperial College London) A Computationally Efficient HSL-FE Approach for Predicting Fibre Breakage in Composite Structures Co-authors: Soraia Pimenta	S414 - Muhammad Khizer Ali Rh (Khalifa University of Science and Technology) Energy absorption of 3D-printed PEEK/CF composite honeycombs with tubular CFRP reinforcements Co-authors: Muhammad Khizer Ali Khan; Wesley Cantwell; Kamran Ahmed Khan	S368 - Thibault Huelsbroeck (EnnitiA/ SAFRAN) Thermo-mechanical analysis on a 3D woven composite for evaluation of fatigue performance Co-authors: Libor Navratil; Youssera El Arshi; Vincent Le saux; Yann Marco	S520 - Peter Zobec (Faculty Of Mechanical Engineering, University Of Ljubljana) Complex loading and fatigue damage of composite sandwich structures Co-authors: Jure Kuželj; Jernej Klemenc	S1011 - Richard Vocke (Fraunhofer IWU) Compression moulding with type III-re waste to manufacture structural components Co-authors: Oliver Focke; Schiebel Patrick; Marius Müller; David May	868 - Shin-Ichi Takeda (Japan Aerospace Exploration Agency) Proposal of the Modified Block Shear Method for Adhesively Bonded Composite Joints and Strength Evaluation	S1369 - Amitha Ajith (IIT Madras) Tailoring Thermal Properties of Epoxy Using Magnetically Aligned Graphene Nanoplatelets Co-authors: Sarathi Ramanujam; Shankar Krishnapillai; Velmurugan Ramachandran; Gandhuri Parameswararao	ESCM Council Meeting		
12:15		S460 - Fabrizio Donisi (Rolls-Royce PLC) Bird-Strike and Fan Blade Off compression type failures in Composite Fan Blades Co-authors: James Finlayson	S1066 - Dominik Spancken (Fraunhofer Institute for Structural Durability and System Reliability LBF) Novel aspects from a fatigue database of the fatigue properties of short fibre-reinforced polymers Co-authors: Julia Decker; Andreas Büter	S1653 - Joanna Wang (The University of Calgary) Additively Manufactured Dyskinesike Lattice Booms with Tailored Fiber Placement Co-authors: Nicholas Elderfield; Aghna Mukherjee; Paolo Ermanni	S107 - John Buckingham (University of Surrey) Comparison of moisture absorption in thermoset and thermoplastic matrix glass fibre polymer composites for accelerated ageing tests Co-authors: Robert Dorey; Stefanos Giannis; Andrew Viquerat	S1426 - Ivana Stančeková (Delft University of Technology) Fatigue resistance and self-healing of carbon fiber reinforced vitrimers subjected to bending tests Co-authors: Elena Spoelstl; Giulia Altamura; Luca Michele Martelli; Gianmarco Griffini; Stefano Turri	S1459 - Matthew Enrico Lilyholt (Bristol Composites Institute) Finding the right lengthscales for microstructural description in unidirectional composites Co-authors: Daniël M. J. Peeters; Bilen Aïli-Veltin; Clemens A. Dransfeld	S1055 - Izumi Matsubara (Hi Corporation) Numerical and Interlaminar Evaluation of Fiber-Orientation Randomness in Discontinuous Carbon Fiber-Reinforced Composites Co-authors: Takehiro Shirai; Kazuto Ogawara; Kiyoshi Uzawa	S1385 - Mir Seong Hwang (Department of Mechanical Engineering, Gyeongsang National University) Experimental and Numerical Analysis of L-Flange Joints in Large Sandwich Composite Structures Co-authors: Seong Hyeon Kim; Byung Hun Min; Jin Ho Choi	S1136 - Georgios Tzortzinis (TUD Dresden University of Technology) Influence of Laminate Architecture on the Torsional Behaviour of Filament Wound CFRP Driveshafts Co-authors: Elias Bilalis; Qingyan Wu; Florian Schmidt; Angelos Filippatos; Nicholas Tsouvalis; Maik Gude	S294 - Rudi Reichenbächer (Leibniz-Institut für Polymerforschung Dresden (IPF) Mesoscale wetting behaviour of resin/sizing resin infiltration Co-authors: Dominik Burr; Christina Scheffler; Konrad Steiner; Günter K. Auernhammer	S1514 - Dexter Blackburn (University of Sheffield) Towards the development of carbon-negative advanced composite materials Co-authors: Patrick Fairclough; Andrew Parnell
12:30		S441 - Dimitrios Bikos (Department of Mechanical Engineering, Imperial College London) Benchmarking micromechanical finite element models of UD-FRPS against in-situ synchrotron experiments Co-authors: Richard S. Trask; Paul Robinson; Ardrush Rekhi; Philip J. Withers; Soraia Pimenta	S999 - Masamichi Kawai (University of Tsukuba) A Critical Damage Growth Model for Notched Fatigue Fracture of CFRP Laminates at Various Stress Ratios	S968 - Nanaki Ichihara (The University of Tsukuba) Bio-morphologic printing patterns for 3D-4D fiber-reinforced polymer composites Co-authors: Masahito Ueda	S436 - Inal Manuel Rodriguez (Universidad Carlos III) In-situ rate dependency on fracture toughness of plain woven AS4/8552 CFRP using in-situ synchrotron x-ray phase contrast imaging Co-authors: Adrián Cimadevilla; José Alfonso; Arturo Guerrero; Jesús Pernas-Sánchez; Fernando Naya; Álvaro Vaz-Romero; Bratislav Lukic; Georg Gunkelmüller; Julien Berthe	S726 - Stefan Eder (Technical University of London) A Physics-informed Neural Network for Fatigue Life Estimation in Fiber Reinforced Composites Co-authors: Reza Abhamsia; Dario Kaylani; Gerald Pinter	S1061 - Cyrin Omeiri (University of Sheffield) The First Japan Benchmark Exercise on Squeeze Flow Testing of High-Performance Carbon Fibre Sheet Moulding Compounds Co-authors: Yuta Ito; Yuki Kawamura; Daniela Schommer; Florian Gortner; Andreas Gebhard; Thomas Neumeyer; Marcel Obst; Louis Schreyer; Luke Kärger; Martin Hohberg; Han Yuan; Anna Imbowiler; Leah Ramirez	S182 - Chanil Abeykoon (The University of Manchester) Evaluation of the Suitability of Carbon Fibre Reinforced Non-Metallic Pipelines for Oil and Gas Industry Co-authors: Othman Alzyhaya; Yavith S Perera; Prasad Potluri			
12:45		#769 - Vincent Jacques (DASSAULT AVIATION) Effects of waviness on fiber failure in compression of carbon fiber reinforced polymer (CFRP) specimens: failure scenarios, modeling requirements, and predictive capabilities Co-authors: Yann MADIOL; Dominique Martini; Alban ROBIN	#196 - Morten Fuglmann Kristl (Aarhus University, Faculty of Technical Sciences, Department of Mechanical and Production Engineering, Section of Mechanics and Materials) Mean-level correction and transformation of load-controlled fatigue test data into strain-life curves Co-authors: Morten Fuglmann Kristiansen; Steffen Rasmussen; Henrik Myhre Jensen; Lars Pilgaard Mikkelsen	#442 - Kamran Khan (Khalifa University) Enhanced stability of plate-based composite lattice structure fabricated via 3D printing of polyamide/carbon fiber filament Co-authors: Sultan Al Hassanieh; Wesley Cantwell	#1683 - Alexandre Clement (Research Institute In Civil and Mechanical Engineering GeM, UMR CNRS 6183) Modelling uncertainties and variability in hygro-elastic behavior of moisture-exposed composites Co-authors: Sylvain Fréour; Frédéric Jacquemin	#1400 - Andreas Gebhard (Leibniz-Institut Für Verbundwerkstoffe GmbH) The First European Benchmark Exercise on Squeeze Flow Testing of High-performance C-SMCs Quantitative Analysis of Interlaboratory Variability Co-authors: Louis Schreyer; Miro Dukovic; Connie Qian; Tim Pelz; Dominic Schommer; Florian Gortner; Thomas Neumeyer; Marcel Obst; Luise Kärger; Martin Hohberg; Han Yuan; Anna Julia Imbowiler	#814 - Atsushi Hosoi (Waseda University) Evaluation of Bonding Strength in Single-Lap Joints Between Nanostructured Aluminum Alloys and Thermoplastic CFRP Laminates Co-authors: Hiroyuki Kawada	#1012 - Syed Shah Siraj Abdullah (University of Science and Technology) Performance Assessment of Bell-Spigot Joints in GRP Pipelines with Kissing Bond Defects: Experiments and Modelling Co-authors: Xiaole Li; A. Wagih; A. Asiri; R. Hajri; A. Al-Jarrod; Hamad Salari; Gilles Lubineau		#1647 - Alejandro Ríos (University of Ottawa) Linking Physicochemical Properties of Lignosulfonic Residues to Lime-Based Insulating Biocomposite Performance Across Feedstock Types and Inc. Volume Fractions Co-authors: Fernando Avencio; Tomas Contreras; Orlando Peredes; Martin Noël; Marcelo Gonzalez	#882 - Joachim Grosser (IFB, Uni Stuttgart) Automated Winding Technique to Generate Functional Free-Form Composites Inspired by Nature Co-authors: Johannes Valentin Bauer; Silvia Ivichi; Mike Remelej; Guarab Sundar Dutta
13:00–14:00	LUNCH											
14:00–14:30	2 KEYNOTES (rooms A & B)	★ KEYNOTE - Dimitrios Zarouchas (Delft University of Technology) Why (and why not) AI can enhance structural performance analysis of composites Chair: Paul Robinson (Imperial College London)	★ KEYNOTE - Dr. Miguel Ángel Castillo Asero — (Aernnova) Aernnova' s Industrial Vision for Next-Generation Composite Aerostructures Chair: Brian Falzon (Western Sydney University)									
14:30–16:30	SESSION 3											
	Session →	S501 - Delaminations and debonding in composite materials and structures Session chair: Marco Alfano (University of Modena and Reggio Emilia), Bent F. Sørensen (Technical University Of Denmark)	S511 - Advanced Composite Materials and Structures: Multifunctional Design, Damage Diagnostics, Testing and Modelling Session chair: Xi Li (Politecnico di Milano), Rosemeire Lima (Universidade de Lisboa), Ioannis Katsoudas (University of Bath)	S444 - Sofia Sartorio (Department of Aerospace Structures and Materials, Faculty of Aerospace Engineering, Delft University of Technology) How can damping capacity be used to characterize fatigue behaviour of thermoplastic composites? Co-authors: John-Alan Pascoe; René Alderliesten	S1259 - Emile S Greenhalgh (Department of Aeronautics, Imperial College London) Fractographic Insights into the Optimum Microstructures for Structural Supercapacitors Co-authors: Dmitry S. Ivanov; Odysseas Kakavelidis; Anthony Kosmrlak; Sang Nguyen; Dominic R. Pahlisch; Shimeng Qian; Milo Shaffer; Rajat Sharma; Nataliya Shirokova	S306 - Baris Caglar (TU Delft) Fiber detection in microstructural images of composites: benchmarking and sensitivity analysis of segmentation methods Co-authors: Guillaume Broggi; Onur Yuksel; Vincent Maes; Robin Hartley; James Kratz	S1019 - Mohammad Sheikhi (Department of Materials Engineering, KU Leuven) Efficient Damage Prediction in Composite Pressure Vessels through Representative Modelling Co-authors: Christian Breite; Ian Ivens; Yentl Swolfs	S156 - Lucija Stoginac (EPFL) Additively Manufactured Polymeric TPMS Façade Co-authors: Anastasios Vassilopoulos	S1379 - Yağız Özbek (Sabancı University) From AFP Waste to High-Ready Sandwich Skins: Strand-Tailored Skins, Core-Stabilized Geometry, and Plasma Activated Bonding Co-authors: Abdulrahman Al-Khalaf; Mehmet Yildiz; Hatice Sinem Şaş	S573 - Pierre-Alexandre Bosch (EPL) Machine Learning Surrogate Models for Hashin-3D Failure Prediction in Thick FRP Laminates Co-authors: Pierre-Alexandre Bosch; Joël Cugnoni; Véronique Michaud	S1054 - Rui Guo (Department of Materials Engineering, KU Leuven) High-fidelity micromechanical modelling of transverse tensile damage in cross-ply composites Co-authors: Christian Brabo; Hahnsaar Mehdikhani; Yentl Swolfs	S631 - Mar Zuazo Ruiz (FIDAMC, Foundation for Research, Development and Application of Composite Materials) Stamping and AFP for Next-Gen High-Rate Flaperon Manufacturing Co-authors: Katla Fernández Horcajo; Rafael Contanto Tercedor; Alberto Hernandez Ortiz; Alberto Blanco Lais
14:45		S1490 - Panayiotis Tsokanas (Department of Materials Engineering, KU Leuven) Effect of interface ply orientation on mode II delamination observed by in situ X-ray computed tomography Co-authors: Fiona Decaderincr; Thanasis Chatzitheannou; Mahsor Mehdikhani; Yentl Swolfs	S1245 - Alberto Ciampaglia (Politecnico di Torino) Self-Sensing Capability of Hybrid Short Carbon/Glass Fiber Thermoplastic Composites for Damage Monitoring under Static and Fatigue Loading Co-authors: Daniele S. Paolino; Raffaele Ciardiello	S249 - Wajih Akkiri (Université Marie et Louis Pasteur, SUPMICROTECH, CNRS, Institut FEMTO-ST) Fatigue Analysis and Residual Strength Evolution of High-Performance Unidirectional Carbon Fibre Composites for Hydrogen Storage Applications: Characterisation Using Split-Disk Ring Tests Co-authors: Xavier Gabrion; Violaine Guicheret; Vincent Placet; Frédéric Thiebaud	S799 - Beatriz Arouca Maia (INEGI) Revolutionizing Energy Storage with Coaxial Structural Batteries	S327 - Vincent Maes (University of Bristol) Benchmark Activity for micro-Structure Image-processing for Composites: Voids in 2D Co-authors: James Kratz; Griffin Antcliff Antcliff; Christophe Blevincq; Guillaume Broggi; Baris Caglar; Clemens Dransfeld; Silvia Gomarasca; Wouter Grasser; Robin Hartley; James Kratz; Arthur Levy; Mahsor Mehdikhani	S912 - Youssef Mrabti (Technical university of munich, TUM School of Engineering and Design, Chair for Carbon Composites) Manufacturing of carbon-fiber reinforced foam elements for energy storage in space applications Co-authors: Gabriel Eduardo Rojas Valenzuela; Konstantin Trigaev; Claudius Breitmoser; Maximilian Konstantin Strobel; Klaus Drechsler	S137 - Won-Kee Hong (Department of Architectural Engineering, Keyang Hwa University) Data-centric Lagrange-based multiple objective optimizations of biaxial loaded rectangular columns using nonlinear programming Co-authors: Tien Dat Pham	S271 - Amit Chanda (School of Mechanical and Aerospace Engineering, Nanyang Technological University (NTU)) Spanwise-assisted Debonding on-demand Structural Adhesives for Recyclable Composite Structures Co-authors: Jiaxiao Wang; Raju V. Ramanujan; Terry W.J. Steele; Sridhar Idapalapati	S715 - Alexy Taillour (DMAS, ONERA, Université Paris Saclay) Modelling the effect of out-of-plane waviness defects on damage and failure of thermoset laminates Co-authors: Christian Fagiano; Martin Hirsekorn; Frédéric Laurin; Myriam Kaminski; Martin Desaleux	S1242 - Ellenne Dubois (PIMM (ENSAM, CNAM, CNRS)) In-situ Control and Modelling of the Liquid Composite Molding Process – Non-intrusive Monitoring of the Degree of Polymerization Co-authors: Juan-Pablo Marquez Costa; Pierre Margerit; Marc Rebillat	S1130 - Pooria Khalili (University of Borås) Sustainable Hybrid Natural Fiber Composites: Mechanical Performance and Life Cycle Assessment Co-authors: Mikael Skrifvars
15:00		S1627 - Bent F. Sørensen (Technical University Of Denmark) Similitude in determining crack growth with large-scale fibre bridging Co-authors: Ashish K. Bangaru; Ruben Erives	S578 - Donnol Perrine Hedayati (Advanced Materials and Structures Lab (AMSL), Faculty of Engineering, Leipzig University)(Applied Sciences (HTWK Leipzig)) Damage-Induced Electrochemical Degradation in Structural Supercapacitors Co-authors: Rafael Schellow; Enrico Cortes; Beatriz Arouca Maia; Lina Melina Dosa; Filipa Ribeiro; Pedro Nuno Fernandes; Andreia Araújo; Robert Böhm	S818 - Andrea Bernasconi (Politecnico di Milano) Fatigue resistance and self-healing of carbon fiber reinforced vitrimers subjected to bending tests Co-authors: Elena Spoelstl; Giulia Altamura; Luca Michele Martelli; Gianmarco Griffini; Stefano Turri	S1265 - Riko Hamdyan (Department of Materials

ECCM22 — MONDAY (08:00-19:00) — TECHNICAL PROGRAMME · VERSION 2 (updated 19 June 2026)
◆ + italic = Short oral (7 min) · plain = Full oral (15 min) · Minor changes to the programme may occur.

Time	Activity	A	B	C	D	Forum	M1	M2	M4	M5	Balder	Odin
17:00		#1316 · Sérgio Costa (GKN Aerospace) Modelling and simulation of fibre kinking response in CFRP with focus on thermal effects – experiments and simulation Co-authors: Yvonne Aitomaki; Dimitra Ramantani	#597 · Riccardo Di Giovanni (Politecnico di Milano, Department of Chemistry, Materials and Chemical Engineering "Giulio Natta") Temperature dependent vitrimer matrix composites fracture behavior Co-authors: Lorenzo Di Marco; Alessandro Milite; Federico Olla; Narongkorn Krajangsawasdi; Roberto Frassine; Marco Luigi Longana	#458 · Essi Sarlin (Tampere University) Combined resizing and binding process for recycled carbon fibre mats for improved composite properties Co-authors: Jesse Savolainen; Olatz Ollo; Mariasun Mendizabal; Sonia Garcia	#1186 · Robert Pierce (DTU Wind and Energy Systems, Technical University of Denmark) Evaluating Modelling Assumptions for Large-Scale VARI Processes Co-authors: Daniel Griffin; Michael Elkington	#636 · Kevin Chen (Leibniz-Institut für Verbundwerkstoffe (IVW Kaiserslautern)) A-Priori-Informed Instance Segmentation of µCT Scans of Woven Fiber Composites on the Mesoscale Co-authors: Benedikt Boos; Andreas Gebhard; Martin Gurka	*◆#380 · Dhruv Narayan Mudgal (Ghent University)* *Experimental and Analytical investigation of residual stresses in filament wound composite rings* *Co-authors: Matteo Pastrello; Nazim Ali; Kobe Vandevelde; Ives De Baere; Wim Van Paepegem* —— *◆#779 · Pedro Abreu (PIEP - Polo de Inovação em Engenharia de Polímeros)* *Development of a thermoplastic type IV composite pressure tank for hydrogen storage at 700 bar for mobility applications* *Co-authors: Helena Rocha; Carla Martins; Paulo Antunes*	#1624 · Michele Zappalorto (University of Padova) Structural Health Monitoring of Composite Structures Through Electrical Measurements and Deep Learning Co-authors: Alvise Gazzola; Paolo Andrea Carraro; Marino Quaresimin	*◆#692 · Emanuele Drago (University of Palermo)* *Functionalizing flax fibers through metakaolin dispersion for the formulation of enhanced geopolymer composites* —— *◆#48 · Jia-Lin Tsai (National Yang Ming Chiao Tung University)* *Investigate the laser-induced surface treatment in the interfacial shear strength of carbon fiber/epoxy composites* *Co-authors: Yuan-Chi Fan; Chung-Wei Cheng*	#1007 · Xiaodong Wang (Beihang University) Intelligent Design Method of Composites Layup Based on Generative Neural Network Co-authors: Zhidong Guan; Zengshan Li	*◆#422 · Elena Rodríguez (AIMEN)* *Design and Processing of High-Loaded Composite Filaments for Additive Manufacturing: From Bonded Magnets to Ceramics and Metals* *Co-authors: Ricardo Losada; Marisol Rivas; Rebeca Abalde; Diego Cabaleiro; Ander Reizabal; Olalla Sanchez* —— *◆#437 · Marina Kühn-Kauffeldt (Universität der Bundeswehr München)* *Vacuum-Arc–Enhanced Additive Manufacturing of Functional High Performance Polymer Composites* *Co-authors: Marvin Kühn; Jay Phuerkthayanon*	#1298 · Qingsheng Yang (Beijing University of Technology) Effective Mechanical and Diffusion Behaviors of Fiber-Reinforced Hydrogel Composites Co-authors: Xia Liu
17:15		#1313 · Lei Wan (Northwestern Polytechnical University) Micromechanical progressive failure analysis of UD CFRP composites with 3D waviness under longitudinal compression Co-authors: Jiayun Chen; Sérgio Costa	#1070 · Fabrice Congourdeau (DASSAULT AVIATION) Fatigue prediction of delamination : challenges, characterization, modelling and industrial implementation Co-authors: Alban ROBIN; Dominique Martini; Vincent JACQUES	#169 · Mariana Pereira (Politecnico Di Milano) Towards High-Value Recycling of Composites Using High Voltage Fragmentation Co-authors: Matteo Grante; Marco Diani; Marcello Colledani	#124 · Vasileios Karatzas (DNV Denmark A/S) Lifetime extension approaches of wind turbine blades based on testing Co-authors: Christopher Harrison; Xiao Chen; Bent Sørensen	#574 · James Kratz (University of Bristol) Discussion of Needs and Opportunities for Image-Based Analysis of Composite Features Co-authors: Baris Caglar	*◆#707 · Silvia Regina Imrich (Institute of Polymer Materials and Plastics Engineering, Clausthal University of Technology)* *Influences on the fiber volume content during filament winding of thick-walled carbon fiber reinforced composite components with thermosetting matrix* *Co-authors: Gerhard Ziegmann* —— *◆#729 · Florian Schmidt (TU Dresden ILK)* *Development of a method for inline winding tension monitoring and component measurement in the wet winding process of hydrogen pressure vessels* *Co-authors: Sirko Geller; Maik Gude*	#1156 · Dilan Arslan Catak (Istanbul Technical University) Spray Printing of Carbon Nanomaterial-Based Strain Sensors onto Composite Structures: A Facile Method for Customizable Smart Structures Co-authors: Adel Alrai; Ramazan Yuksel; Furkan Tepe; Deniz Koken; Kaan Yildiz; Alptekin Yildiz; Hulya Cebeci	*◆#646 · Marco Luciano (Department of Engineering, Universita' degli Studi di Palermo)* *Interfacial Engineering of Flax-Based Bio-Composites via PCL Coatings: An Experimental and Computational Analysis* *Co-authors: Iryna Kovinchuk; Emanuele Drago; Vincenzo Fiore; Gennaro Scarselli; Antonino Valenza* —— *◆#931 · Dana Skácelová (Department of Plasma Physics and Technology, CEPLANT - R&D Centre for Plasma and Nanotechnology Surface Modifications, Faculty of Science, Masaryk University, Kotlářská 267/2)* *Plasma-enhanced interfacial bonding in FRP composites: Effects on fiber–matrix adhesion and dynamic mechanical response* *Co-authors: Eliška Rapcová; Alžbeta Pastieriková; Lenka Vítková; Richard Krumpolec; Slavomír Sihelník; Martina Drdlová; Dušan Kováčik*	#1168 · Carolina Furtado (University of Porto) Machine Learning-Accelerated Predictions of Design Allowable of Composite Laminates Co-authors: Luís Rodrigues; Igor Lopes; João Esteves; Federico Danzi; Gerard Guillamet	*◆#1163 · Sofía Peláez Peláez (Advanced Manufacturing and Inspection Technologies Research Group, I4 Institute, Universidad de León)* *Integration of Ceramic UV Laser Vat Photopolymerization (VPP-UVL) and Spark Plasma Sintering (SPS) for the Manufacturing of High-Performance Cu/Al_2O_3 Composites* *Co-authors: Sara Giganto; Álvaro Martínez-Sánchez; Carlos F. Gutiérrez-González; Joaquín Barreiro; Susana Martínez-Pellitero* —— *◆#1251 · Gergő Zsolt Marton (Budapest University of Technology and Economics)* *Modelling and investigation of composites with predefined failure* *Co-authors: Gábor Szebényi*	#1368 · Janani Anbu Anandhan (Indian Institute of Technology Madras) DLP Printed Hybrid Resin Composites for Biomedical Applications: Mechanical and Structural Assessment Co-authors: Shankar Krishnapillai; Velmurugan Ramachandran
17:30		#157 · Emmanuel Fabing (Dassault Systèmes) A numerical model to predict compressive strength with fibre defect and structural contributions Co-authors: Pierre-Yves Méchin; Jean-Claude Grandidier; Vincent Keryvin	#946 · Brian Falzon (Western Sydney University) Influence of z-pin length on the synergistic mode I delamination behaviour of multi-scale toughened carbon fibre composites. Co-authors: Anil Ravindran; Raj Ladani	#1190 · Violetta Schumm (Fraunhofer IGCV) Characterization of recycled carbon fiber composites based on aligned wet-laid nonwovens Co-authors: Michael Sauer; Frank Manis	#798 · Nawres Al-Ramahi (RTU) Use of Recycled Short Carbon Fibers for Anti-icing Applications in Wind Turbine Blades Co-authors: Roberts Joffe	#826 · Camiel Posthuma (University of Twente) 3D microstructural characterization through micro-CT-based statistical analysis of fiber reinforced thermoplastic polymers Co-authors: Chongrui Tang; Mohammed Iqbal Abdul Rasheed; Theodorus Hendrikus Hoksbergen; Remko Akkerman	*◆#1206 · Markus Bellmann (University of Stuttgart, Institute of Aircraft Design)* *Development of a Robotic Winding Head with Active Tension Control* *Co-authors: Stefan Carosella; Peter Middendorf* —— *◆#851 · Sukhwant Pal (Skolkovo Institute of Science and Technology)* *Manufacturing and Characterization of Polyamide 6 based Thermoplastic Pultruded Profiles with Carbon and Glass Fibers* *Co-authors: Sergey Gusev; Yuri Yavorsky; Alexander Safonov*	#652 · Kristine M. Jespersen (Technical University of Denmark) Terahertz spectroscopy for non-destructive evaluation of defects in glass fiber composite sandwich panels Co-authors: Ruben I. Erives; Ashish K. Bangaru; Kaj K. Borum; Simon J. Lange; Bjørn Mølvig; Thorsten Bæk; Nicolai F.-J. Johansen	*◆#817 · Subba Reddy Daggumati (Indian Institute of Technology, Tirupati)* *On the determination of Fiber/Matrix Interface mode-II Fatigue Parameters: A Concurrent Experimental & Computational Approach* *Co-authors: Bhemineni Sudeep* —— *◆#901 · Akshay Sunil Salvi (Indian Institute of Science, Bangalore)* *Tailored interface by growing ZnO nanoflakes on CF surface using microwave radiation for CF/PEI laminates* *Co-authors: Subodh Kumar; Suryasarathi Bose*	#685 · Sadik Omairey (Brunel Composites Centre) AI-Enhanced Multiscale Predictive Modelling for Characterising Recycled, Bio-Based, and Virgin Plastic Materials Co-authors: Faranak Bahrami; Nithin Jayasree; Michail Kazilas; Mir Nafis Sharear Shopnil; Mohammad Anis Uz Zaman	*◆#445 · Sebastian Backes (Institut für Textiltechnik of Rwth Aachen University)* *3D printing of fibre-reinforced plastics - optimised carbon structures in different variants and with no need for complex moulds* *Co-authors: Paul Zachäus; Thomas Gries* —— *◆#1389 · Paul Zachäus (Institut für Textiltechnik of RWTH Aachen University)* *A New Material-Efficient Approach for 3D Printing Complex Continuous Fibre-Reinforced Parts Using UV Curing Resins* *Co-authors: Sebastian Backes; Thomas Gries*	#1271 · Tim Huber (Luxembourg Institute of Science and Technology (LIST)) Regenerated Cellulose Fibre Composites: From Processing–Structure Relations to Advanced Sustainable Applications Co-authors: Nina Graupner; Jörg Müssig
17:45		#193 · Nicolas Carrere (Ensta-IPP/IRDL) Fatigue of Laminated Composites under Compressive Loading: Comprehensive Investigation of Dissipative and Failure Mechanisms Co-authors: Otavio Zimmermann de Almeida; Matthieu Le Saux; Gurvan Moreau; Yann Marco	#1509 · Valentin Begin (Laboratoire de Mecanique et d'Acoustique - Aix-Marseille University) Analysis of Delamination in static and fatigue in a laminated composite Co-authors: Hochard Christian	#706 · Eleonora Di Francesco (University of Genoa) Induction heating treatment of wind turbine blade glass-fiber-reinforced epoxy resin as an alternative recycling method Co-authors: Maila Castellano; Silvia Vicini; Nadia Parodi; Riccardo Freccero; Andrea Pastorino; Dario Cavallo	#1249 · Sina Samareh (Department of Wind and Energy Systems, Technical University of Denmark) Experimental investigation of the creep response of a 12.6m wind turbine blade Co-authors: Peter Berring; Sergei Semenov; Sebastiaan Abraham Gerald van Putten; Kim Branner	#930 · Mohamad A. Raja (Faculty of Aerospace Engineering, Department of Aerospace Structures and Materials, Delft University of Technology (TU Delft)) Statistically Equivalent Microstructure Reconstruction of As-Manufactured 3D CFRP: From High-resolution X-Ray Micro-Computed Tomography to High-fidelity Fiber Network Architectures Co-authors: Silvia Gomarasca; Clemens Dransfeld; Boyang Chen	*◆#1515 · Takeshi Eguchi (Dai-Ichi Dentsu Ltd.)* *High-Quality Manufacturing of T-profile Beams Using Thermoplastic Prepreg Tape Pultrusion with Multi-directional Servo-controlled Compression* *Co-authors: Kazuaki Nishiyabu* —— *◆#1401 · Jeong-gyu Kim (Gyeongsang National University)* *Investigation of Electric Field Effects on Resin Impregnation Behavior and Interfacial Properties in the VaRTM Process* *Co-authors: Hyeon-ju Seong; Jin-ho Choi; Seung-yoon On*	#577 · Urs Zimmermann (OST Eastern Switzerland University of Applied Sciences / KTH Royal Institute of Technology Stockholm) Synergy between Optical and Embedded Sensor Techniques in Structural Health Monitoring of Composites Co-authors: Luca Keller; Gion Andrea Barandun; Malin Åkermo	*◆#681 · Gautier Allusse (Institut Clément Ader - Univ Toulouse, IMT Albi, INSA Toulouse, ISAE-SUPAERO, CNRS)* *Characterization of acrylic resin surface energies and effect on permeability measurements of fibrous reinforcements* *Co-authors: Monica Francesca Pucci; Rami Alawar; Quentin Govignon; Pierre-Jacques Liotier; Olivier De Almeaida* —— *◆#562 · Ryogo Konomi (Graduate School of Science and Technology, Tokyo University of Science)* *Molecular Dynamics Simulations on the Adhesive Properties of Thermosetting and Thermoplastic Resins* *Co-authors: Yutaka Oya; Maruri Takamura; Ryo Inoue; Jun Koyanagi*	#1081 · Yanqiu Zhu (School of Aeronautic Science and Engineering,Beihang University) A Multi-Level ANN-Enhanced Framework for Rapid Progressive Damage Analysis of Aeronautical Composite Laminates Co-authors: Weijie Zhang; Xi Zou; Shibo Yan	*◆#1095 · Ertug Ihsan Tanisan (University of Strathclyde, Faculty of Engineering, Department of Mechanical and Aerospace Engineering)* *Influence of Process Parameters on the Slurry Erosion Behaviour of 3D-Printed Polylactic Acid* *Co-authors: Reda Felfel; Liu Yang* ——	#71 · Sarina Schulte (Hochschule Hannover - University of Applied Sciences and Arts) Process-Structure-Property Relationships in Flax Fiber-Reinforced Composites Using PLA and PA11 Film Stacks for Lightweight Applications Co-authors: Chayenne Maries Witte; Svea Wehlage; Jan Tinnemeier; Natalie Empting; Leon Magnusson; Ole Gonnsen; Stephen Kroll; Andrea Siebert-Raths

ECCM22 — TUESDAY (08:00–18:00) — TECNICAL PROGRAMME - VERSION 2 (updated 19 June 2026)
◆ = italic = Short oral (7 min) - plain = Full oral (15 min) - Minor changes to the programme may occur.

Time	Activity	A	B	C	D	Forum	M1	M2	M4	M5	Balder	Odin
08:00–08:45	PLENARY 2 - Anastasios P. Vassilopoulos (EPFL) & Alexander Krimmer (TPI Composites GmbH) Theory and practice of composites in renewable energy - how dreams come true Chair: Wim Van Paepegem (Ghent University)											
09:00–11:00	SESSION 5											
09:00	Session →	S530 - Understanding and improving longitudinal compressive strength Session chair: Richard Trask, Bohao Zhang (University of Bristol)	S521 - Computed tomography Session chair: Yentl Swolfs, Christian Breite, Mahsoor Mehdikhani (KU Leuven)	S507 - Cryogenic Testing and Material Characterisation Session chair: Andrew Rhead (University of Bath), Ole Thomsen (Bristol Composites Institute)	4.7 Optical Fiber Sensors, 4.9 Thermography & 4.5 Non-destructive evaluation Session chair: Dimitrios Bekas (Airbus), Dimitrios Zarouchas (TU Delft)	S526 - EcoComposites Cluster - Sustainability of composites in the transportation sector Session chair: Mehdi Mario (IRT Jules Verne), Kate Trompeta (National Technical University of Athens), Costas Charitidis (National Technical University of Athens)	S14 - Session Honoring Mostafa Abdalla Session chair: Daniël Peeters, Roeland De Breuker (TU Delft)	2.1 Bio-Derived and Sustainable Composites Session chair: Véronique Michaud (EPFL), Alice Mija (Université Côte d'Azur)	S518 - Composite Materials for Hydrogen Economy Session chair: Lukasz Figiel (University of Warwick), Maria Grazia De Angelis (University of Edinburgh), Marcus Wallis-Brock (NCC)	3.9 Fracture and Damage Session chair: Kamran Khan (Khalifa University), Theodoros Loutas (University of Patras)	3.15 Multiphysics Modelling Session chair: Martin Fagerström (Chalmers University of Technology), Stergios Goutianos (NTNU)	S503 - Power Ultrasonics in Processing and Joining of Composites and Multi-Materials Session chair: Moritz Liesegang (RPTU Rheinland-Pfälzische Technische Universität Kaiserslautern), Sankhya Mohanty (Technical University of Denmark)
09:00						◆488 - Alexandros Georgios St [Innovation in Research and Engineering Solutions SNC (RESI)] Modeling the CO2 Mitigation Potential of Bio-Based and Recycled Composite Materials Co-authors: Alexandros Georgios Stavrou; Anastasia Glikha; Emmanouil Markakis; Fotoini Petrudi; Evangelia Stamkopoulou; Elias Koumoulos	#965 - Daniël Peeters (Delft University of Technology) How to determine the influence of gaps in automated fibre placement?	#561 - Kohta Tanaka (Waseda University) Fabrication of Foran/Glass Fiber Composites Using Acid Adsorbent and Improvement of Their Mechanical Properties by Silane Treatment of Glass Fibers Co-authors: Taisuharu Yamada; Taiki Moriya; Yoshihiko Arao	#546 - Roman Beck (German Aerospace Center (DLR)) Permeability analysis of adhesives for CFRP hydrogen tank development Co-authors: Rubekka Hundertmark; Thomas Geiselt; Josef Koord; Christian Hühne	#784 - Carlos Sandino (Universidad de Sevilla) Effect of Ply Thickness on Transverse Damage Tunnelling in Glass/Epoxy Laminates Co-authors: Serafín Sánchez Carmona; Elena Correa Montoto	#341 - Mohammad Rouhi (RISE Research Institutes of Sweden) Multiphysics Simulation of Linerless CFRP Tank for LH2 Storage Co-authors: Erik Marklund; Abishek Ramachandran; Runar Lingström; Jocke Pettersson	#669 - Moritz Liesegang (RPTU Rheinland-Pfälzische Technische Universität Kaiserslautern-Landau) Processing and Repair of Fibre-Reinforced Polymers and Fibre-Metal Laminates by Power Ultrasonics
09:15					#1670 - Janice Dulieu-Barton (University of Bristol) Quadrilateral Microstructured Optical Sensors for Monitoring the Manufacture and Performance of Composite Structures Co-authors: Robin Hartley; James Kratz; Pawel Maniewski; Timothy Lee; Gholamreza Dhunegaard; Bruno Mesgi; Martynas Beresna; Christopher Holmes	#641 - Jan-Marten Spenger (Ft-avaNetar-X EAM) Efficient processing of biobased benzoxazines: A step towards sustainable biocomposite manufacturing through catalysed curing Co-authors: Katharina Arnaut; Katharina Haag	#667 - Alexandre Morland (DELFT UNIVERSITY OF TECHNOLOGY) Assessing the impact of fiber angle deviations and gaps on the structural performance of variable stiffness laminates Co-authors: Daniël Peeters	#524 - Wim Van Paepegem (Ghent University, Mechanics of Materials and Structures) Development of recyclable vitrimer matrix systems for infusion processes in large-volume applications Co-authors: Virginia Amfilochiou; Ines De Baere; Tapas Debsharma; Susanne Fischer; Harald Stecher; Filip De Proi	#431 - Bernd Wetzel (Leibniz-Institut für Verbundwerkstoffe GmbH (IVW)) Hydrogen permeability of composites for type 5 hydrogen tanks Co-authors: Mohamadreza Nastrzadeh Tabrizi	#784 - Carlos Sandino (Universidad de Sevilla) Effect of Ply Thickness on Transverse Damage Tunnelling in Glass/Epoxy Laminates Co-authors: Serafín Sánchez Carmona; Elena Correa Montoto	#450 - Hyoung Jun Lim (Gyeongsang National University) Finite element simulation of stamp-forming-induced deformation in thermoplastic composites Co-authors: Joongwoon Lee; Byeong-Su Kwak; Sung-Ha Ji; Hyun-Woo Ju	#1172 - Lukas Neuman (DLR e.V. Institute of Structures and Design, Center for Lightweight Production Technology) Displacement Controlled Ultrasonic Welding of Carbon Fiber Reinforced LM PAEK Laminates - Increased Process Reliability and Repeatable Joint Properties Co-authors: Stefan Janku; Maximilian Janek; Lars Larsen
09:30		#244 - Bodo Fiedler (Hamburg University of Technology, Institute of Polymers and Composites) Influence of Fibre Misalignment and Temperature on the Compressive Failure of GFRP Co-authors: Jonas Drummer	#834 - Kosuke Takahashi (Hokkaido University) Three-Dimensional Nano-Imaging of Interface Crack Growth Along Carbon Fibers Under Cyclic Loading Co-authors: Naoya Matsuda; Ryo Kumagai	#385 - Stefanos Giannis (National Physical Laboratory) Instrumented nanoindentation at cryogenic temperatures: A method for fibre/matrix characterisation Co-authors: Hannah Zhang; Stefan Stoica	#663 - Cristian Bulos Cárden (Advanced Composites Technologies, R&D Division, AIMEN Technology Centre) Process monitoring for a full-scale wing-box using hybrid Fiber Optic Sensors in a One-Shot Co-Bonding Manufacturing Process ◆1670 - Optical fibre sensor placement for Composite Hydrogen Tanks Co-authors: Karthik Ramaswamy; Mirko Simonetto; Kavan Dissanayake; Roger Groves	#415 - Guillaume Vincent (Nantes University, IRT Jules Verne) Sustainable manufacturing of hollow parts from staple yarns and bladder-assisted RTM Co-authors: Thomas Le Hebel; Athanasios D. Porfyris; Stefania Tormino; Costas A. Charitidis; Sébastien Guénault; Mehdi Matin	#973 - Aramshu Modi (Delft University of Technology (TU Delft)) Laminate-parameters for hybrid composite laminates Co-authors: Saullo Castro; Daniël Peeters	#1160 - Foutzs (Ivana) Anagnou (Luxembourg Institute of Science and Technology) Flexural and interlaminar shear performance of glass fibre-reinforced benzoxazine vitrimer composite for aircraft cabin interior application Co-authors: Pierre Verga; Gaetano Giunta; Lucas Binsfeld	#875 - Ibrahim Sebai (ENSAM) Towards Optimal Fabrication of Composite Hydrogen Pressure Vessels: Coupling Design and Manufacturing through Wound/Dm-Based Surrogate Optimization Co-authors: Jaouhar JEBLI; Stéphane GILLET; Mohammadali SHIRINBAYAN; Amine ABKHOU; Joseph FITOUSSI	#1090 - Theodoros Loutas (University of Patras) Physics-informed Neural Network for Fracture Mechanics in Composite Structures Co-authors: Giannis Stamatelatos; Georgios Kotsinis	#509 - Paul Kraszkopf (Groupe de Physique Des Matériaux (GPM-INSA Rouen) / Safran Nacelles) Analysis of the thermo-mechanical behaviour of an aeronautical composite–metal bolted assembly undergoing a fire test Co-authors: Tanguy Davin; Clément Victor; Fabrice Barbe; Benoit Vieille	#1440 - Maryam Ahanpanjeh (Helmut Schmidt University) Hybrid Force and Trajectory Control for Improving Weld Quality in Robotic Continuous Ultrasonic Welding of CFR-TP Co-authors: Filipp Köhler; Marc Fette; Jens P. Wulfsberg
09:45		#1193 - Mark Battley (The University of Auckland) Influence of Stitching Yarn Fibre Misalignment and Static and Fatigue Compression Behaviour of Non-Crimp Fabric Composite Materials Co-authors: Nicola Shepherd; Tom Allen	#1159 - Alice Paganoni (Department of Materials Engineering, KU Leuven) Multi-scale characterization of damage in carbon fiber-reinforced composites under in situ Synchrotron Computed Tomography Co-authors: Salaheddine Emine Mad; Camilo Rojas Gomez; Thanasis Chatzitheanasiou; Elise Van Vlierberghe; Lourens Blok; Jonathan Wilson; Michael Wu; Dirk Hoiber; Julia Villanova; Jan Ivens; Christian Breite; Yentl Swolfs	#482 - Nils Wicja (TUD Dresden University of Technology, Institute of Lightweight Engineering and Polymer Technology) Cryogenic crack effects on the gas permeability of CF/44-PAEK Co-authors: Jan Cordel-Walther; Christoph Ebert; Maik Gude	#1448 - Nan Tao (Department of Aerospace Structures and Materials, Delft University of Technology) Optical Fibre Sensor Placement for Composite Hydrogen Tanks Co-authors: Karthik Ramaswamy; Mirko Simonetto; Kavan Dissanayake; Roger Groves	#1295 - Mona Jarrad-Maghadam S (Université Côte d'Azur, Institut de Chimie de Nice, UMR 7272, CNRS, Nice, France) Fast curing bio-derived epoxy thermoset with tunable hardener systems for high performance industrial applications and demonstrated chemical recycling Co-authors: Fakhri-Eddin Nadir LahSadir; Nathanael Guigo; Luc Vincent; Nicolas Sbirrazzuoli	#541 - Sergio Turteltaub (Delft University of Technology) Thermo-mechanical characterization of building-induced skin-stringer performance with in-situ printed monolithic composite panels Co-authors: Andres Pereira; Christos Kassapoglou	#268 - Sithipurnmova Dol (Laboratory for Advanced Fibers, Empa) Development of Overcoated Prepreg Filaments Co-authors: Compositio Co-authors: Rudolf Hufenus; Edith Perret	#298 - Isha Gupta (University of Southampton) Assessing Damage Modes in Architected Interpenetrating Metal- Polymer Phase Composites Using X-ray CT Co-authors: Aadithhya Jayaprakash	#468 - Kaan Deniz (Bristol Composites Institute, University of Bristol) Fast and accurate thermo-mechanical model for the simulations of thermoplastic composites fast processing Co-authors: Veit Woerlein; Eric Mischner; Kaul Gomez Quinones; Kate Gongadze; Stephanie Miet; Karine Labadie; Attilio Chiappini; Maik Gude; Stephen R. Hallett; Jonathan P. -H Belnoue	#864 - Bram Jongbloed (SAM-XL) Ultrasonic welding of thermoplastic composites: A phase control method for continuous ultrasonic welding of thermoplastic composites Co-authors: Nigel van Nieroop
10:00		#350 - Pivokopi Magotra (DTU Wind, Technical University of Denmark) Finite element modelling of unidirectional carbon fiber notched composite under compression using in-situ X-ray scanned fiber orientation data Co-authors: Anirudh Kohli; Konstantinos Poulios; Prasad Potluri; Philip J. Withers; Lars P. Mikkelsen	#480 - Chih-Yu Chen (Chair of Carbon Composites, TUM School of Engineering and Design, Technical University of Munich) Microstructural Analysis of Compacted Continuous Fiber 3D Printed Parts Using In-Situ X-ray Computed Tomography Co-authors: Dennis Bublitz; Garth Pearce; Klaus Drechsler	#1287 - Radovan Fridrich (National Physical Laboratory) Mode I fracture toughness at cryogenic temperatures: Is crack growth monitoring necessary? Co-authors: Nassos Spetsieris; Michael Gower; Stefanos Giannis	#1038 - Shijie Zhang (Northwestern Polytechnical University) Characterizing Mixed-Mode Fracture Behavior in Composite-Metal Joints via Back Face Strain-Derived Method Co-authors: Yilin Jin; Wandong Wang	#573 - Lander Vertongchen (DMAS, ONERA, Université Paris-Saclay) Introducing fiber steering in a stacking sequence table for improved performance matching in a bi-level composite optimization Co-authors: Cédric Julien; Attilio Chiappini; François-Xavier Irisarri	#1450 - Sandu Cîlcotaru (Université Côte d'Azur) Flavonoid-Derived Thermosets: A Dual Strategy for High Performance and Polymer Circularity Co-authors: Roxana Dinu; David Swanson; Alice Mija	#1384 - Martin Starke (University of Technology Dresden, Institute of Aerospace Engineering, Chair of Aircraft Engineering) Design and simulation of load-bearing hydrogen tank integrations in wing structures Co-authors: Chris Fischer; Manuel Reiß; Georg Grötzschel; Martin Seinsch; Johannes Marmiller	#724 - Paulo Pereira (INEGI, Faculdade de Engenharia, Universidade do Porto, Rua Dr. Roberto Frias, 4200-465 Porto, Portugal) The effect of mismatch angle of double-double composite laminates under quasi-static and fatigue loading conditions Co-authors: Federico Danzi; Torquato Garulli; Jordi Renart; Carolina Furtado	#580 - Yu Wang (Laboratoire FAST,CNRS,Université Paris-Saclay) Avalanche description focusing on the twisted yarn under tensile loading Co-authors: Antoine Seguin	#287 - Edoardo Toscano (DTU Civil and Mechanical Engineering) Predictive Model for Temperature and Mechanical Strength in Ultrasonic Spot Welds of Binder-stabilized Glass Fiber Preforms Co-authors: Jesper Lisegaard; Sankhya Mohanty
10:15		#1035 - Gustavo Quino (Imperial College London) From constituent to composite: multiscale experiments for enhanced compression performance Co-authors: Bohao Zhang; Eleni Georgiou; Ian Hamerton; Paul Robinson; Richard S. Trask	#924 - Sudip Bose (Henry Royce Institute, Department of Materials, University of Manchester) Rapid inspection of CFRP Composites leveraging Digital Tomosynthesis: A Comparative Analysis with Conventional CT Co-authors: Mary Chris Aspera Go; Matteo Contino; Prasad Potluri; Philip J. Withers	#1410 - Jakub Takin (Institute of Fundamental Technological Research, Polish Academy of Sciences) CNC-mounted experimental platform with a multi-detector array for mechanical test of composite materials at 4 K and 77 K Co-authors: Adam Brodecki; Adam Szyszko; Hubert Nejman	#710 - Joanna Koman (University of Bath) Turning Up the Heat: A Novel Xenon Flash Lamp-Based Active Thermography Method for Identifying Composite Defects Co-authors: Tim Harrell; Fabio Pinto; David Williams	#737 - Stefania Tormine (R-NanoLab, School of Chemical Engineering, National Technical University of Athens) Innovative Carbonisation Pyrolysis Process: Set-up of the reclamation line and CFRP recycling flexibility assessment Co-authors: Stavros Anagnou; Aikaterini-Flora Trompeta; Damien Lecoëtre; Costas Charitidis	#1381 - Javad Fatemi (Airbus Netherlands) Fiber Steering for Variable Stiffness Composites: A Technology Development Program for Next-Generation Rocket Engine Frames	#85 - Carol Rodricks (Bundesanstalt für Materialforschung und -prüfung (BAM)) Novel Recyclable Hexanorbical Carbon Fibre/Epoxy Composites: Preserving Fibre Length and Performance Co-authors: Daniela Rasch; Ralf Emmerich; Ulrich Panne	#367 - Luz Aguilar (IMT Nord Europe, KU Leuven) Realistic fibrous structure of Elium-based filament wound hydrogen storage tanks Co-authors: Jan Ivens; Stepan Lomov; Dmytro Vasiukov	#619 - Mohamed Bedir (Technological University Dublin) Influence of Loading and Environmental Conditions on Adhesively Bonded Composite Joints: Assessing Controlled Polymer Ablation as a Surface Pre-Treatment Co-authors: Rúbi Palarek; Aaron Byrne; Shubham Sharma; Cian Madigan; James Clancy; James Nicholas Barry; Brandon Crosbie; David Murray; Tomás Flanagan; Joseph Mohan	#947 - Jiaxao Li (Beihang University) Research on the Ablation Response Prediction Method for C/SiC Ceramic Matrix Composites Co-authors: Xiangyu Liu; Zhidong Guan; Xiaodong Wang	#881 - Dalil Tanabe (Kobe City College of Technology) Evaluation on Ultrasonic Welding Behavior and Joining Strength of CF-PEEK Laminates and CF PEEK Thermal Pultruded Rods Using Spread CF/PEI Semipreg Layer Co-authors: Ryunosuke Hashimoto; Kazuaki Nishiyabu
10:30		#643 - Laura Rhian Pickard (Bristol Composites Institute, University of Bristol) Compressive Performance of Hierarchical Pultruded Rod Based Composites Co-authors: Ikenna C Nwozor; Ian Lee; Nicolas S T Darras; Bohao Zhang; Giuliano Allegri; Michael R Wisnom; Richard S Trask	#397 - Salaheddine Mad (Ku Leuven) Linking microstructure to strain localization in fibre reinforced composites: a PCA-based analysis of in situ biaxial XCT-DVC experiments Co-authors: Thanasis Chatzitheanasiou; Quincy Chin-Chan-Sen; Johan Vanhulst; Alice Paganoni; Elise Van Vlierberghe; Loic Courtois; Rémi Blanc; Guillaume Brusselo; Barbara Favaro; Marlène Wevers; Yentl Swolfs; Jeroen Soete	#1045 - Jonas Appelt (DLR Institute of Lightweight Systems) Cryogenic Testing of Pressurised Tubular CFRP Specimens Co-authors: Philipp Sämann; Alexander Fischer; Ashley Chadwick; Josef Kosorl; Julia Pitsch; Martin Lieber	#120 - Ulrike Siemer (BHT Berliner Hochschule für Technik) Non-destructive moisture detection for damage control in stitch-and-glue composite materials Co-authors: Andreas Leth; Ralf Förster	#1781 - Megha Rani (Leibniz-Institut für Verbundwerkstoffe GmbH) Compatibilizer Study of Bio-Based and Conventional Epoxy Resins in Unidirectional Filament-Wound Coupons for Sustainable Hydrogen Storage Applications Co-authors: Jens Schilmbach; Thomas Neumeyer	#1154 - Arne Wulff (Delft University of Technology, Faculty of Aerospace Engineering) Quantum-Assisted Stacking Sequence Retrieval and Laminated Composite Design Co-authors: Swapan Madabhushi Venkata; Boyang Chen; Yingiu Tang; Matthias Möller; Sebastian Feld	#1461 - Veronica Ambrogi (DiCMaPI, University of Naples Federico II) Vitrimeric composites based on OH-rich waste fillers Co-authors: Giovanni Filippone; Martina Salzano de Luna; Marco Agizza	#1179 - Tilse Van Rennerofel (KU Leuven) Spatial Geometric Uncertainty Quantification in Filament-Wound Composite Pressure Vessels Co-authors: Ben Van Bavel; David Moens; Dirk Vandepitte	#1644 - Ibrahim Goda (LEM3, Arts et Métiers Paris Tech, Université de Lorraine) Numerical Investigation of Damage Evolution and Energy Absorption in 3D Auxetic Sandwich Structures Under High-Velocity Impact	#1600 - Athina Maria Theocheri (NTNU) A parametric diffusion-deformation study for polymers used in the hydrogen transport Infrastructure Co-authors: Camilla Chaves; Vilde Andreassen; Ben Alcock; Stergios Goutianos	#1323 - Awais Awan (Institute of Materials Science, Joining and Forming (IMAT), Professorship "Aviation Materials and Manufacturing Technique", Graz University of Technology) Wood-polymer hybrid joints produced via ultrasonic energy for lightweight structures Co-authors: Gean Henrique Marcatto de Oliveira; Sergio de Traglia Amancio-Filho
10:45		#744 - Cameron Woodgate (Department of Chemistry, Imperial College London) Linking Carbon Fibre Microstructure to the Intrinsic Compressive Performance of Carbon Fibre Composites Co-authors: David Anthony; Stephen Eichhorn; Milo Shaffer	#615 - Lorenzo Di Marco (Politecnico di Milano Department of Chemistry, Materials and Chemical Engineering "Giulio Natta") Delamination and Repair in Epoxy-Vitrimer Multi-Matrix Composites Co-authors: Ricardo Di Giovanni; Federico Olla; Alessandro Milbi; Narenghorn Krajangsawasdi; Roberto Frassine; Marco Longana	#1192 - Elena Correa Montoto (Universidad de Sevilla) Interlaminar and intralaminar toughness of carbon/epoxy material after long-term cryogenic exposure Co-authors: Marta Luka Velasco; Serafín Sánchez-Carmona; Carmen Pino-Pueyo; Pepe Cañas; Federico Paris	#813 - B.A. Wani (INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI) Fatigue Life Estimation of Cross-ply CFRP Composite Laminates: An Experimental & Computational Micromechanical RVE Approach Co-authors: Basharat Ahmad Wani; S. Duggumall	#1688 - Florian Part (Institute of Waste Management and Circularity, Universität für Bodenkultur Wien) Sustainable and recyclable thermosets for the automotive, aerospace sectors and beyond Co-authors: Elvira Villaro; Christoph Obcher; Athanasios Katzakoglou; Daniel Perai Cerqueira; Ainhoa Tolentino; Mireia Mira Mezquita; Josefa Luna; Andrea Porcari; Elena Destro; Otmo Guagnelli	#351 - Inge Schlapp-hackl (Aalto University) Transforming Textile Waste into Durable Composite Fibers for a Sustainable Future. Co-authors: Krisnadewi Suciati; Alexandra Hanhikalo; Sajib Hynst; Michael Hummel	#1237 - Roeland De Breuker (Delft University of Technology) A review of 20 years aeroelastic tailoring research at the Delft University of Technology	#216 - Amir Mehrabisanbardar (Arts et Metiers Paris-tech.) Multiscale experimental analysis and AI-assisted optimization of bio-based UDCF/ PA11 thermoplastic composites via stamping Co-authors: Zouhaier Jendli; Stéphane Gillet; Khaled Benthiba; Joseph Fitoussi; Mohammadali Shirinbayan	#96 - Otavio Zimmermann De A (1) Repairability and residual strength of impacted carbon/PPS laminates in a marine environment Co-authors: Mael Arhant; Thomas Bonnemains; Eric Lolive; Mathilde Conan; Nicolas Carrere	#1487 - Dariusz Perkowski (Białystok University of Technology) Numerical Analysis of Coupled Thermo-viscoelastic, Kinetics and Residual Stress Problems in Fiber-Reinforced Composites Cured with Curing Resins Co-authors: Piotr Micke; Rafał Stanik; Albert Langkamp; Michael Müller-Pabel; Johann Faud; Lars Muschalski; Maik Gude	#628 - Lissy Flechsig (Leibniz-Institut für Polymerforschung Dresden e.V.) Novel Approach for an open-pore micro-structured interphase in carbon concrete composites Co-authors: Julius Schnell; Wen Tuesheng; Silvia Reißig; Danny Friese; Viktor Mechtcherine; Chokri Cherif; Christina Scheffler
11:00–11:30	COFFEE BREAK											
11:30–12:45	SESSION 6											
11:30	Session →	S515 - Advanced Composite Materials and Structures: Multifunctional Design, Damage Diagnostics, Testing, and Modelling Session chair: KU (Politecnico di Milano), Rosemere Lima (Universidade de Lisboa), Ioannis Katsiadis (University of Ioannina)	S529 - Multi matrix composites – design principles and processing technologies Session chair: Axel Spickenheuer (Leibniz Institut für Polymerforschung), Michael Muller-Pabel (TU Dresden), Marco Luigi Longana (Politecnico Di Milano)	S507 - Cryogenic Testing and Material Characterisation Session chair: Suzanne Lalk (CETIM), Stefanos Giannis (National Physical Laboratory)	3.14 Micromechanics Session chair: Martin Fagerström (Chalmers University of Technology), Pedro Camanho (Universidade do Porto)	S526 - EcoComposites Cluster - Sustainability of composites in the transportation sector Session chair: Mehdi Mario (IRT Jules Verne), Kate Trompeta (National Technical University of Athens), Costas Charitidis (National Technical University of Athens)	S1 - Aerospace & Transport Session chair: Dimitrios Bekas (Airbus), Ugo Lafont (European Space Agency)	2.1 Bio-Derived and Sustainable Composites Session chair: Volker Carvelli (Politecnico di Milano), Giovanni Pietro Terrasi (Empa)	1.4 Defense Session chair: Stavros Tsantzalis (Hellenic Air Force Academy), Vincent Pichot (French-German research institute of Saint-Louis, ISL)	S527 - Nature-Inspired Composites: From Natural Fibres to Biomimetic Structures Session chair: Carles Fuentes (Luxembourg Institute of Science and Technology), Esz Sarlin (Tampere University)	7.9 Maintenance and Repair Session chair: Vassilis Kostopoulos, Spyridon Psarras (University of Patras)	2.3 Matrix Materials: Polymers, Metals, Ceramics, Concrete, Geopolymers Session chair: Jose Sena-Cruz (University of Minho), Dalva Zelemáckeme (Kaunas University of Technology)
11:45		#1131 - Angel Mora (York University) Numerical modeling of magnetorheological polymers fabricated with the aid of a magnetic field fabrication Co-authors: Arkeh Ivanzz Hurtado; Aleksander Czekanski	#257 - Dong Gi Seong (Pusan National University) A multi-drop filling process of multi-matrix on multi-fabric for deployable composites fabrication Co-authors: Seung Mo Son; Seung Woo Jung	#752 - Martin Liebisch (Deutsches Zentrum für Luft- und Raumfahrt e.V.) The Scaled Half Tank Test Co-authors: Jan Rehra; Tobias Wille	#627 - Matteo Garagiordoli (IDEKO S.coop) Validation of a Novel Wireless Monitoring Approach for the Filling and Curing Stages in Vacuum-Assisted Infusion of Carbon Fiber-Reinforced Composite Parts for Aerospace Co-authors: Eneritz Cenzac; Francisco Javier Vallejo; Mou Chookazar; Arkaitz Ucharte	#1643 - Fidel Orlando Valega M (TNO) Towards new products from recycled composites via fused granulate fabrication Co-authors: Eric Cramwinkle; Britt Meijnen; Myrthe Pilgrims; Willem Seveen	#658 - Maria Asun Cantera (University of the Basque Country UPV/EHU) Synthesis of Double-Double Hybrid Laminates Exhibiting Unconventional Thermal Expansion Behaviour Co-authors: Daniel Gonzalez Alonso; Francesco Danzi	#604 - Harper Schäfer (Technische Universität Braunschweig) Closed-Loop Recycling of Resistance-Welded Thermoplastic Composite Joints: Influence of Heating Element Material on Disassembly and Remelting Co-authors: Sebastian Nehmke; Carsten Schmidt	#1106 - Katharina Haug (Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM) Fully modular full recyclability of composite structures for cabin interior through adapted vitrimeric polymers meeting the application specific requirements Co-authors: Julie Bauch; Adrian Wolf; Klaus Rischka; Jan-Marten Spenger	#1086 - Jonas von Heusinger (Deutsches Zentrum für Luft- und Raumfahrt e.V.) Efficiency of different compactor types for Joule heating assisted thermoplastic dry winding processes Co-authors: Yannis Grohmann; Mihai Fetescau; Daniel Stefaniak; Clemens Dransfeld	#568 - Jiawen Hu (Korea Advanced Institute of Science and Technology) Transition-Metal Nanowire-Integrated Carbon Fiber Electrodes for Structural Batteries Co-authors: Mousumi Garai; Il-kwon Oh	#1146 - Paschalis Oikonomou (Department of Mechanical Engineering, Aristotle University of Thessaloniki) Parametric geometry framework to introduce variability in toroidal propeller designs Co-authors: Anastasia Gaitanidou; Konstantinos Zisis; Panagiotis Tsirikoglou; Vasilis Gkoutzamanis; Anestis Kalfas
12:00		#688 - Victor Lancrenon (Laboratoire des Composites Thermostructuraux (LCTS) / Safran Ceramics) Identification of the damage mechanism in a ceramic matrix composite / protection [CMC-EBC] system under tensile test Co-authors: Olivier Caty; Sébastien Dennerulin; Francis Rebillat	#927 - Richard Grothe (TUD Dresden University of Technology / ILK Institute of Lightweight Engineering and Polymer Technology) RTM-Co-Infiltration of Continuous Fiber Composites Using Two Epoxy Matrix Systems: Process Control and Interphase Analysis Co-authors: Daniel Wohlfahrt; Michael Müller-Pabel; Maik Gude	#261 - Antoine Delarue (CETIM) Development of alternative testing strategy to obtain in-plane shear failure properties of UD composites under cryogenic environment Co-authors: Denis Espinosseu; Suzanne Lalk	#121 - Benjamin Lacombe (Safran Ceramics) Novel Approach for Non-Propagation Threshold Evaluation under Fatigue in Ceramic Matrix Composites	◆730 - Ceramet Broggi (Aerospace Structures and Materials Department, Faculty of Aerospace Engineering, Delft University of Technology) Material heterogeneities in Frontal Polymerization Co-authors: Veronique Michaud; Bavk Caglar	#731 - Tommaso Verdini (Università Politecnica delle Marche) Mechanical Performance of Hybrid CFRP/BFRP Filament-Wound Tubular components Co-authors: Iacopo Bianchi; Chiara Mignanelli; Michela Simoncini; Archimede Forcellese	#848 - Ilaria Rossilli (Polymers Composites and Hybrids (PCH), IMT Mines Alès) Investigating the effects of fiber surface treatment and recycling on out-of-plane wicking in yarns Co-authors: Monica Francesca Pucci; Pierre-Jacques Liotier	#601 - Cedric Tschentscher (Institute of Polymer Materials and Plastics Engineering, Clausthal University of Technology) Recyclable Sandwich Components - Using Hybrid Vitrimers for Disassembly Co-authors: Valentin Helvenkiller; Leif Steuernagel; Peter Wierach	#64 - Jan-Erik Rath (Hamburg University of Technology, Institute of Aircraft Production Technology) Towards Automating Hand-Layup: A Preliminary Study on Robotic Draping of Woven Glass Fiber Fabric Co-authors: Mosaz Ismail Mahmoud Abdelmegiid; Thorsten Schüppstuhl	#1225 - Frédéric Laurin (ONERA, Paris-Saclay University) Mechanical and electrical characterization of an aeronautical out-of autoclave multi-functional composite structure containing solid state battery cells Co-authors: Anne Mavel; Juan-Manuel Garcia; Helmut Kühnelt; Alexander Beutl; Alejandro Trecastro	#289 - Noor Rehman (TUM School of Engineering and Design, Chair of Carbon Composites, Technical University of Munich) Influence of printing direction on thermal anisotropy in large-scale additively manufactured composite tooling Co-authors: Jakob Faistmann; Maximilian Schäffer; Patrick Ilg; Franz Pfeiffer; Kalle Kind; Klaus Drechsler
12:15		#253 - Qiaiang Jiang (University of Vienna) Structural battery composites from multifunctional carbon fibre reinforced high performance polymer prepregs Co-authors: Mateo Gomez; Alexander Beutl; Alexander Bismarck	#394 - Achyuth Ram Annadata (TUD Dresden University of Technology) Multi-matrix fiber-reinforced composites with shape memory alloys integrated through textile knitting technology Co-authors: Johannes Mersch; Matthias Overberg; Thomas Gereke; Chokri Cherif	#1456 - Aravind Sasikumar (AMADE, Polytechnic School, Universitat de Girona, Campus Montilivi s/n, 17071 Girona, Spain) Advanced fracture and damage tolerance testing for liquid hydrogen composite tanks Co-authors: Jordi Llobet; Edwin Meulmann; Jose David Acosta; Carlos Sarrado; Jordi Renart; Albert Turon	#486 - Luka De Block (Ghent University) Compliance Free Mechanical Characterization of Single Carbon and Glass Fibers Through a Versatile Video-Extensometry Method. Co-authors: Lode Daelemans; Wim Van Paepegem	#1218 - Olivia Gordon (The University of Auckland - Centre for Advanced Materials Manufacturing and Design) Plasma-Enhanced Carbon Fibre-Reinforced Thermoplastic Tapes Fabricated from Waste Plastic Blends Co-authors: Maximilian Pitts; Tom Allen; Johan Verbeek; Simon Bickerton; Mark Battley; Razin Radjef; Boris Eisenbart	#1185 - Tarik Kara (Middle East Technical University, Department of Aerospace Engineering) Effect of Stacking Sequence on Carbon/Glass Hybrid Composites under Impact Loading Co-authors: Barış Aktaş; Ahmet Çevik; Gürkem Eğemen Gülağız; Demirkan Çöker	#1089 - Diwakar Singh (Department of Aerospace Structures & Materials, Delft University of Technology) Spatial correlation of fibre distributions in recycled carbon fibre composites using advanced image processing Co-authors: Ahmad Shakeel; Baris Caglar; Kunal Masania; Clemens Dransfeld	#357 - Souvik Chakraborty (Dept. Sustainability Technologies, Institute of Lightweight Systems, German Aerospace Center (DLR)) Sustainable Composites for Cabin Monuments – Recycling of Resins with tailored FST Properties Co-authors: Jan Sam Bobby; Alexandra Kühn; Maximilian Jux; Thorsten Mahrholz; Ulrich Krause; Steffen Opitz	#360 - Moritz Leonartz (Institut fuer Textiltechnik, RWTH Aachen University) Human-Inspired Robotic Prepreg Sheet Layup using Knowledge Engineering from Manual Draping Demonstrations Co-authors: Felix Clawes; Luisa Mevier; Ralf Müller-Pabloviz; Thomas Gries; Martina Zlatte	#1009 - Shimeng Qian (Imperial College London) Multiphysics modelling of structural supercapacitors subjected to mechanical damage Co-authors: Sang Nguyen; Ajit Panesar; Emile Greenhalgh	#1296 - Angelos Ntaflos (Department of Materials Science & Engineering, University of Ioannina) 3R Composite Manufacturing Technologies: Vitrimer Prepreg Innovations and R2R Processing Co-authors: Kyriaki Tsirka; Maria Xenidou; Akhiladi.S. Paipetis; Nerea Markaide; Virginie M. Boucher
12:30		#1307 - Coren Yildirim (ThermoPlastic Composites Research Center, TPRC) Impact Damage Evolution and Compression After Impact Performance of CF/PEKK Laminates at Low, Room, and Elevated Temperatures Co-authors: Hasan Uluc; Hatice S Sas; Mehmet Yildiz	#726 - Axel Spickenheuer (Leibniz-Institut für Polymerforschung Dresden e. V.) Manufacturing and Applications of Soft-rigid Multi-Matrix Fiber-Reinforced Plastics Co-authors: Simon Koron; Tales de Vargas Lisboa; Lars Bittrich	#1692

ECCM22 — WEDNESDAY (08:00-18:00) — TECHNICAL PROGRAMME - VERSION 2 (updated 19 June 2026)
◆ = italic = Short oral (7 min) · plain = Full oral (15 min) · · Minor changes to the programme may occur.

Time	Activity	A	B	C	D	Forum	M1	M2	M4	M5	Balder	Odin
08:00–08:45		**PLENARY 3 - Stephen W. Tsai (Stanford University)** **A revolutionary laminate theory: simplified design, testing and manufacturing** **Chair: Pedro Camanho (Universidade do Porto)**										
09:00–11:00	SESSION 8											
09:00	Session →	**S110 - Understanding and improving longitudinal compressive strength** **Session chair: Mike Shaffer, Cameron Woodgate (Imperial College London)**	**S119 - Fatigue and Damage Mechanics of composite and composite structures** **Session chair: Marino Quaresimin, Paolo Andrea Carraro, Lucio Maragoni (University of Padova)**	**S132 - Durability of polymers and fibre reinforced polymer composites** **Session chair: Stelios Grammoustianos (NTNU), Yvonne Alexander (BISE), Andrejs Kraukliis (University of Life Sciences and Technologies)**	**5.2 Additive Manufacturing** **Session chair: Dan Zhao (University of Sheffield), Antoine Le Duigou (University South Brittany)**	**S320 - History of composites** **Session chair: Gisela Fredi (University of Limerick), Olga Bulderberga (University of Latvia)**	**7.11 Recycling, Remanufacturing, and Circular Economy** **Session chair: Vlasios Callios (University of Limerick), Olga Bulderberga (University of Latvia)**	**2.1 Bio-Derived and Sustainable Composites** **Session chair: Khaled Shahin (United University of Emirates), Evangelos Kordatos (Sheffield Hallam University)**	**3.11 Lightning Strike and Fire Safety** **Session chair: Siddharth Ghosh (Indian Institute of Technology Bombay), Bidur Stadbakken and Processing Conditions** **Co-authors: Jasper Lieuguard, Debabrata Adhikari, Jesper Henri Hattel**	**3.8 Renewable Energy (e.g. Wind, Solar)** **Session chair: Stanislaw Lipinski (NTNU Universitet Brunel), Stergios Goufanous (NTNU)**	**T2 - Dynamic, Impact & Crash** **Co-authors: Brian Falzon (Western Sydney University), Chiara Biscaglia (Politecnico di Milano)**	**6.1 Energy Storage and Harvesting** **Session chair: Lud'ka Klimeš (Tomas Bata University of Technology), Emilie Gravenhaglt (Imperial College London)**
09:15					S154 - Cédric Courcoux (Polytechnique Montréal, Laboratory of Multiscale Mechanics)	S264 - Ignasi Vorpsed (Composite Materials Group KU Leuven (Belgium)	S162 - Alberto Jiménez Suárez (Universidad Rey Juan Carlos)	S97 - Muhammad Ali (Brunel Composites Centre) Development and sustainable hybrid composites based bio-epoxy reinforced with basalt fiber and short recycled	S117 - Piero Gerard (ARKEMA)	S72 - Muhammadali Shirinbayan (Arts et Metiers Institute of Technology, CNAM, CNRS, PIMM) Investigation the Fatigue Response of Composite Materials: A Multi-Scale Damage Analysis	S6 - Mingzhe Cui (Beihang University) Design and Manufacture of Thin Composite Shell Structures for Advanced thermal management
09:30		S113 - Denis Isaikkan (Shaping Matter Lab, Faculty of Aerospace Engineering, Delft University of Technology) Flax Composites with Improved Interfacial and Compressive Behaviour Through Bacterial Calcium Carbonate Mineralization Co-authors: Ingo Nellenbeitch, Jeong-Jae Oh, Mario Eos Aalen Tam, Julie Teuwen, Kunal Masania	S140 - Maik Gude (TUD Dresden University of Technology, Institute of Lightweight Engineering and Polymer Technology (ILK)) Fatigue life analysis for adhesive bonds in large-RIP structures with heterogeneous property distribution Co-authors: Karsten Zedelnitzh Tillmann, Michael Müller-Pabel, Richard Proto, Christian Dieterle, Aaron Raphael Reuter, Linda Fröde, Lukas Wolfram, Wilko Filippo	S137 - José Sena-Cruz (ISISE, ARISE, University of Minho) Weathering durability of pultruded GFRP composites with polyester and vinyl ester matrices: Accelerated laboratory vs. natural ageing Co-authors: Ana Ramôa Ribeiro, Joaquim Carneiz, Tarikul Hasan; João Ramôa Correia; Mário Garrido, Susana Cabral-Fonseca	S109 - Methods and tools to support the certification by analysis of composites structures Session chair: Stephanie Mist (IRT Saint Exupery), Albertina Arbelo (University of Paris)	S275 - Veronique Michaud (EPFL ST-IMX LPAC) Recycling glass fibres from thermoset epoxy composites by a mild catalytic thermo-chemical recycling method Co-authors: Carles Marquez; Elsa Foglieli; Kathy Elet; Jan Ivens	S193 - Ivo Lopa (Delft University of Technology) Fatigue-creep interaction in hemp fibre thermoplastic composites Co-authors: Rene Alderliesten; Frans van der Meer; Yasmine Mosleh	S6108 - Bikkuri Bikash Kagyung (IIT Bombay) Damage Mitigation in Carbon Fiber Reinforced Polymer Laminates Subjected to Lightning Strikes using Conductive Carbon Black and Retrofitting Technique Co-authors: Chandra Sekhar Yernamadi	S6105 - Lourdes Blanco Salgado (Atmon Technology Centre) Integration of Embedded Sensor Systems for Process and Structural Health Monitoring in Smart and Sustainable Wind Turbine Blade Components Co-authors: Alba Peña Gómez, Ruben De la Mano Ferreira, Olalla Sánchez Sobrado; Marta Castiñeiras Nespereira, Tania Gonzalez Gonzalez, Elena Rodriguez Senin	S6 - Hongchuan Wang (Imperial College London) Design and Finite Element (FE) Analysis of Helicoidal and Double-Double (DD) Carbon Fibre-Reinforced Polymer (CFRP) Laminates for Improved Low-Velocity Impact (LVI) Damage Tolerance Co-authors: Alba Peña Gómez, Ruben De la Mano Ferreira; Olalla Sánchez Sobrado; Marta Castiñeiras Nespereira, Tania Gonzalez Gonzalez, Elena Rodriguez Senin	S6 - Phan Hoang Dan Nguyen (Aarhus University) Segmented Rim Design for High-Performance Flywheel Energy Storage System Co-authors: Søren Wahlgreen; Søren Madsen; Michal Budzik	S6 - Zhen Shu (LNSNM) Pre-resistant polymer electrolyte for structural energy storage composites Co-authors: Chun Hui Wang
09:45		S153 - Guillaume Seon (University of Texas at Arlington) Computer Graphics-Based Genetic Algorithm of 2D CFRP Microstructures and the Effect of Fiber Misalignment Phase Angle on Compressive Strength Co-authors: Anees A Nakeer	S198 - Chunbing Yu (School of Aeronautics, Northwestern Polytechnical University) In-plane shear progressive damage analysis of multiaxial three-dimensional woven composites Co-authors: Ci Zhao; Xiaoo Zhang	S198 - Christina Scheffler (Leibniz Institute of Polymer Research Dresden) Chemical Corrosion of Glass Fibers in Composites – Mechanisms, Tensile Strength Degradation and Weibull Analysis Co-authors: Rudi Reichelt;Mohan Elisha Pette Pette; Ole Osterthun; Jürgen Hardermeyer; Cindy Eschner	A369 - Hendrik Ostrowski (Aarhus Universitet) X-ray µCT microstructure correlated with mechanical properties in short-fibre-reinforced SLS printed composites Co-authors: Catalina Gabriela Sorgonovi, Michal Kazimierz Budzik; Michael Sandberg	A396 - Martine Wevers (KU Leuven, Department of Materials Engineering) The history of nondestructive testing (NDT) on fibre reinforced polymer composites Co-authors: Jeroen Soete; Helga Pfeiffer; Christ Glorieux; Mahsur MehdiBhard	S142 - Dionisis Sarmbilkos (R-NanoLab, School of Chemical Engineering, National Technical University of Athens) Design and Fabrication of a Racing Car Seat with Recycled Continuous and Chopped Carbon Fibre Reinforcement Co-authors: Maria Modestou; Ioannis Papadopoulos; Carlota Rubio Pereiemo; Andreia Araujo; Noelia Mendoso; Engracia Munoz; Francisco Lahuerta; Chiara Pernechele; Costas Charitidis	S701 - Yeoghanagh Ilbeh (Faculty of Built Environment, Tampere University) Dynamic Mechanical Characterization of Mycelium-Wood Particle Composite for Temperature Sweeps with Finite Element Analysis Support Co-authors: Clara Leana Bolzmr; James Luukso; Mari Honkanen; Sami Pajonen; Mikko Kanerva	S151 - Behnam Ashrafi (National Research Council Canada) Shear-based molecular ink for lightning strike protection of carbon fiber reinforced polymer composites Co-authors: Bhawana Deore; Marc Genest; Catalin Mandache; Chantal Paquet; Arnold Kim	S195 - Jonathan Russell (Fraunhofer IWES) Investigation of Embedded Sensor Systems for Process and Structural Health Monitoring in Smart and Sustainable Wind Turbine Blade Components Co-authors: Alba Peña Gómez, Ruben De la Mano Ferreira; Olalla Sánchez Sobrado; Marta Castiñeiras Nespereira, Tania Gonzalez Gonzalez, Elena Rodriguez Senin	S173 - Phan Hoang Dan Nguyen (Aarhus University) Segmented Rim Design for High-Performance Flywheel Energy Storage System Co-authors: Søren Wahlgreen; Søren Madsen; Michal Budzik
10:00		S466 - Pierre-Yves Mulcho (Southern Spain) Understanding Compressive Instability Mechanisms in High-Modulus Carbon Fibre Systems Co-authors: Vincent Kervyn; Emmanuel Fuling	S1587 - Lucio Maragoni (Department of Management and Engineering, University of Padova) Effect of defects on fatigue-crack initiation in carbon/epoxy laminates Co-authors: Sota Oshima; Satoshi Kobayashi; Paolo Andrea Carraro; Marino Quaresimin	S1424 - Alba Alija (Universidad Cádiz d'Azur) High performance biobased thermosets containing dynamic covalent bonds Co-authors: Sandra Cibeltano; Rosario Dino; David Swanson	A67 - Antonios Stamopoulos (University of L'Aquila, Department of Industrial and Information Engineering and Economy) Progressive Reinforcement Effects of Continuous Carbon Fibre Layers in PETG-Based 3D-Printed Composites Co-authors: Pierpaolo Celona; Humberto Almeida Jr.	S592 - Hans Ulrich (Wind Energy Materials and Components Division, Department of Wind and Energy Systems, Technical University of Denmark) No wind energy without composites: The early years as seen from Denmark Co-authors: Bo Madsen; Lars P Mikkelsen	A900 - Arthur Weiland (Universität Bayreuth) Optimizing Substrate Hydrolysis Degradation of Composite Materials to Enable Carbon Fiber Recycling Co-authors: Felicitas Augustin; Simon Backens; Stefan Schmidt; Wilko Filippo	A1722 - Oerse Elhaseny (University of Bath) Development and Characterization of a Novel Semi-Bio-Based Thermoset System for High-Stiffness Flax Composites. Co-authors: Jonathan Husband; Gavin Irvine; David Williams; Fulvio Pinto; Matthew Davidson	A1294 - Su Jeong Heo (Pusan National University) Development of CFRP Incorporating CNT Fibers for Reducing Joule Heating and Shock Wave Damage under Lightning Strikes Co-authors: Moonsuk Jang; Joonwoo Park; Jaejun Lee; Dong Gi Seong	A1217 - Hao Peng (Hunan University) Mechanical Interlocking Design of Wavy Metal Sleeves to Enhance Fatigue Performance of Composite-Metal Joints in Wind Turbine Blade Roots Co-authors: Zhimin Lei; Junfeng W	S1178 - Odysseas Kakardelis (Department of Aeronautics, Imperial College London) Mechanical properties and damage evolution in carbon-aerogel-modified carbon fibre electrodes Co-authors: Shimeng Qian; Sang Nguyen; Milo Shaffer; Emile Greenhalgh
10:15		S523 - Aristidis Hertelovsky (Department of Industrial and Materials Science, Chalmers University of Technology) Compressive strength prediction with a micromechanics-inspired material model Co-authors: Ragnar Larsson	S1288 - Pradipkul Singh (Department of Textile and Fibre Engineering, Indian Institute of Technology Delhi) Synergistic Effects of Nanofiber Reinforcement and Surface Treatment on the Flexural Fatigue Behaviour of 3D-Woven Core based Metal-faced Sandwich Composites Co-authors: Shubham Agnihotri; Javed Sheikh; B. K. Behera	S1385 - Hollie S. Sea (University of Sheffield) Effect of Fibre Architecture and Matrix Ductility on Fracture Toughness of CF/PEKK Composites and Their Adhesively Bonded Joints for Aerospace Applications Co-authors: Ceren Yildirim; Hasan Ulus; Mehmet Yildiz	A82 - Dominik Ludwicher (Bundeswehr Research Institute of Materials, Fuels and Lubricants) Extensional viscosity of polyurethethermoses (PNDAs) and its composites in material extrusion (MEX) additive manufacturing Co-authors: Hatena Brahmaier; Patrick Conrad; Georg Tauer; Philipp Hilfer	A555 - Yanli Sauzh (KU Leuven, Department of Materials Engineering) The history of fibre-reinforced composites Co-authors: Hannelo Chatzidhatzoniou	A184 - Andrej Fehler (UTWA Leipzig) Feasibility of Reusing CFRP Wind Turbine Elements as Load-Bearing Secondary Structures Co-authors: Dimitri Sutterl; Jan Bürgener; Philipp Jaher; Robert Böhm	A948 - Winston Lindpeutzer (Technische Universität Delft) Hydrothermal Recycling of Marathon-Based Hierarchical Composites Co-authors: Mikhail Chaudhary; Kunal Masania; Martin Lissenar; Iuri Rocha; Camille Carre; Christian Weimer	A627 - Patrik Fernberg (Department of Engineering Sciences and Mathematics, Luleå University of Technology) Through-Thickness Mechanical Design of Marathon-Based Unidirectional Glass Fibre Composites Co-authors: Karl Arvidsson; Mona Ramezanpour; Jens Varna	A160 - Hyunbum Park (Department of Mechanical Engineering, Kunsan National University) Crack-tip carbon fiber/epoxy composite blades for Large Wind Turbine Co-authors: Tanmin Hwn; Hyoung Lee	A1862 - Sabrina Khamessi (LITTOP Tallec) Optimization of mechanical properties of industrial wood-composite tubes under axial crushing: influence of spiral-weaved architecture and fiber material orientation Co-authors: Arthur Cantaert; Florant Eymo; Bruno Castanié	A827 - Rajat Sharma (Durham University) Crushing uncertainties in the failure load predictions of fiber-reinforced composites with acoustic-emission Co-authors: Arthur Cantaert; Florant Eymo; Bruno Castanié	A1683 - Serdar Demir (Boğaziçi University) The influence of the addiguments of open-hole voiches on woven fabric carbon/epoxy composites damaging behavior Co-authors: Nuri Ersoy
10:30		S952 - Takaya Nishioka (The University of Tokyo) Compressive strength prediction using shimmer composites: Effect of the resin ductility and repairability Co-authors: Ryo Higuchi; Tomohiro Yokozeki; Tong Earn Tay; Vincent Tan; Takuya Suzuki	S434 - Dennis Gibhardt (Hamburg University of Technology) Effects of Matrix Choice and Environmental Exposure on the Fracture Toughness, Damage Progress and Fatigue Lifetime of GFRP Co-authors: Tobias Teichmann; Melissa Walter; Alexander Trippel; Fetwa Tahshi; Bodo Fiedler	S757 - Vincenzo Fiore (University of Palermo) Impact of salt-fog ageing on the recyclability of flax fibre-reinforced bio-composites Co-authors: Iryna Kvietchuk; Fabrizio Sarasini	S173 - Ahmad Shuaibi Chorlieh (Vrije Universiteit Brussel (VUB)) In-situ X-ray Computed Tomography and residual strain detection in 3D printing via optical fiber sensing Co-authors: Sergei Mikhailov; Francis Berghmans; Lincy Pyl	A1281 - Alain Bourmaud (Université Bretagne Sud) Can Egyptian Salts Ha Modern Composites: The Sustainable Journey of Natural Plant Fibres Co-authors: Jörg Mbaziig	A617 - Shiva Muhammadkarimi (KTI - Plastics Technology Group, Faculty of Mechanical Engineering and Thurlngian Center of Innovation in Mobility, Technische Universität Ilmenau) Beyond Processing Parameters: Strip Alignment as the Key to High-Performance Recycled CFRTP via Direct Compression Molding Co-authors: Florian Puch	A139 - Clara Gerbig (KU Leuven) Elevating blade sustainability: erosion performance of flax fibre composites Co-authors: Yim-van der Molen; Julie Teuwen; Kunal Masania	A165 - Vadim V. Silberschmidt (Loughborough University) Effect of seawater on performance of composite structures Co-authors: Norman Ooo-owagbioe; Eerah Dentiri	A545 - Christian Hild (Institute of Lightweight Engineering and Polymer Technology, TUD Dresden University of Technology) Durability Evaluation to Water Environment of Fiber-reinforced FLA with Hydrolysis-control Function Co-authors: Yuki Kobigo!	A922 - Fatemeh Mahbiari (Department of Materials Engineering, KU Leuven) Multiscale Damage Prediction in Composite Laminates: Sensor for Vibration Energy Harvesting and Impact Damage Detection Co-authors: Zhenjin Wang; Fanto Narile
10:45		S564 - Aravind Premanand (Department for Sustainable Systems Engineering (INATECH), Faculty of Engineering, Walter-and-Ingeborg-Herrmann Chair for Power Ultrasonicsand Engineering of Functional Materials (EFM), University of Freiburg.) Ultrasonic fatigue of polymer matrix composites using fracture fatigue entropy approach Co-authors: Frank Balle	S304 - Sandeep Kumar Gantala (Universidte Bourgogne Europe, DRIVE) A novel multi-scale methodology for climate-driven durability assessment, evaluating the environmental footprints of flax fiber reinforced composite structure Co-authors: Benoit PIZZO, Clemence ROUGE, Jerome ROUSSEAU, Olivier SICOT	S1449 - Inês Francisco (Fachhochschule Nordwestschweiz) Influence of Fiber Orientation and Residual Strain Distribution in 3D-printing Fiber Reinforced ABS Composite Structures Co-authors: Christian Bruener; Oliver Iseley	A925 - Giovanghuseppe Giusto (CRA (Italian Aerospace Research Centre)) The latest developments in grid structures for space applications Co-authors: Giovanni Totoni; Felice De Nicola; Paola Spena; Vincenzo Iannone; Francesco Di Caprio	A480 - Maria Modestou (R-NanoLab, School of Chemical Engineering, NTUA) Recycling of Glass Fibres through Supercritical Solvolysis: Kinetics analysis and characterization Co-authors: Carlota Rubio Pereiemo; Dionisis Semboliadis; Cynthia Morales Cruz; Anya Vallejradni; Costas Charitidis	A913 - Natalia Sofia Guevara (Shaping Matter Lab, Faculty of Aerospace Engineering, Delft University of Technology) Co-authors: Pim van der Molen; Julie Teuwen; Kunal Masania	◆A1214 - Imnam Bakht (Brunel Composites Centre) Anisotropic AC/DC Electrical Conductivity Mapping of CFRP: From Single-Fibre Characterisation to Multi-Scale Electro-Thermal Modelling Using a Novel Hall Probe Technique Co-authors: Nithin Amin Vasanthan; Chris Worrall ◆A1695 - Roland Pebbley (Department of Polymer Engineering, Faculty of Mechanical Engineering, Budapest University of Technology and Economics) High-performance conductive and switchable PAI-based filaments for 3D printing with reclaimed carbon fibres and conductive fillers Co-authors: László Mészáros; Gergely Czél	◆S1083 - Qiongjun Kou (Beihang University) A Viscoelastic-Damaging Predictive Method for Unidirectional Composites Based on Multi-Scale Relaxation Simulation Co-authors: Yiding Li; Jibbo Yan	A39 - Zhen Zhou (Tohoku University) CFRP-Integrated Multifunctional Piezoelectric Sensor for Vibration Energy Harvesting and Impact Damage Detection Co-authors: Zhenjin Wang; Fanto Narile
11:00–11:30	**COFFEE BREAK**											
11:30–12:45	SESSION 9											
11:30	Session →	**S110 - Understanding and improving longitudinal compressive strength** **Session chair: Sandro Bhatia, David Anthony (Imperial College London)**	**S125 - Sustainable Composites Engineering: Innovations from a Doctoral Training Centre** **Session chair: Janice Barton (University of Bristol), Lee Harper (University of Nottingham)**	**S111 - Advanced Composite Materials and Structures: Multifunctional Design, Damage Diagnostics, Testing, and Modelling** **Session chair: Ole Thomsen (Aalborg University), Zhuomeng Liwu (Universidade de Lisboa), Eduardo Kamenetzky (University of Bath)**	**S108 - Composite Materials for Hydrogen Economy** **Session chair: Lukasz Figiel (University of Warwick), Maria Grazia De Angelis (University of Edinburgh), Marcus Wells-Brush (NCC)**	**1.2 Automotive, Rail, and Ground Transportation** **Session chair: David Williams (University of Bath), Philippe Noury (DNV)**	**7.3 Fracture and Damage** **Session chair: Raj Das (RMIT University), Antoine Le Duigou (University South Brittany)**	**2.7 Hybrid and Hierarchical Composites** **Session chair: Kamran Khan (Khalifa University), Antonio Torres Marques (FEUP), Antónia Torres Marques (FEUP)**	**3.10 Textile Composites** **Session chair: Suresh Advani (University of Delaware), David Williams (University of Bath)**	**5.10 Machining** **Session chair: Sayna Psarras (University of Patras), Patrik Fernberg (Luleå University of Technology)**	**3.21 Uncertainty quantification** **Session chair: Ole Thomsen (Bristol Composites Institute), Karthik Ram Ramakrishna (University of Bristol)**	**3.17 Sandwich Structures** **Session chair: Ole Thomsen (Bristol Composites Institute), Karthik Ram Ramakrishna (University of Bristol)**	**S115 - AI and Mechanics for Composite Design, Optimisation, and Digital Twins** **Session chair: Xue Xiong (Durbin Institute of Technology), Martin Fagerström (Chalmers University of Technology)**
11:45		S824 - Ryo Higuchi (The University of Tokyo) Experimental evaluation of process-induced residual deformation on semi-crystalline thermoplastic composites Co-authors: Kotsuke Kubota; Takaya Nishioka; Shu Minatsuchi; Tomohiro Yokozeki	S1228 - Jenny Banks (University of Bristol, NCC) Continuous Recycled Carbon Fibre: Influence of Fibre-to-Preform Processing on Mechanical and Interfacial Properties	S1646 - Gaia Atkinson (University of the West of England Bristol) Poor-inspired Strain Amplification Layers for Composite Structures Co-authors: Fahad Muhammed; Jehan Akbar; Shee Sea	S1368 - Abror Yi-Baloch (KFUPM) Influence of Nanoparticle-Infused Alumina-Enhanced Carbon/Phenolic Composites for Solid Rocket Nozzle Thermal Protection Co-authors: Kalid Kassa	A389 - Thilo Bauman (CETIM) Influence of decompression rate and cyclic hydrogen exposure on mechanical and transport properties of type IV hydrogen tank liner materials Co-authors: Awen Bronnec; Suzanne Lab	A1201 - John Montesano (Composites Research Group, University of Waterloo) Coupled high-pressure resin-transfer molding process and structural impact simulations for automotive composites	A980 - Carlos González (IMDEA Materials / Technical University of Madrid) Smart Digital Twins for Composite Manufacturing Co-authors: Sofía Fernández; Luis Boronata; Daniele Meaniera	A1725 - Kalliopi-Artemi Kalkendelou (Vrije Universiteit Brussel) Thermomechanical shear characterisation of Flax/PP composite laminates under thermoforming conditions: from experiment to simulation Co-authors: Ramak Hossein Abadi; Danny Van Hemelrijck	A1451 - Alexander Brauschkin (Hamburg University of Technology) Empirical model for predicting surface roughness in CFRP during peripheral milling with lead and tilt angles. Co-authors: Jonas Emmerich; Carsten Hößler; Jan-Hendrik Ziegs	A1701 - Hann Ben Hali (UPA) Experimental and Computational CFRP Composites: Experimental Data and Numerical Modelling Co-authors: Alaa Aubelaci; Yonry Tarik; Ioanna Serbal Itabal; Malek Itabal; Zouberi Bouzid	B89 - Bruno Simoes Bartel (UNIDA IPP - IRDI - SAMMA) Effect of Fiber Orientation on the Mechanical Behavior of 3D Woven Composites Co-authors: Matthieu le Saux; Youness El Achi; Luis Manuel Garcia; Marcelo Greco	A334 - Laura Simonini (University of Trento) Experimental and numerical investigation for thermal management and mechanical performance Co-authors: Giada Frulli; Alessandro Pegoretti
12:00		S471 - Vincent Kervyn (Lido, Bretagne Sud) Multi-scale mechanical modelling of tensile failure in high-modulus PAN-based carbon fibre composites: assessing the transverse behaviour of carbon fibres by nano-indentation and micro-pillar compression Co-authors: Pierre-Yves Mechin	S562 - Zhengliang Ji (Northwestern Polytechnical University) Multi-scale Modeling of Core Material Homogenisation Technique for Large Scale Resin Infusion Simulations Co-authors: Simone Bancora; Chris Dighton; Cristian Lira; Ole Thomsen; Jonathan Belnoue	S1261 - Pau Miquel-Roura (University of Girona) Experimental and numerical permeability approach for predicting hydrogen leakage in LH2 composite tanks Co-authors: Raffael Bogenfeld; Vineeth Ravi; Aravind Sasikumar; Tobias Wille; Albert Turon	A768 - Ruben Ferreira (INEGI - Instituto de Ciência e Inovação em Engenharia Mecânica e Engenharia Industrial) Structural Design and Manufacturing Validation of a Fiberglass-Reinforced Composite Bus Chassis Section Co-authors: João Alves; António Alves; João Cardoso	A1707 - Hazel Pinon (Nantes Université, Ecole Centrale de Nantes, CNRS, GeM, UMR6 CNRS 6183) Experimental investigation of the effect of the adhesive thickness on the strength performance of the welded interface manufactured by laser-assisted tape placement of a thermoplastic composite Co-authors: Noé Reniff; Suzanne Lab; Federica Daghia; Frédéric Jacquemin	A994 - Per Wallander (Saab AB) Simulation-driven composite design with Rapid-cell press Co-authors: Malin Akerfeldt; Abhik Dutta; Maria Omadhiou; Sebastian Ahn; Bjorn Carlsson; Jones Ljoberg	A223 - Iveta Čečková (Faculty of Mechanical engineering, STU) Compressive strength of 3D printed Hook-Hook Fiber Laver Reinforcements on Machining Quality of CFRP Composites Co-authors: Viliam Cacko; Bálint Kovecsi	A367 - Robin Vandaele (LMA) Experimental and numerical study of unidirectional composites using a discrete-damage model within full-field DIT-based simulations Co-authors: Cédric Bellis; Christian Hochard; Nadi Lahellec	B955 - Lichao Cheng (National Key Laboratory of Strength and Structural Integrity, School of Aeronautics, Northwestern Polytechnical University) Design and analysis of hybrid radar-absorbing structures realized by carbon fiber arrays Co-authors: Lebil Yan; Lihao Cheng; Minghui Cai; Keyu Zhu; Xiao Zhang	S1402 - Davide Mocerino (Imdea Materials) Robust Identification in Composite Panels via DIN Models Trained on FEM Simulations Co-authors: Carlos Gonzalez; Sofia Fernandez
12:15		S412 - Emmanuel Baranger (Université Paris-Saclay, CentraleSupélec, ENS Paris-Saclay, CNRS, LMPS - Laboratoire de Mécanique Paris-Saclay) Modeling of kinking in CFRPs: a multiscale competition between damage mechanisms	S1470 - Xi Li (Department of Aerospace Science and Technology, Politecnico di Milano) Fatigue Testing of End-Buckling Mode Evolution in Multi-Stable Composite Panels Undergoing Snap-Through	S1207 - María Grazia De Angeli (University of Edinburgh) Assessing the Performance of Recycled Carbon Fibre in Composite T-Joints Co-authors: Karthik Ram Ramakrishnan; Neha Chandarana; Ian Hamerton; Ian Gent	S1267 - Jinping Niu (Zhuzhou Times New Materials Technology Co Ltd) Development of a nano-composite ball spring for light hydrolic truck using Finite Element Method Co-authors: Bo Liu; Mingming Wang; Sai Li; Bo Xu; Chaoqi Peng	S1567 - He Zhou (Beihang University) Multi-scale Numerical Analysis of Snap-Defects on Made-It Interlaminar Fracture Toughness and Crack Propagation in Carbon/Epoxy Laminates Co-authors: Yi Wang; Xiaoding Li; Peng Ke; Xiaoqiang Li	A974 - Gaurab Sunder Dutta (Prof., TU Clausthal) Kinematic Approach for Virtually Hybridization of Carbon Fiber and Natural Fiber Textiles Co-authors: Christian Jeremich; Krishnachandran Chandrasekharan Nair Jayalekshmi; Leif Steuernagel; Carsten Schmidt	A648 - Thomas Gereke (TUD Dresden University of Technology, Institute of Textile Machinery and High Performance Material Technology) Experimental and Numerical Investigation of 3D Woven Carbon-Fibre Composites at the Microscale Co-authors: Johannes Mersch; Chokri Cherif	A1483 - Mustafa Agthaliagh (Sabanci University) Experimental and experimental study on the honeycomb cell deformation during the curved surface forming Co-authors: Sacha Kılıçl; Christian Pidavani; Gökay L'mutlu; PENG WANG	B734 - Ruochen Zheng (Ghent University) In-Situ Mechanical Characterization of 3D Interlock Reinforcements Using a Virtual Fiber Approach Co-authors: Kourosh Sayyar Dogaher; Wim Van Paepegem; Lode Daelemans	A1216 - Muhammed Oğuzhan Yeşilyurt (Istanbul Technical University Aerospace Research Center) Periodic Laminate Unit Cell for Predicting Stiffness, Strength, and Damage in CFRP Laminates. Co-authors: Mahammed Oğuzhan Yeşilyurtl; Melisa Dinçer; Dilan Arslan Çelal; Yusuf Can Sözbilmezl; Mükiye Cebeci
12:30		A1220 - Joshua Donoghue (University of Auckland) Effect of Fibre Architecture on Strain Rate Measurement by Direct-Axial Compression (ASTM-1604C) and Iosi-Hunt Bonding (ASTM-D6272) Co-authors: Tom Allen; Mark Battley; Pierre-Yves Mechin; Vincent Kervyn	A725 - Ce Yamamoto (Department of Aerospace Engineering, Tohoku University) Effect of Fiber Misalignment on Compressive Strength of Unidirectional Carbon Fiber Reinforced Plastics Considering Fiber Kink Band Formation Co-authors: Yuya Nakano; Haruki Oyamada; Satoru Yonezawa; Yuki Sada; Masayuki Uesugi; Akihisa Takeuchi; Akira Kuriboriwa; Nozomu Shigemitsu	A174 - Lukasz Figiel (University of Warwick) Multi-scale modelling of matrix damage-permeation in polymer composites Co-authors: Mustafa Okumusa; Hans Lansen	A1294 - Paloma Rodriguez Sueta (University of Bath) Long-Term Creep Performance of Thermoplastic Composites for eVTOL Battery Enclosures Co-authors: David Williams	◆P141 - Elizabeth Verweven (IIT – Zentrum für Biomolekülforschung Dschnik Gmbh) Development of a "green" and sustainable" mtap for production of highly filled polymers used in conductive foil applicable for energy applications Co-authors: Tim Sallowski; Marco Grunsller ◆P93 - Hamad Jalby (German Aerospace Center (DLR)) Functionalization of PEKK through integration of iron nitrosporticles Co-authors: Ashley Chudwick; Lukas Raps	◆A827 - Shishir Kumar (INDIAN INSTITUTE OF TECHNOLOGY KANPUR) Machine learning-based prediction of delamination in carbon/epoxy composites: Role of fiber-matrix debonding and process conditions Co-authors: Jasper Lieuguard; Debabrata Adhikari; Jesper Henri Hattel	A1539 - Sankhya Mohanty (Technical University of Denmark) Multi-Scale Modelling of Fatigue Damage in Wind Turbine Blade Substitution and Processing Conditions Co-authors: Jasper Lieuguard; Debabrata Adhikari; Jesper Henri Hattel	A670 - Célia Cosmet (Arkhea Alkanes) Study of the mechanical behavior in carbon/PAEK laminates during oto-consolidation Co-authors: Bernard Palach; Mari Legrand; Nicolas Vernet; Mohamed El Hamzaoi	A678 - Minghe Cui (Beihang University) Design and Manufacture of Thin Composite Shell Structures for Advanced thermal management Co-authors: Benjamin Wedel; Mark Schedel; Laura Pickard; Diego Alvarez Feito	A501 - Robert Oxford Pope (Bristol Composites Institute) Uncertainty Propagation in Composite Structures Using Bayesian Networks for Advanced thermal management Co-authors: Benjamin Wedel; Mark Schedel; Laura Pickard; Diego Alvarez Feito
12:45–13:45	**LUNCH**											
13:45–14:15	**2 KEYNOTES (rooms A & B)**	**★ KEYNOTE - Silvestre Pinho (Imperial College London)** **Simulation of mechanics of composites at different design stages: from sizing to certification** **Chair: Dimitrios Bikos (Airbus)**	**★ KEYNOTE - Leif Asp (Chalmers University of Technology)** **Multifunctional Composites** **Chair: Emile Greenhalgh (Imperial College London)**									
14:15–15:45	SESSION 10							ESCM Council Meeting				
14:15	Session →	**S110 - Understanding and improving longitudinal compressive strength** **Session chair: Dimitrios Bikos (Imperial College London), Alexander Bismarck (University of Vienna)**	**S121 - Computed tomography** **Session chair: Yentl Swolfs, Christian Breite, Mahsur Mehdikhani (KU Leuven)**		**5.2 Additive Manufacturing** **Session chair: Dan Zhao (University of Sheffield), Antoine Le Duigou (University South Brittany)**	**2.6 Nanocomposites** **Session chair: Dennis Gilbarth (Hamburg University of Technology), Alkis Paipetis (University of Ioannina)**	**1.9 Space & L 5 Marine** **Session chair: Iggo Lahart (European Space Agency), Philippe Noury (DNV)**	**2.1 Bio-Derived and Sustainable Composites** **Session chair: Khaled Shahin (United University of Emirates), Evangelos Kordatos (Sheffield Hallam University)**	**3.7 Fracture and Damage** **Session chair: Raj Das (RMIT University), Gillies Lubineau (KAUST)**	**4.1 Non-Destructive Evaluation & 4.1 Acoustic Emission and Ultrasonic Methods** **Session chair: Dimitrios Zarouchas (TU Delft), Theodoros Loutas (University of Patras)**	**3.7 Failure Mechanics and Simulations** **Session chair: Kevin Kosonog (Tokyo University of Science), Gustavo Quino (Imperial College London)**
14:30		S481 - Hwei Lim Khoo (Imperial College London) Understanding how fibre hybridization changes FRP compressive failure behaviour via computational modelling Co-authors: Richard Trask; Ioorata Pimenta; Paul Robinson	S777 - Ayshun Sultanzoda (York University) Full-Field Strain Analysis of Additively Manufactured Structures Under Compression Using Digital Volume Correlation Co-authors: Garrett Hetteka	S1221 - Erdem Dinler (INEGI) A Unified Phenomenological Model for Elastoplastic In-Plane Shear Response in Composite Materials Co-authors: Igor Lopez; Carolina Furtado; Pedro Ponces Camanho	S198 - Suresh Advani (University of Delaware) 2-Penetrator: A Strategy for Stronger

ECCM22 — WEDNESDAY (08:00–18:00) — TECHNICAL PROGRAMME · VERSION 2 (updated 19 June 2026)
◆ + italic = Short oral (7 min) · plain = Full oral (15 min) · Minor changes to the programme may occur.

Time	Activity	A	B	C	D	Forum	M1	M2	M4	M5	Balder	Odin
17:00		#1464 · Shanthalakshmi Kilambi (Faculty of Aerospace Engineering, Delft University of Technology) Digital Twin for Large Format Extrusion Additive Manufacturing Co-authors: Baris Caglar; Kunal Masania	#1347 · Dayou Ma (Politecnico di Milano) Damage identification, simulation and design of thermoplastic composites under impact loading Co-authors: Andrea Manes	#140 · Johannes Reiner (Deakin University) Probabilistic Simulation of Low-Velocity Impact in Non-Crimp Carbon Fibre Composites Using Finite Element Analysis and Uncertainty Quantification	#1500 · Christian Berggreen (Technical University of Denmark) Fracture Response of Unvented Aerospace Sandwich Panels: Effects of GAG Pressurization and In-Plane Loads Co-authors: Arturo Gomez	#1390 · Mahoor Mehdikhani (KU Leuven) Evolution of experimental methods for characterisation of mechanical properties of composites Co-authors: Jan Ivens	#391 · Mathilde Conan (IRDL, ENSTA – Institut Polytechnique de Paris) Mechanical recovery of Carbon Fibre/PPS laminates after repair of transverse matrix cracks. Co-authors: Maël Arhant; Thomas Bonnemains; Eric Lolive; Nicolas Carrère	#853 · Julia Hübner (Leibniz Institute for Polymer Research Dresden e.V.) Towards more Sustainable Cementitious Composites: Spinning of Bicomponent Micro-Fibers Using Recyled Polypropylene Co-authors: Norbert Smolka; Viktor Mechtcherine; Christina Scheffler	#758 · Emile Garrel (Institut Clément Ader / Safran) Mesoscale modeling of 3D woven composites behavior by a semi-continuous approach Co-authors: Pablo Navarro; Jean-François Ferrero; Steven Marguet; Laurent Baroumes; Sylvain Treutenaere	*◆#1764 · Simone Credidio (university La Sapienza)* *A Bayesian Framework for Composite Design Allowables: Uncertainty Quantification and Reliability Enhancement under Data Scarcity* ---	#1659 · Sungbi Lee (Korea Institute of Science and Technology) Structural Design of CFRP Sandwich Structures Using Spread-Tow Carbon Fiber Fabrics for Radiolucent Surgical Tables Co-authors: Munsu Kim; Seunghwa Yoo; Woong-Ryeol Yu; Cheol-Hee Ahn; Jung Jae Yoo; Il-Joon Bae; Wonjin Na	#650 · Alberto Blanco (CIDAUT) Physics Informed Machine Learning for Multi Zone Optimization of CFRP Aerospace Components Co-authors: Adrian Pedrosa Valbuena; Paula Bucci; Esteban Cañibano Álvarez; Juan Carlos Merino Senovilla; Maite Fernández Peña
17:15		#1421 · Patrick Flore (Leibniz-Institut für Verbundwerkstoffe GmbH) Digital Twin for Inline C-SMC Quality Assurance - Evaluating Strip Density Prediction via Learning-Based and Topological Approaches Co-authors: Fabian Röder; Andreas Gebhard; Kevin Chen	#163 · Jian Xiong (Harbin Institute of Technology) Damage behavior of all carbon fiber composite honeycomb sandwich structure under low-velocity impact load	*◆#84 · Thibaud Compain (Institut de Recherche Dupuy de Lôme (IRDL) UMR 6027, ENSTA)* *Design and experimental validation of a composite structure for deep-sea application* *Co-authors: Thomas Bonnemains; Eric Lolive; Florian Madec; Dylan Bizien; Nicolas Carrère* ---- *◆#957 · Bhaskar Shukla (Department of Mechanical & Aerospace Engineering, Indian Institute of Technology Hyderabad)* *Experimental Study of Quasi-Static Indentation and Compression after Indentation on Variable-angle tow Composites* *Co-authors: Gangadharan Raju*	#479 · Niko Krebs (University Paris Est Creteil) Bonding, debonding and rebonding with novel synthesized high Tg epoxy disulfide vitrimer adhesives for aerospace composite applications Co-authors: Fabian Hübner; Uwe Beier; Thomas Meer; Wolfgang Machunze; Agustin Rios de Anda	*◆#72 · Andreas Loth (BHT Berlin)* *Material investigations for stitch and glue boats* *Co-authors: Ralf Förster; Ulrike Siemer; Lutz Berger*	#1755 · Joseph Bernaert (Composite Mechanics Group (GR-MeC), Ecole Polytechnique Fédérale de Lausanne) Automated crack detection in thin paste adhesive joints Co-authors: Angelo S. Calabrese; Anastasios P. Vassilopoulos	#1116 · Spyros Tsiotos (Adamant Composites) Multifunctional CFRPs Enabled by Roll-to-Roll Laser-Reduced Graphene Oxide Co-authors: Chrysanthi Paparouni; Natalia Kantouni; Spyros Yannopoulos; Antonios Vavouliotis; Despoina Batsouli	#917 · Xuejiao Li (LPMT, University of Haute-Alsace) Yarn-Level Contact Morphology and Frictional Response under Pretension in Flax/PA12 Woven Fabrics Co-authors: Sascha Krugl; Christian Pidancier; Aboubakar sedick Ibrahim-mamane; Gildas L'Hostis; Peng Wang		#1675 · İlke Algül (Gebze Technical University) Static and Free Vibration Analysis of a Sandwich Shell with an Auxetic Honeycomb Core via the Unified Formulation and Generalized Differential Quadrature Method Co-authors: Ahmet Sinan Öktem	#605 · Yutaka Oya (Tokyo University of Science) Inverse Design of Polymer Properties Using Molecular Dynamics Data and Machine Learning Co-authors: Masaharu Katabira; Ryuichi Hiraiwa; Jun Koyanagi
17:30		#614 · Ashish Vinayaka Hegde (Delft University Of Technology) Bake it till you make it! Modelling the curing of composites with graph neural networks. Co-authors: Dimitrios Zarouchas; Baris Caglar	*◆#246 · Xudan Yao (Northwestern Polytechnical University)* *Thermal fatigue and hygrothermal aging behaviour of CNT/GFRP/CFRP composites* *Co-authors: Yaxin Wang; Haolin Wang*		#1000 · Yasir Mujahid (Department of Aerospace Engineering, Khalifa University of Science and Technology, PO Box 127788) Influence of Printing Speed on Peel Strength of FDM-Deposited Thermoplastic Polyurethane on Textile Substrates Co-authors: Wesley J. Cantwell; Kamran A. Khan	*◆#664 · Nicco Stroetmann (Fraunhofer IGP)* *FEM-driven design of a lightweight, modular composite hatch cover for ships* *Co-authors: Stefan Schmidt; Wilko Flügge*	*◆#1074 · Mehmet Yildiz (Sabanci University)* *Fracture analysis of interleaved composites with self-same resin-rich layers using mechanical testing, acoustic emission, and micro-visualization* *▸ T3 · Fracture and Damage* *Co-authors: Ali Barzegar; Ali Barzegar*	*◆#76 · Ana Rita Carreiras (Polythechnic of Porto, School of Engineering)* *Production of hybrid composites with recycled PET by pultrusion* *Co-authors: Púria Esfandiari; João Francisco Silva; António Torres Marques*	*◆#1668 · Vasileios Anagnostopou (B&T Composites SA)* *Development of a Dual Analytical–Computational Framework for the Design and Modelling of Hybrid Filament-Wound and AFP Carbon Fiber Rollers* *Co-authors: Marios Moutso; Evangelos Diplas; Kosmas Tiriakidis; Nikolaos Tiriakidis; Thomai Tiriakidou*		#1354 · Stephanie Miot (IRT Saint Exupery) How manufacturing affects the mechanical performance of CMC/Ceramic sandwich structures Co-authors: Emilie Perret; Julien Lesseur; Guillaume Jubelin; Solène Vendel; Céline Apheceixborde; Aurélien Debelle; Frédéric Bumbieler	*◆#976 · Chenlong Ruan (The University of Tokyo)* *Transfer Learning-Enhanced Surrogate Modeling for Expanded-Dimension Structural Response Prediction of Vertical-Axis Wind Turbines* *Co-authors: Yi Wan; Jun Takahashi*
17:38			*◆#584 · Jure Kajbič (Faculty of Mechanical Engineering, University of Ljubljana, Aškerčeva 6, Ljubljana SI-1000)* *Predicting the Fatigue Life of Material-Extrusion 3D-Printed Biodegradable Composites Reinforced with Continuous Fibres* *Co-authors: Jernej Klemenc*			*◆#750 · Kathryn Kennedy (University of Strathclyde)* *Development of Auxetically Inspired Composite Sandwich Structures for Cryogenic and Space Applications* *Co-authors: Catherine Yokan; Catherine Jones; Ross Minty*	*◆#296 · Tom Sauvard (ENSTA | Institut Polytechnique de Paris, UMR CNRS 6027 IRDL)* *Fracture characterization of hybrid composite /* *metal joints under dynamic loading conditions* *Co-authors: Georgios STAMOULIS; Aboulghit EL MALKI ALAOUI; Julie MASSON; Noelig DAGORN; David THEVENET*	*◆#916 · Pedro Ferreira Pinto (FEUP, INEGI)* *Microstructural Characterisation and Mode I Fracture Properties of Non-Conventional Composites* *Co-authors: Ana Francisca Carvalho Alves; Nathan Klavzer; Pedro Ponces Camanho*	*◆#1221 · David Williams (University of Bath)* *Factors Affecting Thermoplastic Tape-to-Tape Bond Strength in Automated Composites Manufacture*			*◆#1380 · Ali Barzegar (Sabanci University)* *Self-Diagnosing Composite Repairs: Constituent-Informed Acoustic Emission for Early Failure Prediction in CFRP Patches* *Co-authors: Abdulrahman Al-nadhari; Serra Topal; Mehmet Yildiz*
17:45		#1475 · Mahdi Tayyebati (Department of Civil and Mechanical Engineering , Technical University of Denmark) Physics-Informed Deep Learning Modelling of Thermo-Mechanical Fatigue Evolution and Failure in Composites Co-authors: Christian Berggreen; Brian N. Legarth	*◆#1749 · Aitor Arriaga (Leartiker S. Coop.)* *Long Term Performance of Injection Molded Isotactic Polypropylene containing Weld Lines in Neat and Glass Fiber Reinforced Grades.* *Co-authors: Sten J.J. van den Broek; Leon E. Govaert; Tom A. P. Engels*		#1537 · János Plocher (Ansys Germany GmbH) Reinforcing Element Technology for Complex Composite Structures: A Comparative Study of Solid Modeling Approaches Co-authors: Fabio Pavia; Rene Roos		*◆#608 · Jörg Hohe (Fraunhofer Institute for Mechanics of Materials IWM)* *A mesoscopic continuum damage material model for filament wound [±α] plies* *Co-authors: Carla Beckmann*	*◆#152 · Emmanuel Denis Manoni (Department of Civil and Environmental Engineering, Politecnico di Milano)* *Thermomechanical characterization of polyethylene terephthalate cords for rubber matrix composites* *Co-authors: David Faraci; Paola Caracino; Giorgio Novati; Claudia Comi*	*◆#713 · Oguz Kagan Genc (Airbus)* *Experimental and numerical investigations on the bending and inter-layer shearing behavior of glass-fabric rubber composites* *Co-authors: Gilles DUSSERRE; Steven Marguet; Fabrice Schmidt; Pablo Navarro; Alice Courtois*			*◆#854 · Marcello Laurenti (University of Rome La Sapienza)* *Generative AI Design of Bio-Inspired Interlocking Interfaces for Tailored Mechanical Performances* *Co-authors: Pilla Marianna; Jacopo Tirillò; Fabrizio Sarasini; Filippo Berto*
17:52			*◆#884 · Geoffrey Gisclon (Institut Clément Ader)* *Study of the Impact behaviour of Double-Double Laminate* *Co-authors: Pablo Navarro; Olivier Dorival; Steven Marguet; Jean-François Ferrero; Léonard Serrano*				*◆#809 · Ryuki Akimoto (Graduate School of Tokyo University of Science)* *Numerical Simulation of Fatigue Damage in CFRP Cross-Ply Laminates Incorporating Frequency-Dependent Internal Heat Generation Using an Entropy-Based Viscoelastic–Plastic Damage Model* *Co-authors: Yutong Li; Jun Koyanagi; Mohammad Fikry*	*◆#677 · Carrie Schulz (Institute of Polymer Materials and Plastic Engineering, Clausthal University of Technology)* *Modification of a flax fibre textile using a surface barrier discharge plasma in oxidating, inert and reducing gases* *Co-authors: Sebastian Dahle; Leif Steuernagel*	*◆#112 · Benjamin Gaud (Nantes Université, Ecole Centrale Nantes, CNRS, GeM, UMR 6183)* *Measurement and prediction of the development of mechanical properties of a flax-epoxy composite during the curing process* *Co-authors: Amandine Célino; Sylvain Fréour; Mael Péron*			*◆#967 · Ziyao Tang (University of Tokyo)* *Data-Driven Microstructure Extraction and RVE Reconstruction for NW-CFRTP* *Co-authors: Fan ZHANG; Mingqing YUAN; Yi WAN; Jun TAKAHASHI*

ECCM22 — THURSDAY (08:00–17:30) — TECHNICAL PROGRAMME - VERSION 2 (updated 19 June 2026)
◆ = Italic = Short oral (7 min) - plain = Full oral (15 min) - Minor changes to the programme may occur.

Time	Activity	A	B	C	D	Forum	M1	M2	M4	M5	Balder	Odin
08:00–08:30	**PLENARY 4 - Giulia Fredi (University of Trento)** **Young Researcher Award Winner** **Session chair: Clemens Dransfeld (TU Delft)**											
08:45–10:45	SESSION 12											
	Session →	S502 - Additive manufacturing (3D/4D printing, AFP) for advanced composites **Session chair: Masahito Ueda (Nihon University), Kamran Khan (Khalifa University)**	S530 - Variable-Stiffness Composites **Session chair: Richard Butler (University of Bath), Spyridon Psarras (University of Patras)**	S516 - Characterisation of recycled composites **Session chair: Ana Yong (National Physical Laboratory), Connie Qian (University of Sheffield), Panayiotis Tsokanas (KU Leuven)**	S501 - Delaminations and debonding in composite materials and structures **Session chair: Gilles Lubineau (KAUST), Luca Michele Martulli (Politecnico di Milano)**	S527 - Nature-Inspired Composites: From Natural Fibres to Biomimetic Structures **Session chair: Carlos Fuentes (Luxembourg Institute of Science and Technology), Kunal Masania (TU Delft)**	7.14 Topology/Design Optimization **Session chair: Wim Van Paepegem (Ghent University), Antônio Torres Marques (FEUP)**	3.12 Joining and Joints **Session chair: Martin Hirsekorn (ONERA), Andrea Bernasconi (Politecnico di Milano), Georgios Foteinidis (Luxembourg Institute of Science and Technology)**	3.4 Durability, Ageing, and Environmental Effects **Session chair: Nuno Correia (INEGI), Andreja Kraukliis (Latvia University of Life Sciences and Technologies)**	5.17 Welding and Bonding **Session chair: Anastasios Vassilopoulos (EPFL), Erik Andreassen (SINTEF)**	2.6 Nanocomposites **Session chair: Bodo Fiedler (Hamburg University Of Technology), Kosuke Takahashi (Hokkaido University)**	6.6 Sensing and Actuation **Session chair: Evangelos Kordatos (Sheffield Hallam University), Maik Gude (TU Dresden)**
08:45					#352 - Gilles Lubineau (KAUST) Understanding the role of chemical interactions and mechanical interlocking in the adhesion of electroplated copper to ABS Co-authors: Ran Tao; Amit Teetla	#1450 - Carlos Fuentes (Luxembourg Institute of Science and Technology) Enhanced Interfacial Energy Dissipation in Carbon Fiber Composites via Bioinspired Multilayer APTES Deposition using Atmospheric Micro-Plasma Co-authors: Jaime Buitrago-Osorio; Julien Bardon; Simon Bolou; Thomas Gaulain; Quintana Roberto	#919 - Inês Gonçalves (Institute of Science and Innovation in Mechanical and Industrial Engineering) Development and implementation of topology optimization techniques for unidirectional composite materials Co-authors: Bruno Christoff; Pedro Fernandes	#189 - Filipe Ribeiro (ISQ) Experimental Characterization of Out-of-Autoclave Composite Adhesive Joints for Aeronautical Applications Co-authors: Radouan Bouaitale; Luis Correia; Ricardo Rocha; Raul Campilho	#1105 - Juan Pablo Marquez Cos (PHMM, Arts et Métiers Institute of Technology, CNRS, CNAM) Analysis of the interfacial diffusion coefficient in organic matrix composites based on multi-scale finite element modelling of thermo-oxidation gradients Co-authors: Carsten Schmidt; Sebastian Heimbs	#1558 - Osuke Ishida (Innovative Composite Center, Kanazawa Institute of Technology) Heating process analysis in ultrasonic welding of thermoplastic composites based on dynamic viscoelasticity and vibration phenomena Co-authors: Kazutami Mitani; Kimihiko Uemura; Takeo Sogawa; Kyoshi Utzawa	#86 - Rachid Amrhar (Université de Toulon) Synthesis of a nanocomposite based on recycled epoxidized vegetable oils containing Ag-ZnO nanoparticles for antimicrobial surface protection Co-authors: Pascal Carriere; Phuong Nguyen-Tri	#1763 - Yun Xu (Institute of Lightweight Engineering and Polymer Technology (ILK), TUD Dresden University of Technology) 3D modelling of magnetic alignment dynamics of an individual fibre-like reinforcing element in melt-processed soft magnetic composites Co-authors: Anja Winkler; Martin Hehelig; Oliver Henry Schmidt; Maik Gude; Niels Modler
09:00					#873 - Joseph Bernaert (Composite Mechanics Group (GR-MeC), Ecole Polytechnique Fédérale de Lausanne - Station 16, Bâtiment BP.) Detection of Mode II fracture of thin paste adhesive joints Co-authors: Angelo S. Calabrese; John Botsis; Anastasios P. Vassilopoulos	#1222 - Raja Bade (City University of Applied Sciences Bremen) From Biomimetic Core Designs to Circular Composites: PHA-Based Sandwich Structures with Natural Fibre Reinforcements Co-authors: Dietmar Koch; Jörg Müssig	#91 - Muhammad Uzair (Department of Mechanical Engineering, LUT University) Reliability-Aware Multi-Objective Optimisation of Variable-Stiffness Composite Cylinders with Geometric Imperfections Co-authors: Saullo Castro; Humberto Almeida Jr.	#325 - Benedikt Preiz (Universität der Bundeswehr München) Influence of low-velocity impact damage on crack propagation in adhesively bonded thermoplastic composites Co-authors: Phillip Höfer; Jens Holtmannspötter	#1364 - María Morissa Lu (University of the Philippines Los Banos) Effects of high vacuum SEM on unaged and aged flax fibers/polyester composites Co-authors: Aart Willem Van Vuure	#874 - Till Kremsreiter (hennex GmbH) Examination and demonstration of innovative welding technologies for continuous fiber-reinforced thermoplastic hollow profiles in high-performance applications. Co-authors: Daniel Barfuss	#1024 - Xi Shen (The Hong Kong Polytechnic University) Anisotropic Nanocomposite for Sustainable Solar Thermal Application Co-authors: Xiaomeng Zhao; Yunfei Yang; Kit-Ying Chan	#363 - Karina Dragalzute (Kaunas University of Technology) Development of Cellulose Nanofibre–Mxene Nanopaper's as Multifunctional Interlayers for Fibre-Reinforced Plastic Composites Co-authors: Godfrinius Monastyreckis; Daiva Zeleniakiene
09:15					#859 - Jean-Baptiste Desbrest (EPFL) Debondable primer for demanufacturing of composite sandwich structures Co-authors: Véronique Michaud; Martyn Wakeman; Cristina Garcia-Simon; Ebrahim Farimand-Ashtiani; Philippe Cristou	#439 - Andrea Bercini Martins (Leibniz Institute of Polymer Research Dresden e.V.) Bioinspired nanoclay glass fiber sizing for interphase structuring in epoxy resin composites Co-authors: Toni Utecht; Lutz Zybell; Kai Uhlig; Christina Scheffler	#197 - Shuya Nozawa (Department of Mechanical Engineering, KU Leuven - Bruges Campus) Eigenfrequency control of composite beams via collaborative topology and fiber orientation optimization Co-authors: Gokhan Serhat	#80 - Thaïs Furon-Faucher (Airbus) Experimental characterization of bearing mechanisms in a carbon/epoxy composite laminate for the modelling of damage in hole-to-hole assembly Co-authors: Mathamet Sahbi Loukil; Amoog Lakshemaran; Stephanie Nunes; Runar Längström; Olfa Kanoun	#1079 - Elías Billals (Shipbuilding Technology Laboratory, School of Naval Architecture and Marine Engineering, National Technical University of Athens) Statistical analysis of the effect of long-term deep-sea exposure on the mechanical properties of filament wound composite materials Co-authors: Panagiotis Chatzinos; Asthinos Papadakis; George Konstantinidis; Nikolaos Tsouvalis	#1699 - Casilda Serrano Vilal (WMG, University of Warwick) Effects of polymer molecular weight on the performance of overmoulded parts Co-authors: Samson Gnanaloss; Ian Gupta; Neill Raath; Neil Reynolds; Tom Peijs	#355 - Yiqing Xue (Queen's University Belfast) Functionalized MWCNT/PEI nanocomposite for anti-icing/de-icing applications Co-authors: Dan Sun; Wenyan Liang	#903 - Ruben Wendey (Department of Materials Engineering, KU Leuven) Challenges and strategies for particle dispersion and process-induced microstructural design in functional particulate composites Co-authors: Yenth Swolfs; Ruth Cardinaels; Ari Vinuales; David Sevenoz; Frederik Desplenters; Marlies Wevers
09:30		#804 - Masahito Ueda (Nihon University) Recycling and tailored printing of carbon fiber composites Co-authors: Keigo Sato; Naruki Ishikawa	#905 - Matteo Iozzi (University of Bordeaux) A Stripe Pattern approach to generate a semi-realistic models of Variable Stiffness Composite laminates obtained through AFP Co-authors: Marco Montemurro; Jerome Pailhes; Anita Catapano	#268 - Ana Yong (NPL) Unlocking the value of recycled composites through advanced metrology Co-authors: Stefanos Giannis; Jamin Daniel Vincent; Michael Gower	#336 - Leonardo Guido Sahl (Politecnico di Milano) Modelling delamination initiation and propagation in composite structures using a combined CZM-VCCT approach Co-authors: Guilherme Da Cruz Sobral Picoto De Assunção; Sajjad Safaei; Andrea Bernasconi; Luca Michele Martulli	#1283 - Yahya Kara (Functional Polymeric and Particulate Materials Unit, Luxembourg Institute of Science and Technology (LIST), 28 avenue des Hauts-Fourneaux, L-4362) Development of lignocellulosic fiber-based all-cellulose composites Co-authors: Carlos A. Fuentes; Tim Huber	#150 - Matteo Pastrello (University of Ghent) Design Optimization of Thick-Walled Type IV Hydrogen COPVs using an Analytical Framework Co-authors: Marie Hondekyn; Wim Van Paepegem	#419 - Julian Steinmetz (TU Braunschweig) Early-stage assessment of bonded composite fuselage joints using a reduced structural model with high-fidelity material modelling Co-authors: Rem Kilian; Oliver Völkerink	#1196 - Valentin Perruchoud (TU Delft) Understanding the effects of outdoor and accelerated hygrothermal ageing on the monotonic and fatigue performance of flax FRP composites Co-authors: René Alderliesten; Yasmine Modeh	#119 - María Luisa Puga (University of Twente) Influence of dwell times on structure development and mechanical performance of cross-consolidated C/PEKK laminates Co-authors: Wouter Grouve; Vanessa Marinovic; Remko Akkerman	#1757 - Müslüm Kaplan (Bartin University) Metal-Free Thermoelectric Nanocomposites: g-C₃N₄/SWCNT Hybrid Fillers in Recycled Polyamide 6 for Sustainable Waste Heat Recovery Co-authors: Emre Alp; Beate Krause	#776 - Francesco Mongioì (University of Bologna, Department of Industrial Engineering) Self-Sensing CFRP Laminates with Electrospun Barium Titanate Nanofibrous Interfaces for Integrated Structural Health Monitoring Co-authors: Sofia Butenko; Arun Ichangi; Bernhard Weisse; Tommaso Ternelli; Tommaso Maria Brugo; Frank Clemens; Andrea Zucchelli
09:45		#868 - Giovangiuseppe Giusto (CIRA - Italian Aerospace Research Centre) Effect of TP-AFP Processing Windows on ILSS and Crystallinity of CF/LM-PAEK Rectangular-Ring Laminates Co-authors: Vincenzo Iannone; Felice De Nicola; Filomena Piscitelli; Mario Codantilde; Giovanni Cosentino; Pietro Caramuta; Pierpaolo Carbone	#1030 - Trang Le (Technological University of the Shannon) Effect of Fiber Inclination and Gaps on the Homogenised Stiffness of Variable Angle Tow Composites Co-authors: Paul Weaver; Paul Leahy; Daniela Butan; Luan Trinh	#286 - Roberto Palazzetti (Politecnico di Milano) Acoustic emissions for damage evolution monitoring on 4PB composite recycled samples Co-authors: Robert Huges; Andrea Zucchelli	#637 - Vasco Daniel Castro Pr (Chair of Designing Plastics and Composite Materials, Polymer Engineering and Science, Technical University of Leoben) Automated characterization of delamination onset and growth in multidirectional glass/epoxy laminates Co-authors: Maria Ghnerir; Clara Schaecker	#1388 - Jaime Buitrago Osorio (Luxembourg Institute of Science & Technology - LIST) Bioinspired Intermittent Plasma Deposition of APTES on Carbon and Glass Fibres for Tailored Interfacial Functionalization Co-authors: Julien Bardon; Simon Bolou; Thomas Gaulain; Roberto Quintana; C.A. Fuentes	#1015 - Burak Alperen İhtiyar (ITU) Multimaterial Auxetic Lattice Structures with Optimized Stiffness and Reduced Stress Concentration Co-authors: Rabia Nur Toprak; Ali Nabizadeh; Oguzcan Inal; Kaan Yildiz	#633 - Arthur Ioualalen (ENSTA | Institut Polytechnique de Paris, UMR CNRS 6027 IRDL) A comparative assessment of experimental tests for coupled-criterion-based Adhesive joint failure analysis Co-authors: Pierre BIDAUD; David THEVENET	#801 - Yuting Wang (Imperial College London) Quantitative Evaluation of Interfacial Degradation in Hydrothermally Aged CFRP Using Cyclic Push-Out Testing Co-authors: Eduardo Saiz; Finn Giuliani	#387 - Zeyue Wei (Department of Mechanical Engineering, Faculty of Design and Engineering University of Bath) Enhanced Resistance Welding of Thermoset Composites via Preconsolidated Heating Elements Co-authors: Thomas Makrehofer; Evripides G. Loukaides; Richard Butler; David Williams; Fulvio Pinto	#382 - Anastasios Vassilopoulos (EPFL, Composite Mechanics Group (GR-MeC)) Challenges in the Experimental Characterization of Bulk Structural Adhesives Co-authors: Filippo Mannino; Anastasios Vassilopoulos	#5 - Dan Sun (Queen's University Belfast) Synthesizing Functional Nanocomposites through "Green" Plasma Chemistry	#369 - Yupeng SN (KAUST) Wireless Passive LC Sensors for Lifetime Condition Monitoring of Non-Metallic Joints Co-authors: Hassan A. Mahmoud; Xiaole Li; Ping Hu; Gilles Lubineau
10:00		#1247 - Zsolt Kállai (Hamburg University of Technology) From Scan to Part: A Digital Process Chain for Nanofiber 3D Printing of Fiber-Reinforced Thermoplastics on Curved Thermoset Surfaces Co-authors: Johann Kipping; Thorsten Schlagenhauf; Jana Diekmann; Jan Bremer	#1418 - Eduardo Menezes (Leibniz Institut für Polymerforschung Dresden e.V.) Local Reinforcement of Cutouts in Filament-Wound Composite Cylinders Using Tailored Fiber Placement Patches Co-authors: Cristiano Azevedo; Tales Lisboa; José Humberto Almeida Jr; Matheus Madrid; Axel Spickenheuer; Sandro Amico	#1161 - Johnathan Vargas (Advanced Composites Group, Department of Mechanical and Aerospace Engineering, University of Strathclyde, James Weir Building, 75 Montrose Street, Glasgow, G1 1XJ) Mechanical performance of thermoplastic composites reinforced with thermally recycled glass fibres Co-authors: Ramin Moradi; Ross F. Minty; Liu Yang	#560 - Federica Daghia (Université Paris-Saclay, CentraleSupelec, ENS Paris-Saclay, CNRS, LMPS - Laboratoire de Mécanique Paris-Saclay) Identification of a two-mechanisms cohesive zone law for delamination of architected hybrid joints Co-authors: Luis Torres; Karin Saavedra	#703 - Fethye Esin Yakin (Luxembourg Institute of Science and Technology (LIST), Sustainable Composite Materials & Manufacturing (SCMM) Innovation Centre) Contrasting Durability Mechanisms in Flax Laminates and Bamboo Fiber Composites with MA-g-PP Modification Co-authors: Iouliana Chrysafi; Khouloud Tlilouche Guerdelli; Clément Mugemana; Carlos A. Fuentes Rojas	#682 - Alexandra Krzeminski (DMAS, ONERA, Université Paris-Saclay) Concurrent density- and fiber orientation-based topology optimization of 3D transversely isotropic composite structures with strength constraints Co-authors: Lander Verbanhgen; Johann Rannou; François-Xavier Irisarri; Boris Desmorat	#1557 - Vladimir Vinogradov (Newcastle University) Stress analysis and energy release rate in a single-lap shear joint Co-authors: Mohammad Fikry; Shinji Ogihara	#270 - Guillaume Lebreton (Nantes Université) Thermal oxidation of a disulfide based vitrimer Co-authors: Juliana Preisner; Antoine de Fontgalland; Nicolas Boyard	#607 - Rachel Zammit-Mangion (University of Bath) Statistical Evaluation of Surface Variability on Mode-I Performance of Adhesively Bonded Composite Joints Co-authors: Tom Ainsworth; Thomas Maierhofer; Chanel Fallon; Evripides G. Loukaides; Fulvio Pinto	#279 - Ayanou Morila (Waseda University) Effects of Processing and Nanofiller addition on the Mechanical and Thermal properties of Thermoplastic Epoxy Resin Co-authors: Hanaki Kuwata; Yoshihiko Arao; Jonathan Tanks	#1391 - Yansong Li (University of Warwick) Architectural Decoupling of Mechanical and Thermal Sensing in Dual-Layer Multifunctional Composites Co-authors: Han Zhang
10:15		#1516 - Julien Deschamps (Univ. Bretagne Sud, UMR CNRS 6027, IRDL) Adaptive by design: 4D-printed metamaterials inspired by marine life Co-authors: Mickael Castro; Christelle Combescure; Bertrand Galpin; Ugo Lafont; Nadia Amstalaz; Antoine Le Duigou	#1307 - Kai Uhlig (Leibniz-Institut für Polymerforschung Dresden e.V.) A novel manufacturing process for complex-shaped composite parts based on tailored fiber placement made preforms from a continuous mineral fiber / polypropylene and polycarbonate hybrid yarns Co-authors: Lucas Schrau; Axel Spickenheuer; Christina Scheffler; Markus Stommel	#1594 - Masoud Bodaghi (Luxembourg Institute of Science and Technology (LIST), Sustainable Composite Materials & Manufacturing Innovation) Advancing Sustainable Composites: Benchmarking Recyclable ExCiSo® Resin Against Aralditе Epoxy Using Robotic GRAM® Wet Filament Winding with Recovered Continuous Carbon Fibres Co-authors: Clément Mugemana; Samet Ozyigit; Claus G. Bayreuther; Ahmed El Moumen; David Mackintz; Murika Lu; Martin Kerschbaum	#989 - Ahmed Wagih (Mechanics of Composites for Energy and Mobility Lab, King Abdullah University of Science and Technology (KAUST)) Effect of ply thickness on interlaminar fracture toughness of thin-ply thermoplastic composites Co-authors: Karim Coutchan; Faith Oz; Xiaole Li; Gilles Lubineau	#1132 - Kunal Masania (TU Delft) Three-dimensional printing of functional mycelium biohybrids	#219 - Karthik Ramaswamy (Collins Aerospace - Applied Research & Technology) Multidisciplinary Design Optimization Framework for Composite Structures with Manufacturing Constraints Co-authors: Erich Wehrle	◆*#123 - Dustin Gesang (German Aerospace Center e.V.)* *Thermal simulation of thermoplastic resistance welding for complex-geometry interfaces*	#712 - Luiza Melo De Lima (Thermoplastic Composites Research Center (TPRC)) Kinetic Modelling of Early-Stage Thermal Degradation in Carbon-Fibre-Reinforced Thermoplastic Composites During Processing Co-authors: Marten van der Werff; Lars Nieto; Sabrine Bentalib; Vanessa Marlinoci	#899 - Emma Chiavelli (Faculty of Aerospace Engineering, Delft University of Technology) Magnetic Nanoparticles for Self-regulated Magnetic Heating in Thermoplastic Composite Welding Co-authors: Agneta Meiksane; Laura Rossi; Clemens Dransfeld	#1342 - Mariam Omar (Sabanci University) From Fiber Coating to Matrix Integration: Enhancing Strength–Toughness Performance via Dual-Alkenated Interphase in CF Epoxy Composites Co-authors: Cahit orhan Senol; Abdulrahman Al-Nadhari; Mostafa Mehdipour; Saeed Sattarahamadmaliki; Bekir Dizman; Mehmet Yildiz	#1166 - Theodora Kryparakou (Institute of Lightweight Engineering and Polymer Technology (ILK), TUD Dresden University of Technology) Performance Assessment of Piezoelectric Sensors and Encapsulation Techniques in Composite Structures Co-authors: Nils Wilde; Anja Winkler; Andreas Hornig; Maik Gude
10:30		#660 - Justin Merotte (IRDL/UBS) From Limitation to Function: Toward Localized 4D-Printing Control for Morphing Complex Multi-Material Composite Parts Co-authors: Quentin Le Path; Melvin Joseillo; Antoine Le Duigou		#1496 - Gregory Petropoulos (Department of Mechanical Engineering and Aeronautics, University of Patras) Mechanical and interfacial performance of recycled carbon and glass fibres from a combined pyrolysis-recycling method Co-authors: Panayiotis Tsokanas; Yixue Zhang; Alexandros Prapavesis; Vassilis Kostopoulos	#1241 - Riem Kilian (TU Braunschweig) Enhancing Damage Tolerance in Adhesively Bonded CFRP Leading-Edge Slat through Surface Toughening Co-authors: Martin Johannes Scholterer; Oliver Völkerink	#856 - Kyungil Kong (University of Bristol) Hierarchical interphase design with metal-oxide nanostructures on carbon fibres for improved impact resistance and functionality Co-authors: Young Bin Park; Hyung Wook Park	#388 - Troy Zangle (University of Maine) Multi-Objective Optimization of Additive Manufactured High-Speed Small Craft Co-authors: Nicholas Garfield; Jacob Ward			#235 - Hawraa Becher (RT Jules Verne, IREENA) Modelling degradation and healing effect on inductive welding of carbon fiber reinforced composite Co-authors: Banda Kane; Guillaume Wasselynck; Didier Trichet; Guillaume Vincent	#278 - Serge Zhutykov (Ghent University Global Campus) Ultrathin $Ga_2In_2O_3$-Ag Plasmonic Composite Membranes for Dual-Mode Photonic and Spectroscopic Detection of Biomolecules Co-authors: Muhammad Karbalaei Akbari	#529 - Fanni Balogh (Budapest University of Technology and Economics) Integration of Multifunctional PCL Layers for Enhanced Performance in Smart Composite Systems Co-authors: Andrea Toldy; Gábor Szebényi
10:45–11:15	**COFFEE BREAK**											
11:15–12:30	SESSION 13											
	Session →	4.2 Data-Driven and Full-Field Methods **Session chair: Janice Barton (University of Bristol), Frédéric Laurin (ONERA)**	T3 - Fibre & ductile behaviour **Session chair: Gergely Czél (Budapest University of Technology and Economics), Yentl Swolfs (KU Leuven), Patrik Fernberg (Luleå University of Technology)**	S512 - Long Discontinuous Fibre Composites: Processing, Microstructure, Properties and Performance **Session chair: Connie Qian (University of Sheffield), Miro Duhovic (Leibniz-Institut für Verbundwerkstoffe)**	5.1 2D and 3D Textile Reinforcements and Their Composites **Session chair: Andreas Endruweit (University of Nottingham), Leonie Weiblen (Fraunhofer IGCV)**	T5 - Braided composites & Processing technologies **Session chair: Roland Hinterhoelzl (University of Applied Sciences Upper Austria), Beth Grimes (NCC)**	T3 - Multiscale modelling: Hybrid Modelling & Creep **Session chair: Olga Bulderberga (University of Latvia), Stergios Goutianos (NTNU)**	7.12 Structural Health Monitoring and Quality Control **Session chair: Nathalie Godin (INSA of Lyon - Mateis), Andrea Bernasconi (Politecnico di Milano)**	T7 - Design methods **Session chair: Richard Butler (University of Bath), Raj Das (RMIT University)**	5.17 Welding and Bonding **Session chair: Antonios Stamopoulos (University of L'Aquila), Kalliopi-Artemi Kalteremidou (Vrije Universiteit Brussel)**	7.11 Recycling, Remanufacturing, and Circular Economy **Session chair: Kunal Masania (TU Delft), Souvik Chakraborty (DLR)**	T6 - Functionality & Smart Systems (mixed) **Session chair: Alkis Paipetis (University of Ioannina), Kyriaki Tsirka (University of Ioannina)**
12:00		#585 - Ines Chaouki (Vrije Universiteit Brussel (VUB)) 3D-micro-CIC as a full-field technique for residual strain analysis using incremental hole drilling in additively manufactured nylon composites. Co-authors: Lincy Pyl	#181 - Michael Winson (University of Bristol) Flexural failure of pseudo-ductile carbon / glass hybrid laminates and the interaction between tensile and compressive response Co-authors: Putu Suwarta; Gergely Czél	#793 - Demeke Abay Ashebir (Swinburne University of Technology) FFF-Printed Continuous-Fiber Thermoplastic Composites for Lightweight Aerostructures: A Correlation of Process-Induced Defects and Mechanical Properties Co-authors: Mostafa Nikzad; Reza Arabiouei; Andreas Hendlmeier; Michelle Dunn; Benedicta Arhatari	#177 - Rebecca Emmerich (Institut für Textiltechnik of RWTH Aachen University) Adaption of the multi-axial warp knitting process for processing of rCF-Tapes Co-authors: Maeve O'Neill; Lourens Blok; Paul Riesen	#1328 - Ellinor Jansson (Chalmers University of Technology) Improving Manufacturability of Structural Battery Composites Using High-Volume Battery Production Practices Co-authors: Richa Chaudhary; Leif Asp; Björn Johansson	#1122 - Faranak Bahrami (Brunel Composites Centre) A predictive multiscale modelling framework to accelerate the development of novel vitrimers and their composites Co-authors: Daniel Paul; Konstantinos Papadopoulos; Nithin Jayasree; Sadik Omairey; Mihalis Kazilas; Dimitris Anastasiou	◆*#258 - Aléxandra Homi Sano (King Abdullah University of Science and Technology)* *Capacitive IoT Strain Sensing System for Structural Health Monitoring of Non-metallic Pipes* *Co-authors: Hassan Mahmoud; Omar Khalifa; Mohammed Hussaini; Nour Kouadrhiri; Abdulaziz Aziz; Ahmad Al-Jarro; Ali Shehri; Hamad Saleh; Rizwan Bajwa; Tareq Al Nuffouri; Gilles Lubineau* --- *◆#1032 - Adele Berends (Technical University of Leoben)* *Comparison of the Mode I and Mode II fracture toughness of glass fiber- and carbon fiber-epoxy laminates and in-depth analysis of the delamination process using acoustic emission analysis* *Co-authors: Maria Ghnerir; Andreas Brunner; Gerald Pinter*	#1429 - Kinal Kim (Department of Mechanical Engineering, Inha University) Laser-Induced Graphene Metasurfaces with Anisotropic Conductivity for Load-Bearing Broadband Radar Absorbing Structures Co-authors: Sang Eul Lee	#487 - Zeyue Wei (Department of Mechanical Engineering, Faculty of Design and Engineering University of Bath) Enhanced Resistance Welding of Thermoset Composites via Preconsolidated Heating Elements Co-authors: Thomas Makrehofer; Evripides G. Loukaides; Richard Butler; David Williams; Fulvio Pinto	◆#418 - Valeria De Fabritiis (Politecnico di Milano) *M4d, universal and flexible catalyst-assisted solvolysis for circular recycling of fiber reinforced polymers* *Co-authors: Leonardo Mattia; Gianmarco Griffini; Stefano Turri* --- ◆#342 - Julio Vidal (ARTpi) *Recovery and reuse of recycled materials after solvolysis treatments* *Co-authors: Carlos Hamono*	◆#1682 - Yi Liu (Loughborough University) *Autonomous Thermal Management in Flexible Conductive Polymer Composites for Wearable Systems and Battery Safety* *Co-authors: Hongxu Gao; Licheng Lu; Ton Peijs; Emiliano Bilotti; Han Zhang* --- ◆#1799 - Valeria Berner (Fraunhofer Institute for Chemical Technology ICT) *Recyclable, flame retardant epoxy vitrimers based on disulfide bonds and their composites preparation* *Co-authors: Arnste Haegun; Larissa Hammer; Anna Maria Cristadoro; Carl-Christoph Hilbne*
12:15		#159 - Vahid Mousheli-Rad (Wood Materials Science, Institute for Building Materials, ETH Zürich, 8093 Zürich, Switzerland.) Unsupervised-Supervised Classification and Regression Machine Learning (USS-ML) Framework for Predicting Mechanical Properties of Reconstructed Poplar, a High-Performance Fiber-Reinforced Biocomposite Co-authors: Ingo Burgert; Guido Panzarasa			#1561 - Peng Xu (School of Mechanical Engineering and Automation, Beihang University) Mechanical property variation after incremental sheet forming of woven fabric reinforced polymer structures Co-authors: Yi Wang; Xiaobing Li; He Zhou; Xiaoqiang Li	#640 - Jeesun Lee (Korea Advanced Institute of Science and Technology) Microscale Permeability Prediction of Fibrous Textiles using Finite Basis Physics-Informed Neural Networks and Domain Decomposition Co-authors: Denis Korolev; Miro Duhovic; Seong Su Kim	◆#543 - Masdeh Amirpour (the University of Auckland) *Designing Durable Hydrogel-Lattice Composites for Personalised Biomechanical Interfaces: An Experimental and FE Modelling Study* *Co-authors: Connor Pearson; Mohammadreza Arjmandi; Mariusz Mariusz Kempan*	◆#661 - Federico Marino (University of Derby) *Mechanical and Electrical Characterisation of GnP-reinforced Thermoplastic Elium® Nanocomposites* *Co-authors: Yiling Lu; Marzena Pawlik* --- ◆#1565 - *Stefano De Luca (University of Parma)* *Preparation of polymer-based composite scaffolds functionalized with titanium dioxide nanoparticles for water remediation* *Co-authors: Clarissa Facchetti; Federica Bianchi; Claudio Suppini; Michele Bocelli; Alessandro Carloni; Roberto Montanari; Daniel Milanese; Corrado Sciancalepore*	#383 - Aya Hosni (Imperial College London) Functionally graded lattices designed by machine learning: considering material orthotropy Co-authors: Jier Wang; Yuki Fujita; Ajit Panesar	#100 - Ioan Birgauanu-Acasi (TU Delft) Towards model based control for static ultrasonic welding of thermoplastic composites: Identifying causal factors influencing weld machine displacement recordings Co-authors: Saulo Giovani Pereira Castro; Clemens Albert Dransfeld; Irene Fernandez Villegas	#493 - Flavie Largenton (LAMPA) Influence of a new sizing on recycled carbon fibres on the fibres and composite mechanical and chemical properties Co-authors: Monica Francesca Pucci; Pierre-Jacques Liotier; Christophe Cruanes; Olivier Mantaux; Laurent Guillaumat; Sébastien Guinault	◆#357 - Gaurav Jee (Korea Institute of Materials Science) *Re-infusion-Based Repair Process and Structural Integrity Evaluation of Pultruded CFRP Spar Caps with Unimpregnated Interlaminar Defects* *Co-authors: Youngchul Kim; Ji-Hoon Kim; Sang Yi Song; Mungyu Jeong; Jisang Park; Kil Sung Lee; Dong Ho Ha* --- ◆#1127 - *Defne Deniz Mancoğlu (Istanbul Technical University)* *Tailoring Composite Laminates for Auxetic Behavior via Particle Swarm Optimization* *Co-authors: Kaan Yıldız; Hülya Cebeci*
12:30–13:30	**LUNCH**											
13:30–14:00	**2 KEYNOTES (rooms A & B)**	★ **KEYNOTE - Kim Gjeldahl (Exel Composites Plc)** **Forward-thinking sustainability for composites** **Chair: Ton Peijs (University of Warwick)**	★ **KEYNOTE - Essi Sarlin (Tampere University)** **Zooming in on composite structures: Possibilities and challenges of microscale mechanical testing** **Chair: Ole Thomsen (Bristol Composites Institute)**									
14:00–15:30	SESSION 14											
	Session →	S502 - Additive manufacturing (3D/4D printing, AFP) for advanced composites **Session chair: Ugo Lafont (European Space Agency), Malik Gude (TU Dresden)**	S528 - Intelligent Production Technologies for Load-Dedicated Graded Polymer Composite Structures **Session chair: Petar Peric (Institute for Plastics Processing), Marco Zichner (TU Dresden)**	S516 - Characterisation of recycled composites **Session chair: Andrea Bernasconi (Politecnico di Milano)**	2.4 Interfaces **Session chair: Mahoor Mehdikhani (KU Leuven), Souvik Chakraborty (DLR)**	3.4 Durability, Ageing, and Environmental Effects **Session chair: Ignaas Verpoest (KU Leuven), Andrejs Kraukliis (Latvia University of Life Sciences and Technologies)**	5.12 Manufacturing of Discontinuous Composites **Session chair: Iryna Tretiak (University of Bristol), Yvonne Aitomäki (RISE)**	6.6 Sensing, Actuation, Storage **Session chair: Daiva Zeleniakiene (Kaunas University of Technology), Dimitrios Bekas (Airbus)**	2.2 Fibers and Textiles **Session chair: Delphine Querellhac (Université Bretagne Sud), Kalliopi-Artemi Kalteremidou (Vrije Universiteit Brussel)**	7.7 Environmental Impact, Life Cycle Assessment & 7.13 Sustability by design **Session chair: Nektaria-Marianthi Barkoula (University of Ioannina), Gustavo Quino (Imperial College London)**	2.1 Bio-Derived and Sustainable Composites **Session chair: Alexander Bismarck (University of Vienna), Carlos Fuentes (Luxembourg Institute of Science and Technology)**	6.5 Self-Healing **Session chair: Aaditya Surathkar (University of Augsburg, Germany), Alkis Paipetis (University of Ioannina)**
14:00		#920 - Ezra Yalcinkaya (University of Mons) Light-driven priipam/gold nanoparticle hydrogel nanocomposites for biomedical applications Co-authors: Manon Cassignol; Jean-Marie Raquez; Pierre Lambert; Jérémy Odent	#676 - Petar Peric (Institute and Chair for Plastics Processing at RWTH Aachen University) Coextrusion of profiles with graded mechanical properties to reduce stress peaks Co-authors: Lutz Uise; Jonathan Alms; Kai Fischer; Christian Hopmann	#512 - Anna Siebert (Institute of Polymer Materials and Plastics Engineering, Clausthal University of Technology) Mechanical Recycling of Carbon-Fibre-Reinforced Thermoplastics: Effects of Processing Strategies on Structure and Mechanical Performance Co-authors: Leif Steuernagel; Carsten Schmidt	#759 - Ross F. Minty (University of Strathclyde) Re-exploring the Importance of Residual Stresses to the Stress Transfer Capability of the Fibre-Matrix Interface Co-authors: Beth Malone; David Bryce; Liu Yang; James L. Thomason	#791 - Andrejs Kraukliis (Latvia University of Life Sciences and Technologies (LBTU)) Decoding Environmental Drivers of Glass Fiber Dissolution in Composite Materials Co-authors: Eduards Skukis; Olesja Starkova; Gintars Brīedis; Sergejs Gaidukovs; Sotirios Grammatikos	#1571 - Shivdarshan Shengar (University of Bath) Effect of resin infusion on fibre orientation level of aligned discontinuous fibre composites Co-authors: Het Shah; Edwin Rosario Gabriel; HaNa Yu	#361 - Gabrielė Jovarausk̇ė (Kaunas University of Technology) Rain-erosion damage assessment on wind turbine blades using MXene and carbon nanot

ECCM22 — THURSDAY (08:00–17:30) — TECHNICAL PROGRAMME · VERSION 2 (updated 19 June 2026)
◆ + italic = Short oral (7 min) · plain = Full oral (15 min) · Minor changes to the programme may occur.

Time	Activity	A	B	C	D	Forum
14:15		#167 · Sho Bando (The University of Tokyo) Experimental and numerical study on thermal deformation and mechanical properties of 3D printed continuous carbon fiber reinforced composites Co-authors: Naruki Ichihara; Ryo Higuchi; Tomohiro Yokozeki	#335 · Stephan Rudolph (Professorship Adaptronics and Lightweight Design, Chemnitz University of Technology) Manipulation of fibre orientation using shape memory alloys infibre-reinforced plastics during manufacturing – a feasibility study Co-authors: Tony Krüger; Ricardo Decker; Kenny Pagel; Matthias Klärner; Welf-Guntram Drossel; Lothar Kroll	#1327 · Marina Corvo Alguacil (Lulea University of Technology) Evaluation of the Effect of Re-Sizing for Recycled Carbon Fiber Using Various Pyrolysis Conditions Co-authors: Rudi Reichenbächer; Christina Scheffler; Roberts Joffe	#392 · Rami Alawar (LMGC, IMT Mines Alès) Coupling thermal and interfacial analysis for a deeper understanding of fiber–matrix adhesion in thermoplastic composites Co-authors: Pierre-Jacques Liotier; Olivier De Almeida; Gautier Allusse; Monica Francesca Pucci	#653 · Alex Frederick Liebau (Fraunhofer Institute for Large Structures in Production Engineering IGP) Investigations into residual load-bearing capacity of damaged and artificially aged flax-fiber-reinforced composites Co-authors: Leon Struck; Stefan Schmidt; Wilko Flügge
14:30		#738 · Erdem Yildiz (Bristol Composites Institute, Department of Aerospace Engineering, School of Civil, Aerospace, and Design Engineering, University of Bristol) 4D Printing of Fibre-Reinforced Thermoplastics: A Pathway to Intelligent Composite Manufacturing Co-authors: Richard S. Trask	#699 · Evgenia Madia (Institute of Lightweight Engineering and Polymer Technology, Technische Universität Dresden) Computational workflow for process–structure analysis of thermoplastic braided tape preforms in pressing Co-authors: Georgios Tzortzinis; Angelos Filippatos; Maik Gude	#721 · Lorenzo Calervo (POLITECNICO DI MILANO) On the failure mechanisms in discontinuous fiber composites obtained from recycled prepreg scraps. Co-authors: Maheshwara Reddy Jedla; Luca Michele Martulli; Tommaso Maria Brugo; Paolo Bettini; Roberto Palazzetti	#410 · Leandra Schmid (Pforzheim University) Investigation of Interface Optimization Methods in Thermoset–Thermoplastic Hybrid Structures Co-authors: Simon Mörmann; Ingolf Müller; Konstantin Mehl; Sebastian Schmeer	#642 · Anna Kandinskaia (KU Leuven) Time-dependency of self-reinforced polypropylene and biaxially oriented polypropylene laminates Co-authors: Arianna Tavano; Pauline Koslowski; Laurens van Audenaerde; Nathan Vanden Bulcke; Ignaas Verpoest; Yentl Swolfs
14:45		#183 · Quynh Anh Le (ESTACA) A conductive polymer composites (CPCs)-based micron-thick embeddable strain sensor via fused deposition modeling (FDM). Co-authors: Thuy-Quynh Truong-Hoang; Fabienne Touchard; Ahmad Akrad	#843 · Oliver Henry Schmidt (Institute of Lightweight Engineering and Polymer Technology - Dresden University of Technology) Experimental and numerical investigation into magnetic alignment of coated fibres in thermoplastic melts Co-authors: Nisha Poonia; Anja Winkler; Yun Xu; Shengqiang Zhou; Maik Gude; Thomas Lampke	#762 · David Bryce (University of Strathclyde) Use of Recycled Glass Fibres and Manufacturing Waste in the Production of Sustainable Bulk Moulding Compounds. Co-authors: Liu Yang; Johnattan Vargas; James Thomason; Ramin Moradi; Richard Diskin	#754 · Beth Malone (University of Strathclyde) Further exploration of single fibre gold coating to investigate the contribution of residual stresses to the fibre-matrix interface Co-authors: Rebecca Lunn; James L Thomason; Ross F Minty	#1003 · Qiujun Wang (The University of Tokyo) Effects of Long-Term Hydrothermal Aging and Secondary Recycling Process on the Interfacial and Mechanical Properties of Recycled Carbon Fibers Co-authors: Haruna Maruko; Yi Wan; Jun Takahashi
15:00		#1524 · Mathieu Le Blévenec (Université Bretagne Sud, UMR 6027, IRDL, BIONICS Group) 3D printing of bio-inspired multi-composite material for energy dissipation in coastal environments. Co-authors: Antoine Le Duigou; Arnaud Perrot; Justin Merotte	#771 · Johannes Keil (TUD Dresden University of Technology, Institute of Lightweight Engineering and Polymer Technology) Realizing Local Coverage Variations in Thermoplastic Tape-Braided Structures Co-authors: York Stuhldreher; Alexander Liebsch; Veit Würfel; Frank Adam; Peter Partzsch; Niels Modler	#491 · Jianqun Hao (Vrije Universiteit Brussel) Upcycling carbon fibre prepreg scraps by optimizing ply-level joining geometry for high-performance laminates Co-authors: Emma Declercq; Konstantinos Giannadakis; Danny van Hemelrijck; Kalliopi-Artemi Kalteremidou	#370 · Jesse Savolainen (Materials Science and Environmental Engineering, Tampere University) Improving the surface properties of recycled glass fibers with supercritical CO2 silylation Co-authors: Essi Sarlin	#1625 · Pietro Agostino (NTNU) On the durability of non-crimp fabric composite exposed to water bath and freeze-thaw aged Co-authors: Sotirios Grammatikos
15:15		#1491 · Alfonso Magliano (University of Salerno) Design of hybrid leading edge based on titanium lattice structure architecture and CFRP for improving the damage tolerance under bird strike conditions Co-authors: Francesco Di Caprio; Marco Russo; Stefania Franchitti; Rosario Borrelli; Valentino Paolo Berardi; Antonio Langella	#728 · Klara Liesegang (Fraunhofer Institute for Machine Tools and Forming Technology IWU) Digital Twins for In-Line Monitoring of Press Processes for Composites with 3D grading: a Concept Paper Co-authors: Johannes Keil; Alexander Dementyev; Alexander Liebsch; Niels Modler; Steffen Ihlenfeldt	#1335 · Johanna Beckmann (Paderborn University) Processing-Structure-Performance Interactions in Recycled PA6-CF Flake-Based Composite Laminates Co-authors: Paul Kästner; Thomas Tröster; Thorsten Marten	#1324 · Gregory May-Wilson (University of strathclyde) An Investigation on the effects of fibre sizing on glass fibre Elium and Epoxy composites Interfacial shear strength Co-authors: Ross Minty; Stefanos Giannis; Niklas Meyn	#877 · Niklas Lorenz (Aerospace Structures & Materials Department, Faculty of Aerospace Engineering, Delft University of Technology) Effect of thermo-oxidative ageing on the dynamic properties of disulfide-based epoxy vitrimers Co-authors: Baris Kumru; Santiago. J. Garcia

Time	M1	M2	M4	M5	Balder	Odin
14:15	#256 · Jabran Saroia (The University of Auckland) Enhancing Mechanical Properties Through Reactive In-Situ Plasma-Assisted Extrusion of Glass Fibre-Reinforced Polypropylene/Polyamide-6 Blend Composites Co-authors: Mark Battley; Simon Bickerton; Tom Allen	#908 · Tommaso Ternelli (University of Bologna) Impact localization by P(VDF-TrFE) piezoelectric nanofibers scaled up from coupons to real components Co-authors: Francesco Mongioi; Benedetta Baldini; Lorenzo Calervo; Francesco Madaro; Federica Zonzini; Roberto Palazzetti; Emanuele Maccaferri; Alessio Marrani; Claudio Rossi; Tommaso Maria Brugo; Andrea Zucchelli	#347 · Alexia Reynet (GEMTEX) Evaluation of the manufacturing of slivers and rovings from recycled carbon fibers Co-authors: Jean Ivars; Ahmad Rashed Labanieh; Damien Soulat	#386 · Paul Domberger (TU Leoben, Processing of Composites and Design for Recycling) Life cycle screening of alpine ski delamination by solvolysis employing supercritical fluids – A novel recycling approach Co-authors: Christine Bandl	#991 · Giovanni Filippone (Dipartimento di Ingegneria Chimica, dei Materiali e della Produzione Industriale (DICMaPI) - Università di Napoli Federico II) Effect of Processing Pressure on the Interfacial Shear Strength in Hemp/PLA Biocomposites Co-authors: Natalia Victoria Dos Santos; Lucia Gioiella; Giulia Ronconi; Libera Vitiello; Valentina Mazzanti; Sabrina Carola Carroccio; Veronica Ambrogi; Martina Salzano de Luna	#591 · Kota Kanauchi (Tokyo University of Science) Self-Healing Mechanisms and Mechanical Property in Polyrotaxane-Modified Epoxy Vitrimers: A Molecular Dynamics Study Co-authors: Yutaka Oya; Kimiyoshi Naito; Junichi Hukuda; Jun Koyanagi
14:30	#904 · Joana Malheiro (PIEP - Innovation in Polymer Engineering) SMC goes full circle: From characterization and numerical simulation of compression moulding to end of life recycling Co-authors: Paulo Antunes; Helena Rocha; João Ribeiro; Renato Reis; Daniel Rodrigues; Ana Ruivo; Andreia Vilela; Sofia Oliveira	#340 · Tommaso Maria Brugo (University of Bologna) Smart luminescent coating for indentation damage detection on composite laminates Co-authors: Francesco Mongiòi; Tommaso Ternelli; Emma Contini; Lorenzo Gatti; Lucai Maini; Damiano Genovese; Andrea Zucchelli; Chiara Gualandi	#1020 · Indraneel Roy Chowdhur (Aalborg University) Impact of chemical recycling on the surface roughness and sizing retention of carbon fibre reinforcements recovered from recyclamine epoxy composites Co-authors: Leonid Gurevich; Lars Rosgaard Jensen; Brian Lau Verndal Bak; Esben Lindgaard	#620 · Sabrina Diniz (German Aerospace Center (DLR)) Mind the gap: Improvement of the life cycle inventory for epoxy resins Co-authors: Jens Bachmann; Karina Kroos; Steffen Opitz	#599 · Jonas-Rumi Baumann (University of Applied Sciences Bremen) Genotype-Structure-Property Relationships in Fibre Nettle: A Multiscale Study from Fibre-Level Properties to Composite Performance Co-authors: Alexander Behrens; Hans-Jörg Gusovius; Carsten Lühr; Kolja Ostendorf; Michaela Eder; Jörg Müssig	#77 · Daniele Rigotti (University Of Trento, Department of Industrial Engineering) Design Of Advanced SelfHealing Mechanism In Fiber Reinforced Composite Co-authors: Andrea Dorigato; Alessandro Pegoretti
14:45	#125 · Burak Ogun Yavuz (University of Bristol) The effect of curing pressure on consolidation of aligned discontinuous fibre-reinforced composites (ADFRCs) Co-authors: Mihai Ilinca; Hao Yuan; Yuncong Feng; Stephen R. Hallett; Ian Hamerton; Jonathan P.-H. Belnoue; Byung Chul Kim	#1791 · Natalia Violari (AmaDema) Development of structural supercapacitors for integrated energy storage in composite materials	#1447 · Jean Rougé (Bernal Institute) Wet-Spinning and Carbonisation of Water coagulated Lignin/Bio-Based Thermoplastic Polyurethane Precursor Fibers. Co-authors: Anne Beaucamp; Maurice Collins	◆#515 · Karina Kroos (DLR - German Aerospace Center) Parameters of autoclave processes and their influence on the energy consumption Co-authors: Jens Bachmann; Steffen Opitz --- ◆#312 · Soon Ho Yoon (Korea Institute of Science and Technology) A complete design of ultra-lightweight composite structures using topology optimization and additive manufacturing Co-authors: Thuan Ho-Nguyen-Tan; Minkook Kim	#668 · Marc Gadinger (Engineering Design, Friedrich-Alexander-Universität Erlangen-Nürnberg) Deviations in laminates with local reinforcement patches: Transferable to plant fibre composites? Co-authors: Stephan Freitag; Pascal Greger; Maximilian Schäfer; Hannah Rabe; Ewald Fauster; Sandro Wartzack	#1701 · Han Zhang (University of Warwick) Smart and repeatable easy-repairing composites enabled by thermoplastic interleaves Co-authors: Thomas Thorn
15:00	#104 · Cam Abercromby (University of Bristol) The effect of fibre length tensile strength and impact performance of Tow-Based Discontinuous Composites manufactured from dry fibre preforms. Co-authors: Michael R. Wisnom; Michael O'Leary; Petar Zivkovic; Iryna Tretiak	◆#569 · Dajeong Kang (Korea Advanced Instituite of Science and Technology) Development of the two-way shape memory alloys and polymer composite smart actuator Co-authors: Kiyaranu Putra Pakartiwan; Grace X. Gu; Seong Su Kim --- ◆#1504 · Abhishek Kumar (Leonardo SpA) Towards Green Sensing in Composite Aerostructures: European Ecosystem for Green Electronics Co-authors: Federico Danzi; Muhammad Zahid; Federico Capone	#958 · Jungeun Yi (Department of Materials Science and Engineering and Research Institute of Advanced Materials (RIAM), Seoul National University) Rational Design of Continuous Thermal Networks using Novel HCN-Assisted AlN Fibers for High-Performance Thermal Management Composites Co-authors: Woong-Ryeol Yu	◆#1441 · Maria-Paraskevi Beliok (Faculty of Science and Engineering, University of Maastricht) Life Cycle Assessment (LCA) of multi-material self-healed composites with improved circularity. Co-authors: Maria-Paraskevi Belioka; Yvonne van der Meer --- ◆#438 · Helena Khoury Moussa (IPREM UMR 5254, UPPA/CNRS, Université de Pau et des Pays de l'Adour) Comparative Life Cycle Assessment of Monolayer Polypropylene Pipe and Multilayer Polypropylene Composite Pipes with Talc- or Glass-Fiber-Reinforced Middle Layer Co-authors: Georges CHALLITA; Houssem BADREDDINE; Akram ALHUSSEIN	#1033 · Mitchell Jones (University of Vienna) Mycelium-Textile Prepreg Analogues for Fungal Composites Co-authors: Maidu Silm; Qixiang Jiang; Anu Kisand; Alexander Bismarck	#1137 · Josep Costa (AMADE - University of Girona) Bridging Material- and Structural-Scale Characterization of Self-Healing Polymer Composites Co-authors: Ahmed Saleh; Daniel Sanchez-Rodriguez; Jordi Farjas; Alaitz Rekondo; Alaitz Ruiz de Luzuriaga; Pere Maimí
15:15	#390 · Christina Neeser (HEAD) The Impact of Reuse and Remanufacturing on Mechanical Properties of Alpine Skis Co-authors: Jens Hertrich; Andrea Bernasconi; Herfried Lammer; Luca Martulli		#739 · Emmanuel Lopez (Airbus, CANOE, I2M) Towards sustainable, lightweight, high-performance and cost effective carbon fibers Co-authors: Célia Mercader; Giuseppe Sciume; Jean Lachaud; Lisa Feuillerat; Caroline Petiot	◆#1609 · Egemen Erçimen (TOBB University of Economics and Technology) Sustainability-Based Design Optimization of a Cruise Missile Canister Co-authors: Erdem Acar --- #1250 · Monika Lingemann (Composites Research Group, Faculty of Engineering, University of Nottingham) Composites demanufacturing using debondable primers with expandable microspheres – a preliminary study of the debonding process Co-authors: Jean-Baptiste Desbrest; Véronique Michaud; Davide S.A. De Focatiis	#1635 · Cheng-Ying Li (National Taiwan University, Department of Chemical Engineering) Bacterial cellulose composites for the next decade: From fabrication to application Co-authors: Ying-Chih Liao	

15:30–16:00 **COFFEE BREAK**

16:00–17:00 **SESSION 15 – SHORT-ORAL RAPID SESSION · ESCM AWARDS SESSION (room A)**

Time	A–C	D	Forum	M1
Session →		**5.12 Process Modelling and Simulation** **Session chair: Frédéric Laurin (ONERA, Paris-Saclay University), Emmanuel Baranger (Université Paris-Saclay)**	**SS07 · Cryogenic Testing, Material Characterisation & Durability** **Session chair: Andrew Rhead (University of Bath), Stefanos Giannis (National Physical Laboratory)**	**T5 · Manufacturing** **Session chair: Benjamin Alcock (Sintef)**
16:00	ESCM AWARDS SESSION (16:00–17:00)	◆#902 · Lucas Sardo (Sciences Computers Consultants) Optimisation of fibre-reinforced polymer extrusion with numerical simulation and AI Co-authors: Corentin RIVAUX; Laurent RATTE	◆#795 · Suzanne Laik (CETIM) Development of quasi-static testing and characterization of CF/PEI composite under Liquid Hydrogen immersion Co-authors: Vivien André; David Clainchard; Sébastien Arnaud	◆#1514 · Julian Schuster (Fraunhofer IGCV) Fiber path optimization for highly challenging surfaces in AFP manufacturing Co-authors: Klaus Prof. Drechsler
16:07		◆#1017 · Lingxiao Yang (beihang university) Effects of Residual Stresses on the Load-Bearing Performance of Asymmetric Foam Sandwich Structures Co-authors: Xiaodong Wang; Zengshan Li; Zhidong Guan	◆#428 · Lou Narbonne (Univ Toulouse, IMT Mines Albi, INSA Toulouse, ISAE-SUPAERO, CNRS, ICA) Experimental Study of The Behavior of Composite Materials At Low Cryogenic Temperature Co-authors: Marc Nardone; Steven Marguet; Stéphane Orieux; Nicolas Laurien; Abdelaziz Zitouni; Mathieu Barragan; Claire Morel; Olivier Dorival; Laurent Bendichou; Pablo Navarro; Jean-François Ferrero	◆#659 · Ehshan Ul-haq (Delft University of Technology) Local Assessment of Electrical Behavior of Thin-Ply CFRP for Aerospace Manufacturing Co-authors: Dennis Colaianni; Oguz Eryilmaz; Clemens Dransfeld; Baris Caglar
16:14		◆#985 · Piaras Kelly (Centre for Advanced Materials Manufacturing and Design, Engineering Science and Biomedical Engineering) Implementation and modelling of vacuum-assisted through-thickness melt impregnation of thermoplastic composites Co-authors: Martin Lambrechtse-Reid; Simon Bickerton; Tom Allen	◆#918 · Maria Fernanda Betanco (Universidad Carlos III) Transverse mechanical behavior of unidirectional composites under extreme low-temperature conditions Co-authors: Maria Fernanda Betancourt Soto; Adrián Cimadevilla; José Manuel Rodriguez; Álvaro Vaz; Fernando Naya	◆#1605 · Ahmed Elsayed (NTNU) Robotic Processing of Reclaimed Timber Co-authors: Sotirios Grammatikos
16:21		◆#1808 Yingjiang Guo (Northwestern Polytechnical University) Multi-Scale Modeling of Peri-Hole Damage Evolution During Dynamic Installation of Interference Bushings in CFRP	◆#1150 · Lewis Kelly (University of Strathclyde) Effect of Humidity on the Fibre-Matrix Interface During Cryogenic Cycling Co-authors: Liu Yang; John Liggat; Ross Minty	◆#1433 · Yichen Wu (Northwestern Polytechnical University) In-situ Curing of FRP Composites via Joule Heating Using Embedded Carbon Nanotubes Co-authors: Yaqi Wang; Xudan Yao
16:28		◆#1804 Hanxing Zhao (Harbin Institute of Technology) Numerical prediction and experimental analysis of the buckling loads of smpc cylindrical shells and its application in pyrotechnics vibration attenuation	◆#1311 · Yonggun Park (National Insititute of Forest Science) Durability of Wood-Based Panels after 3 Year of Natural Weathering in Three Korean Climates Co-authors: Min Lee; Sang-Min Lee; Eun-Chang Kang	◆#1676 · Chrysoula Tzina (NTNU) Development of Quality Control Strategies for Reclaimed Timber towards Optimized Upcycling Co-authors: Christina Podara, Tatjana Kosanovic Milickovic, Costas Charitidis, Tom Svilans, Sotirios Grammatikos
16:35		◆#1805 Qinyu Li (Harbin Institute of Technology) Impact dynamics properties of woven hemp/epoxy composites		

Time	M2	M4	M5	Balder
Session →	**2.7 Hybrid and Hierarchical Composites** **Session chair: Stergios Goutianos (NTNU), Georgios Foteinidis (Luxembourg Institute of Science and Technology)**	**3.9 Fracture and Damage** **Session chair: Mohamed Loukil (Linköping University), Kamran Khan (Khalifa University)**	**5.14 Sustainable Manufacturing & 7.11** **Session chair: Julie Teuwen (Delft University of Technology), Kalliopi-Artemi Kalteremidou (Vrije Universiteit Brussel)**	**2.1 Bio-Derived and Sustainable Composites** **Session chair: Vahid Movahedi-Rad (ETHZ), Spyridon Psarras (University of Patras)**
16:00	◆#525 · Andreas Schiffer (Department of Mechanical and Nuclear Engineering, Khalifa University of Science and Technology) Toughening of additively manufactured photopolymer-derived ceramic using bioinspired nacre-like structure and epoxy infiltration Co-authors: Umer Hayat	◆#675 · Aristea Giannakopoulou (Linköping University) Thermal and Mechanical Influence of Interlaminar Defects in RTM-Manufactured Carbon Fiber-Reinforced Polymer Laminates Co-authors: Mohamed Loukil; Marie Jonsson; Sibin Saseendran	◆#582 · Christian Bülow (German Aerospace Center (DLR)) Sustainability and Cost Assessment of Structural Components for Cryogenic H2 Aircraft Tanks Co-authors: Steffen Opitz	◆#644 · Paula Bucci (FUNDACION CIDAUT) Process Platform and Sustainability from Agro-Industrial Residues to Circular High-Performance Elastomers via an Integrated Hydrothermal-Catalytic Platform Co-authors: Alberto Blanco Rodriguez; Adrián Pedrosa Valbuena; Maria Fernandez Peña; Esteban Cañibano Alvarez
16:07	◆#564 · Go Masuda (The University of Tokyo) Enhanced Damping Behaviour in CFRP Laminates Enabled by a Novel Polyurea Interleaf Concept Co-authors: Tomohiro Yokozeki	◆#172 · Adrien Sapet (Institut Clément Ader (ICA), University of Toulouse, CNRS UMR 5312, INSA, ISAE-Supaéro, IMT Mines Albi, UPS) Experimental and Numerical Analysis of the Effects of Sand Particle Erosion on 2D Carbon-Epoxy composite Co-authors: Kamel Moussaoui; Frédéric Lachaud	◆#1404 · Georgios Pappas (Department of Mechanical and Process Engineering, ETH Zurich) Sustainable, Circular, and Performing FR-PET Composites Co-authors: Oliver Vetterli; Reto Krüger; Paolo Ermanni	◆#1672 · Kamil Novotny (Chair of Materials Science and Testing of Polymers, Montanuniversität Leoben) Effect of eggshell-derived additives on curing of fully bio-based epoxy resin systems Co-authors: Michael Feuchter; Katharina Resch-Fauster
16:14	◆#1046 · Georgios Foteinidis (Luxembourg Institute of Science and Technology (LIST)) Development and Evaluation of Hybrid Sandwich Composites for Enhanced Low-Velocity Impact Resistance Co-authors: Georgios Kotsinis; Levent Kirkayak; Lucas Binsfeld	◆#307 · Thiago Vasconcellos Bi (EDF R&D) Modeling Strategies and Failure Prediction for Fiber-Reinforced Composite Structures Using Code_Aster: Current State and Future Directions Co-authors: Jules Arnaud; Samuel Geniaut; Astrid Filiot; Mickaël Abbas	◆#252 · Elise Mathouillot (Polymers Composites and Hybrids (PCH), IMT Mines Alès) Feasibility of Flax/Recycled PolyEthylene Terephthalate (PET) Thermoplastic Tapes: Manufacturing and Characterization Co-authors: Monica Francesca PUCCI; Pierre-Jacques LIOTIER	◆#510 · Joanna Rehfeldt (Dresden University of Technology, Institute of Aerospace Engineering, Chair of Aircraft Engineering) Mesoscale finite element modeling of flax fiber composites with automated material calibration Co-authors: Michael Mauersberger; Chris Fischer; Falk Hähnel; Johannes Markmiller
16:21	◆#988 · Dae Chul Ha (Department of Materials Science and Engineering and Research Institute of Advanced Materials (RIAM), Seoul National University) Tailored Interfacial Engineering of Ultra-Thin Hybrid Composites via CNT interleaving for Enhanced Structural and Functional Performance Co-authors: Hyo Seop Kang; Seoung Yoon Lee; Woong-Ryeol Yu	◆#342 · Hélène Brunet (Institut Clément Ader / CNES) Damage Modelling of Thick Composite by Non-Intrusive Global/Local Approach Co-authors: Pablo Navarro; Claire Morel; Steven Marguet; Jean-François Ferrero; Kévin Mathis; Ange Rogani	◆#295 · Shristi Ghosh (Georgia Institute of Technology) Lightweighting, recycled and renewable materials towards sustainable composites for automotive applications Co-authors: Kim Anh Pham; Andrew Geda; Angelo DiLisio; Kyriaki Kalaitzidou	◆#1459 · Alexander Delp (TU Dortmund University, Chair of Materials Test Engineering (WPT)) Mechanical capability of forming-optimized all-cellulose composite vulcanized fiber under wet and dry conditions Co-authors: Tobias Breitfeld; Cornell Wüstner; Mandy Thomas; Sven Winter; Frank Walther
16:28	◆#1155 · Tom Hill (WMG, University of Warwick) Implications of Dissimilar Resin Systems and Fibre Architectures on Mechanical Performance of Hybrid Composites Co-authors: Muhammad Khan; Neil Reynolds; Richard Groves; Hao Yuan; Andy Bools; Ton Peijs	◆#1667 · Marcus Welsh (RWTH Aachen) Multiscale statistical failure analysis of filament wound unit cells accounting for process induced variation Co-authors: Vinzent Grün; Thomas Gries	◆#225 · Anaïs Barasinski (IMT Mines Albi - ICA) Toward rheological characterisation of thermoplastic pre-impregnated UD tape, for its recycling and reuse. Co-authors: Lucas Sieger; Camilo Cruz	◆#69 · Jiayi Sun (Imperial College London) Converting wood particles into monolithic cellulose reinforced lignin composites Co-authors: Koon-Yang Lee
16:35			◆#444 · Natalie Mähling (Baden-Wuerttemberg Cooperative State University) Investigation of the Mechanical and Thermal Properties of Recycled PLA in the 3D Printing Process Co-authors: Lasse Kaiser; Nico Bendel; Johannes Pfrommer; Daniel Stehle	◆#179 · Maryam Sodagar (Institut für Textiltechnik of RWTH Aachen University) Innovative approach for converting untreated bast fibres into engineered UD tapes tailored for multi-axial non-crimp composite manufacturing. Co-authors: Kardelen Pekgöz; Thomas Gries

17:00–17:30 **CLOSING CEREMONY & AWARDS CEREMONY**