

Daily Schedule

Day 08/05/2019

Start Time: 9:10 AM

8.00-17.00 am

Registration

9.00-9.10 am

Opening Ceremony

9.15-10.00am

Keynote

ESA, Boeing, Volkswagen, Leonardo, Airbus (to be confirmed)

Time	Delamination	NDT & E of Composites	Composite Manufacturing	Extreme Dynamic Loading
10:00 AM	Characterization of CFRP mode I and mode II cohesive element parameters for 0//0 and +45// -45 interfaces , Delphine Carrella-Payan, Benoit Magneville, Siemens PLM Software, Tadashi Naito, Honda R&D Co Ltd, Ryoma Aoki, Tomohiro Yokozeki, University of Tokyo, Lode Daelemans, Wim Van Paepegem, Ghent University, Michael Hack, Siemens PLM Software,	Implications Of Finite Sized Transducers On The Determination Of The Viscoelastic Tensor Of Composite Plates With The Ultrasonic Polar Scan , Arvid Martens, KULeuven Kulak, Jannes Daemen, KULeuven Kulak, Steven Delrue, KULeuven Kulak, Mathias Kersemans, Ghent University, Erik Verboven, Ghent University, Wim Van Paepegem, Ghent University, Koen Van Den Abeele, KULeuven KULAK, Belgium	Radical induced cationic frontal polymerization for reinforced epoxy composites , Anh Dung Tran, Patrick Knaack, Nicolas Kilkovits, Robert Liska, Technische Universität Wien, Austria	Multi-scale finite element modelling of unidirectional composites under impact , Philippe Martiny, Laurent Adam, e-Xstream engineering, Belgium
10:20 AM	Experimental Study Of The Effects Of Layers Orientation On Mode I Interlaminar Fracture Toughness Using Fully Uncoupled Multidirectional Specimens , Torquato Garulli, University of Bordeaux, France, Daniele Fanterla, University of Pisa, Anita Catapano, Julien Jumel, University of Bordeaux, France	Experimental Investigation on the Performance of Fibre-Reinforced Composites as Substrates for the Propagation of Electromagnetic Surface Waves , Dimitrios Fakis, Brunel University / National Structural Integrity Research Centre, Mihalis Kazilas, Brunel University / TWI Ltd, Chris Worrall, TWI Ltd	Processing And Dynamical Characterization Of An Epoxy Foam For Aeronautical Sandwich Panels Core , Raffaele D'Elia, IRT Saint-Exupéry, Michel Bouquet, IRT Saint-Exupéry, Leonardo Sanches, Guilhem Michon, ISAE-SUPAERO, France	Development of an innovative material model calibration procedure for enhancement of numerical solution fidelity focusing in composite material behavior to impact loading , Efthimos Giannaros, Athanasios Kotzakolios, Vassilis Kostopoulos, Applied Mechanics & Vibrations Laboratory, University of Patras, Greece
10:40 AM	A physically based 3D constitutive law for kink band initiation and crushing accounting for fiber bending failure and neighboring delamination , Vlad-Tarcius Mateescu, Boyang Chen, Delft University of Technology,	Monitoring Of Type 4 Composite Pressure Vessels With Multilayer Fully Integrated Optical Fibre Based Distributed Strain Sensing , Dorit Munzke, René Eisermann, Eric Duffner, Marcus Schukar, André Schoppa, Mariusz Szczepaniak, Bundesanstalt für Materialforschung und -prüfung, Jörg Strohhäcker, Hexagon xperion GmbH, Georg Mair, Bundesanstalt für Materialforschung und -prüfung, Germany	Using Piezoresistive Pressure Sensors For Resin Flow Monitoring In Wind Turbine Blades , Adli Dimassi, Faserinstitut Bremen e.V., Minerva Gleason, Friedrich-Wilhelm-Bessel-Institut Forschungsgesellschaft mbH, Martina Hübner, University of Bremen, Axel Herrmann, Faserinstitut Bremen e.V., Walter Lang, University of Bremen , Germany	Response of carbon fibre reinforced polymers to high velocity impact , Rade Vignjevic, Nenad Djordjevic, Tom De Vuyst, Brunel University London, Gareth Appleby-Thomat, Cranfield University, Agata Wasilczuk, Brunel University London, Michele Meo, Bath University, David Wood, Cranfield University, United Kingdom

11:00 AM

Coffee Break

Impact and Dynamic Response	Graphene	Mechanics of Composites	Numerical Simulation
The Influence Of Temperature On The Low-Velocity Impact Response Of Polyamide 6/Basalt Plain Fabric Laminates , Pietro Russo, Iliaria Papa, Unina, Giorgio Simeoli, MariaRosaria Ricciardi, National Research of Council, Antonio Langella, Unina, Andrea Calzolari, ITW Test and Measurement, Valentina Lopresto, Unina,	High rhodamine b and methyl orange removal performance of graphene oxide/carbon nanotube hybrid nanocomposites , Chenxi Hu, David Grant, Xianghui Hou, Fang Xu, University of Nottingham, United Kingdom	An Experimental/Numerical Study On The Mechanical Behaviour Of Composites Under Asymmetrical Bending Loading Conditions , Valerio Acanfora, Andrea Sellitto, Salvatore Saputo, Angela Russo, University of Campania "Luigi Vanvitelli", Francesco Di Caprio, CIRA - Italian Aerospace Research Centre, via Maiorise snc, 81043, Capua, CE	Numerical Predictions Of The Cure-Induced Deformations Of Composite Parts Manufactured Using Closed Mould Processes , Antoine Parmentier, David Dumas, Cenero ASBL, Belgium
Crashworthiness Of A General Aviation Fuselage Section: 3d Fem Numerical Modelling And Validation , Aniello Riccio, Salvatore Saputo, Andrea Sellitto, University of Campania "Luigi Vanvitelli"	Graphene/epoxy resins: rheological behavior and morphological analysis by atomic force microscopy (afm) , Maria Rossella Nobile, Liberata Guadagno, Carlo Naddeo, Marialuigia Raimondo, University of Salerno, Italy	Investigation of adhesion properties in load coupling applications for flexible composites , Julia Beter, Bernd Schrittmesser, Peter Fuchs, Polymer Competence Center Leoben GmbH	Process Simulation Of Sheet Molding Compound (Smc) Using A Direct Bundle Simulation , Nils Meyer, Ludwig Schöttli, Lucas Bretz, Karlsruhe Institute of Technology, Andrew Hrymak, Western University, Luise Kärger, Karlsruhe Institute of Technology, Germany
Impact Response Of A Manicaria Saccifera Fabric-Reinforced Pla Composite , Juan Sebastian Sopo, Alejandro Maranon, Alicia Porras, Universidad de los Andes, Camilo Hernandez, Escuela Colombiana de Ingenieria Julio Garavito	The taxonomy of graphite nanoplatelets in nanocomposites and its effect on mechanical properties , Robert Young, Zheling Li, University of Manchester, United Kingdom,	Postbuckling optimisation of a variable angle tow composite wingbox , Francesco S. Liguori, Università della Calabria, Giovanni Zucco, University of Limerick, Antonio Madeo, Università della Calabria, Domenico Maglisano, Leonardo Leonetti, Giovanni Garcea, Università della Calabria, Paul M. Weaver, University of Limerick	A Multi-Layer Finite Shell Element based on the Generalized Unified Formulation for the Analysis of Hybrid Carbon Fiber Elastomer Metal Laminates , Alexander Jackstadt, Karlsruhe Institute of Technology (KIT), Wilfried V. Liebig, Karlsruhe Institute of Technology (KIT), Luise Kärger, Karlsruhe Institute of Technology (KIT)
Experimental Modal Analysis And Vibro-Acoustic Testing At Leonardo Laboratories , Antonio Palumbo, Università Degli Studi Di Napoli Federico II, Biagio De Maio, Leonardo Finmeccanica, Francesco Marulo, Università Degli Studi Di Napoli Federico II, Italy	Multifunctional reduced graphene oxide coating in laminated composites , Mario Rapisarda, Michele Meo, University of Bath, United Kingdom	Comparison of stiffness evaluation for fiber reinforced isolators according to analytical and numerical modeling , Daniele Losanno, University of Naples Federico II, Ingrid E. Madera Sierra, Pontificia Universidad Javeriana Cali, Andrea Calabrese, Johanno Marulanda, Peter Thomson, Universidad del Valle, Colombia	Simulation of carbon fibre composites in an industrial microwave , Betime Nuhiji, Timothy Swait, Matthew Bower, Vaibhav Phadnis, University of Sheffield Advanced Manufacturing Research Centre, James Green, University of Sheffield, Richard Day, Glyndwr University, Richard Scaife, University of Sheffield Advanced Manufacturing Research Centre, UK

12:50 PM

Lunch Break

2:15 PM					Keynote					ESA, Boeing, Volkswagen, Leonardo, Airbus (to be confirmed)																			
					Extreme Dynamic Loading					3D Printing of Composites					Thermoplastics					Damage, Fatigue and Fracture									
3:00 PM					<p>Impact loaded cfrp aerospace structures with embedded sensors and actuators – design, manufacturing and testing, Andreas Hornig, Sandro Nitschke, Nils Modler, Malk Gude, Institute of Lightweight Engineering and Polymer Technology (ILK), TU Dresden, Germany</p>					<p>3d/4d Printing Of Short And Continuous Flax Fibre Reinforced Polyurethane Composites, antoine le duigou, IRDL Université de Bretagne Sud, antoine barbé, yves marie corre, Compositic Université de Bretagne Sud, mickael castro, IRDL Université de Bretagne Sud</p>					<p>Evaluation of induction and infrared welded CFRP thermoplastic specimens, Craig Atkins, Matthew Bower, Clara Frias, Betime Nuhji, Richard Scaife, University of Sheffield Advanced Manufacturing Research Centre</p>					<p>Time-Dependent Failure Of Unidirectional, Off-Axis Glass/Ipp Composites, Ozan Erartsin, Martin van Drongelen, Leon E. Govaert, University of Twente</p>									
3:20 PM					<p>Comparison between the mechanical behavior of woven basalt and glass epoxy composites at high strain rates, Ahmed Elmahdy, Patricia Verleysen, Ghent University, Belgium</p>					<p>Improved Thermal Conductivity of Thermoplastic Polyurethane via Aligned Boron Nitride Platelets Assisted by 3D Printing, Zhong Zhang, National Center for Nanoscience and Technology, China</p>					<p>Development of functionally graded materials from thermoplastic elastomers waste, João Bessa, Juliana Ramião, Fernando Cunha, Universidade do Minho, Fernando Merino, Hélder Oliveira, ERT Têxtil de Portugal, Rui Amorim, ERT Têxtil de Portugal, Raul Fangueiro, University of Minho</p>					<p>Numerical-Experimental Investigation On The Tensile Behaviour Of A Hybrid Metallic-Cfrp Stiffened Aeronautical Panel, Andrea Sellitto, Salvatore Saputo, Angela Russo, University of Campania "Luigi Vanvitelli", Francesco Acerra, Leonardo, Salvatore Russo, Leonardo</p>									
3:40 PM					<p>High-speed multiplexed fiber optic sensing for extreme dynamic loading events, Jonas Mertes, Michael Haverdings, Rolf Evenblij, Technobis tr-fos, Netherlands</p>					<p>Design, manufacture and testing of 3D printed continuous fibre reinforced composite lug structures, Peng Zhuo, Shuguang Li, Ian Ashcroft, Arthur Jones, Xianghui Hou, University of Nottingham, UK</p>					<p>Experimental study of Thermoplastic-RTM process using ε-caprolactam for the carbon fiber reinforced nylon 6 composite fabrication, Jung Woo Lee, Korea Institute of Science and Technology (KIST), Jun Woo Lim, Chonbuk National University, Minkook Kim, Korea Institute of Science and Technology (KIST)</p>					<p>Growth Of Interface Cracks On Consecutive Fibers: On The Same Or On The Opposite Sides?, Luca Di Stasio, Janis Varna, Luleå University of Technology, Zoubir Ayadi, Université de Lorraine</p>									
4:00 PM																				Coffee Break									
					Application of Composites					Impact and Dynamic Response					Multiscale Modelling					Extreme Dynamic Loading									
4:30 PM					<p>Experimental study on shear connection system for FRP-concrete hybrid bridge girders, Tomasz Siwowski, Mateusz Rajchel, Rzeszow University of Technology, Poland</p>					<p>Impact Characterisation Of Basalt/Epoxy Composites At Low Temperatures, Iliaria Papa, Unina, MariaRosaria Ricciardi, National Research of Council, Antonio Langella, Unina, Vincenza Antonucci, National Research of Council, Valentina Lopresto, Unina</p>					<p>On micromechanics approach to mechanical properties of Composites, Zheng-Ming Huang, Tongji University, China</p>					<p>LS-dyna assessment of composite fan sub-components designed within extreme, Leonardo Lupelli, Giuseppe Zumpano, Vasileios Karkasinas, Rolls Royce, United Kingdom</p>									
4:50 PM					<p>Design And Prototyping Of A Novel Composite Architecture For A Widebody Landing Gear Bay, Pietro Cerreta, Protom Group S.p.A, Massimo Viscardi, Maurizio Arena, University of Naples "Federico II, Paola Iaccarino, LAER S.p.A</p>					<p>Experimental and Simulation Studies on the Crashworthiness of Carbon Fiber Composite Flat Specimens, Iman Babaei, Politecnico di Torino, Ravin Garg, Centro Ricerche Fiat, Giovanni Bellingardi, Davide Salvatore Paolino, Politecnico di Torino, Lucio Cascone, Centro Ricerche Fiat, Giuseppe Galizia, Andrea Calzolari, Instron, Ranieri Lupicini, Centro Ricerche Fiat</p>					<p>Injection Molding Simulation with Fiber Length Dependent Flow Modeling, Florian Wittemann, Luise Kärger, Frank Henning, Karlsruhe Institute of Technology (KIT), Germany</p>					<p>The effect of an aromatic hyperbranched polyester in aeronautical epoxy composites, Simona Zuppolini, Aldobenedetto Zotti, Anna Borriello, Mauro Zarrelli, National Research Council of Italy, Italy</p>									
5:10 PM					<p>Multimaterial Offshore Wind Turbine Structures With High Corrosion And Mechanical Requirements, Laura Mera, Sara Dasilva, Tania Grandal, Ruben De la Mano, Elena Rodriguez, AIMEN</p>					<p>Experimental Investigation of Quasi-Static and Impact Loading on Auxetic Structures, Milad Najafi, Hamed Ahmadi, Gholamhossein Liaghat, Tarbiat Modares University, Iran</p>					<p>Global/Local Finite Element Analyses Supporting The Design Of A Ceramic Matrix Composite Wing Leading Edge Of A Re-Entry Vehicle, Michele Ferraiuolo, CIRA, Concetta Palumbo, Andrea Sellitto, Aniello Riccio, University of Campania "Luigi Vanvitelli", Italy</p>					<p>Machine learning for impact detection on composite structures, Stefano Cuomo, Michele Meo, University of Bath, United Kingdom</p>									
8:00 PM																				Wine and Cheese Party									

Daily Schedule

Day 09/05/2019

Start Time: 9:15 AM

9:15 AM **Keynote** ESA, Boeing, Volkswagen, Leonardo, Airbus (to be confirmed)

Time	Extreme Dynamic Loading	Composites in Space	Blast and Ballistic	Damage, Fatigue and Fracture
10:00 AM	High Velocity impact response on advanced composite structures , Francesco Rizzo, Fulvio Pinto, Michele Meo, University of Bath, United Kingdom.	Smart Composite Detector of Orbital Debris and Micrometeoroids Particles , Mario Emanuele De Simone, University of Bath, Christos Andreades, University of Bath, Michele Meo, University of Bath, Francesco Ciampa, University of Surrey	The Effect Of Post-Weld Hot-Rolling On The Microstructure Of Explosively Welded Mg/Al/Ti Multilayer Composite , Marcin Wachowski, Robert Kosturek, Lucjan Śnieżek, Military University of Technology, Sebastian Mróz, Czestochowa University of Technology, Poland	The Mapping Of Damage Behaviour In A Unidirectional Composite Subjected To Uniaxial Loading Using Digital Volume Correlation , Erich Schöberl, Mark Noel Mavrogordato, Ian Sinclair, Simon Mark Spearing, University of Southampton, UK
10:20 AM	Effect of SiO₂@polydopamine core/shell nanoparticles as multifunctional filler for an aeronautical epoxy resin , Aldobenedetto Zotti, Simona Zuppolini, Anna Borriello, Mauro Zarrelli, Institute for Polymers, Composites and Biomaterials, National Research Council of Italy, Italy,	Development of active composite dish surface for radio astronomy application , Mohammad Islam, National research council, Alzaib Karovalia, Simon Fraser University, Gordon Lacy, National research council, Canada	Ballistic Impact On Blocks Of Gelatine Covered With Composite Ballistic Protection , Lionel Gilson, Luc Rabet, Royal military academy, Abdellatif Imad, Université de Lille, Frederik Coghe, Royal military academy, France	Thin Veils Strategically Interleaved To Reduce Low Velocity Impact Damages On Cfrp , Luís Amorim, Ana Santos, João Nunes, Júlio Viana, University of Minho, Portugal
10:40 AM	Extreme shearography: high-speed shearography for measurement of impact strains on composites: Development, testing and validation , Andrei Anisimov, Delft University of Technology, Netherlands, Erhimis Giannaros, Athanasios Kotzakolios, Vassilis Kostopoulos, University of Patras, Greece, Roger Groves, Delft University of Technology, Netherlands,	Composite Grid Structure Technology For Space Applications , Giovangiuseppe Giusto, Giovanni Totaro, Paola Spena, Felice De Nicola, CIRA, Antonio Zallo, Avio SpA, Stefan Kiryenko, Shumit Das, ESA-ESTEC, Stefan Mespoulet, ESA- ESRIN,	Simulation Of Composites Naval Plates Submitted To Gel Projectiles Impacts , Jean-Christophe Petiteau, Alexandre Favry, MECA, Nantes, Lucas Márquez, Institut Catholique d'Arts et Métiers (ICAM), Nantes, Hervé Le Sourme, Ecole Centrale de Nantes, Samuel Durand, MECA	Lifetime prediction and residual performances after fatigue of 3D woven composites , Myriam Kaminski, ONERA - Université Paris Saclay, Frédéric Laurin, ONERA - Université Paris Saclay, Lise Angrand, Safran Aircraft Engines, Rodrigue Desmorat, LMT Cachan

11:00 AM

Coffee Break

NDT & E of Composites

Mechanics of Composites

Repair and Self-Healing

Joining of Composites

11:30 AM	Method for tracking and clustering of fiber bundles within volumetric images , Ludwig Schöttl, Karlsruhe Institute of Technology (KIT), Kaan Inal, University of Waterloo, Kay-André Weidenmann, Peter Elsner, Karlsruhe Institute of Technology (KIT)	A Comparative Study of FEM Constitutive Material Model Laws For Simulation of Low Velocity Impact Damage to Composite Plates , Anthony Rossi, Zouheir Fawaz, Kazem Fayazbakhsh, Ryerson University	Automated laser-based bonded repairs of aeronautic composites , Theodoros Loutas, George Sotiriadis, Spyros Psarras, Vassilis Kostopoulos, University of Patras	Thermally Assisted Piercing; Manufacture and Properties of Multiply-Pierced Composite , Faranak Bahrami, TWI/ University of Surrey, Chris Worrall, TWI, Stephen L. Ogin, University of Surrey
11:50 AM	The use of low power high frequency based techniques: characterization of electromagnetic properties of fibre-reinforced polymer composites , Daniela Munalli, Dimitrios Chronopoulos, Georgios Dimitrakis, Steve Greedy, The University of Nottingham	Investigation of interlaminar crack onset in composite laminates using finite fracture mechanics: a scaled boundary finite element approach , Sebastian Dölling, Julian Felger, Jonathan Hahn, Sophia Bremm, Wilfried Becker, TU Darmstadt, Germany	The susceptibility of thermoset composites to surface damage, and related brittle failure , Zoltan J Gombos, Luke Savage, University of Exeter, UK	Numerical Failure Prediction Of Gfrp/Stainless Steel Hybrid Laminate Bolted Joints , Christian Gerendt, Aamir Dean, Institute of Structural Analysis (ISD), Raimund Rolfes, Institute of Structural Analysis
12:10 PM	Guided wave imaging of a composite plate using passive acquisitions by Fiber Bragg gratings , Tom Druet, Arnaud Recoquillay, Simon Nehr, Margaux Horpin, Olivier Mesnil, Bastien Chapuis, Guillaume Laffont, CEA List, Oscar D'Almeida, SAFRAN Tech,	Fibre Bridging Toughening Effect In Composite Specimens With Embedded Delamination , Angela Russo, Andrea Sellitto, University of Campania, Mauro Zarrelli, IPCB, CNR - National Research Council of Italy, NA, Aniello Riccio, University of Campania "Luigi Vanvitelli"	Experimental investigation on fatigue behavior of patch repaired carbon/epoxy laminates , Gursahib Singh Bhatia, Arockiarajan A., Indian Institute Of Technology Madras,	Influence of the arrangement of mechanical fasteners on static strength and fatigue life of hybrid connections , Andrzej Komorek, Polish Air Force University, Deblin, Poland, Marek Roskowitz, Military University of Technology, Poland, Jarosław Gasior, Military Center for Standardization, Poland
12:30 PM	Non-Destructive Method for Evaluation of the In Plane Elastic Modulus of Composite Materials , Gian Piero Malfense Fierro, Michele Meo, University of Bath,	Comparison of radome sandwich composite structures with finite element method , Buse Özdemir, Gazi University, Elmas Salamci, Gazi University, Mustafa Kuloğlu	Mode I Fracture Toughness Of Asymmetric Metal-Composite Adhesive Joints , Theodoros Loutas, Panayiotis Tsokanas, Vassilis Kostopoulos, University of Patras	

12:50 PM

Lunch Break

2:15 PM					Keynote					ESA, Boeing, Volkswagen, Leonardo, Airbus (to be confirmed)														
					Multiscale Modelling					Automotive					Self-Healing					Composite Manufacturing				
3:00 PM					<p>Multi-Hierarchical Fem Simulations Of A Fabric Laminated Structure Taking Into Account Anisotropic Plasticity And Damage, Jan Kaul, Robert Duy, Heinz Pettermann, Institute of Lightweight Design and Structural Biomechanics, TU Wien</p>					<p>Characterization Of Carbon/Glass Hybrid Unidirectional Thermoplastic Composite, Andreas Maier, BMW Group, Lothar Kroll, Technische Universität Chemnitz</p>					<p>Functional Structural Nanocomposites With Integrated Self-Healing Ability, Elisa Calabrese, Liberata Guadagno, Luigi Vertuccio, Carlo Naddeo, Giuseppina Barra, Mariialuigia Raimondo, University of Salerno, Italy, Andrea Sorrentino, IPCB-CNR, Italy, Wolfgang H. Binder, Philipp Michael, Sravendra Rana, Martin Luther University, Germany</p>					<p>Study of the consolidation phenomena in vacuum-bag-only manufacturing of carbon/PEKK laminates, Florence Saffar, Onera/IMT Lille Douai, Pierre Beauchêne, Onera, Camille Sonnenfeld, Onera, Chung-Hae Park, IMT Lille Douai</p>				
3:20 PM					<p>A Multiscale Finite Element Analysis Of Fibre Reinforced Plastics For Industrial Applications, Felice Rubino, University of Derby, Maria Rosaria Ricciardi, National Research Council, Luigi Sanguigno, University of Derby, Vincenza Antonucci, National Research Council, Fabrizio Sarasini, Sapienza University of Rome, Angelo Maligno, University of Derby,</p>					<p>Contribution to mechanical fasteners for composite structures - an automated industrial approach, Oğuzhan Eroğlu, Julius Langeheinecke, Norbert Prof. Dr. Enzinger, Graz University of Technology, Fabian Dr. Fischer, BMW AG</p>					<p>Effect of matrix modification using cellulose nanofibers on strength recovery in self-healing carbon fiber/epoxy laminates, Kento Matsuzawa, Yasuka Nassho, Kazuya Nagata, Toyama Prefectural University</p>					<p>Co-Curing Of Thermoset Composites On Metal Structures With Reduced Cycle Times For High-Volume Car Applications, Robert Thomas, Volkswagen AG, Sören Handtke, Volkswagen AG, Simon Wehler, Volkswagen.de, Fabian Fischer, Volkswagen AG, Germany</p>				
3:40 PM					<p>Micromechanics Based On A Finite Element Approach For Sic-Ti Metal Matrix Composite Constitutive Modelling, Luigi Sanguigno, Felice Rubino, University of Derby, Marcello Lepore, University of Salerno, Angelo Maligno, University of Derby</p>					<p>Cellulose Fiber Based Composites For Automotive Applications, Sofia Lanzillo, Alfonso Molaro, Angelo Covino, Beniamino Villacci, Sapa Group Spa, Raffaele Sansone, Domenico Borrelli, Sophia High Tech Srl, Paolo Sorrentino, Centro Ricerche Fiat, Domenico Fondacaro, Centro Ricerche Fiat, Vincenzo Cantelli, FCA Group, Anita Fiorentino, FCA Group,</p>					<p>Soy protein hydrolysate grafted oxidized cellulose nanocomposites with bioactive calcium phosphates for bone repair and regeneration, Ahmed Salama, National Research Center, El-Tahrir Street, Dokki, Cairo, Egypt, Ragab E. Abou-Zeid, National Research Center, El-Tahrir Street, Dokki, Cairo, Egypt, Iriczalli Cruz Maya, National Research Council of Italy, Vincenzo Guarino, National Research Council of Italy</p>					<p>Development and Manufacturing of Carbon Fiber Reinforced Prepregs and their Composites Containing Carbon Nanotubes, Yusuf Can Uz, Osman Kartav, Metin Tanoğlu, Izmir Institute of Technology, Turkey</p>				
4:00 PM					Coffee Break																			
					SHM					Mechanics of Composites					Damage, Fatigue and Fracture					Textile Composites				
4:30 PM					<p>A Comparison Of Signal Processing Techniques For Impedance-Based Damage Characterization In Carbon Fibers Under Noisy Inspections, Bruno Albuquerque de Castro, Fabricio Guimarães Baptista, São Paulo State University - UNESP, Francesco Ciampa, University of Surrey</p>					<p>Stress Relaxation In Asymmetric Bistable Composites: Experiments And Simulations, Francesco Nicassio, Gennaro Scarselli, Alfonso Maffezzoli, University of Salento, Italy</p>					<p>Development of interphase engineering techniques for the ductility improvement in CF/EP composites, Gábor Szebényi, Viktor Hliva, Balázs Magyar, Budapest University of Technology and Economics, Hungary</p>					<p>Meso-scale finite element simulation of the braiding process, Oscar Bareiro, Aachen University, Ruben Czichos, Universität Stuttgart, Anthony Pickett, Universität Stuttgart, Peter Middendorf, Universität Stuttgart, Thomas Gries, Aachen University</p>				
4:50 PM					<p>Optimised Ultrasonic Techniques For Nd Thermographic Aided Control Of Cfrp Aeronautical Elements, Francesco Willem Panella, Vito Dattoma, Alessandra Pirinu, Andrea Saponaro, University of Salento</p>					<p>Big data management to guarantee the traceability of material characterization process, Michela Giugliano Auricchio, e-xstream engineering, Daniele Gambardella, Richard Resseguie, MSC Software</p>					<p>Determination Of The Fracture Toughness And The Critical Interface Of Historically Based Multilayer Composite By Double Cantilever Beam Test On Wood, Cécilia Gauvin, University of Glasgow, Joseph Wood, Ambrose Taylor, Imperial College London, Christina Young, University of Glasgow, Maria Charalambides, Daniel Balint, Imperial College London,</p>					<p>Meso-Scale Modeling Of Damage In Woven Composite Materials: From Experimental Characterization To Numerical Analysis, Christian Fagiano, Guillaume Fourrier, Vincent Chiaruttini, Martin Hirsekorn, ONERA, France</p>				
5:10 PM					<p>Development and Focusing Enhancement of nonlinear air-coupled acoustic technique for damage characterisation in materials, Marco Boccaccio, Michele Meo, Gian Piero Malfense Fierro, University of Bath</p>					<p>Mechanical And Thermal Behaviour Of Phbv Composites Reinforced By Natural Fillers, Karolina Mazur, Stanislaw Kuciel, Cracow University of Technology, Poland</p>					<p>Statistical Analysis Of Fatigue Test In Jute Reinforced Polyester Composites Using Weibull Distribution, Djamel Djeghader, Jijel University, Bachir Redjel, Annaba University,</p>					<p>Development of Sensor Integrated Braiding Rings for the Automated Detection of Braiding Defects, Stephan Maidl, Alvaro Fernandez Villalba, Kalle Kind, Klaus Drechsler, Technical University of Munich</p>				
5:30 PM					Poster Session																			
8:00 PM					Gala Dinner																			

Daily Schedule

Day 10/05/2019

Start Time: 9:15 AM

Time

9:15 AM Keynote ESA, Boeing, Volkswagen, Leonardo, Airbus (to be confirmed)

10:00 AM Keynote ESA, Boeing, Volkswagen, Leonardo, Airbus (to be confirmed)

10:45 AM Coffee Break

Mechanics of Composites

Green Composites

Nanocomposites

Hybrid Composites

11:20 AM

Advanced Thermal Protection System Materials Development for Space Exploration Applications, Steven Violette, Fiber Materials Inc., Taylor Franklin, Fiber Materials Inc.,

Influence of hygroscopic stresses on natural fibre/epoxy interfacial properties, Samuel Réquillé, Antoine Le Duigou, Alain Bourmaud, Christophe Baley, Université Bretagne Sud

Study of the Distribution of Rubber Particles in Ground Tire Rubber/Polypropylene Blends, Alberto Basso, Yang Zhang, Technical University of Denmark

A Novel Manufacturing Concept To Reduce The Thermally Induced Internal Stresses In Cfrp-Metal-Hybrid-Structures, Zheng Wang, Thomas Trüster, Paderborn University, Germany

11:40 AM

Flexural strength of carbon fibre composites after impact with and without interfacial non-woven Short Aramid Fibre toughening, Bingyan Yuan, Yunsen Hu, Xiaozhi Hu, The University of Western Australia

Influence of a marine natural fibre treatments on biocomposites macro- and nanomechanical properties, Lénaik BELEC, Armand FAHS, Elhadj Yacoub MAHAMAT SALEH, Sophie BERLIOZ, Jean-François CHAILAN, University of Toulon - MAPIEM, France

Green clean-up technologies based on functional humic-based materials, Kamila Kydraljeva, Moscow Aviation Institute, Gulzhian Dzhardimalieva, Institute of Problems of Chemical Physics, Vera Terekhova, Alexander Yaroslavov, Lomonosov Moscow State University, Lev Rabinisky, Moscow Aviation Institute, Russia

Microstructure and mechanical properties of Al2O3-Ni-Cu hybrid composites fabricated by slip casting, Justna Zygmuntowicz, Marcin Wachowski, Military University of Technology, Aleksandra Miazga, Paulina Piotrkiewicz, Waldemara Kaszuwara, Warsaw University of Technology, Poland

12:00 PM

Wind Turbine One Shot Blade@: Design and Verification, Angela Russo, University of Campania "Luigi Vanvitelli", Michele Damiano, Cartflow, Andrea Sellitto, Enrico Vecchio, Tommaso Stellato, Aniello Riccio, University of Campania "Luigi Vanvitelli", Italy

Morphology and Characterisation of Novolac/LDPE Based Mixtures as Matrix for Injection Moulded Green Bodies for Bio-Based SIC Ceramics, Matthias Mihalic, Soares de Sousa Fernanda, Burzic Ivana, Fürst Christian, Wood K plus, Hinterreiter Andreas, Stifter David, Johannes Kepler University Linz, Austria

Metallopolymer hybrid nanocomposites: preparation and properties, Gulzhian Dzhardimalieva, Vitaly Shershnev, Lyudmila Bogdanova, Nina Golubeva, Institute of Problems of Chemical Physics Russian Academy of Sciences, Kamila Kydraljeva, Moscow aviation institute, Igor Uflyand, South Federal University, Mauro Zarelli, Institute of Polymers, Composites and Biomaterials CNR, Italy

On The Mechanical Behaviour Of Hybrid Composite Samples Subjected To Low Velocity Impact And Compression After Impact Loading Conditions, Salvatore Saputo, Angela Russo, Valerio Acanfora, University of Campania "Luigi Vanvitelli", Mauro Zarrelli, IPCB, CNR - National Research Council of Italy, Aniello Riccio, University of Campania "Luigi Vanvitelli", Italy

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On Modelling Behaviour of Carbon Fibre Reinforced Polymers under High Velocity Impact, Rade Vignjevic, N. Djordjevic, T. De Vuyst, Brunel University, G. Appleby-Thomas, Cranfield University, A. Wasilczuk, Brunel University, Michele Meo University of Bath, D. Wood, Cranfield University, United Kingdom

Development and characterization of innovative carbon-based ashes/epoxy composites, Enrica Stasi, Antonella Giuri, Italy, Maurizio La Villetta, Domenico Cirillo, C.M.D. Costruzioni Motori Diesel S.p.A., Gaetano Guerra, Università di Salerno, Alfonso Maffezzoli, Università del Salento, Eleonora Ferraris, KU Leuven, Carola Esposito Corcione, Università del Salento, Italy,

Nanocomposites With Polymeric Matrix Of Polyurethane / Particulate Material, Fabio Esper, University of Saint Paul USP, Brasil

Design approach and finite element analysis of a hybrid composite material cleat as nautical spar, Larissa Minillo, Bruno Cardoso, Altibano Ortenzi, Londrina State University, Brasil

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Plate Impact Tests Characterisation of Carbon Fibre Reinforced Polymers for High Velocity Impact, N. Djordjevic, Rade Vignjevic, T. De Vuyst, Brunel University, G. Appleby-Thomas, Cranfield University, A. Wasilczuk, Brunel University, Michele Meo University of Bath, D. Wood, Cranfield University United Kingdom

Grass fibers and castor oil composites: applications in Product Design, Kauhana Christine Silva, Elaine Azevedo, Ugo Leandro Belini, UTFPR, Brasil

Novel ferroics-porous glass based nanocomposites, Agnieszka Cizman, Wrocław University of Science and Technology, Ewa Rysiakiewicz-Pasek, Wrocław University of Science and Technology, Tatiana Antropova, Russian Academy of Science

Design and characterisation of hybrid hemp/carbon laminates with improved impact resistance, Dario De Fazio, Unina, Stefano Cuomo, University of Bath, Luca Boccardo, Unina, Fulvio Pinto, University of Bath, Massimo Durante, Unina, Michele Meo, University of Bath, UK

1:00 PM

Lunch Break

Mechanics of Composites		Recycling	SHM	Multifunctional
2:00 PM	Water Aging Impact On The Properties Of Glass Fibers Reinforced Composite , Abir Abdessalem, Ecole Nationale Supérieure d'Arts et Métiers,	Modeling Of Damage And Viscoelasticity Of Recycled Carbon Fiber Reinforced Bulk Molding Compound , Oleg Saburov, Karlsruhe Institute for Technologie (KIT) Institut for Vehicle System Technology (FAST) Chair of Lightweight Technology, Frank Henning, Karlsruhe Institute for Technologie (KIT) Institut for Vehicle System Technology (FAST) Chair of Lightweight Technology,	Natural Rubber Based Nanocomposite 2d Strain Sensors And Measurement Of Cyclical Sensing Behaviours , Hasan KASIM, Pega Automotive Susp. Ind. Co. Inc., Murat YAZICI, Uludag University,	Epoxy based hybrid nanocomposites: Fracture mechanisms, tensile properties and electrical properties . Ankur Bajpai, Bordeaux INP, Univ. of Bordeaux, CNRS, Roberto Jose Garcia Martin, University of Salamanca, Hugo Faria, University of Aveiro, Stephane Carlotti, Univ. of Bordeaux,
2:20 PM	PALS and nanoindentation as complementary methods for investigating cellulose derivatives (esters and carbamates) , Galina Zamfirova, Valentin Gaydarov, Transport University " T. Kableshkov", Nikolay Djourelou, Horia Hulubei National Institute for Physics and Nuclear Engineering, Magurele, Jun Zhang, Jinming Zhang, Chinese Academy of Sciences (CAS), China	Resizing Of Thermally Recycled Glass Fibres , Vsevolod Matrenichev, Tampere University, Sarianna Palola, Tampere University, Pekka Laurikainen, Tampere University, Sonia Garcia-Arrieta, Tecnalia, Cristina Elizetxea, Tecnalia, Essi Sarlin, Tampere University, Finland	Active And Passive Shm For Composite Pipes Using Piezoelectric Sensors , Stefano Carrino, Gennaro Scarselli, Alfonso Maffezzoli, University of Salento, Italy	Damping Assessment Of New Multifunctional Epoxy Resin For Aerospace Structures , Maurizio Arena, University of Naples "Federico II, Luigi Vertuccio, Giuseppina Barra, University of Salerno, Massimo Viscardi, University of Naples "Federico II, Liberata Guadagno, University of Salerno
2:40 PM	Multiscale Determination Of Water-Swelling Coefficients Of Flax /Epoxy Composites And Flax Yarns , Marwa ABIDA, Florian GEHRING, Université de Caen, Jamel MARS, LASEM, ENI Sfax, Alexandre VIVET, Université de Caen , Alençon, Fakhreddine DAMMAK, LASEM, ENI Sfax, Mohamed HADDAR, LA2MP, ENI Sfax, France	Natural Fibers Reinforced Inorganic Foam Composites From Short Hemp Bast Fibers Obtained By Mechanical Decortation Of Unretted Stems From The Wastes Of Hemp Cultivations , Gianluca Viscusi, Giuseppina Barra, University of Salerno, Letizia Verdolotti, (IPCB)-CNR, Massimo Viscardi, University of Naples "Federico II", Giuliana Gorrasì, University of Salerno	Data driven approach for 3D Green's function determination in composite structures: Guided Wave Imaging application , Andrii Kulakovskiy, SAFRAN, Olivier Mesnil, CEA, Bastien Chapuis, CEA, Oscar d'Almeida, SAFRAN, Alain Lhémy, CEA	Effect Of Freeze-Thaw On Compressive And Fracture Properties Of Cnt - Modified Cement Mortars , Panagiota Alafogianni, Ilias Tragazikis, Anastasios Balaskas, Nektaria-Marianthi Barkoula, University of Ioannina
3:00 PM Coffee Break				
Application of Composites		Composite Characterisation	Smart Material Structures	Composite Manufacturing
3:30 PM	Study On Stab Resistance Of The Fiber Reinforced Polymer Composite For Light Weight Police Shield , Jinsil Cheon, Korea Institute of Science and Technology (KIST), Jun Woo Lim, Chonbuk National University, Minkook Kim, Korea Institute of Science and Technology (KIST)	Approaches to understand Diffusion and Kinetics of Thermo-Oxidation of Carbon Fibre Reinforced Polymers (CFRP) with ATR-FTIR-Spectroscopy , Tanja Vetter, Universität der Bundeswehr München, Sebastian Eibl, Bundeswehr Research Institute for Materials, Fuels and Lubricants, Erding, Hans-Joachim Gudladt, Universität der Bundeswehr München, Germany	Development And Characterization Of Embedded Quantum Resistive Sensors For Monitoring Application In Fibre Reinforced Composites , Antoine Lemartinel, Mickael Castro, Olivier Fouché, IRT Jules Verne, France, Jean-Francois Feller, Université Bretagne Loire, France	CoRe Heat - Continuous Resistance Heating Technology for high-speed carbon fibre placement processes , Yannis Grohmann, German Aerospace Center (DLR),
3:50 PM	Experimental Behavior of Full-Scale Unbounded Polyester Reinforced Rubber Isolators , Ingrid E. Madera Sierra, Pontificia Universidad Javeriana Cali, Daniele Losanno, University of Naples Federico II, Johanno Marulanda, Universidad del Valle, Peter Thomson, Universidad del Valle, Colombia	Thermal Properties measurement of single carbon fibers with the 3 omega , Ketaki Mishra, Bertrand Garnier, Steven Le Corre, Nicolas Boyard, Université de Nantes, France	Numerical Simulation Of The Mechanical Behaviour Of Shape Memory Alloys Based Actuators , Salvatore Saputo, Andrea Sellitto, Aniello Riccio, University of Campania "Luigi Vanvitelli"	Influence of Dissolved Gasses in Epoxy Resin on Resin Infusion Part Quality , Sam van Oosterom, Tom Allen, Mark Battley, Simon Bickerton, Center For Advanced Composite Materials - University Of Auckland
4:10 PM	Swimmer Bars , Naim Asha, Al Quba Engineering Office, Jordan	Long-Term Moisture Absorption and Durability Of Frp Pultruded Rebars , Olesja Starkova, Klara Aniskevich, Jevgenijs Sevckenko, University of Latvia	Fatigue Testing and Damage Evaluation using Smart CFRP Composites with Embedded PZT Transducers , Christos Andreades, University of Bath, Michele Meo, University of Bath, Francesco Ciampa, University of Surrey	Use of ultrasonic consolidation (UC) of thermosetting prepreg for autoclave curing of composite laminates , Francesco Flora, University of Bath, F Pinto, University of Bath, M Meo, University of Bath, UK
4:30 PM Closing Ceremony				