

A blue decorative graphic consisting of a horizontal bar that tapers to a point on the right side, with a gradient from dark blue to light blue.

ECCM20 – DETAILED CONFERENCE PROGRAM

31/05/2022

Time Rooms

08:00 Registration desk open

08:15 Campus A Cloud C Garden 1 Garden 2 Garden 3 MONDAY Garden 4 Garden 5 Garden 6 Garden 7 Garden 8 Garden 9 Garden 10 27/06/2022

08:30 Opening ceremony
08:45 Opening ceremony
09:00 Plenary Lecture 1
09:05 Franc Glöwacz IEC magazine
Current trends in the global composites industry 2021-2025
09:30
09:45

Table with columns for time slots (08:00 to 11:00) and room numbers (G1-G10). Contains abstract titles such as 'Advanced manufacturing/automation (P. Mischke)', 'Modeling prediction/Computational methods (M. Faenzi)', 'Property characterization (S. Pithon)', 'Delamination fracture (B. Botis)', 'Polymers and Polymer composites (P. Torres)', 'Functional Polymers and Polymer composites (M. Zaganelli)', 'Modelling prediction/Multi physics (S. Lomenç)', 'Modelling prediction/Phenomenological (P. Canabarro)', and 'Hybrid composites (V. Szeif, G. C. Hill)'. Each entry includes author names and a brief description of the research topic.

11:00 Coffee break

11:15

C82-Wind Energy/Adhesives-polymers (A. Antoniou, M. Rosenfeld)

Table with columns for time slots (11:30 to 13:30) and room numbers (G1-G10). Contains abstract titles such as 'Advanced manufacturing/automation (P. Mischke)', 'Modeling prediction/Computational methods (M. Faenzi)', 'Environmental/service induced degradation (S. Gounaris)', 'Property characterization (I. Sama-Cruz)', 'Composites for space (J. L. Lohrt)', 'Polymers and Polymer composites (P. Torres)', 'Functional Polymers and Polymer composites (M. Zaganelli)', 'Self-healing composites (B. Çaptırlı)', 'Standardization: Semi finished composite products (D. Xia, A. Fatihaoui)', and 'Aerospace applications (B. Falzon)'. Each entry includes author names and a brief description of the research topic.

13:00 Lunch break

13:15

13:30

| Time | Room | Registration desk open | Cloud C | Garden 1 | Garden 2 | Garden 3 | Garden 4 | Garden 5 | Garden 6 | Garden 7 | Garden 8 | Garden 9 | Garden 10 |
|-------|------|------------------------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| 09:30 | 0930 | 0930 | 0930 | 0930 | 0930 | 0930 | 0930 | 0930 | 0930 | 0930 | 0930 | 0930 | 0930 |
| 09:45 | 0945 | 0945 | 0945 | 0945 | 0945 | 0945 | 0945 | 0945 | 0945 | 0945 | 0945 | 0945 | 0945 |
| 10:00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 10:15 | 1015 | 1015 | 1015 | 1015 | 1015 | 1015 | 1015 | 1015 | 1015 | 1015 | 1015 | 1015 | 1015 |
| 10:30 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 | 1030 |
| 10:45 | 1045 | 1045 | 1045 | 1045 | 1045 | 1045 | 1045 | 1045 | 1045 | 1045 | 1045 | 1045 | 1045 |
| 11:00 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| 11:15 | 1115 | 1115 | 1115 | 1115 | 1115 | 1115 | 1115 | 1115 | 1115 | 1115 | 1115 | 1115 | 1115 |

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|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 09:30 | 0930 | 0930 | 0930 | 0930 | 0930 | 0930 | 0930 | 0930 | 0930 | 0930 | 0930 | 0930 | 0930 |
| 11:15 | 1115 | 1115 | 1115 | 1115 | 1115 | 1115 | 1115 | 1115 | 1115 | 1115 | 1115 | 1115 | 1115 |
| 12:00 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 |
| 12:15 | 1215 | 1215 | 1215 | 1215 | 1215 | 1215 | 1215 | 1215 | 1215 | 1215 | 1215 | 1215 | 1215 |
| 12:30 | 1230 | 1230 | 1230 | 1230 | 1230 | 1230 | 1230 | 1230 | 1230 | 1230 | 1230 | 1230 | 1230 |
| 12:45 | 1245 | 1245 | 1245 | 1245 | 1245 | 1245 | 1245 | 1245 | 1245 | 1245 | 1245 | 1245 | 1245 |
| 13:00 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 |
| 13:15 | 1315 | 1315 | 1315 | 1315 | 1315 | 1315 | 1315 | 1315 | 1315 | 1315 | 1315 | 1315 | 1315 |
| 13:30 | 1330 | 1330 | 1330 | 1330 | 1330 | 1330 | 1330 | 1330 | 1330 | 1330 | 1330 | 1330 | 1330 |

Wednesday 29/06/2022

Table with columns for time slots (14:00-14:15, 14:30-14:45, 15:00-15:15, 15:30-15:45, 16:00-16:15, 16:30-16:45, 17:00-17:15, 17:30-17:45, 17:45-18:00, 18:00-18:15, 18:30-18:45, 19:00-19:15, 19:30-19:45, 20:00-20:15, 20:30-20:45, 21:00-21:15) and rows for topics like Keynote Lecture 5, Hybrid Joints, Fatigue of composites, Life cycle performance, Modeling prediction, and Manufacturing/Automation. Includes a 'Council Meeting #2' block and a 'Gala Dinner STCC Campus' block at the bottom.

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

Gala Dinner
STCC Campus

| Time Rooms | | | | | | | | | | | |
|------------------------|--|---------|---|---|--|---|---|--|--|---|---|
| Registration desk open | | | | | | | | | | | |
| 08:00 | Thursday 30/06/2022 | | | | | | | | | | |
| 08:15 | Campus A | Cloud C | Garden 1 | Garden 2 | Garden 3 | Garden 4 | Garden 5 | Garden 6 | Garden 7 | Garden 8 | Garden 9 |
| | | | G1.13- Bio composites (P. E Bourbon) | G2.13 Application/other domains (J. Lamon) | G3.13-Composites for energy storage (L. Asp, G. Froid) | G4.13-Cost action Essence/property characterization (F. Clamens, R. Bohn) | G5.13 Hybrid metacomposites (E. Biffert) | G6.13-Manufacturing (M. Alesandro) | G7.13-Process monitoring (J. Teuwen) | G8.13- Polymers and Polymer composites (N. Boyard) | G9.13-manufacturing (S. Andou) |
| 08:30 | 02413:(Smets Eva, Rami Cavin, Alderleisen René; (Title):Measurement of damage growth in ultrasonic spot welded joints | | 02350:(GUILLELMOU Laurent), Manal Racha, Yvrekhisya Svetlana, Dourati Dany; (Title):Behaviour and repair of flax/Elium Biocomposites loaded in low velocity impact | 01921:(Hong Hyunsoo), Kim Seong Su; (Title):Composite spring capable of self-energy harvesting based on triboelectricity for exo-robots | 01582:(Hong Jae-Moon), Jeong Kwang Il, Kim Seong Su; (Title):Cobalt metal-organic frameworks on electrode for the high performance of vanadium redox flow batteries | 02318:(Fatema Sara), Schneider Johannes, Kumar Shanmugas, Böhm Robert; (Title):3D printed polymer nanocomposites engineered with graphene and metallic nanoparticles for optical detection of water pollutants | 02366:(Abdoli Hamed), Chan Simon, Allen Tom, Battley Mark, Diegel Olaf, Bickerton Simon; (Title):Hybrid components: Enhancing bonding strength between 3D-printed substrates and FRP through surface design | 02319:(Amerson Gustaf), Jung Anna-Lena, Atomaki Yvonne, Lundström T. Staffan; (Title):3D flow and Fibre Orientation Modelling of Compression Moulding of a SMC Composite and Validation in Squeeze Flow | 02570:(Almeida Humberto), Felton Brian, Helms Katherine, Withers Philip; (Title):Defect characterisation of continuous fibreglass composites 3D-printed with several processing parameters | 02485:(Tomkova Blanka); (Title):USE OF CARBON PARTICLES IN FIBER/EPOXY UD LAMINATES | 02438:(König Richard), Spitzer Sebastian, Böhm Holger, Bätzel Tim, Rao Reyva Nitin, Gude-Malk; (Title):Ice hall stone impact testing of tailored fiber placed composite structural vanes for novel CFRP-Ti intermediate cases of future jet engines |
| 08:45 | 02276:(Nafios Angelos), Gkourras Arsenios, N. Georgis Leonidas, S. Pappas Alkiviadis; (Title):Comparison of Pulsed, Pulse-Phase, Lock-In and Standard Deviation Thermography techniques for nondestructive evaluation of composite materials | | 02493:(FERRIN Henri), SENOUSAOUI Noha-Lys, VALEDMONT Régis, KOUTSAWA Yoo; (Title):Experimental investigation and modelling of the morphology and induced thermal properties evolution by consolidation of flax fibres hybrid reinforced thermoplastic composite | 02535:(Tsirka Kyriaki), Huguon Arrate, Kouli Maria Elisavet, Lorente Amaia, Nafios Aggelos, Rekondo Alaitz, Fotinidis Georgios, Kosari Maria, Anagnostou Konstantinos, Pappas Alkiviadis; (Title):Repairability of carbon fiber reinforced 3R and modified 3R epoxy laminates | 02333:(Spitzer Sebastian), Schlegel David, Taemshoff Inus, Gude Malk; (Title):Multi-scale analysis of optimization potential for CFRP vessels to reach future gravimetric storage densite | 02009:(Langenbach Jakob), Bakkaï-Hasani Camille, Pozuelo Quentin-Arthur, Georgopolou Antonia, Clemens Frank, Tourmilhae Francois, Norvez Sophie; (Title):Self-healing vitrimer composites for soft robotics | 02253:(Mostofzadeh Parham), Dorey Robert A, Mohagheghian Imaz; (Title):Variable Stiffness Lattice Structures | 02142:(Qian Connie), Yuan Hao, Khan Muhammad, Kendall Kenneth; (Title):Squeeze Flow of Carbon Fibre Sheet Moulding Compound in Compression Moulding | 02483:(Akay Erdem), Köhler Filipp, Fernandez Vilgas Irene; (Title):In-Situ Monitoring of Weld Line Thickness in Continuous Ultrasonic Welding of Thermoplastic Composites | 02400:(Thomsen Ole), Dulleu-Barton Janice, Hallett Stephen, Butler Richard; (Title):Validation of Composite Aerostructures through Integrated Multi-Scale Modelling and High-Fidelity Substructure Testing Facilitated by Design of Experiments and Bayesian learning | 02230:(Mihalic Matthias), Pretschung Claudia, Lummerstorfer Thomas, Kissel Wolfgang; (Title):Physical and Chemical Foam Injection Moulding of Natural Fibre Reinforced Polypropylene Compounds with Controlled Mould Opening |
| 09:00 | 02267:(Ruiz Iglesias Rafael); (Title):Surface and subsurface damage assessment of multi-directional composite laminates utilizing a full field imaging technique | | 02338:(PSUPATI Anung , LAURENT Thomas, ERDY Mathilde, PARK Chung Hae); (Title):Flax and self-reinforced PLA non-woven preforms for high performance and lightweight bioinspired composite materials | 02462:(Liu Changyuan), Xin Wang, Wu Zhisher; (Title):Experimental study on the flexural behavior of RC beams strengthened with prestressed FRP laminates | 01839:(Xu Johanna), Xia Zhenyuan, Sanchez Jaime S., Johansen Marcus, Liu Fang, Asp Leif E.; (Title):Coating of LiFePO4/graphene oxide on Carbon Fibres as Positive Electrodes for Structural Batteries | 01886:(Georgopolou Antonia), Eckey Louisa Marie, Vandenberght Bram, Clemens Frank; (Title):Soft carbon-based multi-sensory resistive receptors | 02138:(Spitzer Sebastian),(Brike Michael), Luft Jan, Gottwald Robert, Gude Malk; (Title):Virtual-physical engineering of a graded CFRP/Titanium aircraft suspension strut | 02069:(Mahé François), Binetruy Christophe, Advani Suresh, Ferec Julien; (Title):A multi-scale mechanical model for high fiber content SMC in compression molding | 02184:(Gkaravela Alkaterini), Vareli Ioanna, Barikou Nektaria Marianthi, Pappas Alkiviadis; (Title):MONITORING THE PROPERTIES OF CEMENT-BASED COMPOSITE MATERIALS WITH IMPEDANCE SPECTROSCOPY | 02279:(Thorn Thomas D.S.), Liu Yi, Biotti Emiliano, Peijs Ton, Zhang Hao; (Title):Easy-repairing of high performance fibre reinforced composites with multiple healing cycles and integrated damage sensing | 02213:(Pretschung Claudia), Mihalic Matthias, Lummerstorfer Thomas, Spornner Christian, Griesenberger Georg; (Title):Foam Injection Moulding of Cellulose Fibre Reinforced PP -Influence of Processing Parameters |
| 09:15 | 02101:(Ospitia Nicolas), Tsangouri Eleni, Pourkazemi Ali, Sliens Johan H., Aggelis Dimitrios G.; (Title):Multimodal NDT monitoring of Textile Reinforced Cementitious Composite sandwich beams in bending | | 02179:(Hartwig Marie),(Gamstedt Kristofer), Wohliert Malin, Briot Corentin; (Title):On the flexural strength and actuation of wood branches – Mechanisms useful in composite design? | 02385:(Scius-Bertrand Marine), Videau Laurent, Ecault Romain, Bergara Tomas, Olive Maxime, Berthe Laurent; (Title):Real delamination in laminate carbon fiber reinforced polymer produced by laser shock for aeronautic structural control | 01725:(Javanshour Farzin, Hopta Karolina, Laurikainen Pekka, Kanta Layek Rama,(Sarin Esai); (Title):Improved CFRP hydrogen tank performance with graphene oxide modifications | 02420:(Li Kai-Young), Trompeter Bill, Amirpour Maedeh, Allen Tom, Bickerton Simon, Kelly Piaras; (Title):Characterization of a soft magnet composite for use in road-embedded wireless-charging systems | 02118:(Marx Alexander), Schiebel Patrick, Herrmann Axel S.; (Title):Manufacturing and properties of hybrid composites of continuous steel and glass fibers made by tailored fiber placement | 01853:(Ricardo Losada), Francisco Amedes, Alberto Pedreira, Xavier Perez, Adrian Rodriguez, Celia Martin, Elena Rodriguez; (Title):FFF manufacturing of high performance thermoplastics. Crystallinity and mechanical properties linked to the processing parameters | 02183:(Kelch Milan), Simon Stefan, Groß Andreas; (Title):Accelerate growth of the composite industry by standardized quality management based on the successful model of welding and adhesive bonding technology – DIN SPEC COMPOSITES | 01909:(Chappuis Selene),(Tourmilhae Francois); (Title):Design and formulation of epoxy-anhydride vitrimers for application in composites. | 01827:(Weidmann Stefan), Mitschang Peter; (Title):In-line quality assurance and process control in fully automated welding processes |
| 09:30 | 01890:(Tao Nan), Anisimov Andrei, Ebenbas Marcel, Groves Roger; (Title):Shearography non-destructive testing of a composite ship hull section subjected to multiple impacts | | 02139:(Ongaro Federica), Pugno Nicola; (Title):Mechanical modelling of viscoelastic hierarchical suture joints and their optimization and auxeticity | 02381:(Kwak Amanpreet), Lim Jun Woo; (Title):The high-performance bipolar plate for the vanadium redox flow battery using soft layer method | 01711:(Anthony David B., Greenhall Emily S., Kafatzas Tomas, Kucernak Anthony R, J, Linde Peter,(Nguyen Sang), Qi Guocheng, Razavi Seydalizade, Senokos Evgeny, Shaffer Milo S P, Valkova Maria; (Title):Structural Supercapacitor Composite Technology Demonstrator | 02068:(Vareli Ioanna), Gkaravela Alkaterini, Pappas Alkiviadis S., Barikou Nektaria-Marianthi; (Title):Thermoelectric OD/2D cement composites for future large-scale thermal energy harvesting | 01979:(Farrokhbadi Amin), Ghorbani Fatemeh, Gharebaghi Hussain, Bolouri Amir; (Title):Investigation of the energy absorption capacity of novel 3D-printed glass fiber reinforced thermoplastic bio-inspired structures | 01822:(Bauer Philipp), Mehl Konstantin, Motsch-Buchmann Nicole, Schmeier Sebastian, Mueller Ingolf, Hausmann Joachim; (Title):A novel hybrid thermoset-thermoplastic robot-based production concept for lightweight structural parts: A special view on the hybrid interface | 01893:(Voß Morten), Kaufmann Marvin, Vallée Tili; (Title):Experimental investigations on accelerated curing of adhesively bonded G-FRP tube connections | 01734:(Varma Janis), Nunes Stephanie, Pupurs Andrejs, Emami Nazarin, Swar Roshan, Joffe Roberts; (Title):The effect of short carbon fibers on viscoelastic behavior of UHMWPE | 01640:(Fuchs Peter Filipp), Novak Philipp Michael, Lang Margit, Qi Tao, Zündel Julia, Gschwandl Mario, Antretter Thomas; (Title):Determining the influence of the Level of Detail in FEA Modeling on the Warpage Prediction of PCBs |
| 09:45 | 01847:(Jafsson Geri), Jack Toby ,Dulleu-Barton Janice; (Title):Assessment of complex structural scale composite structures by adapting thermoelastic stress analysis for 3D perspective imaging | | 02132:(Reichenbacher Rudi), Eischner Cindy, Eichhorn Julia, Groß Martin, Stommel Markus, Scheffler Christina ; (Title):Biobased glass fiber sizings for composites in medical and technical applications | 02327:(Das Matheos), Alvarez Fello Diego, Boyer Francois, Calinactra Andrea, Gargiulo Corrado, Olivier Philippe; (Title):Pressure resistance characterisation of micro-vascular networks embedded in carbon composites for High Energy Physics applications | 01652:(Wanghofer Florian,(Wolfsart Markus), Wollinger Achim, Schögl Sandra; (Title):Development of novel matrix materials for type V hydrogen gas pressure vessels | 01643:(Bengtsson Rhodol), Afshar Reza, Mostafaei Mahmoud, Gamsteh E. Kristofer; (Title):Evaluating viscoelastic shear properties in clear wood via off-axis compression testing and digital image correlation | 01722:(Duhovic Miro), Hoffmann Thomas, Schommer Dominic, Ernst Jürgen, Schladitz Katja, Moghiseh Ali, Gortner Florian, Hausmann Joachim, Mitschang Peter, Steiner Konrad; (Title):Digitizing the production of carbon fiber sheet molding compounds | 01676:(Gackowski Bartosz Mikolaj), Sharma Mohit, Idapalapati Srihar; (Title):Additive manufacturing of composite structures with integrated internal heating and damage sensing | 01892:(Vallée Tili), Voß Morten, Kaufmann Marvin; (Title):Modelling of accelerated curing of adhesively bonded G-FRP tube connections | | |
| 10:00 | | | 02122:(MoghimiArakani Ali), Ivers Jan, Willem van Vuure Aart; (Title):The effect of humidity on the mechanical properties of Flax-polyester biocomposites with different fibre architectures | 02041:(Hakala Paull), Javanshour Farzin, Jordan Juhna, Laaksonen Paavi, Jutila Lauri, Järveläinen Jan, Kanervo Mikko; (Title):The performance flax reinforced composites for wireless and sport applications: natural additives and sandwich concepts | 01590:(Fredt Giulia, Dorigato Andrea, Fambri Luca,(Pegoretti Alessandro); (Title):Evaluating the Multifunctional Performance of Structural Composites for Thermal Energy Storage | 02037:(ALTUNTAZ IMIRZA OKAY,(OZTURK OGUZHAN), KAHNAT ALEXANDER , WAGNER CHRISTIAN, BÖHM ROBERT; (Title):Self-sensing properties of different carbon nanomaterial based composites for sustainable infrastructures | 01729:(Werner Henrik), Liebig Wilfried, Weidemann Kay Andre; (Title):Tensile Properties of Deep Drawn In-Situ Polymerized Fiber-Metal-Laminates | | | | |
| 10:15 | | | 01639:(Ram Farsa), Berglund Lars; (Title):Functionalized wood composites for mechanical energy harvesting and vibration sensing | | 02447:(Pupure Liva), Varma Janis, Gallitis Rihards, Pakrastins Leonids, Al-Maqdasi Zainab; (Title):Development of methodology for experimental parameter identification for inelastic 3D material model | | | | | | |
| 10:30 | Coffee break | | | | | | | | | | |
| 10:45 | Albert Cardon Keynote - Yentl Swalls (KU Leuven) | | | | | | | | | | |
| 11:15 | Micromechanics of fibre reinforced composites: challenges in experimental validation of numerical models | | | | | | | | | | |
| 11:30 | Closing ceremony | | | | | | | | | | |
| 11:45 | | | | | | | | | | | |
| 12:00 | | | | | | | | | | | |
| 12:15 | | | | | | | | | | | |
| 12:30 | | | | | | | | | | | |

Thursday afternoon 14:00-16:00 Guided city tour with a sweet surprise

Excursion in the Gruyere region with cheese and chocolate activity

Friday All day (from 9:00 am-)

POSTER SESSIONS

Tuesday 28/06/2022

| | | | | |
|---|--|---|---|--|
| 62379-Pedreira Esteve Alberto, Rodríguez Vázquez Adrían, Rodríguez Alonso Paula, Rodríguez Semín Elena (Title) Robotic additive manufacturing of continuous carbon fiber thermoplastic composites | 62046-Kang Seung In, Yoo Jung Jae, Kim Min Byoung, Seong Dong Gi (Title) Developing a new type of fiber-reinforced composites manufacturing system: Multi-drop filling process | 62264-Lee Seung Jun, Jung Yu Jin, Jang Sunghwan (Title) Temperature Detachable Surface Coating and Self-sensing System with Carbon Nano-tube/Epoxy Composites | 62246-Nakamura Mitsui, Noda Junji (Title) Hybrid ratio effect on flexural properties for CFRP-fabric fiber composite hybrid materials | 62491-Salzmann Moritz, Schmedewi Raff, Teuchmann Michael (Title) Using Near-Infrared Spectroscopy for quality inspection of prepreg before processing |
| 61807-Arnáevich Andrey, Zhe Edmunds, Bulderberga Olga, Zelenakene Dava (Title) Mechanical characterization of some polymers used in 3D printing | 61537-Per Hallander, Tommy Granåkl, Mikael Petersson, Main Alermo (Title) An engineering view of using research results to increase the design window and avoid manufacturing defects | 61808-DIMOS EVANGELOS, DELIA RAFFAELA SAUCEAU MARTIAL, SECOSSEUX ROMAIN, QUIROGA CORTES LUIS, SANCHES LEONARDO, MICHON GUILLIEM (Title) Supercritical CO ₂ assisted foam extrusion for aeronautical sandwich structure manufacturing | 61546-Seythi Guillem, Odamo Conito, Anshuwa Nara, Grigard Bruno, Renaud Lella, Sardon Hariz, Detrembleur Christophe, Jean-Marie Raquez (Title) Non-ionic nitrated polyurethane based composites: a new route to sustainable fully bio-based structural composites | 62468-Jimenez Martin Claudia, (Title) Time Resolved in-situ CT Scanning of Non-Crimp Fabric Forming |
| 61988-Nikzad Mostafa, Nisha Shammii Sultana, Jahromi Farad Faradon, Bodaghi Masoud, Akhbari Mohammad (Title) Light as a Green Additive for 3D Printing Applications | 61758-Rouhi Mohammad, Lu Jialong, Tan B.C. Vincent, Tay Tong Eam (Title) Integrated simulation platforms to map effects of manufacturing on the mechanical performance of composites | 61741-Plat Remaa, Deshpande Vinit Vijay (Title) Prediction of elastic properties of ceramic foam by creating artificial microstructures statistically equivalent to the real one | 62112-Botta Luigi, Lopresti Francesco, Perrico Giulia, Gardalo Giuliana, Gaglio Raimondo (Title) Biodegradable polymer based composites filled with biochar for tunable release of curcumin | 62373-Kalinin Aleksey, Lukyanukh Andrey, Piatkov Andrey, Andreev Stanislav (Title) Microstructure Based Fatigue Failure Criterion for CFRP |
| 62081-Liebig Winfried, Muth Markus, Seitz Michael, Wisemann Florian, Weiss Patrick (Title) Effort reduction of structural health monitoring in additive manufactured structures by total electrical resistance measurements | 61718-Novotná Jana, Tomková Blanka (Title) Influence of the innovative process of production of epoxy composites filled with microcellulose on the mechanical properties of these composites | 62212-Owczarek Monika, Herczyńska Lucyna, Kuczyńska Izabela (Title) CRYSTALIN NANOPARTICLES WITH GINCOGOLBIOLBA EXTRACT IN AN ALGINATE CARRIER AS A SYSTEM FOR THE SLOW RELEASE OF THE ACTIVE SUBSTANCE | 61935-Sharma Anvitha, Maheshgauthay Tanmay, Kushalpa Vinod (Title) Linearization Quantification of the Dynamic Fracture Toughness of Particulate Polymer Composites using a Surrigite Based Methodology | 61555-Sharma Anvitha, Maheshgauthay Tanmay, Kushalpa Vinod (Title) Linearization Quantification of the Dynamic Fracture Toughness of Particulate Polymer Composites using a Surrigite Based Methodology |
| 61996-BAD hukangye, Margareta Philipp, Diner Philipp (Title) Cure monitoring of carbon fiber reinforced polymers using a specific impedancemetry method | 61880-Eguchi Takashi, Ho Mikitaka, Nishiyabu Kazuki (Title) Manufacturing and fastening system of CFRP innet by puffusion and servopress thermforming process | 62259-Liu Domenico, Jorge Muñoz, Adán Sakalyte, Alberto Giménez, Jordi Renau, Víctor García-Pérez, Juan A. García, Fernando Sánchez (Title) Thickness variation effect on composite surface layer protection system due to rain erosion damage in Wind Turbine Blades | 62002-Choi Dongkuk, Lee Kyonghan, Lee Seonyung, Lee Cheolji (Title) Finite Element Analysis of Thick Carbon Composites Laminates Subjected to Low-Velocity Impact Loads | 61965-Street George, Mistry Praveen, Johnson Michael (Title) The effect of non-isothermal through-thickness conditions on the shear behaviour of fibre reinforced thermoplastic composites |
| 62397-Bunel Félix, Pintau Bruno, David Patrick (Title) 3D Printing and Study of Ceramic Matrix Composites | 61736-Yang Hyun Ioon, Kang Kyoung Mo, Kim Doyoung, Yu Woong Ryeon (Title) A new 3D weaving method for three-dimensional woven fabric preforms | 62569-Broadways Hanna, Henning Anne (Title) Laccase-Enzyme Treatment of Flax Fibres for improved interfacial strength in Natural fibre Composites | 61586-Loth Andreas, Förster Raff (Title) COMBIO - properties of a novel bamboo based honeycomb core material for composite sandwich structures | 61500-ALI FAHAD (Title) Numerical and Experimental Investigation of Honeycomb Sandwich Composite Material and its Aerospace Application |
| 61564-Muennik Dominik, Sprenger Anna Mona, Ryseck Florian (Title) Design of additively manufactured composite elements with long and short fiber reinforcements for improved stab protection | 62005-Sano Mami, Kobayashi Kodai, Tanaki Satoshi, Noda Junji (Title) VARTM of natural fiber composite dome using stay knit fabrics | 61824-Gieger Thomas, Gieger Christine K., Hoffmann Kerin D., Nyström Gustav (Title) Printed Circuit Boards made from cellulose fibres | 62063-Ham Seokwoon, Cheon Seong S (Title) The design of piezoelectric integrated composite bumper beam with machine learning algorithm | 62486-Kostasaras Christos, Pavlou Christos, Patroakis George, Koutoumamis Nikolaos, Triakakis George, Dasiotis Constantinos, Galotis Costas (Title) Robust and flexible resistive graphene and carbon nanotube heaters: Ultra fast heating response and high temperature stability |
| 62470-Alexander Matshinski, Shvano Semirak, Paul Compston, Klaus Drechsler (Title) Characterization of a Novel Manufacturing Method for 3D-Printing Nozzles Using X-ray Computed Tomography (CT) | 62482-Mahmoud Humam, Sun Lu, Kim Byung Chul, Stojkovic Miroslav (Title) Use of internet of Things (IoT) in digitizing on process monitoring and control during composite manufacture | 62028-Seong Dong Gi, Lee Jae Hyeo, Yoo Jung Jae, Son Seung Mo, Song Kyung Hyun (Title) Functional material based approaches for reactive resin transfer molding of carbon fiber reinforced thermoplastic composites | 62205-Jin Zijiao, Pastor Maria-Leticia, Garrier Christian, Huang Si, Gong Xiaojing (Title) Rapid fatigue life prediction of CFRP laminates by combining the data of self-heating with stiffness degradation | 61904-Calabrèse Luigi, Gullì Giuseppe, Palamara Davide, Bertino Riccardo, Grangi Francesco (Title) Flexural toughening of wave shaped short glass fibers in a cementitious mortar |

PS1-15:30 to 18:15

Wednesday 29/06/2022

PS1-15:30 to 18:15

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| 61782-Volpon Ruggero, Clement Fabrizio, Martore Alfonso, Giustolisi Giuseppe, Toscano Cirio, Giordano Michele, Barletta Giovanni, Gallo Nicola (Title) Innovative use of a high filled graphene film in an aeronautical composite panel | 61571-Leempele Gwladys, Fayolle Bruno, Hippolito Iliac, Baté Stéphanie, Bénédicte Thibaut (Title) Effect of aeronautic fluid hybrid on wet poly(ether ether ketone) and its carbon fiber reinforced composite | 61874-Bianchi Bianca, Aparecida Da Cruz Sotol, Paiva Da Silva Lucas, Campos Amico Sandro (Title) Effect of the rheology of carbon nanotubes suspensions on the epoxy cure kinetics | 62100-Bulderberga Olga, Ovodok Evgeni, Stankevich Stanislav, Tarasov Sergey, Pomyalov Sergey, Aiskeliev Andrey (Title) 3MANes/PAAMA based sensors for composite structures | 61833-Stadler Hannes (Title) New solutions for the recycling of CFRP composites |
| 61822-Agreste Gimenez Sanchez, Manuel Martinez Caceres, Jordi Renau, Victor Garcia Peña, Luis Domenico Balares, Antonio Real, Enrique Carriés, Asta Sakalyte, Juan A. Garcia, Fernando Sánchez Lopez (Title) Polymer based interface optimization for coated lightweight composite additive manufacturing | 61845-Micho Florian, Kiri Andras, Kammerl Markus, Schmeer Sebastian (Title) Influence of manufacturing procedure on mechanical properties of continuous fiber reinforced thermoplastics | 62120-Wigger Philipp, Emonts Michael, Fischer Kai, Brecher Christian (Title) Investigation of the formation of composite LED panels with integrated electronics | 61939-Almouss Hassan, De Luca Hugo, Anthony David B. Greenhalgh Emile S. Bismark Alexander, Shafer Mike SP (Title) Robust Continuous Production of Carbon Nanotube Braided Structural Fibres: A Route to Hierarchical Fibre Reinforced Composites | 61551-Klobar Damin, Saribar Haidi, Padawan Frank, BraZun Drago, Trian Lios, Juric Ivan, Garalic Ivica, Kolub Zoran (Title) A PARAMETRIC STUDY OF FRICTION FRICTIONING |
| 61500-ALI FAHAD (Title) Numerical and Experimental Investigation of Honeycomb Sandwich Composite Material and its Aerospace Application | 61965-Street George, Mistry Praveen, Johnson Michael (Title) The effect of non-isothermal through-thickness conditions on the shear behaviour of fibre reinforced thermoplastic composites | 61940-Jain Vaibhav (Title) Tuning of interfacial interaction by Carbon nanotubes on Carbon Fibre-Reinforced Epoxy Composites for improved Mechanical Properties | 61540-Wani Sacharant Anmol, Dagumatti Subbarreddy (Title) Failure analysis of NCF glass-epoxy composites under various fiber and transverse direction loads: An experimental and computational (M2RVE) study | 61514-Lee Shinhoon, Son Youngsoo (Title) Effect of aspect ratio and bulk density of carbon nanotube on the electrical conductivity of poly(carbonate)/multi-walled carbon nanotube nanocomposites |
| 62486-Kostasaras Christos, Pavlou Christos, Patroakis George, Koutoumamis Nikolaos, Triakakis George, Dasiotis Constantinos, Galotis Costas (Title) Robust and flexible resistive graphene and carbon nanotube heaters: Ultra fast heating response and high temperature stability | 61904-Calabrèse Luigi, Gullì Giuseppe, Palamara Davide, Bertino Riccardo, Grangi Francesco (Title) Flexural toughening of wave shaped short glass fibers in a cementitious mortar | 62130-Bariere Nathalie, Duval Thomas, Bregny Fabien, Mimer Laurent, Malettre Irene (Title) Experimental characterization of two structural bonded composite repairs | 61544-Lee Christopher, Knieder Peter, Somnath Shvano, Compston Paul (Title) Void reduction in graphene interlayer enhanced carbon fibre thermoplastic composites | 61826-Feng Weikang, He Pei, Koester Mathieu, Pavlovic Marko (Title) DIC-based monitoring on debonding crack propagation in wrapped composite joints |
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PS1-15:30 to 18:15

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