Programme

sampe

Conference 26 Lecce

Date: 30 September - 1 October 2026
Location: Grand Hotel Tiziano e dei Congressi, Lecce, Italy

TUESDAY 29 SEPTEMBER

Pre-Conference Plant Visits

Plant Tours

13.30 - 18.30 Leonardo Aerostructures - Taranto
14.00 - 18.00 Leonardo Helicopters - Brindisi
14.00 - 18.00 CETMA & ENEA Research Centers - Brindisi

Transport by Touringcar. Departure and return –Grand Hotel Tiziano e dei Congressi – Plant Location v.v. Estimated times depending traffic jams.

FOR ALL PLANT VISITS: Bus location at Departure > opposite Grand Hotel Tiziano e dei Congressi

WEDNESDAY 30 SEPTEMBER

8.00 - 9.00 **Registration**

9.00 - 10.00 **Plenary Opening Session - Bernini Room**

9.00 **Welcome**, by Alfonso Maffezzoli - Chairman SAMPE Italy
Opening, by Tamara Blanco - President SAMPE Europe

9.05 **Key-note** Leonardo Aerostructures' strategy for a sustainable aviation" by Stefano Corvaglia and Fabrizio Leone, Leonardo Aerospace, Italy
Key-note Beyond Material – From Industrial Heritage to the Next Generation of Aerospace Technologies by Antonio De Carlo, MAGROUP / Salver, Italy

9.50 **Presentation Winners** 41th Students Seminar, by Charlotte Salaun, Jury Secretary

10.00 - 10.30 **Coffee Break - Sponsor Exhibition & Poster Presentations**

10.30 - 12.50 **Session 1 - 6/7 talks**

Alfonso Maffezzoli

Tamara Blanco

Stefano Corvaglia

Fabrizio Leone

Antonio De Carlo

Charlotte Salaün

Room 1 Bernini Room — THERMOPLASTICS I

Session chair: Sebastiaan Wijskamp, TPRC, NL

10.30 • *Characterizing laser absorption of thermoplastic composites via stationary transient heating* by Tom Asijee, ThermoPlastic composites Research Center (TPRC), Netherlands

10.50 • *Continuous carbon fibre-reinforcement in a novel laser-sintering process with glass bead reinforced matrix material* by Simon Zeidler, Karlsruhe Institute of Technology, Germany

11.10 • *Ultrasonic consolidation of thermoplastic composites: process optimization and mechanical performance* by Andrea Dei Sommi, University of Salento, Italy

11.30 • *Thermoplastic Composite Control Surface* by Stephan Becker, FACC Operations GmbH, Austria

11.50 • *The Past, Present and Future of Thermomechanical Recycling of Thermoplastic Composites* by Yannick Buser, TPAC - Saxion, Netherlands

12.10 • *Studying the influence of Consolidation Temperature on Co-Aligned PA46/Carbon Discontinuous Thermoplastic Composites Manufactured via the HiPerDiF Method* by Aysema UNLU, University of Bristol, United Kingdom

12.30 • *Direct Impregnation of Thermoplastic CFRP Semipreg via Vacuum-Bagging: Process Development and Characterization* by Seiran Murata, Kindai University, Japan

Room 2 Donatello Room — SIMASAG STRUCTURAL INTEGRITY – MATERIALS & SUSTAINABILITY ACTION GROUP

Session chair: Fulvio Romano, CIRA & Valentina Lopresto, Unina, Italy

10.30 • *Towards circularity in aviation composite materials: a review of strategies and implementation pathways* by Fulvio Romano, CIRA, Italy

10.50 • *Sensor-Based Characterization of Low-Velocity Impact Damage in CFRP for Naval Applications: Experimental Analysis and Sustainability Perspective* by Valentina Lopresto, Unina, Italy

11.10 • *Predictions for natural short-fibre reinforced composites: numerical effects of interfaces for cohesive zone parameters from micro-peel testing* by Mikko Kanerva, Tampere University, Finland

11.30 • *Mechanical performances of lightweight sandwich structures for advanced applications* by Pietro Russo, CNR, Italy

11.50 • *Integrated Sustainability Assessment of circular strategies for Flax/PLA Biocomposites through Mechanical and Solvent-based Recovery Routes* by Ilaria Papa, Unina, Italy

12.10 • *Sustainable and multifunctional polymeric materials for automotive applications: recycling, characterization and functionalization strategies* by Valentina Brunella, Unito, Italy

12.30 • *Sustainable polymer materials through valorization of agricultural and marine waste fillers* by Vincenza. Antonucci, CNR, Italy

Room 3 Raffaello Room — ADDITIVE MANUFACTURING I

Session chair: David Rodriguez Velasco, AdddimAdour, France

10.30 • *Methodology Development for Void Structure Control in Continuous Fiber-Reinforced Additive Manufacturing* by Jan-Uwe Reinhard Schmidt, DLR, Germany

10.50 • *How mass produced continuous fiber-reinforced thermoplastic Composites combine Automotive Scale with Aerospace Quality* by Giacomo Perfetti, Envalior, Netherlands

11.10 • *3D Printing Assisted Manufacturing of Composite Tidal Turbine Blades* by Dilum Fernando, University of Edinburgh, United Kingdom

11.30 • *Reactive Extrusion Additive Manufacturing of Two-Component Polyurethane: A Systematic Dimensional Accuracy Assessment* by Denni-Helmut Rauschenberg, Helmut-Schmidt Universität Hamburg, Germany

11.50 • *Development of Hybrid Continuous Carbon Fiber Filaments in Additive Manufacturing: Process Parameters and Impregnation Quality* by Daniela Schreil, TU Munich, Germany

12.10 • *Advanced CFRP Nose Landing Gear Steering MEA component manufactured by FDM AM* by Maurizio Arena, MAGROUP / Magnaghi Aeronautica & i@WORK, Italy

Room 4 Giotto Room — TESTING & CHARACTERIZATION

Session chair: Prof. Neven Majic, Technical University of Applied Sciences Augsburg, Germany

10.30 • *Development of an Instrumented Test Cell for Validation of a Thermo–Chemical Curing Model for Thick Epoxy Laminates* by Marie Hadenfeldt, Institute for Plastics Processing at RWTH Aachen University, Germany

10.50 •*The Hidden Variable: How Poor Sample Preparation Masks True Material Performance* by Jon Small, Sharp & Tappin, United Kingdom

11.10 • *Simulation of Induction Heating for Dry Carbon Fiber Preforms Considering Interlaminar Contact Impedance* by Lukas Sauerland, CTC GmbH, Germany

11.30 • *Troubleshooting common prepreg cure failure modes with rheological measurements* by Berrin Degirmenci, Alpha Technologies, Italy

12.30 - 13.50 **Lunch - Sponsor Exhibition & Poster Presentations**

13.50 - 15.30 **Session 2 - 5 talks**

Room 1 Bernini Room — AEROSPACE MANUFACTURING

Session chair: Irene Martucci, MAGroup Salver, Italy

13.50 • *Making small aircraft more affordable – Lean manufacturing approach through automated manufacturing and consolidation out of autoclave* by Olivia Hellbach, DLR, Germany

14.10 • *Energetic and Ecological Lifecycle Assessment of Autoclave versus Press Processing for Thermoset Structural Components: Pathways for Industrial Process Substitution* by Jannis Eckhoff, Composite Technology Center / CTC GmbH (An Airbus Company), Germany

14.30 • *Same-Qualified Resin Transfer Molding (SQRTM) 4.0 : from Automated Fiber Placement (AFP) to Net-Shape parts, a fully automated and qualified way to produce aerostructures* by Philippine Delanghe, Fabien Falcone, Antoine Vierset, Coexpair, Belgium

14.50 • *Manufacturing of thin-walled thermoplastic CFRP stiffeners for sustainable helicopter structures - Project NATURE* by Dipl.-Ing. (FH) Florian Jennemann, Fraunhofer-IGCV, Germany

15.10 • *The one-minute-drone: automated rapid manufacturing and assembly of UAV structures* by Erik Krämer, TPAC - Saxion, Netherlands

Room 2 Donatello Room — SPACE

Session chair: Guy Larnac, Ariane Group, France

13.50 • *Exposure of multi-layer shields in open space environment in the MISSE 9 experiment* by Fabrizio Quadrini, University of Rome "Tor Vergata", Italy

14.10 • *Interlaminar Fracture Toughness of Bonded CFRP Under Cryogenic Temperatures* by Patrick Nowakowski, Faserinstitut Bremen e.V., Germany

14.30 • *Production of composite foams under microgravity in suborbital flight* by Denise Bellisario, University of Rome Tor Vergata, Italy

14.50 • *From Carbon Phenolic Composites (CPCs) to Carbon Silicon Carbide Composites (CSiCCs): a review of current R&D challenges* by Maurizio Natali, University of Perugia, Italy

15.10 • *Testing shape memory composite in open space environment in the MISSE 9 experiment* by Alice Proietti, University of Rome Tor Vergata, Italy

Room 3 Raffaello Room — INDUSTRIAL INNOVATIONS I

Session chair: Guillaume Masse, SAMPE France/Airbus Helicopters, France

13.50 • *Demonstrating Technology Maturity on an A350 Series Part to Support Rate Increases and prepare Fast-Cure LCM Epoxy System for Aircraft high production rate program such as Airbus's SMR* by Dupas Cedric, DAHER, and Carolina Brandes, Hexcel, France

14.10 • *Challenges with structural film adhesive qualification in aerospace* by Ayça Ozkan Keleş & Sema Nur Ünsal Aksu, Turkish Aerospace Industry, Turkey

14.30 • *Manufacturing Concept for a Conformable LH2 Aircraft Tank* by Felix Falk, TU München, Germany

14.50 • *High Rate Composites Manufacturing technologies* by Joshua Ingham, Cygnet Texkimp, United Kingdom

15.10 • *Process Optimization for Complex Composites Illustrated by the H160 Tail Rotor Blade* by Joanna Baudino, Hexcel Composites, France

Room 4 Giotto Room — RECYCLING / VITRIMERS

Session chair: Prof. Antonio Greco, University of Salento, Italy

13.50 • *Black Box Recyclate: From Uncertainty to Precise Identification and Quantification* by Sara Simon, NETZSCH-Gerätebau, Germany

14.10 • *Life Cycle Assessment of rCF Nonwoven Core Integration in High-Performance Hydrofoil Structures* by Mina Mohammadi Khorasani, TU Chemnitz, Germany

14.30 • *Vitrimers in Aerospace: Will it be a revolution or stay niche* by Uwe Beier, Airbus, Germany

14.50 • *Novel Vitrimers-Enhanced FRP Strengthening Systems of Existing Structures: Smart Systems With In-Situ Self-Healing and Self-sensing Properties* by Ali Abbass, TU Dublin, Ireland

15.10 • *Mechanical Recycling of Imine-Exchange Vitrimers and Glass Fibers Composites* by Alessandro Milite, Politecnico di Milano, Italy

15.30 - 16.00 **Coffee Break - Sponsor Exhibition & Poster Presentations**

16.00 - 18.00 **Session 3 - 6 talks**

Room 1 Bernini Room — MANUFACTURING TECHNOLOGIES

Session chair: Marc Fette, CTC, Germany

16.00 • *Assessing Pulse-Generation Reliability for Length Measurement in Filament Winding* by Marvin Wolf, Leibniz-Institut für Verbundwerkstoffe, Germany

16.20 • *The Lab is Right. The Factory is Real. Now What?* by Tim Searle, Composite Integration, United Kingdom

16.40 • *Processing High-Performance Composites Using Isobaric Double-Belt Press Technology* by Marcel Eberbach, Held Technologie, Germany

17.00 • *Processing and Repair of Fibre-Reinforced Polymers and Fibre-Metal Laminates by Power Ultrasonics* by Moritz Liesegang, RPTU Kaiserslautern-Landau, Germany

17.20 • *Process-Aware Simulation Methodology for Hybrid Metal–Composite Additive Manufacturing Structures: Validation on a Lightweight Bicycle Connecting Rod.* by Rakel Herrero, NAITEC, Spain

Room 2 Donatello Room — BIO COMPOSITES

Session chair: Prof. Aart van Vuure, KU Leuven, Belgium

16.00 • *Green Pretreatments and Carding Effects on Fiber Alignment in Flax Sliver for Bio-Composites* by Fabiola Alikaj, Chemnitz University of Technology, Germany

16.20 • *Reactive rtm of bio-based caprolactam for in-situ anionic polymerisation of pa6: process window towards high-performance biocomposites for bev structural applications* by Iñaki Eguia Ibarzabal, Tecnalia Research and Innovation, Spain

16.40 • *In-service Behaviour for Hemp Fibre Thermoplastic Composites* by Sander Van de Vel, KU Leuven, Belgium

17.00 • *Interlaminar fracture properties of flax fibre biobased composites interleaved with PPS veils* by Alojz Ivankovic, University College Dublin, Ireland

17.20 • *Circular Recycled Structural Composite Billets for Hardwood Replacement* by Ranji Vaidyanathan, Oklahoma State University, United States

Room 3 Raffaello Room — INDUSTRIAL INNOVATIONS II

Session chair: Hakki Kizilok, SAMPE Türkiye, Türkiye

16.00 • *HiCarR: High-fidelity card sliver for realigned carbon staple fibre products in structural applications - Closing the loop on tailored fiber placement* by Jascha Schmied, Bionic Composite Technologies, Switzerland

16.20 • *Sustainable Products and Innovations from TEIJIN Carbon* by Willem Ter Steeg, TEIJIN Carbon, Germany

16.40 • *Fatigue Testing using FEA based loading at Extreme Temperatures of Adhesively Bonded Composite Joints for Aerospace Applications* by Dr Antonio Pagliuca, 3M, United Kingdom

17.00 • *Exploring the heat release performance of candidate thermoset resins using microscale combustion calorimetry* by Rhys Tapper, SYENSQO, United Kingdom

Room 4 Giotto Room — STRUCTURAL INTEGRITY

Session chair: Prof. Maria Sánchez, AEMAC, Spain

16.00 • *Multifunctional Composite Railway Interiors with Embedded Printed Electronics for Smart Monitoring and Passenger Comfort* by Nere Garmendia, NAITEC, Spain

16.20 • *Microsatellites; Sandwich panels; Space debris impact; Structural Health Monitoring (SHM)* by Francesco Nicassio, University of Salento, Italy

16.40 • *Advanced Multiaxial μ-HARFF sensors for Real-Time In-Situ Structural Monitoring of Composites* by Gholamreza Shayeganrad, University of Southampton, United Kingdom

17.00 • *Polarization-Based Optical Characterization for Real-Time Defect Detection in Multi Material Textile Preforms for Composite Wind Turbine Blades* by Ava Chavoshi, Technical University of Chemnitz - Professorship of Textile Technologies, Germany

41ST STUDENTS SEMINAR WINNERS

Session chair: Charlotte Salaun, Jury Secretary

17.20 • *Best Master Student - Novel Laser-Induced Amorphisation for Surface Tailoring of C/PEKK Composites* by Ivaylo Lazarov, UTwente/TPRC, Netherlands

17.40 • *Best PhD Student - Effect of inter-tow spacing on dual-scale flow patterns in LCM preforms* by Nilufar Balighieh, EPFL, Switzerland

19.00 - 22.00 **Happy Hour & Network Dinner**
Torre del Parco, Viale Torre del Parco, 1 – 73100 Lecce

THURSDAY OCTOBER 1ST

8.00 - 9.00 **Registration**

9.00 - 10.20 **Session 4 - 4 talks**

Room 1 Bernini Room

ALTERNATIVE PROPULSION SYSTEMS

Session chair: Alojz Ivankovic, University College Dublin, Ireland

9.00 • *Proof of concep or a hydrogen cooling system using a three-step functional demonstrator iteration* by Patrik Miehler, Technical University of Applied Sciences Augsburg, Germany

9.20 • *Novel Manufacturing Approach for Structurally Integrated CFRP Hydrogen Pressure Vessels* by Ulrich Blass, Leibniz-Institut für Verbundwerkstoffe, Germany

9.30 • *Influence of layup on the post-fire residual flexural properties of carbon-fiber epoxy laminates* by Margarita Etchegaray Bello, TUM Chair of Carbon Composites, Germany

Room 2 Donatello Room

MAINTENANCE, REPAIR & INSPECTION

Session chair: Prof. Marco Luigi Longana, Assocompositi, Italy

9.00 • *Electrically assisted and induction-based curing methods for in situ repair of large aerospace structures* by Simone Morciano, CETMA, Italy

9.20 • *Surface Preparation for Structural Adhesive Bonding Repair of Carbon Fiber-Reinforced High-Performance Thermoplastics* by Oliver Pelz, Helmut-Schmidt-Universität, Germany

9.30 • *Fast non-contact ultrasonic inspection of composite structures using a Laser based system* by Arno Volker, Royal Netherlands Aerospace Centre, Netherlands

9.50 • *Importance of characterization by X-ray tomography of short fiber reinforced polymers in predicting the mechanical properties of composite material* by Michele Nacucchi, ENEA, Italy

Room 3 Raffaello Room

ARTIFICIAL INTELLIGENCE AI

Session chair: Sebastian Bühler, Bionic Composite Technologies, Switzerland

9.00 • *5D Vision for Automated Quality Control in Additive Manufacturing* by Hala Albahloul, Cogit Composites, France

9.20 • *Neural network–based processing architecture for real-time monitoring of the overmolding process for composite structures* by ibrahim Abdullah, IRT Jules Verne, Nantes Université, France

9.30 • *Automated Carbon Fiber Defect Inspection Using Photometric Stereo and Multi-Task Deep Learning* by Abhiram Kolli, Profactor, Austria

9.50 • *Physics-Informed Machine Learning for Scalable and Interpretable Materials Development* by David Noriega Perez, TheNextPangea / University College London, Spain

Room 4 Giotto Room

SPORTS & LEISURE

Session chair: Joerg Kaufmann, TU Chemnitz, Germany

9.00 • *Experimental Characterization and Modeling of Flax Fiber Composites to Assess their Potential for Structural Bicycle Applications* by Tim Isselstein, Trier University of Applied Sciences, Germany

9.20 • *A Sensor-Integrated Fiber-Reinforced Composite Test Bench for In-Situ Determination of Snowboard Deformation* by Joerg Kaufmann, TU Chemnitz, Germany

9.30 • *Influence of environmental factors on the durability of bio-based belts and straps in sports* by Paul Baudach, Technical University Chemnitz, Germany

9.50 • *Innovative Composite Structures for bicycle industry* by Silvio Pappadà, CETMA Composites, Italy

10.20-10.50 **Coffee Break - Sponsor Exhibition & Poster Presentation**

10.50-12.50 **Session 5 - 6 talks**

Room 1 Bernini Room

HYDROGEN PRESSURE VESSELS

Session chair: Gennaro Scarselli, University of Southampton, UK

10.50 • *Structurally Integrated CFRP Pipelines as Load-Bearing Structures for Liquid Hydrogen Distribution in Aircraft* by Nicole Motsch-Eichmann, Leibniz-Institut für Verbundwerkstoffe, Germany

11.10 • *Development of a composite Liquid Hydrogen Tank* by Henri de Vries, NLR, Netherlands

11.30 • *Characterization of thin-ply composites for cryogenic applications* by Alberto Lario Cabello, Toray Advanced Composites, Netherlands

11.50 • *Influence of key winding paramters on the laminate morphology of composite overwrapped pressure vessels* by Kevin Banea, Chair of Carbon Composites - Technical University of Munich, Germany

12.10 • *Microcracks evolution in an epoxy composite subject to cryogenic thermal cycles* by Gennaro Scarselli, University of Southampton, United Kingdom

Room 2 Donatello Room

FIBERS, RESINS AND INTERFACES

Session chair: Prof. Mikko Kanerva, SAMPE Nordic/Tampere University

10.50 • *Investigating the Impact of Monomer Volatility on Porosity and Performance in Infused Recyclable Thermoplastic Composites* by Tala Abbasian, University of Sheffield, United Kingdom

11.10 • *Influence of Microstructural Features on the Mechanical Properties of Flax Fibres: A Comparative Study of Elementary and Technical Fibres* by Clare Garing, KU Leuven, Belgium

11.30 • *Biobased Acetal Vinyl Ester Thermosets for Recovery of Fiber Reinforcements in Composite Materials* by Giuseppe Palmese, Rowan University, United States

11.50 • *Bioyarn Surface Engineering for Next-Generation Composites in Wind Energy* by Marta Ceroni, ENEA, Italy

12.10 • *Exploring Bio-Based Furan Platform Chemicals for the Synthesis of High Performance Phthalonitrile Resins* by Daria Poliakova, Friedrich Schiller University Jena, Germany

12.30 • *Efficient Moisture Reduction in Hemp Fibers Using Industrial Microwave Drying* by Philipp Seitenglanz, TU Munich, Chair of Carbon Composites, Germany

Room 3 Raffaello Room

SANDWICH & DESIGN

Session chair: Bérénice Remy, Arclin, Switzerland

10.50 • *Healable composite sandwiches for aeronautical and mobility* by Cohades Amaël, CompPair Technologies, Switzerland & Thomas Poumadere, DIAB Group, France

11.10 • *Fully thermoplastic honeycomb sandwich structures for high-rate production* by Camill de Vos, Royal NLR - Netherlands Aerospace Centre, Netherlands

11.30 • *Comparison of the mechanical performance of sandwich panels made from thermoformed foam core and cut foam core for boat structures* by Victor Chartrain, EPFL (LPAC), Switzerland

11.50 • *Cost reducing honeycomb sandwich panels for high volume thermoplastic sandwich parts*, by Jochen Pflug, Econcore/ThermHex, Germany

12.10 • *Development and characterization of multifunctional sandwich composites with improved thermal management and mechanical performance* by Laura Simonini, University of Trento, Italy

12.30 • *High Performance Electrically Conductive Foam Core for Sandwich Composite Aerostructures in Next Generation Aircraft* by Ron van Hoorn, Evonik Operations, Netherlands

Room 4 Giotto Room

DESIGN & MODELING

Session chair: María Dolores Vázquez-Navarro, SAMPE Ibérica / Boeing, Spain

10.50 • *Electrical and Mechanical Modeling of Smart Bio-Based Hybrid Composites* by Annalisa Cassinelli, CETMA, Italy

11.10 • *Mesh-Independent Layup Modeling Using Reinforcing Elements in Complex Composite Geometries* by Fabio Pavia, Ansys Germany GmbH (Part of Synopsys), Germany

11.30 • *A Comparative Numerical Investigation of Fiber Deviation Effects on Tensile Stiffness in Micro-Scale CFRP RVEs* by Armin Farzin, Chemnitz University of Technology, Germany

11.50 • *Optimisation of radially laminated composite shafts at arbitrary loads combinations* by Elena Sitnikova, University of Southampton, United, Kingdom

12.10 • *Advancing Sustainable Carbon Composites Through Predictive Simulation: The FiRMA Flow Approach for SMC Structural Analysis* by Martin Wachtel, HRC Europe, Spain

12.30 • *Production-oriented FE-Optimization based on computationally efficient Type IV laminates* by Prof. Dr.-Ing. Neven Majic, Technical University of Applied Sciences Augsburg, Germany

12.50 - 14.00 **Lunch - Sponsor Exhibition & Poster Presentations**

14.00 - 16.00 **Session 6 - 6 talks**

Room 1 Bernini Room

THERMOPLASTICS II

Session chair: Ferrie van Hattum, TPAC, NL

14.00 • *Processing of Short Natural Fibers into Oriented Tapes: Influence of Process Parameters on Orientation and Performance* by Sarah Hepp Institut für Textiltechnik Augsburg Germany

14.20 • *Capabilities of Robot-Based Double-Sided Incremental Hot-forming of Fiber-Reinforced Thermoplastics* by Björn Riecken, CompriseTec, Germany

14.40 • *Experimental and Numerical Analysis of Process-Driven Mode I Interfacial Strength in Overmolded Fiber-Reinforced Thermoplastic Structures* by Martin Giersberg, Institute for Plastics Processing (IKV) at RWTH Aachen University, Germany

15.00 • *Mitigation of process-induced deformations in variable-thickness thermoplastic CFRPs using a novel high-temperature low thermal expansion alloy tooling* by Hiromichi T. Fujii, Shinhokoku Material Corp., Japan

15.20 • *Modular induction heating for complex moulds* by Daniel Fricke, German Aerospace Center (DLR), Institute of Structures and Design, Germany

15.40 • *Study of the influence of graphene and TiO_2 particles on the mechanical performance after sea water ageing of acrylic matrix composites for maritime applications* by Javier Ramírez Conca, AIMPLAS, Spain

Room 2 Donatello Room

SUSTAINABLE SOLUTIONS/ RECYCLING

Session chair: Pietro Russo, CNR, Italy

14.00 • *Towards Zero-Emission Aviation: Integrating Production and Recycling Planning via Semantic Data Models* by Oussama Etlijani, Fraunhofer Institute for Casting, Composite and Processing Technology IGCV, Germany

14.20 • *Multilayer Composite Prepreg Reuse Of Composite Parts* by Pablo Vazquez Sanchez, Airbus Operations S.L, Spain

14.40 • *A Reusable Additive Manufactured Collapsible Mandrelfor Hollow Composite Production* by Claudio Tosto, University of Catania, Italy

15.00 • *From Trash to Tool: Novel Stamp Form Moulds by Large-Format Additive Manufacturing of Recycled C/PPS* by Allard Braakhuis, TPAC - Saxion, Netherlands

15.20 • *Tailoring Foam Additive Manufacturing of Conductive TPU for Lightweight, Piezoresistive Soft Structures* by Rosa Di Maio, University of Naples "Federico II", Italy

15.40 • *Investigation of Natural Fillers as Alternatives to Glass Fibers in PA6-based Composites for Large-Format Additive Manufacturing Applications* by Alessandro Sorze, University of Trento, Italy

Room 3 Raffaello Room

ADDITIVE MANUFACTURING II

Session chair: Prof. Conchúr Ó Brádaigh, The University of Sheffield, United Kingdom

14.00 • *Maturity Models for Additive Manufacturing in Military Contexts* by Fabian Mussbach, Helmut Schmidt University / Composite Technology Center, Germany

14.20 • *Formulation of Photocurable Alumina Suspensions Using Acrylate and Acrylated Silicone Resins for Ceramic Additive Manufacturing* by Tobias Feix, University of Bayreuth, Germany

14.40 • *Customized Design and Manufacturing of Tennis Racket Handle Pallet for Enhanced Damping* by Adeline Ripberger, Purdue University, United States

15.00 • *Development of components by integration of design, polymeric composites materials, 3D-printing and coatings deposition for high-performance applications: from wind power to aerospace* by Alessandra Strafella, ENEA, Italy

15.20 • *The Feasibility of Making Complex Design Composite Marine Propellers for Pleasure Craft* by Carwyn Ward, UWE Bristol, United Kingdom

Room 4 Giotto Room

JOINING & BONDING

Session chair: Arnt Offringa, GKN Fokker Aerospace, Netherlands

14.00 • *The effect of hygrothermal conditions on the adhesion of C/epoxy-C/LMPAEK hybrid joints* by Vanessa Marinosci, TPRC, Netherlands

14.20 • *Assembling a Matrix Hybrid Composite Aircraft Side Shell using Interdiffusion Joining* by Endrass Manuel, DLR, Germany

14.40 • *Automated, non-destructive detection of weak adhesions in welded thermoplastic assemblies using laser shock technology* by Vincent Longchamp, Applus+ Rescoll, France

15.00 • *Joining carbon-fiber reinforced low-melt poly(aryl ether ketone) (CF/LMPAEK) by resistance welding: influence of heating element type on weld performance* by Marcela Matus-Aguirre, COGIT Composites, France

15.20 • *Evaluation of the Four-Electrode Method for Electrical Conductivity Measurement in Carbon Braid- Reinforced Thermoplastic Composite Rivets* by Sebastiaan van den Berg, GKN Fokker Aerospace, Netherlands

16.00 - 17.00 **Farewell drink & Closure**

FRIDAY OCTOBER 2ND

Plant Tours

7.00 - 13.00 Vestas - Taranto

8.00 - 13.00 Avio Aero – Brindisi

8.00 - 13.00 Magroup Salver – Brindisi

Transport by Touringcar. Departure and return –Grand Hotel Tiziano e dei Congressi – Plant Location v.v. Estimated times depending traffic jams.

FOR ALL PLANT VISITS: Bus location at Departure > opposite Grand Hotel Tiziano e dei Congressi

At return Drop-Off at Brindisi Aeroport ± 12.15

POSTER PRESENTATIONS WEDNESDAY 30 SEPTEMBER & THURSDAY 1 OCTOBER

Effect Of Temperature Test on The Strain Rate Behaviour of Shape Memory Thermoplastic and Thermoset Composites Reinforced with Basalt Fabric by Mohamad Alsaadi, University College Dublin, Ireland

From Waste to Wood-Alternative: Manufacturing of CF-Violin Fingerboards by Niklas Kube, Institut für Textiltechnik Augsburg gGmbH / Technische Hochschule Augsburg, Germany

Tuning the interface of carbon fiber reinforced Nylon 6 laminates by Moulishwar Reddy Ambati, Indian Institute of Science, India

Reversible joining of metal-thermoplastic composite hybrid joints by resistance heating by Ozan Erartsin, NLR, Netherlands

Design and Multiphysics Numerical Evaluation of a High-Temperature-Resistant Filament-Wound Composite Structure for Hypersonic Applications by Melek Cevşen Yücel, Ankara Yıldırım Beyazıt University, Türkiye

Open-Source Manufacturing-Aware CAE Platform for Composite Structures by Yvan Blanchard, Virtua Mechanica, France

Bouligand-Structured Fiberglass Panels for Aerospace Propulsion by Mina Abdelmalek, Individual, Egypt

Mechanical Crush and Energy Absorption of Electroplated Additively Manufactured Lightweight Ordered Lattice Structures by Colleen Murray, University of Maryland, USA

Recent Advances in Fluidised-Bed Thermal Recycling of Composites by Ramin Moradi, University of Strathclyde, UK

41st STUDENTS SEMINAR 2026

Jury 41st SE Students Seminar 26

Chairman
Christian Weimer, SAMPE Germany

Vice Chairman
Charlotte Salaun, SAMPE France

Members
Josè M. Kenny, SAMPE Italy
Carwyn Ward, SAMPE UK & Ireland
Matthias Geistbeck, SAMPE Germany
Markus Zogg, SAMPE Switzerland
Adrie Kwakernaak, SAMPE Benelux
Colleen Murray, SAMPE Global

Designing Dynamic Methacrylate Networks with Tunable Properties: Effect of Monomer Structure on the Behavior of Imine-Linked Covalent Adaptable Networks by Jaclyn McLaughlin, Rowan University, USA

Study of the implementation of high-performance, low-mass, durable, and low-cost carbon fibers by Emmanuel Lopez, CANOE/Bordeaux University, France

High-performance bio-based and non-toxic aromatic thermosets for aerospace by Valentin Lehuédé, LCPO/Bordeaux University, France

Novel Laser-Induced Amorphisation for Surface Tailoring of C/PEKK Composites by Ivaylo Lazarov, UTwente/TPRC, Netherlands

The use of damping capacity for characterization of the fatigue behaviour of thermoplastic composites by Sofia Sartorio, TU Delft, Netherlands

Characterization of Process Influences on Microstructure and Mechanical Properties of Long Glas Fiber Reinforced Polyamide 6 Plates in Compounding and Compression Molding by Christoph Schelleis, Karlsruher Institut für Technologie (KIT), Germany

High-performance resins and their blends for novel ablative heat shields in solid rocket engines by Marcel Sticher, LSPW/TU Bayreuth, Germany

Interlaminar toughness retention of Basalt-Vitrimer composites over multiple healing cycles by Enrica Greco, Polytechnic of Milano, Italy

Compression molding of carbon fiber composite sandwich panels with 3D printed auxetic core for new air mobility by Giorgio Patrizii, University of Roma, Italy

Bio-based materials derived from agri-food industry waste for energy storage applications by Raúl Alberto Moreno Ruiz, ICTP-CSIC, Spain

Carbon-Fibre Reinforced Coaxial Structural Batteries: From Electrode Engineering to Multifunctional Composite Design by Beatriz Maia, Universidade do Porto, Portugal

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