



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 Aircrafts - Tarento
- 14.00 - 18.00 Leonardo Helicopters - Brindisi

WEDNESDAY 30 SEPTEMBER

8.00 - 9.00

Registration

9.00 - 10.00
9.00

Plenary Opening Session - Bernini Room

Welcome, by Alfonso Maffezzoli - SAMPE Italy

Opening, by Tamara Blanco - President SAMPE Europe

Key-note Speaker by Leonardo Aerostructures' strategy for a sustainable aviation" by Stefano Corvaglia and Fabrizio Leone, Leonardo Aerospace, Italy

Key-note Speaker TBA

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



Charlotte Salaun

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, Italy

10.30 • *Advanced composites for eireular and sustainable aviation* by Fulvio Romano, CIRA, Italy

10.50 • *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

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

11.30 • *Sustainable Polypropylene Composites Reinforced with Tale and Tetra Pak Waste for Fused Deposition Modeling Applications* by Ilaria Papa, Unina, Italy

11.50 • *Sensor-Based Characterization of Low-Velocity Impact Damage in CFRP for Naval Applications: Experimental Analysis and SUSTAINABILITY Perspective* by Ersilia Cozzolino, 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

3D-PRINTING I

Session chair: TBA

10.30 • *Methodology Development for Void Structure Control in Continuous Fiber-Reinforced Additive Manufacturing* by Jan-Uwe Reinhard Schmidt, Deutsches Zentrum für Luft und Raumfahrt e.V., Germany

10.50 • *Investigation of the Influence of Thermal Post-Treatment on Mechanical Properties for Stereolithographically Manufactured Hollow Structures filled with Thermoset Resin and Short-Carbon-Fibre Reinforcement* by Dominik Platzer, IFB Institute of Aircraft Design University of Stuttgart, Germany

11.10 • TBA

11.30 • *3D Printing Assisted Manufacturing of Composite Tidal Turbine Blades* by Darshana Rathnayaka Mudiyansele, University of Edinburgh, United Kingdom

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

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

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

Room 4 Giotto Room

TESTING & CHARACTERIZATION

Session chair: TBA

10.30 • *Enhanced Open-Hole Damage Tolerance of Hybrid Carbon Fiber Composites: A Multiscale Study* by Mitesh Patadia, Florida State University, United States

10.50 • *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

11.10 • *A numerical workflow for modelling overmolded parts from injection to final mechanical strength* by Berthevas Erwan, IRT Jules Verne, France

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

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

12.10 • *Reliable high speed tensile testing up to 100 /s by Siebe Spronk, SYENSQO, Belgium*

12.30 • *Troubleshooting common prepreg cure failure modes with rheological measurements* by Berrin Degimenci, 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: TBA

13.50 • *Making small aircraft more affordable – Lean manufacturing approach through integral design and automated manufacturing* by 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 • *Process Optimization for Complex Composites Illustrated by the H160 Tail Rotor Blade* by Joanna Baudino, Hexcel Composites, France

14.50 • *SQRTM 4.0 Enables Fully Automated Production of Composites Structures Out-of-Autoclave with Aerospace Qualified Materials* by Fabien Falcone, Coexpair, Belgium

15.10 • *SAMPE Europe 2026 Nature Abstract* by Dipl.-Ing. (FH) Florian Jennemann, Fraunhofer-Institut für Gießerei-, Composite- und Verarbeitungstechnik IGCV, Germany

Room 2 Donatello Room

SPACE

Session chair: TBA

13.50 • *Exposure of multi-layer shields in open space environment in the MISSE 9 experiment* by Fabrizio Quadri, 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: TBA

13.50 • *Senior Expert Composites* by Dupas Cedric, DAHER, France

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

14.30 • *High Rate Composites Manufacturing technologies* by TBA, Cygnet Texkimp, United Kingdom

14.50 • TBA

15.10 • TBA

Room 4 Giotto Room

STRUCTURAL INTEGRITY

Session chair: TBA

13.50 • *Multifunctional Composite Railway Interiors with Embedded Printed Electronics for Smart Monitoring and Passenger Comfort* by Rakeel Herrero, NAITEC, Spain

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

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

14.50 • *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

15.10 • *Sensor-integrated investigations for the identification of residual stresses during the curing of thick-walled filament wound fiber composite components* by Silvia Regina Imrich, Institute of Polymer Materials and Plastics Engineering, Clausthal University of Technology, Germany

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 GmbH, Germany

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

16.40 • *Adventures in VARTM with Thick Section Layups and Aggressive Exotherms* by Carwyn Ward, UWE Bristol, United Kingdom

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

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

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

Room 2 Donatello Room

BIO COMPOSITES

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

16.00 • *Understanding the Effect of Surface Modifications on Property Translation of Flax Fiber-Reinforced Composites* by Michael Vo, University of Delaware Center for Composite Materials, United States

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

16.40 • *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

17.00 • TBA

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

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

Room 3 Raffaello Room

INDUSTRIAL INNOVATIONS II

Session chair: TBA

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 AG, Germany

16.20 • *Sustainable Products and Innovations from TEIJIN Carbon* by Markus Schneider, 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

4th STUDENTS SEMINAR WINNERS

Session chair: to be announced

17.20 • *Best Master Student*

17.40 • *Best PhD Student*

Room 4 Giotto Room

MAINTENANCE, REPAIR & INSPECTION

Session chair: TBA

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

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

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

17.00 • *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

CIVIL ENGINEERING

Session chair: to be announced

17.20 • *Towards Resilient and Safe Construction Sites: A Digital Dashboard Approach* by Jairis Arleen A. Trujillo, RINA-C, Italy

17.40 • *Design and Experimental Validation of composite FRP Anchorage Systems for Sustainable Precast Concrete system* by Rikvitkumar Sharma, Queen's University Belfast, United Kingdom

19.00 - 22.00

Happy Hour & Network Dinner

Torre del Parco, Viale Torre del Parco, 1 – 73100 Lecce



8.00 - 8.30 **Registration**

8.30 - 9.50 **Session 4 - 4 talks**

Room 1 Bernini Room

ALTERNATIVE PROPULSION SYSTEMS

Session chair: TBA

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

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

9.10 • *Survey of CFRPs for Thermal Runaway Containment of Aircraft Propulsion Batteries* by Frank Palmieri, Vaeridion GmbH, 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

RECYCLING / VITRIMERS

Session chair: TBA

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

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

9.10 • *Mechanical Recycling of Imine-Exchange Vitrimer and Basalt Fibers Composites* by Alessandro Milite, Politecnico di Milano, Italy

Room 3 Raffaello Room

ARTIFICIAL INTELLIGENCE AI

Session chair: TBA

8.30 • *5D Vision for Automated Quality Control in Additive Manufacturing* by Hala Albahloul, Cogit Composites, France

8.50 • *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

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

9.30 • *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: TBA

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

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

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

9.30 • *Innovative Composite Structures for bicycle industry* by Silvio Pappada, CETMA, Italy

9.50 - 10.20 **Coffee Break - Sponsor Exhibition & Poster Presentation**

10.20 - 12.30 **Session 5 - 6 talks**

Room 1 Bernini Room

HYDROGEN PRESSURE VESSELS

Session chair: Marie Hondekyn, Ghent University, Belgium

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

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

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

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

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

12.00 • *A Next-Generation Analytical Framework for Pressure Vessel Design* by Marie Hondekyn, Ghent University, Belgium

Room 2 Donatello Room

FIBERS, RESINS AND INTERFACES

Session chair: TBA

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

10.40 • *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

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

11.20 • *Bioyarn Surface Engineering for Next-Generation Composites* by Barbara Palazzo, ENEA, Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Italy

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

12.00 • *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: TBA

10.20 • *Healable composite sandwiches for aeronautical and mobility* by Cohades Amaël, CompPair Technologies Ltd., Switzerland

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

11.00 • *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

11.20 • *Towards Circular Structural Composites: Hybrid Glass Fibre/Polyamide 6 (GF/PA6) Laminates with Recycled Glass Fibre/Polyamide 6 Core Manufactured via Novel In-situ Impregnation* by Aditya Prakash Shembekar, University of Edinburgh, United Kingdom

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

12.00 • *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: TBA

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

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

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

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

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

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

12.30 - 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, Shinohokoku 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 TiO₂ particles on the mechanical performance after sea water ageing of acrylic matrix composites for maritime applications* by Javier Ramirez Conca, AIMPLAS, Spain

Room 2 Donatello Room

SUSTAINABLE SOLUTIONS/ RECYCLING

Session chair: TBA

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 Mandrel for 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

3D PRINTING II

Session chair: David Rodriguez Velasco, AddimAdour, France

14.00 • *Maturity Models for Additive Manufacturing in Military Contexts* by Fabian Müssbach, 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 • *The Feasibility of Making Complex Design Composite Marine Propellers for Pleasure Craft* by Carwyn Ward, UWE Bristol, United Kingdom

15.20 • *Data-driven monitoring and simulation-based optimization of short-fiber injection in additively manufactured hollow structures* by Heinrich Pfander, IFB Institute of Aircraft Design University of Stuttgart, Germany

15.40 • *Development of components by integration of design, polymeric composites materials, 3D-printing and coatings deposition for aerospace applications* by Alessandra Strafella, ENEA, Italy

Room 4 Giotto Room

JOINING & BONDING

Session chair: TBA

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

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

14.40 • *TBA*

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

15.20 • *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

15.40 • *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 B.V., Netherlands

16.30 - 18.00 **Farewell drink & Closure**

FRIDAY THURSDAY OCTOBER 2ND

Plant Tours

- 7.00 - 13.00 Vestas - Tarento
- 8.00 - 13.00 Avio Aero – Brindisi
- 8.00 - 13.00 Magroup Salver – Brindisi

POSTER PRESENTATIONS WEDNESDAY 30 SEPTEMBER & THURSDAY 1 OCTOBER

Graphene-Enhanced Kevlar-Bamboo Hybrid Composites: Mechanical, Thermal, and Structural Performance for Ballistic, Aerospace, and Automotive Applications by Osita Obiukwu, Federal University of Technology, Owerri, Nigeria

Influence of the synchronization accuracy of tool and workpiece spindle on the gear quality in gear skiving by Stylianos Tsakiris, Manufacturing Technology Institute (MTI) / Laboratory for Machine Tools and Production Engineering (WZL) - RWTH Aachen University, Germany

A Novel Method for Online Monitoring of Ambient-Temperature Aging of Prepreg and Film Adhesive Via Direct Current Dielectric Analysis by Erez Zemel, Rafael, Israel

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

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

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

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

Study of chemical treatment on flax fibers for moisture repulsion and hydrophobic properties by Abdul Rahman Aravind, King Fahd University of Petroleum and Minerals, Saudi Arabia

Adaptive Control Tools in Composites Manufacturing by Carwyn Ward-2, UWE Bristol, United Kingdom

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

Bouligand-Structured Fiberglass Panels for Aerospace Propulsion by MINA ABDELMALEK, Individual, Egypt

Assembling a Matrix Hybrid Composite Aircraft Side Shell using Interdiffusion Joining by Endrass Manuel, German Aerospace Center (DLR), Germany

Open-Source Manufacturing-Aware CAE Platform for Composite Structures by Yvan Blanchard, VIRTUA MECHANICA, France

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

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

TBA by A. D'Amore, Unicampania, Italy

Life Cycle Assessment of rCF Nonwoven Core Integration in High-Performance Hydrofoil Structures by Mina Mohammadi Khorasani, University of Stuttgart ITFT, Germany

POSTER WITH LATER UPGRADE POSSIBLE

41st STUDENTS SEMINAR 2026

Jury 41st SE Students Seminar 26

Chairman
Christian Weimer, SAMPE Germany

Vice Chairman
Charlotte Salaun, SAMPE France

Members
Prof. Josè M. Kenny, SAMPE Italy
Carwyn Ward, SAMPE UK & Ireland
Matthias Geistbeck, SAMPE Germany
Markus Zogg, SAMPE Switzerland
Adrie Kwakernaak, SAMPE Benelux
Jim Johnson, SAMPE USA
Norm Wereley, SAMPE Global

STUDENT SEMINAR SPONSORS



• TBA

Programme June 3 2026 - Subject to later Changes -

SILVER SPONSOR

CTC we are composites

TPAC THERMOPLASTIC COMPOSITES APPLICATION CENTER

EXCURSION PARTNER

NETSCH Proven Excellence.

PARTNERS 2026

AIRTECH, BOEING, COEXPAIR, AIRBUS, JEC, ARCLIN, COMPCUT, COLLINS AEROSPACE, TORAY, TPRC, SVENSO, FOLKE, ADDIMADOUR

TABLE TOPS 2026

3M, Applied to Life, COMPOSITADOUR, ADDIMADOUR, kve, CETMA, BIONTEC, AEMAC, ASSOCOMPOSITI

NETWORK & MEDIA PARTNERS

Fontijne, TECHNOLOGY.COM, held, UNIVERSITÀ DEL SALENTO, CW, JEC COMPOSITES MAGAZINE