



TUESDAY 28 SEPTEMBER

- 13.00 - 18.00 **PRE-CONFERENCE TUTORIALS**
For LIVE attendants only. Depending availability / Approval of the Hosting Company.
- 13.30 - 17.30 **Location FHNW - Windisch - 2 Tutorials in parallel of 2.5 - 3 Hrs. each. - excl. transport time**
- 9T-Labs (in collaboration with FHNW)
 - Synthesites, Hexagon and PhotonFirst (in collaboration with FHNW)
- 13.00 - 18.00 **Location KATZ - Aarau - 1 Tutorial of 2.5 - 3 Hrs. - excl. transport time**
- KATZ Plastics Training & Technology Center (in collaboration with FHNW & Krelus AG)
- 14.00 - 17.30 **Location TRAF0 - Baden - 1 Tutorial with 6 speakers of 3 - 3.5 Hrs.**
- Suprem (AFPT, Automation Steeg & Hoffmeyer, Dynatec)
 - Mitsubishi Chemical Advanced Materials Composites
 - Bossard

WEDNESDAY 29 SEPTEMBER

- 8.00 - 9.00 **Registration**
- 9.00 - 10.00 **Opening + Keynote**
- 9.00
- Welcome by Hans-Jürg Gysin, President SAMPE Switzerland
 - Opening by Prof. Rinze Benedictus, President SAMPE Europe
- 1 key-note speaker**
- 9.15
- Title to be announced, by Prof. Véronique Michaud, Ecole Polytechnique Fédérale de Lausanne (EPFL), Chair Scientific Cie.
- 9.35
- Presentation Winners 36th Students Seminar by the Jury Chair
- 9.50 - 10.20 **Coffee Break - Sponsor Exhibition & Poster Presentations**
- 10.20 - 12.20 **Session 1 - 5/6 talks**



Hans-Jürg Gysin



Prof. Rinze Benedictus



Prof. Véronique Michaud

Room 1	Room 2	Room 3	Room 4
AUTOMOTIVE	THERMOSETS	SPACE & AEROSPACE	SuCoHS
<p>Session chair: Christian Keun, Comrisetec, Germany</p> <ul style="list-style-type: none"> • <i>Implementation of a flow regulation system for granulate based extrusion additive manufacturing</i> by Nevine Tagscherer, BMW Group, Germany • <i>Thermoplastic laser assisted tape placement development for processing a novel carbon fiber reinforced polyphthalamide tape</i> by Heiko Baumann, Fraunhofer IPT, Germany • <i>Wet compression moulding process development for high rate, complex shape automotive structures</i> by Andrew Mills, Cranfield University, UK • <i>Development of novel transportation shells for use in high volume composite part manufacture: the clamshell concept</i> by Kirk Willicombe, University of Bristol, UK • <i>Sensor-based process monitoring of in-situ polymerization in t-rtm manufacturing with caprolactam</i> by Jan Faber, DLR, Germany 	<p>Session chair: To be announced</p> <ul style="list-style-type: none"> • <i>Increasing process robustness of the compression resin transfer molding process by reducing edge racetracking</i> by Mario Vollmer, TU München, Germany, • <i>Formation of dual-scale morphology in epoxy using thermoplastic multilayers scaffolds</i> by Ujala Farooq, TU Delft, Netherlands • <i>High cycle fatigue testing of discontinuous-fibre reinforced composite materials</i> by Leo Walker, FHNW, Switzerland • <i>Influence of binder on the mechanical properties of thin-ply composites manufactured by dry-fibre-placement and vacuum-assisted resin infusion</i> by Philipp Quenzel, RWTH Aachen, Germany • <i>Non-intrusive intelligent cure monitoring for enhancing the manufacturing of high-temp composite structures</i> by Nikos Pantelelis, Synthesites, Belgium 	<p>Session chair: Javad Fatemi, Airbus Defense & Space, Netherlands</p> <ul style="list-style-type: none"> • <i>Lightweight Acoustic Materials for Passenger Aircraft</i> by Nick Eaton, Space Acoustics, Switzerland • <i>Efficiency enhancement for CFRP-Prepregautoclave manufacturing by means of simulation- assisted loading optimization</i> by Markus Englhard, Airbus Helicopters Deutschland, Germany • <i>Composite engine thrust frame design and manufacturing using fibre steering optimization for launcher structures</i> by Wouter van den Brink, NLR, Netherlands • <i>Efficient Manufacturing of CFRP for New Space Applications</i> by Sebastian Bühler, Bionic Composites Technologie, Switzerland <p>36TH STUDENTS SEMINAR WINNERS</p> <p>Session chair: To be announced</p> <ul style="list-style-type: none"> • <i>Best Master Student</i> • <i>Best PhD Student</i> 	<p>Session chair: Prof. Marcus Grob, FHNW, Switzerland</p> <ul style="list-style-type: none"> • <i>SuCoHS Project – Sustainable Cost-Efficient High-Performance Composite Structures demanding Temperature or Fire Resistance</i> by Tobias Wille, DLR, Germany • <i>Development of a thin ply, AFP processable prepreg system based on toughened cyanate ester for high temperature applications</i> by Liaysan Amirova, FHNW, Switzerland • <i>Embedded FBG sensors for composite structure health monitoring application</i> by Pratik Shrestha, PhotonFirst, Netherlands • <i>Thermomechanical testing of CFRP structures under varying thermal conditions</i> by Martin Liebisch, DLR, Germany • <i>Polyfurfuryl alcohol resins in fire resistant applications of advanced composite manufacturing</i> by Mathias Kelchtermans, TransFurans Chemicals, Belgium • <i>Analysis method for process-induced deformation and residual stresses of hightemperature composite structures</i> by Nicolas Gort, FHNW, Switzerland
12.30 - 13.30 Lunch - Sponsor Exhibition & Poster Presentations			
12.40 - 13.30 or later Plant Tours leaving			
20.00 - 22.00 Happy Hour & Network Diner			

POSTER PRESENTATIONS

ADDITIVE MANUFACTURING	MANUFACTURING & TOOLING	PROCESSING	MODELING & CHARACTERIZATION
<ul style="list-style-type: none"> • <i>Development and Validation of Additive Manufactured Lattice Structure Spacecraft Components</i> by Nick Eaton, Space Acoustics, Switzerland • <i>Seamless solution for industrial-grade continuous carbon fibre 3D-printed composites</i> by Yannick Willemin, 9T Labs, Switzerland • <i>Influence on the strain rate at room temperature of a silicone rubberused as fiber placement roller jacket</i> by Vincent Backmann, TU München, Germany • <i>Reaching perfection for mission critical components via AM and composite materials</i> by José Antonio Almenara, CRP Technology, Italy • <i>Influence of self and external heating on electrical properties of conductive 3D printed filament</i> by Robin Delbart, University of Edinburgh, UK • <i>Thermal analysis of the laser-assisted tape placement process with a piece-flow principle</i> by Philipp Striet, RWTH Aachen, Germany • <i>Understanding the influence of the consolidation roller on preform quality in automated deposition processing</i> by Owen Taylor, University of Bristol / NCC, UK 	<ul style="list-style-type: none"> • <i>Hot melt spreaded thermoplastic towpregs-reasearch of the manufacturing process</i> by Max Schmidt, RWTH Aachen, Germany • <i>Cost-effective production of glass fibre reinforced towpregs</i> by Jonathan von Helden, Fraunhofer IPT, Germany • <i>Development of Aerospace Grade FST Glass Fibre Thermoplastic Prepregs</i> by Niccolò Pini, Ensinger Composites, Switzerland • <i>Hybrid-additive punch production for shear cutting using multi-material laser direct energy deposition</i> by Stefan Bellitz, Mercedes-Benz, Germany • <i>Automation of composite hand-sanding operations for freeform parts using 6 axis abrasive waterjet robots</i> by Agathe Jaillon, Bayab Industries, France • <i>Robot-assisted additive manufacturing – process and possibilities</i> by Christoph Maurer, FHNW, Switzerland • <i>Intermediate results MECATESTERS project: Welding of LMPAEK and PEKK UD tapes for fuselage applications</i> by Maarten Bach, KVE Composites Group, Netherlands • <i>Interface improvements in overmoulded composites</i> by Silviu Ivan, Victrex, UK • <i>Fabrication of composite rod by compressive pultrusion using ud-cf/peek prepreg tape and its rivet fastening by ultra-compact servo press</i> by Takeshi Eguchi, Dai-Ichi Dentsu, Japan 	<ul style="list-style-type: none"> • <i>Design and manufacturing carbon fiber wheel rim</i> by Mahmoud Samy, Ainshams University, Egypt • <i>Conformal tempering channels in a 3Dt printed corefor rtmtooling</i> by Matthias Feuchtgruber, TU München, Germany • <i>Influence of the aerodynamic process parameters in the fibre spraying process on the bending stiffness orthotropy of fibre reinforced thermoplastic parts</i> by Erik Wilms, RWTH Aachen, Germany • <i>Optimised joule heating of carbon fibres in a low-cost, high-speed powder-epoxy towpregging pilot production line</i> by Murat Celik, University of Edinburgh, UK • <i>Polyhedral Oligomeric Silsesquioxane functionalized Graphene based Oxide Fiber-reinforced composite nanofillers and dispersion optimization.</i> by Sedhuraman Mathiravedu, MITO Materials Solutions, USA • <i>Reduction of stabilization time of pan-based carbon fibers by the thermochemical pretreatment</i> by Ziwen Liu, RWTH Aachen, Germany • <i>Warpage of fiber-reinforced thermoset towpregs co-bonded to thermoplastics</i> by Ozan Erartsin, UTwente, Netherlands 	<ul style="list-style-type: none"> • <i>Digital knowledge-transfer of manufacturing defects in compositeparts</i> by Lucas Wittchen, RWTH Aachen, Germany • <i>AI-based and IIoT production scheduling drive advanced manufacturing agility in the new normal</i> by Avnar Ben Bassat, Plataine, USA • <i>Development of an analytical model to predict storage modulus with four independent parameters</i> by Esha Esha, Leibniz IVW, Germany • <i>3D Shape Estimation of a Doubly Curved Aft Fuselage Panels using Inverse Finite Element Method</i> by Mohammad Abdollahzadeh, Sabanci University, Turkey • <i>Rapid determination of suitable reinforcement type in continuous-fibre-reinforced composites for multiple load cases</i> by Dominik Dörr, Simutence, Germany • <i>Machine vision for the assesment of composite production quality</i> by Oliver Döbrich, FHNW, Switzerland • <i>Design for automation: lessons from a high rate development project</i> by Jamie Snudden, Airborne, UK • <i>A numerical framework to quantify the influence of the material behavior of dry textiles on the preform quality</i> by David Colin, TU München, Germany • <i>Validation of an efficient viscosity characterization in sheet molding compound filling simulation</i> by Julia Imbsweiler, TU München, Germany • <i>Simulating the Induction Heating of Stiffened Thermoplastic Composites</i> by Milan Mitrovic, Collins Aerospace, USA • <i>Numerical predictionof transverse responseof continuous G/PP composites using viscoelastic model: effect of strain rate</i> by Senem Aktas, UTwente, Netherlands
SUSTAINABILITY	TESTING	JOINING & BONDING	
<ul style="list-style-type: none"> • <i>Upcycling waste plastics in continuous fibre reinforced composites</i> by Ilse Ten Bruggecat, TPAC / Saxion University of Applied Sciences, Netherlands • <i>An energy efficient production technology for the recycling of thermoplastic tape into a new semi-finished product for further use</i> by Martin Schwane, Fraunhofer IPT, Germany • <i>Automation of composite repairs: the sanding and stepped lap, material removal processes</i> by Maaik Borst, Amsterdam University of Applied Sciences, Netherlands • <i>Influence of hygrothermal ageing on powder epoxy composites for tidal turbine blades</i> by Christoph Floreani, University of Edinburgh, UK • <i>Novel methods for composites recycling via pyrolysis</i> by Matt Jacobs, Brigham Young University, USA 	<ul style="list-style-type: none"> • <i>Impact testing of a composite ground interface plate</i> by Andrew Littlefield, US Army DEVCOM AC Benét Labs, USA • <i>Challenges of shear characterization in the bias extension test of fibrefreinforced thermoplastics</i> by Jasmin Graef, Siegen University, Germany <p><i>Mechanical properties of aligned discontinuous natural fibre epoxy composites produced by the hiperdif method</i> by Ali Kandermir, University of Bristol, UK</p> <ul style="list-style-type: none"> • <i>Method for efficient evaluation of cooling strategies on chip transport quality in drilling CFRP/aluminium-stacks</i> by Fabian Kneubühler, IWF ETH Zürich, Switzerland 	<ul style="list-style-type: none"> • <i>Bonding of adhesive-free thermoplastic sandwich panels with honeycomb core for aircraft interiors</i> by Temuri Latsuzbaya, Stuttgart University / Diehl Aviation, Germany • <i>Manufacturing of lightweight sandwich foam with optimized bending properties in a hot press process</i> by Maximilian Salmins, Leibniz IVW, Germany • <i>Dynamic behavior of adhesively bonded lap joints with similar and dissimilar adherends</i> by German Reyes-Villanueva, University of Michigan-Dearborn, USA • <i>Manufacturing and flame retardancy modification of mono-matrix sandwich components</i> by Sacha Kilian, Fraunhofer ICT, Germany • <i>Ratcheting and recovery of adhesives under tensile cyclic loading</i> by Lloyd Smith, Washington State University, USA • <i>Measurement of the "green strength" of paste adhesives for wind energy rotor blades</i> by Markus Zogg, Inspire, Switzerland • <i>Storage-stable, fiberreinforced adhesive films</i> by Raphael Schaller, Nolax, Switzerland 	

36TH STUDENTS SEMINAR 2021

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8.00 - 8.30

Registration

8.30 - 10.00

Session 2 - 5 talks

Room 1

INNOVATIVE MATERIALS

Session chair: *To be announced*

- *Novel Styrene-free high temperature BMC materials based on cyanate ester resins* by Gaetano La Delfa, Lonza Solutions, Switzerland
- *Efficient method for quality assessment in drilling CFRP based on digital images* by Lukas Seeholzer, IWF ETH Zürich, Switzerland
- *Net shape ceramic matrix components produced by composite flow moulding* by Alberto Ortona, SUPSI, Switzerland
- *Electrical insulation of composites for power grids applications* by Rudi Velthuis, Hitachi ABB Power Grids, Switzerland
- *High Performance Compression Molding* by Jérôme Aubry & Xavier Danger, Composites Busch, Switzerland

Room 2

ADDITIVE MANUFACTURING I

Session chair: **Dipa Roy, University of Edinburgh, UK**

- *Design and additive manufacturing of an aerospace composite fitting using DED technology* by Damien Sireude, STELIA Aerospace, France
- *Production of continuous fiber-reinforced 3D-printing filaments using ultrasound* by Maik Titze, DLR, Germany
- *Investigations into fatigue behavior of 3D printed continuous carbon fiber reinforced Polymer (CFRP) tension straps* by Giovanni Terrasi, EMPA, Switzerland
- *Continuous fibre reinforced thermoplastics for additive manufacturing* by Anataole Gilliot, SUPREM, Switzerland
- *Build the impossible with SupportFree™ Metal AM technology* by Marco Fornari, CRP Meccanica, Italy

Room 3

AEROSPACE

Session chair: *To be announced, Airbus, France*

- *New Material options and their Advantages for the Future Hydrogen storage market* by Julian Lowe, Teijin Carbon Europe, Germany
- *Monolithic Z-wing cover and co-infused omega stringers with automated lamination of NCF* by Peio Olaskoaga, IDEKO, Spain
- *A smart interface for automated fibre placement* by Phil Druiff, NCC, UK
- *The Airtech Development Process for Large Scale Additive* by Zach Skelton & Greg Haye, Airtech, Luxembourg
- *The A320 RTM Spoiler journey* by Antoine Vierset, Coexpair, Belgium & Stephen Brown, Aerosystems, Italy

Room 4

MODELING & TESTING I

Session chair: **Prof. Klaus Drechsler, TU München, Germany**

- *Explainable AI for error detection in composites: knowledge discovery in artificial neuronal networks* by Florian Brillowski, RWTH Aachen, Germany
- *A digital twin for estimating process quality during automated fiber placement of thermoplastic composites* by Malena Schulz, Fraunhofer IPT, Germany
- *Design, modelling and manufacturing of variable-axial composite structural guide vane for a jet engine intermediate case in the a context of industry 4.0* by Sebastian Spitzer, TU Dresden, Germany
- *Reinforcement by Thermoforming: Simulation of a complex multistage thermoform process* by Thomas Stefani, DLR, Germany
- *A novel method for the characterization of out-of-plane shear stiffness for dry carbon fiber preforms* by Dennis Blublitz, TU München, Germany

10.00 - 10.30

Coffee Break - Sponsor Exhibition & Poster Presentations

10.30 - 12.30

Session 3 - 7 talks

Room 1

SUSTAINABILITY & RECYCLING

Session chair: **Prof. Aart van Vuure, Leuven University, Belgium**

- *Use of construction waste in wood fibre composites* by Marco Del Vecchio, TPAC / Saxion University of Applied Sciences, Netherlands
- *Investigation of a new inductive double belt press for impregnating glass fibre fabrics with recycled polyethylene terephthalate* by Philipp Wigger, RWTH Aachen, Germany
- *Systematic investigation of the critical fibre length of carbon fibre nonwoven composites* by Michael Sauer, Fraunhofer IGCV, Germany
- *Recycling of thermoset prepreg cutoffs by a material recycling process route* by Markus Zogg, Inspire, Switzerland
- *Sustainable PLA basalt tapes for future lightweight applications* by Benjamin Tillner, Fraunhofer IMWS, Germany
- *Sustainable PLA basalt tapes for future lightweight applications* by Tim Röding, RWTH Aachen, Germany
- *Novel approach for sporting goods made of sustainable thermoplastic composites* by Dominik Stapf, IWK OST, Switzerland

Room 2

PROCESSING

Session chair: **Prof. Luigi Torre, Perugia University, Italy**

- *Design and optimization of liquid composite molding processes through a novel dimensionless number* by Claudio Di Fratta, École Polytechnique de Montréal, Canada
- *Water content in uncured epoxy matrices and its role on porosity development in autoclave curing* by Giuseppe Buccoliero, Salento University, Italy
- *System concept for human-robot collaborative draping* by Christian Eitzinger, Profactor, Austria
- *Effect of twist on braid architecture and stability* by Bethany Grimes, NCC, UK
- *Multi-parameter process window assessment of overmoulded carbon fibre thermoplastic composites* by Andres Garcia, TPRC, Netherlands
- *Title to be confirmed* by Al Ryder, Surface Generation, UK
- *High-performance pultrusion for advanced composites* by Athanasios Pouchias, Cranfield University / Brunel University, UK

Room 3

THERMOPLASTICS I

Session chair: **Thermoplastics I, Arnt Offringa, GKN Fokker Aerospace**

- *Development of a thermoplastic composite wing rib for high-rate production* by Marco Koetsier, GKN Fokker, Netherlands
- *Thermoplastic compression resin transfer moulding for industrial applications* by Vincent Werlen, FHNW, Switzerland
- *Experimental study on the impact dent depth relaxation of thermoplastic and thermoset composites* by Florian Schimmer, Leibniz IWV, Germany
- *Injection moulding with tape-reinforced edge layers* by Philipp Zahner, IWK OST, Switzerland
- *Investigation of the friction behaviour of spread carbon fibretows with reactive binder* by Michael Liebl, Stuttgart University, Germany
- *Technology development towards induction welding of a UD-PEKK tail section with stiffeners* by Senne Sterk, NLR, Netherlands
- *An impregnation-free value chain for large thermoplastic matrix composites* by Christoph Schneeberger, Antefil Composite Tech, Switzerland

Room 4

MODELING & TESTING II

Session chair: *To be announced*

- *Analysis of characterisation methods for the forming behaviour of tape-based laminates* by Max Ophuels, RWTH Aachen, Germany
- *Compressibility and relaxation characteristics of bindered non-crimp-fabrics under temperature influence* by Marcel Bender, Montana University Leoben, Austria
- *Macro and Microscale Formability Characterization of Stretch Broken Carbon Fibre Composite* by Matt Egloff, Montana State University, USA
- *Towards faster fe-calibration via advanced measurement techniques* by Christoph David, DLR, Germany

SANDWICH AND HYBRID

Session chair: **Prof. Jyrki Vuorinen, Tampere University, Finland**

- *Electrical and mechanical behaviour of copper tufted CFRP composite joints* by Mehdi Asareh, Cranfield University / Brunel University, UK
- *Novel thin core materials enabling innovative micro-sandwiches* by Samuele Laffranchini, 3A Composites CORE MATERIALS, Switzerland
- *Flame retardant modified rigid epoxy foams produced by an innovative process approach using CO₂ as blowing agent* by Simon Kaysser, CompriseTec, Germany

8.50 - 12.50

Partner Program
Zurich-Walk in the Morning guided by Urs Meier, SAMPE Fellow

Start at TRAF0 8.50. Short walk to Baden Station for departure by train to Zurich Main Station. Driving uphill to ETH by tramway.

View over the city and short explanations about the history of Zurich. A glimpse into the old main building of the university, walk through the park downwards to the historic old town. Short visit of the places where Lenin lived and Dadaism was founded. Going along the Grossmunster, crossing the Munster Brige and admiring the large glass windows of Marc Chagall in the Fraumunster Church. Climbing up to Lindenhof where the first Roman settlement existed. Again down to the main shopping street, the Bahnhofstrasse for departure to Baden. About 12.50 back at TRAF0 for lunch.

12.50 - 13.50

Lunch - Sponsor Exhibition & Poster Presentations

13.50 - 15.10

Session 4 - 4 talks

Room 1

ELA

Session chair: **Leendert den Haan, Hightech Zentrum Aargau, Switzerland**

- *Fully interlinked processing of thermoplastic composite tapes* by Norbert Müller, Engel Austria, Austria
- *New circular model innovative second life carbon fibre compounds* by Julian Kupski, V-Carbon, Switzerland
- *Holistic optimization of the highspeed tape lay-up process using a digital twin* by Thomas Neumeyer, Neue Materialien Bayreuth / ELA, Germany
- *Fast and Flexible manufacturing of thermoplastic composite laminates, for automotive and aerospace* by Marcus Kremers, Airborne, Netherlands

Room 2

ADDITIVE MANUFACTURING II

Session chair: *To be announced*

- *Additive manufacturing of continuous fibre-reinforced plastic components by a novel laser-sintering process* by Michael Baranowski, Karlsruhe Institute of Technology (KIT), Germany
- *Highly aligned discontinuous fibre composite filaments for fused deposition modelling: production and characterisation* by Narongkorn Krajangsawadi, University of Bristol, UK
- *Estimation-based temperature control in laser-assisted, thermoplastic automated tape placement* by Alexander Peitz, RWTH Aachen, Germany
- *Numeric optimization of in-situ consolidated panels with different tape sequence strategies* by Daniel Fricke, DLR, Germany

Room 3

THERMOPLASTICS II

Session chair: **Guy Larnac, Ariane Group, France**

- *In situ polymerisation on glass filaments during the manufacturing process* by Markus Haag, RWTH Aachen, Germany
- *Heat transfer analysis of flashlamp heating for automated tape placement* by Anastasios Danezis, Cranfield University, UK
- *In- and off-line NDT in automated in-situ consolidation tape layup* by Neha Yadav, Montana University Leoben, Austria
- *Thermoplastic fuselage with an innovative welding solution (ISW)* by Pierre Magnin, STELIA Aerospace, France

Room 4

HYFISYN

Session chair: *To be announced*

- *Improving flexural modulus of interleaved composites using reinforced thermoplastic interleaves* by Gokul Ganesh Murali, Imperial College London, UK
- *Interlayer hybridisation of self-reinforced polypropylene with unidirectional flax reinforcements* by Paul Woody, Sioen Industries / KU Leuven, Belgium
- *Graphene coated carbon fibres as structural supercapacitor electrodes* by Olivier Hubert, University of Vienna, Austria

15.10 - 15.30

Coffee Break - Sponsor Exhibition & Poster Presentations

15.30 - 16.50

Session 5 - 4 talks

Room 1

INDUSTRIAL INNOVATION

Session chair: **Victor Shulepov, UkrRIAT, Ukraine**

- *Enabling stereolithography to manufacture injection moulds for high-performance fibre-reinforced thermoplastics for aircraft applications* by Sönke Detjen, CompriseTec, Germany
- *Inline Quality Control for Thermoplastic Automated Fiber Placement by 3D Profilometry* by Alfons Schuster, DLR, Germany
- *Development of Optimization Tool for Induction Heating Coils for Thermoplastic Composites* by Milan Mitrovic, Collins Aerospace, USA
- *Investigation of the shear strength of partially impregnated fibre reinforced polymers* by Varan Urundolil, Inspire, Switzerland

Room 2

ADDITIVE MANUFACTURING III

Session chair: **Prof. Andrew Mills, Cranfield University, UK**

- *Lightweight structural components by continuous fiber additive manufacturing* by Tessa Ten Cate, Brightlands Materials Center, Netherlands
- *Reinforcement of stereolithographic manufactured structures by the subsequent infusion of short carbon fibers* by Tristan Schlotthauer, Stuttgart University, Germany
- *Application of additive manufacturing for the production of multi-matrix composites* by Simon Konze, Leibniz Institute of Polymer Research Dresden, Germany
- *Identification of a film to seal the preform impregnation during the compression resin transfer molding process* by Swen Zarembo, TU München, Germany

Room 3

CIVIL AND MARINE ENGINEERING

Session chair: **Prof. Urs Meier, EMPA, Switzerland**

- *Effect of moisture on debonding of concrete-epoxy interface in FRP strengthened beams* by Oral Buyukozturk, MIT CEE, USA
- *Prospects of fibre-polymer composites for bending-active engineering structures* by Thomas Keller, EPFL-CCLab, Switzerland
- *Durability investigation of fiber reinforced polymer bars in marine environments* by Guijun Xian, Harbin Institute of Technology, China
- *Investigation of an innovative wood-plastic hybrid laid fabric for the replacement of steel reinforcements in constructions* by Jonas Herz, TH Rosenheim, Germany

16.50 - 17.30

Farewell drink

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TABLE TOPS BADEN/ZÜRICH

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