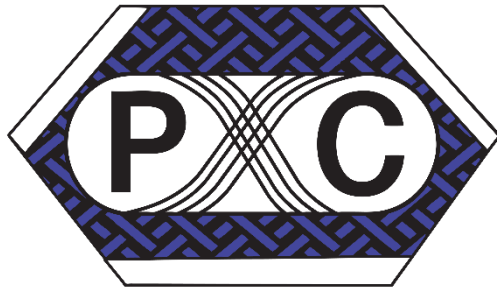


POLYMER COMPOSITES 2025



PROGRAMME

**May 27 – 28, 2025
Tábor, Czech Republic**

**ASSOCIATION FOR TECHNICAL SUPPORT
AND PROMOTION OF POLYMER COMPOSITES**

organizes in cooperation with

**CZECH TECHNICAL UNIVERSITY IN PRAGUE,
FACULTY OF MECHANICAL ENGINEERING**

and

**CZECH SOCIETY FOR MECHANICS,
expert group
MECHANICS OF COMPOSITE MATERIALS AND SYSTEMS**

the international conference

POLYMER COMPOSITES 2025

**The conference is organized under the auspices
of the Mayor of Tábor Ing. Štěpán Pavlík.**

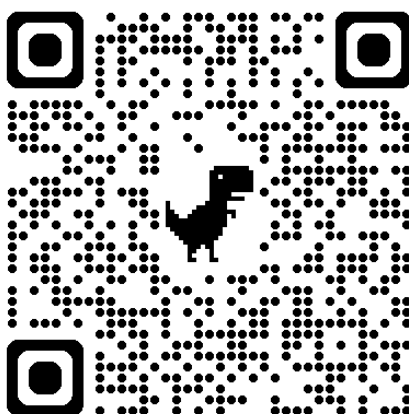
The aim of the Conference is to enable specialists from research and industry to present actual knowledge and trends in research and development, analyses, materials, technology, manufacturing, and applications of composite materials.



O E L C O M P O S I T E S

Organization and program committee of Polymer Composites 2025 conference

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Detailed information:

<https://polymer-composites.cz/polymerni-kompozity-2025/>

CONFERENCE PROGRAMME

Tuesday, May 27, 2025

8:30 – 10:00 Registration

10:00 Opening and welcome
Štěpán Pavlík, Radek Sedláček

10:15 – 11:20 Section 1
Chairmen: Zdeněk Padovec, Radek Sedláček

10:15 – 11:00 Plenary lecture
Fatigue life of additively manufactured polymer materials
Pavel Hutař, et al., *IPM Brno, Brno, Czech Republic.*

11:00 – 11:20
Insight Into Composite Materials Through Thermal and Mechanical Analysis
Jaroslav Kolečka, *Pragolab, s.r.o., Brno, Czech Republic.*

11:20 – 12:20 Section 2: ANALYSIS AND DESIGN
Chairmen: Josef Křena, Zdeněk Padovec

11:20 – 11:40
Creation and verification of material models of composite panels and their use in the CAFICO project (TM03000010)
Antonín Potěšil, et al., *LENAM s.r.o., Liberec, Czech Republic.*

11:40 – 12:00
Radome with thermoplastic PMMA matrix
Josef Křena, et al., *VZLU AEROSPACE, a.s., Prague, Czech Republic.*

12:00 – 12:20
Analysis of composite bicycle saddle rails failure using numerical simulations
Jan Himmel, *Technical University of Liberec, Liberec, Czech Republic.*

12:20 – 13:40 Lunch break

13:40 – 15:20 Section 3: TECHNOLOGY AND APPLICATION (Part 1)
Chairmen: Richard Moravec, Marek Ščerba

13:40 – 14:00
Sustainable bonding with 1 and 2 component adhesives! – Sustainable Ecological optimization of the carbon footprint along the value chain of bonding with Acralock and MLock MMA and Acrylate based Structural and Engineering adhesives.
Christof Mayer, *Mayer & Mayer HandelsgmbH, Markt Allhau, Austria.*

14:00 – 14:20

Saertex contribution to the sustainability

Marek Ščerba, *SAERTEX GmbH & Co. KG, Saerbeck, Germany.*

14:20 – 14:40

Krauss Maffei technology for composite materials processing

Fredrik Su, *KraussMaffei, Munich, Germany.*

14:40 – 15:00

Innovative manufacturing of strength structures using the TFP method

František István, *Carbonlaying, s.r.o., Řevnice, Czech Republic.*

15:00 – 15:20

Pultrusion technology

Bronislav Foller, *FOLLER, s.r.o., Brno, Czech Republic.*

15:20 – 16:00 Coffee break

16:00 – 17:00 Section 4: TECHNOLOGY AND APPLICATION (Part 2)

Chairmen: Richard Moravec, Marek Ščerba

16:00 – 16:20

Biesterfeld product portfolio with a focus on sustainable materials

Boris Lochman, *Biesterfeld Silcom s.r.o., Prague, Czech Republic.*

16:20 – 16:40

Polyester, vinyl ester and epoxy systems for RTM/Infusion from the Sarzyna Chemicals portfolio – comparison and application possibilities

Mojmír Knápek, Szymon Szpak, *Composites for Czech s.r.o., Prague, Czech Republic.*

16:40 – 17:00

History and development of particle and fiber composites at ACO Group

Radek Kottner, *ACO Industries Tábor s.r.o., Sezimovo Ústí, Czech Republic.*

17:00 Poster section

19:00 Social evening with gala dinner

Wednesday, May 28, 2025

9:00 – 11:00 Section 5: MATERIALS, PROPERTIES, TESTING

Chairman: Eva Nezbedová, František Socha

9:00 – 9:20

Improved tensile and microindentation properties of fully biobased short-fibre reinforced composites based on polybutylene succinate and different natural fibres

Ralf Lach, et al., *PSM Merseburg e.V., Merseburg, Germany.*

9:20 – 9:40

Applicability of natural long fibre composites

Jan Zouhar, *Brno University of Technology, Brno, Czech Republic.*

9:40 – 10:00

Composite Blade for High-Frequency Flutter Measurements

Václav Vomáčko, *VÚTS, a.s., Liberec, Czech Republic.*

10:00 – 10:20

Composite Sandwich Panels for High Ballistic and Explosion Resistance

Alexandre Perrot, *SYNPO a.s., Pardubice, Czech Republic.*

10:20 – 10:40

The effect of prestressing on mechanical properties of unidirectional carbon epoxy laminate composites

Raphael Olabanji Ogunleye, *Tomas Bata University in Zlín, Zlín, Czech Republic.*

10:40 – 11:00

Development of Composite Tank with Bonded Domes for Water Treatment Application

Zdeněk Padovec, *CTU in Prague, Prague, Czech Republic.*

11:00 Conference closing

11:30 – 12:30 Lunch

13:00

**Possibility of excursion to ACO Industries Tábor
(GRP, rotomoulding, PE and PP welding)**

Transport by your own way (15 minutes by car), time requirement approx. 1 hour. More info on site.

POSTER SECTION

17:00

Tuesday, May 27, 2025

The strain rate sensitivity of Polylactic acid (CR-PLA) polymer: an experimental investigation

Silas Gebrehiwot, et al., *Arcada University of Applied Sciences, Helsinki, Finland.*

Modal analysis of functionally oriented fabric laminate with 10 mm wide carbon strips and a 30 mm circular notch

Radek Zbončák, *VÚTS, a.s., Liberec, Czech Republic.*

Development of infusion technology for thermoplastic composites with PMMA matrix

Jana Zemanová, *VZLU AEROSPACE, a.s., Prague, Czech Republic.*

Study of tool geometry changes during machining of fiber-reinforced carbon composites

Tomáš Knápek, *Technical University of Liberec, Liberec, Czech Republic.*

Rheological evaluation of the behavior of carbon nanotubes in polyethylene-based composites

Zdeněk Starý, et al., *IMC CAS, Prague, Czech Republic.*

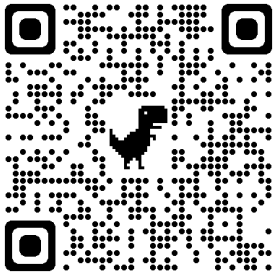
Research on the machinability of biocomposite materials produced by the SCM method

Martin Váňa, *Technical University of Liberec, Liberec, Czech Republic.*

ORGANIZATION HINTS

Date: May 27 – 28, 2025

Place:



LH Hotel Dvořák Tábor Congress & Wellness

Hradební 3037,
Tábor 390 01

tel.: +420 381 212 221

e-mail: recepce@lhdvoraktabor.cz

www: lhdvoraktabor.cz

Conference languages: Czech, Slovak and English

Accommodation:

Accommodation is provided at the LH Hotel Dvořák in Tábor (lhdvoraktabor.cz). Accommodation is not included in the participation fee.

Participation fee includes:

- Conference proceedings
- Drinks and lunch during breaks
- Social evening with gala dinner



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Peel Plies

- From polyester and nylon with a plain and twill weave, manufactured in the Czech Republic
- Width: from 0,02 m to 1,6 m
- Variants: washed thermo-fixed or unwashed
- Standard roll length: 100 m up to 400 m on the roll
- Our peel plies are cut to a diameter from 0,02 m and have thermo-fixed edges



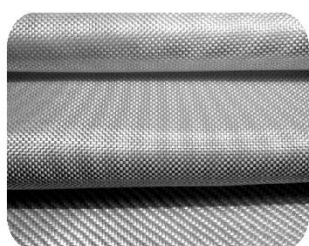
Bleeders & Breathers

- A range of polyester and polypropylene breather and bleeder fabrics, manufactured in the Czech Republic
- Fabric weight: from 80 g/m² to 600 g/m²
- Standard width: 1,0 m and 1,52 m up to 6 m
- Cutting width: from 0,05 m
- Roll length: 25 m to 100 m depending on fabric density



Vacuum & Release Films

- A range of release films and vacuum bagging films from nylon, polyethylene, mono or multi layer
- Films available as: tube, half tube or sheet, perforated or unperforated and different colours
- Thickness: from 0,02 mm – 0,08 mm
- Roll width: from 0,30 m to 4,00 m depending on the film



Glass fiber Fabrics

- A range of glass fibre fabrics in plain and twill weave
- Weight: from 80 g/m² to 420 g/m²
- Standard width: 100 cm

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