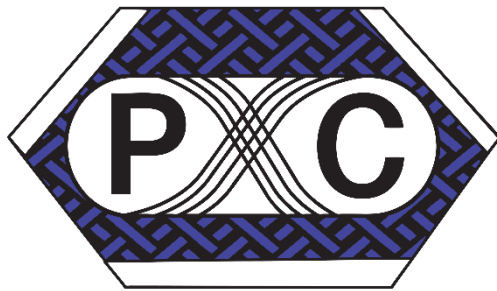


**POLYMER  
COMPOSITES  
2023**



**PROGRAMME**

**May 24 – 25, 2023  
Tábor, Czech Republic**

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

organizes in cooperation with

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

and

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

the international conference

# **POLYMER COMPOSITES 2023**

**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.



## Organization and program committee of Polymer Composites 2023 conference

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Detailed information:

<https://polymer-composites.cz/en/polymerni-kompozity-2023/>

# CONFERENCE PROGRAMME

Wednesday, May 24, 2023

**9:00 – 10:30**      **Registration**

**10:45**              **Opening and welcome**

**11:00 – 11:45**    **Plenary lecture**

**Composite Materials with Nanofibers**

Kuželová Košťáková, E., *TU of Liberec, Liberec, Czech Republic.*

**12:00 – 13:30**    **Lunch break**

**13:30 – 15:10**    **Section: ANALYSIS AND DESIGN**

**Chairmen:** Josef Křena, Zdeněk Padovec

**Viscoelastic Description of Polymer Interlayer of Laminated Glass by Fractional Viscoelasticity**

Šejnoha, M., et al., *CTU in Prague, Prague, Czech Republic.*

**Contribution to the Construction of Viscoelastic Material Models of Polymer Composites for CAE Simulations**

Potěšil, A., et al, *LENAM, s.r.o., Liberec, Czech Republic.*

**Design, Construction and Testing of Door Panel for Aircraft**

Křena, J., et al., *LATECOERE Czech Republic, s.r.o., Prague, Czech Republic.*

**CAE Simulation for Development and Production of Plastic Parts**

Čurda, T., *Advanced Engineering, s.r.o., Prague, Czech Republic.*

Sůva, P., *Plasty Gabriel, s.r.o., Moravské Knínice, Czech Republic.*

**Lattice Discrete Particle Model for Particulate Polymers**

Vorel, J., et al., *CTU in Prague, Prague, Czech Republic.*

**15:15 – 15:45**    **Coffee break**

**15:45 – 17:25**    **Section: TECHNOLOGY AND APPLICATION**

**Chairmen:** Richard Moravec, Marek Ščerba

**Benefits of Composite Materials in Machine Tool Construction**

Růžička, M., et al., *CTU in Prague, Prague, Czech Republic.*

**Technologies Used in ACO Tábor**

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

**Precision and Dimensional Stability of Bonded Joints of CFRP Parts**

Kupčák, R., Zouhar, J., Gregor, L., *BUT in Brno, Brno, Czech Republic.*

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**RETEX – Presentation of the Company’s Possibilities for the Composite Industry**

Včeliš, D., *RETEX a.s., Moravský Krumlov, Czech Republic.*

**The Range of Products for the Manufacturing of Composites and Modeling Materials from the Biesterfeld Silcom s.r.o., Innovations in the Range of Prepregs from the Solvay Company**

Krb, M., Vondra, A., *Biesterfeld Silcom, Prague, Czech Republic.*

**17:30                      Poster section**

**19:00                      Social evening with dinner in hotel restaurant La Cave**

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**Thursday, May 25, 2023**

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**9:00 – 10:20**      **Section: MATERIALS, PROPERTIES, TESTING (part 1)**  
**Chairman:** Eva Nezbedová

**New Generation of Sandwich Panels for Ballistic Resistance FB1 – FB4**  
Perrot, A., et al., *SYNPO a.s., Pardubice, Czech Republic.*

**Morphology and Performance of Natural Fibre-reinforced and Biobased-filled Polymer Materials**

Lach, R., et al, *Polymer Service GmbH, Merseburg, Germany.*

**Flax Multiaxial Fabrics – Saertex Development of Sustainable Composites**

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

**Tensile Test of Composite Using Digital Image Correlation**

Gregor, L., *BUT in Brno, Brno, Czech Republic.*

**10:30 – 11:00**      **Coffee break**

**11:00 – 12:00**      **Section: MATERIALS, PROPERTIES, TESTING (part 2)**  
**Chairman:** Eva Nezbedová

**Thermal and Mechanical Analysis of Composite Materials**

Kolejka, J., *Waters, GmbH, Prague, Czech Republic.*

**Sizing Matters – The secret of JM Neomera® Organosheets**

Lewandowski, V., *Biesterfeld Spezialchemie GmbH, Hamburg, Germany.*

**ENF and DCB Tests for Bonded Joints**

Padovec, Z., et al., *CTU in Prague, Prague, Czech Republic.*

**12:00 – 12:15**      **Close of the conference**

**12:30 – 14:00**      **Lunch break**

## POSTER SECTION

17:00

Wednesday, May 24, 2023

**Influence of the Strength of Polyethylene with Glass Fibers by Preparation Technology and Plasma Treatment**

Sezemský, J., et al, *CTU in Prague, Prague, Czech Republic.*

**RETEX – Presentation of the Company's Possibilities for the Composite Industry**

Včeliš, D., *RETEX a.s., Moravský Krumlov, Czech Republic.*

**Development of New Composite Materials Based on Thermoplastic Matrix and Long Fiber Reinforcement Using Infusion Technology**

Zemanová, J., *CARC a.s., Prague, Czech Republic.*



## ORGANIZATION HINTS

**Date:** May 23 – 24, 2023

**Place:**



**LH Hotel Dvořák Tábor Congress & Wellness**

Hradební 3037,

Tábor 390 01

tel.: +420 381 212 221

e-mail: [recepce@lhdvoraktabor.cz](mailto:recepce@lhdvoraktabor.cz)

www: [lhdvoraktabor.cz](http://lhdvoraktabor.cz)

**Conference languages:** Czech, Slovak and English

**Accommodation:**

Accommodation isn't paid from the participation fee. Accommodation is provided at the LH Hotel Dvořák in Tábor ([lhdvoraktabor.cz](http://lhdvoraktabor.cz)). However, participants are asked to order the overnight directly in this hotel themselves with the use of promo code **PC2023**.

**Participation fee includes:**

- Conference proceedings
- Drinks and lunch during breaks
- Evening party



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