



TECHNICAL UNIVERSITY IN ZVOLEN
1952 – 2022

**TECHNICAL UNIVERSITY IN ZVOLENE
FACULTY OF WOOD SCIENCES AND TECHNOLOGY
AND
WOOD CONGRESS MEMBER ZSVTS – THE ASSOCIATION OF SLOVAK SCIENTIFIC AND
TECHNOLOGICAL SOCIETIES**

XIII. MEDZINÁRODNÁ VEDECKÁ KONFERENCIA

THE 13th INTERNATIONAL SCIENTIFIC CONFERENCE

TRIESKOVÉ A BEZTRIESKOVÉ OBRÁBANIE DREVA 2022

CHIP AND CHIPLESS WOODWORKING PROCESSES 2022



September 15–17, 2022

Hotel *** SOREA URÁN
Tatranská Lomnica

GPS: E 20° 16' 30" N 49° 09' 51"



PROGRAM KONFERENCIE CONFERENCE PROGRAMME



Streda/Wednesday – 14.9.2022 – Hotel SOREA Urán - Check-in – from 2 pm

17⁰⁰ – 18⁰⁰ Registrácia/Registration
17³⁰ – 20⁰⁰ Večera/Dinner – Hotel SOREA Urán

Štvrtok/Thursday – 15.9.2022 – Hotel SOREA Urán

8³⁰ – 10⁰⁰ Registrácia/Registration
10⁰⁰ – 10¹⁵ Otvorenie/Opening
10¹⁵ – 10³⁰ Coffee break
10³⁰ – 12⁰⁰ Section I.: Delenie a obrábanie dreva/Woodcutting and Woodworking – I. part

Predseda júci/Chairmen: Dr.h.c. prof. Dr. Sc. V. GOGLIA – dr. hab. eng. G. KOWALUK

CHUCHALA Daniel – KARPINSKA Sandra – SUCHTA Aleksandra – ORLOWSKI Kazimierz A.: Preliminary studies on the effect of feed speed on the colour change of wood

KWIDZIŃSKI Zdzisław – DREWZYŃSKI Marcin – ROGOZIŃSKI Tomasz – PĘDZIK Marta: Energy efficiency in mass customized production of wooden doors

KOCZAN Grzegorz Marcin – KOZAKIEWICZ Paweł: Rectangular-triangular and reference trapezoidal bending models versus measurement results of three species of exotic wood

OČKAJOVÁ Alena – KUČERKA Martin – BANSKI Adrian: Sustainable manufacturing process in wood machining

ROHANOVÁ Alena: The influence false heartwood on the quality of beech structural timber

WRONKA Anita: Progress in research on the circular economy of wood-based composites

12⁰⁰ – 13³⁰ Obed/Lunch – Hotel SOREA Urán
13³⁰ – 14⁰⁰ AREKO prezentácia firmy / presentation of the company

Štvrtok/Thursday – 15.9.2022 – Hotel SOREA Urán

14⁰⁰ – 15³⁰ Section I.: Delenie a obrábanie dreva/Woodcutting and Woodworking – II. Part

Predseda júci/Chairmen: prof. Dr. Sc., Eng. K. A. ORLOWSKI – doc. Ing. Z. KOPECKÝ, CSc.

STENKA Dawid – ORLOWSKI Kazimierz A. – CHUCHALA Daniel: Overall set of bandsaw teeth versus methods of measurements

HORTOBÁGYI Áron – KOLEDA Peter – KMINIAK Richard: Workpiece gripper vibration measurement for nesting milling

PAŁUBICKI Bartosz – ORLIKOWSKI Dariusz – JARECKI Witold – WIADEREK Krzysztof – MATWIEJ Łukasz – WIERUSZEWSKI Marek: Provenance dependent optimization of Pine timber processing in wooden bad frame production

JÚDA Martin – ŠUSTEK Ján – KRIŠŤÁK Ľuboš: Granulometric characteristics of MDF and particleboard by varying technological parameter feed speed using a CNC milling router

KOLEDA Pavol – HRČKOVÁ Mária: Sawdust analysis using Matlab

DUDIÁK Michal – BANSKI Adrián: Density of heartwood and sapwood beech wood

KOVATCHEV Georgi – ATANASOV Valentin – RADKOVA Izabela: Influence of mechanical oscillations on the accuracy of making grooves in solid wood

15³⁰ – 16⁰⁰ **Prestávka/Coffee break**

Štvrtok/Thursday – 15.9.2022 – Hotel SOREA Urán

16⁰⁰ – 18⁰⁰ **Postery – Panelová diskusia I./Posters I.**

BARLAK Marek – WILKOWSKI Jacek: Wettability of nitrogen-implanted WC-Co indexable knives used for wood materials machining

HANINCOVÁ Luďka – VRÁBLÍK Michal – KOPECKÝ Zdeněk – NOVÁK Vít – ROGOZIŃSKI Tomasz:
Change of cutting parameters and their influence on the particle size distribution when sanding thermally modified material

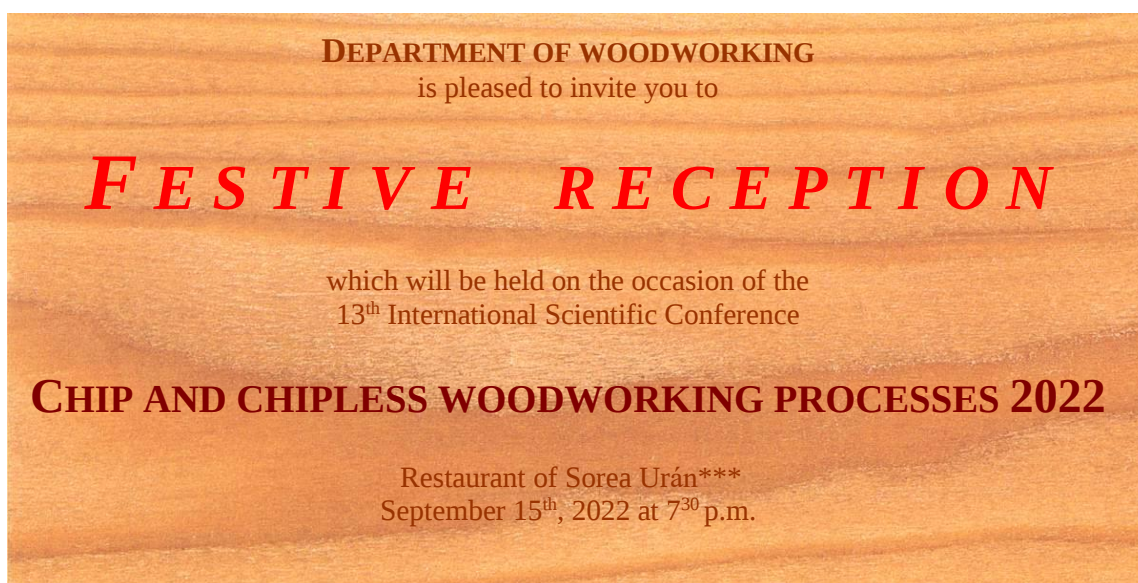
HRISTODOROVA Desislava – STANEVA Nelly – GENCHEV Yanchu: Static analysis of an upholstered furniture skeleton at heavy-service load by FEM

VITCHEV Pavlin – GOCHEV Zhivko – HALIM Engindzhan: Milling of plywood with a shaper origin handheld CNC

WILKOWSKI Jacek – BARLAK Marek: Secondary structure induced during particleboard machining on surface of ion-implanted WC-Co tool

WIELOCH Grzegorz – SZYMANOWSKI Karol: The condition of the edges of the board laminated after the band saw or circular saw

19³⁰ **SLÁVNOSTNÁ RECEPCIA/ FESTIVE RECEPTION**



Piatok/Friday – 16. 9. 2022 – Hotel SOREA Urán

10⁰⁰ – 11³⁰ Section II. Termická úprava dreva/Thermal Treatment of Wood – III. Part

Predsedajúci/Chairmen: prof. Ing. J. SEDLIAČIK, PhD. – prof. Ing. L. DZURENDA, PhD.

BORYSIUK Piotr – AURIGA Radosław: Thickness Swelling and water absorption of PLA-based composites filled with bark

RAJKO Ľubomír – KOLEDA Peter – BARCÍK Štefan – GOGLIA Vlado: Effect of hydrothermal treatment on surface quality of beech wood after plane milling

DZURENDA Ladislav: Granulometric composition of chip from the process of machining steamed and unmammmed beech wood on the CNC machining center

KLEMENT Ivan – VILKOVSKÝ Peter – VILKOVSKÁ Tatiana – BARAŇSKI Jacek – SUCHTA Aleksandra: Effect of press drying on dimension stability and density of beech wood

KUČERKA Martin – OČKAJOVÁ Alena – KMINIAK Richard: Influence of heat treatment of Wood on chip size during milling

GOCHEV Zhivko – VITCHEV Pavlin: The effect of CO₂ laser engraving on the colour modifications of birch plywood in different modes of use

DELIISKI Nencho – DZURENDA Ladislav – VITCHEV Pavlin – TUMBARKOVA Natalia – ANGESKI Dimitar: Change in the energy for warming up of wooden prisms during autoclave steaming at dispatching interferences in production of veneer

SEDLIAČIK Ján – JURKOVIČ Peter – NOVÁK Igor – Igor KRUPA – MATYAŠOVSKÝ Ján: Evaluation of properties of date palm wood composites with polyolefin.

11³⁰ – 12⁰⁰ ALICONA, KEYENCE prezentácia firmy/presentation of the company

12⁰⁰ – 13³⁰ Obed/Lunch – Hotel SOREA Urán

13³⁰ – 15⁰⁰ Postery – Panelová diskusia II./Posters II.

BANSKI Adrian – DZURENDA Ladislav: Energy consumption of hot air drying of birch lumber in chamber dryers without changing the color of the wood.

DZURENDA Ladislav – BANSKI Adrian – DUDIÁK Michal: Influence of uv radiation on color stability of natural and thermally treated beech wood with saturated water steam

DUDIÁK Michal: Acidity (Ph) of thermally treated birch wood

MATYAŠOVSKÝ Ján – SEDLIAČIK Ján – NOVÁK Igor – JURKOVIČ Peter – DUCHOVIČ Peter: Wood-beech panels with low formaldehyde emission

JURKOVIČ Peter – SEDLIAČIK Ján – NOVÁK Igor – MATYAŠOVSKÝ Ján – KLEINOVÁ Angela: Study of maple wood modified by saturated water steam

15⁰⁰ Ukončenie XIII. MVK – Trieskové a beztrieskové obrábanie dreva 2022/Closing of Conference

15⁰⁰ – 21⁰⁰ Wellness–Hotel SOREA Urán – jeden vstup voľný, každý ďalší 9€/one entry free, each additional 9€

17³⁰ – 20⁰⁰ Večera/Dinner – Hotel SOREA Urán

20⁰⁰ Neformálne priateľské posedenie/Friendly get-together – Hotel SOREA Urán

Sobota/Saturday – 17.9.2022

9⁰⁰ – 12⁰⁰

Skalnaté pleso (cableway) alebo/or Zamkovského chata alebo/or Belianska jaskyňa

<http://www.vysoketatry.com/ciele/skpleso/skpleso.html>

<http://www.zamka.sk/>

<http://www.ssj.sk/sk/jaskyna/2-belianska-jaskyna>



Hotel * SOREA URÁN**

059 60, Tatranská Lomnica GPS: E 20° 16' 30" N 49° 09' 51"

<https://goo.gl/maps/ZxUUPXdJLuy>

<http://www.sorea.sk/vysoke-tatry/hotel-sorea-uran/>

