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## **THE ISSUES OF WOOD PROCESSING ON THE 7<sup>th</sup> INTERNATIONAL SCIENCE CONFERENCE “CHIP AND CHIPLESS WOODWORKING PROCESSES”**

*The 7<sup>th</sup> International Science Conference on “Chip and Chipless Woodworking Processes” was organised on 9-11 September 2010 in Terchova, Slovakia, by the Department of Woodworking at the Faculty of Wood Sciences and Technology of the Technical University in Zvolen. The aim of the Conference was to provide the specialists in science, research and pedagogy with a forum to present and discuss new knowledge and results in the field of chip and chipless woodworking processes.*

**Keywords:** woodworking, machining, wood, wood-based material, tool, conference

The rapid progress in woodworking machinery construction as well as in new and improved wood-based composite materials and modified wood has resulted in changes of typical methods of wood processing. Those issues were discussed on the 7<sup>th</sup> International Science Conference “Chip and Chipless Woodworking Processes” organised on 9-11 September 2010 in Terchova, Slovakia, by the Department of Woodworking at the Faculty of Wood Sciences and Technology of the Technical University in Zvolen. The aim of the Conference was to provide the specialists in science, research and pedagogy with a forum to present and discuss new knowledge and results in the field of chip and chipless woodworking processes. The conference agenda consisted of 3 main sections:

- mechanical woodworking,
- thermal treatment of wood,
- technical legislation in wood industry.

In the section “Mechanical woodworking” a wide-range of issues concerning technical and technological factors of processes, machine-tool interaction, as well as physical properties of chips was discussed. Chosen papers from this section encompassed: 1) “The influence of the parameters of wood based agglomerated materials cutting process by abrasive water-jet on the kerf width”,

2) "Popcornboard – chipboard modified with popcorn", 3) "Working of softwood round timber into structural timber and assessment of their quality", and 4) "Computer aided monitoring of indices for economic efficiency in woodworking enterprises".

"Thermal treatment of wood" section concerned technical and technological factors of processes and in that field the following subjects were discussed: 1) "Assessing the effect of the pressing parameters on the shape stability of water-resistant plywoods", 2) "Model for calculation of the heat consumption for heating of pit's corpus for thermal treatment of wood materials", and 3) "Potential role of biomass as a source of renewable energy in the future global energy mix and its possible impacts on the air quality".

The section titled "Technical legislation in wood industry" was devoted to risk, health aspects and safety regulations in wood industry.

In the section "Mechanical woodworking" the following two papers written by the Wood Technology Institute researchers were presented: "Influence of the raw materials parameters on the properties of the fibrous chips and particleboards" and "Investigation on drilling of the particleboards produced from fibrous chips".

The next 8<sup>th</sup> Conference will be organised in 2012.

## **PROBLEMATYKA PRZEROBU DREWNA NA 7. MIĘDZYNARODOWEJ KONFERENCJI NAUKOWEJ „CHIP AND CHIPLESS WOODWORKING PROCESSES”**

### **Streszczenie**

W dniach 9-11 września 2010 roku w Terchovej (Słowacja) odbyła się 7. Międzynarodowa Konferencja Naukowa „*Chip and Chipless Woodworking Processes*”. Organizatorem konferencji była Katedra Obróbki Drewna Wydziału Nauki o Drewnie i Technologii Uniwersytetu Technicznego w Zwoleniu (Słowacja). Celem konferencji była prezentacja wyników prac naukowych oraz naukowo-badawczych pracowników zajmujących się teoretycznymi, technicznymi oraz **technologicznymi problemami procesów wiórowej i bezwiórowej obróbki drewna**.

**Słowa kluczowe:** obróbka drewna, drewno, tworzywa drzewne, narzędzie, konferencja