

CONFERENCES

**18TH INTERNATIONAL SYMPOSIUM: „ADHESIVES IN
WOODWORKING INDUSTRY“**

The tradition of exchange of experiences about gluing of wood began at the University of Forestry and Wood Technology in Zvolen 40 years ago (1967) by organisation of „Seminary about gluing of wood and wood products“. Form of international Symposium systematically was continued by prof. Karol Eisner and prof. Milan Sedliačik in 2-year cycles since 1975. International scientific council lead prof. Pavlo Bekhta from USUFWT Lvov and prepared wide programme of lectures and presentations for XVIII. Symposium: „Adhesives in woodworking industry“, which was held in Zvolen, September 5 – 7, 2007. At the opening ceremony, vice-rector of the Technical University assoc. prof. Josef Drábek welcomed over 60 participants from 11 countries.

The only one, who took part in all initial meetings, is MSc. Miroslav Luptovský, that time he was the lecturer at the Faculty of Wood Technology. Almost 30 years he is the researcher in production of resins for composite materials in Canada. With his reach experiences, he lectured about application of adhesives at production of OSB, plywood and particleboard in Canada and USA. The most important criteria of woodworking companies is to use at least adhesive and shortening of the pressing time. The direction is to produce composite products cheaper – better – faster. New trend of the research is the exploitation of exothermic heat creating at condensation reaction of resin for shortening of the pressing time. The result has to be the board with determined density and strength.

The contents of the Symposium is dynamically adapted to new knowledge and needs, theory and practise is each other completed, as it is proved by lectured themes, we selected e.g.: prof. Łęcka from AR Poznan „The effect of esters addition on the properties of PF resin for plywood production“, prof. Belchinskaya from VGLTA Voronezh „Different types of sorbents modification and their use in varnish and glutinous compositions“, assoc. prof. Tesařová from MZLU Brno „Modern processes of gluing and their influence on the work environment“, Dr. Engström from Akzo Nobel Stockholm “Real time determination of formaldehyde emission from particleboard using NIR – spectroscopy”, prof. Niemz from ETH Zurich „Exemplary analysis of failure behaviour of glued joints at tensile shear loading“, assoc. prof. Sedliačik from TU Zvolen „Proposal of technology of gluing of carbon lamella for strengthened beams“, Dr. Iejavs from LUA Jelgava, Latvia “The influence of wood moisture content and impregnation on critical bending strength of finger-jointed spruce wood“.

Almost half of hundred scientific papers published in the Proceedings bring the view on properties of wood adhesives and their current production in the world. Several contributions are good reflection of theoretic and research activities of specialists at the Faculty of Wood Science and Technology of Technical University in Zvolen and co-operating companies.