

•8/5 (Mon) 10:45~12:00 **Tool Material and Tool Wear**

Title	Authors
Nanocomposite Ceramic Blades with Stabilizing Micro Geometries on the Cutting Edge for Engineered Wood Products	<i>Uwe Heisel , Thomas Stehle , <u>Dan Talpeanu</u> (University of Stuttgart)</i>
Effect of Tool Composition on the Wear of Carbide Tools	<i><u>Geetha Ramasamy</u> , Jegatheswaran Ratnasingam (University Putra Malaysia)</i>
Cutting Performance of U-Formed Planer Head with Coated Ultra Thin Knives	<i><u>Toru Minami</u> , Satoru Nishio (Kanefusa Corporation)</i>

•8/5 (Mon) 14:55~17:00 **Cutting Process**

Is It Right to Predict Cutting Forces on the Basis of Wood Density?	<i>Daniel Chuchala , Kazimierz Orłowski (Gdansk University of Technology) , Dušan Pauliny , Anna Sandak , <u>Jakub Sandak</u> (IVALSA/CNR Trees and Timber Institute)</i>
Revisiting the Determination of Cutting Power while Sawing of Wood with Circular Saw Blades by Means of Fracture Mechanics	<i><u>Kazimierz Orłowski</u> (Gdansk University of Technology) , Tomasz Ochrymiuk (The Szewalski Institute of Fluid-Flow Machinery)</i>
Tooling Properties of Scots Pine from Northern Europe for Value-Added Interior Products	<i><u>Erkki Verkasalo</u> , Mika Grekin (Finnish Forest Research Institute) , Simo Tikakoski (Finnish Game and Fisheries Research Institute) , Jukka Malinen (University of Eastern Finland)</i>
The Cutting of Thermally Modified Wood	<i><u>Christian Gottlöber</u> , Mario Zauer , Christian Block , André Wagenführ (Technische Universität Dresden)</i>

•8/6 (Tue) 9:00~10:15 **Process Control**

Title	Authors
A Real-Time 3D Log Modelling for Sawing Optimization in a Small Circular Sawmill	<i><u>Jukka Antikainen</u> , <u>Erkki Verkasalo</u> (Finnish Forest Research Institute)</i>
Log Positioning by Aid of Computed Tomography Data and Sawing Simulation	<i><u>Magnus Fredriksson</u> (Luleå University of Technology)</i>
An Industrial Test of Measuring Saw Mismatch by Laser Triangulation	<i><u>Anders Berglund</u> , <u>Anders Grönlund</u> (Luleå University of Technology)</i>

•8/6 (Tue) 10:45~12:00 **Process Control**

Sensor-Integrated Machining Spindle Using Thin Film Layers	<i><u>Hans-Werner Hoffmeister</u> , <u>Martin Luig</u> (Technische Universität Braunschweig), <u>Saskia Biehl</u> , <u>Christian Rumposch</u> (Fraunhofer-Institute for Surface Engineering and Thin Films)</i>
Coarse-Resolution X-ray Scanning of Saw-Logs	<i><u>Yuntao An</u> , <u>Gary Schajer</u> (University of British Columbia)</i>

•8/7 (Wed) 9:00~10:15 **Other Production Technology**

Title	Authors
A New Generation of Safety Curtains and Safety Guards for Wood Machining Centres	<i>Uwe Heisel , Thomas Stehle , <u>Vincenzo Forcillo</u> (University of Stuttgart)</i>
Laser Incising of Sugi Lamina to Develop One Hour Fire-Resistive Wood Material	<i><u>Nobuaki Hattori</u> , Keisuke Ando (Tokyo University of Agriculture and Technology) , Toshiro Harada , Daisuke Kamikawa (Forestry and Forest Products Research Institute) , Masayuki Miyabayashi (T.E. Consulting Inc.) , Kouta Nishimura , Norichika Kakaie , Keiichi Miyamoto (Kajima Technical Research Institute)</i>
Potential Applicability of the Parabolic Solar Collector Technology to Produce Heat in the Wood Industry	<i><u>Péter Kovács</u> , Mihály Varga , Csaba Csitári , Gábor Németh (University of West Hungary)</i>

•8/7 (Wed) 10:45~12:00 **Sanding -Surface evaluation**

Effects of Some Abrasive Sanding Factors on the Surface Roughness of Particleboard and Medium Density Fiberboard	<i><u>Jegatheswaran Ratnasingam</u> (University Putra Malaysia) , Frieder Scholz (University of Applied Sciences Rosenheim)</i>
Modeling Effect of Wood Anatomy on the Surface Roughness after Wood Machining	<i><u>Jakub Sandak</u> , Dušan Pauliny , Anna Sandak , MariaPaola Riggio , Ilaria Santoni (IVALSA/CNR Trees and Timber Institute)</i>
Weathering Performance of Finished Black Spruce Wood Prepared with Three Alternative Surfacing Processes	<i><u>Julie Cool</u> (Technologies ICR) , Roger Hernández (Laval University)</i>

•8/7(Wed) 13:00~14:40 **Engineered Wood Products**

Title	Authors
A Practical Method and Apparatus for Converting Bamboo Culms into Flat Sheets for Laminated Bamboo Timber Production	<u>Edi Suhaimi Bakar</u> , Mohd. Dzafarin Sahrani , Zaidon Ashaari (University Putra Malaysia)
Determination of Geometrical Stability of Wood-Based Panels Veneered Both-Sidely Asymmetrically with Afzelia (<i>Afzelia</i> sp.) and Beech (<i>Fagus sylvatica</i> sp.)	<u>Sylwia Oleńska</u> , Piotr Beer (Warsaw University of Life Science)

Sawing

Industrial Sawing of <i>Pinus Sylvestris</i> L.: Power Consumption	<u>Luís Cristóvão</u> , Mats Ekevad , Anders Grönlund (Luleå University of Technology)
Similarity Study on the Energy Requirement of Saws	<u>György Sitkei</u> (University of West Hungary)

•8/7(Wed) 15:10~16:25 **Sawing**

Geometry of Kerf when Curve Sawing with a Circular Rip-Saw	<u>Mats Ekevad</u> , Luis Cristóvão , Anders Grönlund , Micael Öhman (Luleå University of Technology)
Effect of Tooth Height of Circular Sawblade on the Waving of Cutting Surface	<u>Satoru Nishio</u> (Kanefusa Corporation) , Hideyuki Yokochi (Nagoya University)
Performance of Crowned Edges on Band Saws	<u>Frieder Scholz</u> (University of Applied Sciences Rosenheim) , Michael Großmann , Johannes Tröger , Uwe Heisel (University of Stuttgart) , Andreas Hemer , Thomas Keller , Reid Foertner (University of Applied Sciences Rosenheim) , Jegatheswaran Ratnasingam (University Putra Malaysia)