

PROGRAM

Thursday, November 6th

08:00 – 10:00 REGISTRATION
ARO PALACE Hotel, EUROPA Conference Center, Lobby (1st floor)

10:00 – 10:30 OPENING REMARKS *Conference Room EUROPA 2 (1st floor)*
 Prof.dr. Ioan ABRUDAN – Rector, Transylvania University of Brasov
 Assoc.Prof. Alin OLARESCU – Dean, Faculty of Furniture Design and Wood Engineering
 Dr. Franka BRUCHERT – Coordinator of IUFRO Divion 5 – Forest Products
 Prof.dr. Mihaela CAMPEAN – ICWSE 2025 Coordinator

KEYNOTE PAPERS - *Conference Room EUROPA 2*

Chairman: Salim HIZIROGLU (USA)

10:30 – 11:00 *Holger MILITZ (Germany)*
**WOOD MODIFICATION RESEARCH WITHIN THE LAST DECENNIA:
 WHERE ARE WE STANDING NOW?**

11:00 – 11:30 *Peter NIEMZ (Switzerland)*
EUROPEAN SOFTWOOD AND HARDWOOD IN CLT AND GLT

11:30 – 12:00 *Csilla CSIHA (Hungary)*
**THE NEW EU DIRECTIVES PUSH WOOD IN FOCUS OF SUSTAINABLE
 CONSTRUCTION**

12:00 – 12:30 *Marius Catalin BARBU (Romania)*
CASEIN GLUING OF EUROPEAN WOOD SPECIES

12:30 – 14:00 LUNCH – *ARO PALACE Hotel, Horizon Restaurant (8th floor)*

14:00 – 16:00 PARALLEL PAPER SESSIONS – *Conference Rooms EUROPA 2 and 3*

16:00 – 16:15 COFFEE BREAK – *EUROPA Conference Center, Lobby*

16:15 – 18:15 PARALLEL PAPER SESSIONS – *Conference Rooms EUROPA 2 and 3*

19:30 WELCOME DINNER - *ARO PALACE Lobby/Bar Restaurant (ground floor)*

Friday, November 7th

08:30 – 10:00 **PARALLEL PAPER SESSIONS** – *Conference Rooms EUROPA 2 and 3*

10:00 – 10:30 **COFFEE BREAK** – *EUROPA Conference Center, Lobby*

10:30 – 12:30 **PARALLEL PAPER SESSIONS** – *Conference Rooms EUROPA 2 and 3*

12:30 – 14:00 **LUNCH** – *ARO PALACE Hotel, Lobby/Bar Restaurant (ground floor)*

14:00 – 16:30 **PARALLEL PAPER SESSIONS** – *Conference Rooms EUROPA 2 and 3*

16:30 – 19:30 **Vernissage of the FURNITURE DESIGN AND RESTORATION Exhibition -**
A partnership between the Faculty of Furniture Design and Wood
Engineering Brasov, Transilvania University of Brasov (Romania),
College of Furnishings and Industrial Design, Nanjing Forestry University
(China) and the Faculty of Urban Planning and Architecture, Technical
University of Moldova (Republic of Moldova). Visit of the Faculty of
Furniture Design and Wood Engineering

Transfer with buses from Aro Palace Hotel to the Colina University Campus:

<i>Bus Number</i>	<i>Leaves from Aro Palace Hotel</i>	<i>Leaves from the Faculty back to Aro Palace Hotel</i>
1	16:30	18:30
2	16:45	18:45
3	17:00	19:00

20:00 **BANQUET** – *ARO PALACE Hotel, Ballroom (ground floor)*

Saturday, November 8th

10:00 – 18:00 **POST - CONFERENCE EXCURSION: BRAN CASTLE**



**WE WISH YOU A SUCCESSFUL AND
MEMORABLE CONFERENCE IN THE HEART
OF TRANSYLVANIA!**

SESSION 1: WOOD STRUCTURE AND PROPERTIES (Part 1)

Chairman: Franka BRÜCHERT (Germany)

- 14:00 – 14:15** *Way LONG, Mariana Domnica STANCIU, Guan-Ting ZHENG, Chi-Wen CHEN (Taiwan, Romania)*
THE ACOUSTIC PROPERTIES OF CHINESE PARASOL VIOLIN PLATES BY USING THE THERMO-COMPRESSED-TREATMENT
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- 14:15 – 14:30** *Mariana Domnica STANCIU, Florin DINULICA., Violeta GUIMAN, Mihaela COȘNIȚĂ, Adriana SAVIN, Voichita BUCUR, Silviu NASTAC (Romania, Australia)*
THE RELATIONSHIP BETWEEN THE PHYSICAL AND ACOUSTIC PROPERTIES OF AGED VARNISHED RESONANCE WOOD
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- 14:30 – 14:45** *Ales STRAZE, Jure ZIGON, Sergej MEDVED (Slovenia)*
MONITORING DIMENSIONAL CHANGES IN WOOD AND WOOD-BASED MATERIALS USING DIGITAL IMAGE CORRELATION
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- 14:45 – 15:00** *Jure ZIGON, Stjepan PERVAN, Ales STRAZE (Slovenia)*
INVESTIGATION OF THE EFFECTS OF MOISTURE CONTENT ON THE DIELECTRIC AND DYNAMIC MECHANICAL PROPERTIES OF OAK WOOD
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- 15:00 – 15:15** *Navneet SIRSWAL, Gregory NOLAN, Nathan KOTLAREWSKI, Assaad TAIUM (Australia)*
NON-DESTRUCTIVE EVALUATION OF PLANTATION EUCALYPTUS NITENS LOGS AND RECOVERED SAMPLES TO ANALYSE THE STIFFNESS PROPERTY
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- 15:15 – 15:30** *Shaheda T. AKTER, Anders OLSSON, Thomas K. BADER (Sweden)*
STIFFNESS AND STRENGTH OF SCOTS PINE UNDER COMPRESSION PERPENDICULAR TO THE GRAIN AND ROLLING SHEAR LOADING
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- 15:30 – 15:45** *Elif TOPALOGLU, Derya USTAOMER (Turkey)*
EVALUATION OF FIRE RESISTANCE OF SELECTED TROPICAL WOODS
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- 15:45 – 16:00** *Sinval dos SANTOS MARQUES, José Tarcisio de OLIVEIRA, Emilly Soares Gomes da SILVA, Fabrício Gomes GONÇALVES (Brazil)*
ANATOMICAL CHARACTERISTICS OF THE WOOD OF THE SPECIES *Paubrasilia echinata* Lam - Gagnon, H.C.Lima & G.P.Lewis (PERNAMBUC WOOD), FROM COMMERCIAL PLANTATION

16:00 – 16:15

COFFEE BREAK



SESSION 1 (continuation): WOOD STRUCTURE AND PROPERTIES

Chairman: Gervais SAWYER (UK)

- 16:15 – 16:30** *Ana TROCONES BOGGIANO*, Lidia GURAU, Mihaela POROJAN, Mariana Domnica STANCIU (Romania)
IDENTIFICATION OF THE JUVENILE WOOD TRANSITION AGE AND OF SOME GROWTH CHARACTERISTICS IN PLANTATION VS. NATIVE POPULATIONS OF CUBAN *PINUS CARIBAEA* M. VAR. *CARIBAEA* B&G
- 16:30 – 16:45** *Franka BRÜCHERT*, Till FAULENBACH, Andriy KOVRYGA (Germany)
LIRIODENDRON TULIPIFERA L. – A POTENTIAL ALTERNATIVE WOOD SPECIES FOR FUTURE WOOD USE IN EUROPE
- 16:45 – 17:00** *Emanuela Carmen BELDEAN*, Maria Cristina TIMAR, Mihaela POROJAN (Romania)
INVESTIGATION OF SOME PROPERTIES OF WOOD RECOVERED FROM AN OLD BUILDING
- 17:00 – 17:15** *Cosmin SPÎRCHEZ*, Aurel LUNGULEASA (Romania)
THE INFLUENCE OF TORREFACTION ON THE PROPERTIES OF SPRUCE (*PICEA ABIES*) AND SYCAMORE (*ACER PLATANOIDES*) WOOD

SESSION 2: MECHANICAL WOOD PROCESSING AND SURFACE QUALITY

Chairman: Gervais SAWYER (UK)

- 17:15 – 17:30** Cristian TILEA, *Lucian TILEA*, Mariana Domnica STANCIU (Romania)
MECHANICAL ENGRAVING LIGHTING SYSTEM USING LIGHT DISPERSION THROUGH WOOD FIBER
- 17:30 – 17:45** Mihai ISPAS, Sergiu RĂCĂȘAN, *Bogdan BEDELEAN*, Ana-Maria ANGELESCU (Romania)
INTEGRATION OF ANN AND RSM TO OPTIMIZE THE SAWING PROCESS OF WOOD BY CIRCULAR SAW BLADES
- 17:45 – 18:00** *Antonela LUNGU*, Sergiu Valeriu GEORGESCU, Camelia COSEREANU (Romania)
COLOR-BASED LASER ENGRAVING OF HERITAGE TEXTILE MOTIFS ON WOOD
- 18:00 – 18:15** *Timothy M. YOUNG*, Donald G. HODGES (USA)
MACHINING LEARNING AND AI ARE RAPIDLY CHANGING THE WOOD PRODUCTS INDUSTRIES
- 18:15 – 18:30** *Ana-Maria ANGELESCU*, Lidia GURAU, Mihai ISPAS (Romania)
SURFACE QUALITY OF CNC FACE-MILLED MAPLE (*ACER PSEUDOPLATANUS*) AND OAK (*QUERCUS ROBUR*) USING TWO END-MILL TOOL TYPES AND VARYING PROCESSING PARAMETERS

19:30 → WELCOME DINNER – ARO PALACE, Lobby/Bar Restaurant (ground floor)

SESSION 4: WOOD PRESERVATION, MODIFICATION, GLUING AND COATING (Part 1)

Chairman: Holger MILITZ (Germany)

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| 14:00 – 14:15 | <i>Daouia MESSAOUDI, Katia RUEL, Jean-Paul JOSELEAU (France)</i>
ARNICA EXTRACT AS A 100% VEGETAL WOOD PRESERVATIVE AGAINST WOOD DECAYING BASIDIOMYCETES, XYLOPHAGOUS INSECTS AND TERMITES |
| 14:15 – 14:30 | <i>Jung Myoung LEE (South Korea)</i>
PREPARATION OF HYDROGELS AND NANOCELLULOSE FROM BIOMASS BY-PRODUCTS |
| 14:30 – 14:45 | <i>Byung-Dae PARK, Cyntia Watumlawar EGA, Setio Wibowo EKO (South Korea)</i>
MODIFICATIONS OF LIGNIN FOR CROSSLINKING AS BIO-BASED WOOD ADHESIVES |
| 14:45 – 15:00 | <i>Miklos BAK, Gabor KISS, Robert NEMETH (Hungary)</i>
MODIFICATION OF WOOD COLOR USING DIFFERENT IRON NANOPARTICLES |
| 15:00 – 15:15 | <i>Anete MEIJA, Uldis SPULLE, Haralds SILLERS (Latvia)</i>
GLUABILITY OF THERMALLY MODIFIED BIRCH (<i>BETULA PENDULA</i> ROTH.), ASPEN (<i>POPULUS TREMULA</i> L.), AND POPLAR (<i>POPULUS X CANADENSIS</i> MOENCH) VENEERS USING COMMERCIAL ADHESIVES |
| 15:15 – 15:30 | <i>Umit Cafer YILDIZ, Sibel YILDIZ, Ozge Nur ERDEYER, Mustafa Selcuk GIRGINER, Kazım SEZEN, Ebru Guney AYDIN (Turkey)</i>
ASSESSMENT OF PRELIMINARY RESULTS FOR BIOFILM FORMATION ON WOOD |
| 15:30 – 15:45 | <i>Ruxandra NEDELCU, Maria Cristina TIMAR (Romania)</i>
A COMPARATIVE EVALUATION OF UV LIGHT INDUCED AGEING OF SUBFOSSIL OAK COMPARED TO RECENT OAK |
| 15:45 – 16:00 | <i>Amalia NITURA, Emanuela Carmen BELDEAN (Romania)</i>
ASSESSMENT OF SOME WATERBORNE FINISHES FOR WOOD EXPOSED TO NATURAL WEATHERING TEST |

16:00 – 16:15

COFFEE BREAK



SESSION 4: WOOD PRESERVATION, MODIFICATION, GLUING AND COATING (Part 2)

Chairmen: Marko PETRIC (Slovenia) and Octavia ZELENIC (Romania)

16:15 – 16:30 **Matjaz PAVLIC**, Marko PETRIC, Luka ALBREHT, Miha RIFELJ, Bostjan LESAR (Slovenia)

NEEM OIL: A PROMISING SOLUTION FOR WOOD SURFACE FINISHING OR NOT?

16:30 – 16:45 **Mihaela LIU**, Zhigao WANG, Anca Maria VARODI, Xiaochen LIU, Xinyou LIU (China, Romania)

THE INFLUENCE OF NATURAL LIGHT AGING ON THE SURFACE PROPERTIES OF COLORED CHINESE LACQUER COATINGS

16:45 – 17:00 **Xiaochen LIU**, Yuemin FENG, Meng XIA, Xinyou LIU, Emanuela-Carmen BELDEAN, Yushu CHEN (China, Romania)

IMPACT OF ACACIA AND TRAGACANTH GUMS ON THE SURFACE CHARACTERISTICS OF TRADITIONAL WOOD-SUPPORTED POLYCHROME PAINTINGS

17:00 – 17:15 **Marko PETRIC**, Luka ALBREHT, Eli KERZIC, Jaka LEVANIC, Matjaz PAVLIC, Jernej SKERBIS (Slovenia)

SANDBLASTING WOOD AS A TECHNIQUE OF SIMULATED WEATHERING

17:15 – 17:30 Mengling YAN, **Shaojun ZUO**, Yueming FENG, Meng XIA, Xinyou LIU, Emanuela-Carmen BELDEAN, Yushu CHEN (China, Romania)

IMPACT OF ANIMAL-BASED ADHESIVES ON THE SURFACE CHARACTERISTICS OF TRADITIONAL WOOD-SUPPORTED POLYCHROME COATINGS

17:30 – 17:45 **Mihai-Junior TORCATORU**, Maria Cristina TIMAR (Romania)

INFLUENCE OF NANO ADDITIVES ON THE COLOUR STABILITY OF MAPLE WOOD (*ACER PSEUDOPLATANUS* L.) SURFACES COATED WITH A CLEAR WATERBORNE POLYURETHANE LACQUER

17:45 – 18:00 **Xinyue DU**, Yuemin FENG, Alin OLARESCU, Yushu CHEN, Xinyou LIU (China, Romania)

PREPARATION AND PROPERTIES OF COMPOSITE COATINGS FABRICATED FROM CARVED LACQUER WASTE AND WATERBORNE ACRYLIC RESIN

18:00 – 18:15 **Yi XIE**, Yueming FENG, Alin OLARESCU, Yushu CHEN, Xinyou LIU, (China, Romania)

EFFECTS OF 3D PRINTING PARAMETERS ON THE COATING PERFORMANCE OF CHINESE LACQUER ON PLA SUBSTRATES

19:30 → WELCOME DINNER – ARO PALACE, Lobby/Bar Restaurant (ground floor)



FRIDAY, November 7th

Room **EUROPA 2**

SESSION 3: WOOD-BASED MATERIALS (Part 1)

Chairman: Petr CERMAK (Czech Republic)

08:30 – 08:45 *Chatree* **HOMKHIEW**, Chainarong SRIVABUT, Thanate RATANAWILAI, Surasit RAWANGWONG, Uraiwan SOOKYUNG (Thailand)

IMPROVING MECHANICAL AND PHYSICAL PROPERTIES OF WOOD-PLASTIC COMPOSITES USING NATURAL RUBBER LATEX SLUDGE WASTE

08:45 – 09:00 *Thanate* **RATANAWILAI**, Teh MUHAMMADSIFRON, Hayimasae MUHAMMAD-ARIF, Soasuan PITTANIC, Patthamin NICHAPAT, Jaturonlux NOPPANAT (Thailand)

EVALUATION OF HYBRID COMPOSITE MATERIALS FOR CRIBBING APPLICATIONS IN TRAIN DERAILMENT RECOVERY

09:00 – 09:15 *Chainarong* **SRIVABUT**, Chatree HOMKHIEW, Worapong BOONCHOUYTAN, Surasit RAWANGWONG (Thailand)

ENHANCING MECHANICAL INTEGRITY AND DIMENSIONAL STABILITY OF WOOD-BASED COMPOSITES USING KRAJOOD FIBER AND ISOCYANATE BINDER

09:15 – 09:30 *Jing-Sheng* **LIN**, Kui-Li HUANG, Shi-Ying PENG, Way LONG (Taiwan)

MANUFACTURING OF PARTICLEBOARD FROM PEAR TREE PRUNING RESIDUE

09:30 – 09:45 *Marius C.* **BARBU**, Bernhard BIRNBACHER, Ronald SCHWARZENBRUNNER (Romania, Austria)

DEVELOPMENT OF WOODEN SKI CORES

09:45 – 10:00 Chuan Li LEE, *Balkis Fatomer A.* **BAKAR**, Kit Ling CHIN, Luqman Chuah ABDULLAH, Nurul Izzaty IDRIS, Qi Ren CHANG (Malaysia)

SOME PROPERTIES OF BIO-BASED EPOXY VITRIMERS WITH ACTIVATED CARBON DERIVED FROM OIL PALM BIOMASS: EFFECTS OF CURING RATIO AND FILLER CONTENT

10:00 – 10:30

COFFEE BREAK



Friday, November 7th

Room **EUROPA 2**

SESSION 3: WOOD-BASED MATERIALS (Part 2)

Chairman: Marius Catalin BARBU (Romania)

10:30 – 10:45 *Michal SULAK, Tomas PIPISKA, David DECKY, Marek NOCIAR (Czech Republic)*

ANALYSIS OF LAMINATED STRAND LUMBER MADE FROM LARCH AND SPRUCE

10:45 – 11:00 *Roxana GALL, Mihai ISPAS, Octavia ZELENIIUC, Bogdan BEDELEAN, Sergiu GEORGESCU, Mihaela CÂMPEAN (Romania)*

MOISTURE BEHAVIOUR OF GLULAM MADE FROM MIXED SPECIES

11:00 – 11:15 *Petr CERMAK, Jakub DOMENY, Valentino CRISTINI, Jan BAAR, Radim ROUSEK, Tomas PIPISKA, Michal TOMSOVSKY, Martin BRABEC (Czech Republic)*

MYCELIUM-LIGNOCELLULOSE-BASED BIO-COMPOSITES: FROM GROWTH KINETICS TO PHYSICO-MECHANICAL PROPERTIES

11:15 – 11:30 *Jan BAAR, Martin BRABEC, Petr CERMAK (Czech Republic)*

FLEXURAL BEHAVIOUR OF COLD PRESSED AND UNPRESSED MYCELIUM COMPOSITES

11:30 – 11:45 *Stepan BERANEK, Jakub DOMENY, Jan BAAR, Petr CERMAK (Czech Republic)*

SORPTION BEHAVIOR IN MYCELIUM-LIGNOCELLULOSE-BASED BIOCOMPOSITES

11:45 – 12:00 *Ayfer DONMEZ CAVDAR, Husnu YEL, Sevda Boran TORUN, Murat ERTAS (Turkey)*

CEMENTITIOUS WASTES COATED POLYAMIDE 6 COMPOSITES

12:00 – 12:15 *Aurel LUNGULEASA, Cosmin SPIRCHEZ (Romania)*

BRIQUETTES OBTAINED FROM LIGNOCELLULOSIC HEMP (CANNABIS SATIVA SPP.) PULP, COMPARATIVE TO OAK ONES

12:15 – 12:30 *Petru FOLA, Alin OLARESCU, Aurel LUNGULEASA (Romania)*

CROSS LAMINATED TIMBER (CLT): A COMPREHENSIVE REVIEW

12:30 – 14:00 **LUNCH – ARO PALACE, Lobby/Bar Restaurant (ground floor)**



SESSION 3: WOOD-BASED MATERIALS (Part 3)

Chairman: Peter NIEMZ (Switzerland)

- 14:00 – 14:15** *Derya USTAOMER*, Elif TOPALOGLU, Bilge YILMAZ (Turkey)
ASSESSMENT OF FIRE RESISTANCE, SURFACE AND PHYSICAL PROPERTIES OF FIBERBOARD CONTAINING TROPICAL WOOD PLANER SHAVINGS
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- 14:15 – 14:30** *Omar Saber KHALAF ZINAD*, Csilla CSIHA (Hungary)
EVALUATION OF WATER VAPOR DIFFUSION OF EMPRESS TREE HYBRID SAMPLES WITH ADHESIVE
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- 14:30 – 14:45** *Mohammad Hassan MAZAHERIFAR*, Salim HIZIROGLU, Camelia COSEREANU, Luminita Maria BRENCI (Romania, USA)
PROPERTIES OF INSULATION TYPE GREEN COMPOSITE PANELS MANUFACTURED FROM RECYCLED CARDBOARD
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- 14:45 – 15:00** *Aikaterini – Alexandra PSONOPOULOU*, Vasiliki KAMPERIDOU, Ioannis BARBOUTIS (Greece)
THREE-LAYER SPRUCE GLULAM BONDS: A COMPARATIVE ANALYSIS OF ADHESION AND DURABILITY FOR FIVE MUF RESINS
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- 15:00 – 15:15** *Ramunas TUPCIAUSKAS*, Andris BERZINS, Martins ANDZS, Gunars PAVLOVICS (Latvia)
PROPERTIES OF INNOVATIVE BIO-BASED PARTICLEBOARDS FOR APPLICATION IN EXTERNAL BUILDING FAÇADES
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- 15:15 – 15:30** *Samet DEMIREL*, Seda YILMAZ (Turkey)
TENSILE STRENGTH OF COMPOSITE MATERIALS MADE OF COMPOSITIONS POLYLACTIC ACID (PLA), THERMOPLASTIC URETHANE (TPU) AND BAMBOO
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- 15:30 – 15:45** *Tomasz KRYSTOFIAK*, Maciej TOKARCZYK, Barbara LIS (Poland)
INNOVATIVE HONEYCOMB BOARDS FINISHED IN PRINTING TECHNOLOGIES
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- 15:45 – 16:00** *Tomasz KRYSTOFIAK*, Pavlo BEKHTA, Barbara LIS (Poland, Ukraine)
INVESTIGATIONS ON THE PROPERTIES OF GLUE-LINES FROM HM ADHESIVES FOR EDGEBOARDING PARTICLEBOARD SURFACES
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- 16:00 – 16:15** *Daniel CORDES*, Leo Felix MUNIER, Alexander PFRIEM (Germany)
DEVELOPMENT OF AN ELECTRICALLY HEATED WOODEN FLOORING SYSTEM

16:30 – 19:30 VERNISSAGE OF THE FURNITURE DESIGN AND RESTORATION EXHIBITION. VISIT OF THE FACULTY OF FURNITURE DESIGN AND WOOD ENGINEERING – Depart from ARO PALACE Hotel Lobby (Reception),
Bus 1: 16:30; Bus 2: 16:45

20:00 → BANQUET – ARO PALACE Hotel, Ballroom (ground floor)



Friday, November 7th

Room **EUROPA 3**

SESSION 7: WOOD CONSTRUCTIONS

Chairman: Fredrik LINDBLAD (Sweden)

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| 08:45 – 09:00 | <i>Chun-Hao FENG, Fang-Ming LIN, Hao-Ting HSU (Taiwan)</i>
IMPROVEMENT OF THE AIRBORNE SOUND INSULATION ON WOOD FINISHED PARTITION WALLS |
| 09:00 – 09:15 | <i>Karin SANDBERG, Benedikt NEYSES, Camilla SCHLYTER, Carmen CRISTESCU (Sweden)</i>
TRANSFORMING RECLAIMED TIMBER AND RESIDUALS INTO FAÇADE COMPONENTS: FROM PROTOTYPE TO INDUSTRIAL APPLICATION |
| 09:15 – 09:30 | <i>Tommy VIKBERG, Frank SCHLEICHER, Irina MARTYNYUK, Lars HANSSON, Olof BROMAN, Karin SANDBERG (Sweden)</i>
EVALUATING MOISTURE BEHAVIOUR IN CLT USING TIME-RESOLVED CT SCANNING AFTER WEATHER PROTECTION FAILURE |
| 09:30 – 09:45 | <i>Arkadius BERNACYK, Johannes TRÖGER, Martin RÖSSLER, Peter NIEMZ, Andreas HÄNSEL (Germany, Switzerland)</i>
INFLUENCE OF MACHINING AND PRIMING ON THE BONDING QUALITY OF DIFFERENT EUROPEAN SOFTWOOD AND HARDWOOD SPECIES |
| 09:45 – 10:00 | <i>Georgia PASCHALIDOU, Vasiliki KAMPERIDOU, Ioannis BARBOUTIS (Greece)</i>
UTILIZATION OF THE BARK OF INVASIVE BROADLEAF TREES IN STRUCTURAL MORTARS |

10:00 – 10:30

COFFEE BREAK



SESSION 6: FURNITURE DESIGN

Chairman: Csilla CSIHA (Hungary)

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| 10:30 – 10:45 | Zhao-Jun DENG , Chien-Nan CHEN, Hao-Chang TSAI, Chin-Hao CHANG (Taiwan)
A STUDY ON THE IMPACT OF BISCUIT CONNECT ON STRUCTURAL STRENGTH OF A FURNITURE |
| 10:45 – 11:00 | Chien-Nan CHEN , Ming-Feng WANG, Hao-Chang TSAI, Chuan-Yi HUANG (Taiwan)
A STUDY ON THE APPLICATION OF BIOMIMETIC DESIGN IN THE INNOVATION AND OPTIMIZATION OF CHILDREN'S STUDY DESKS AND CHAIRS |
| 11:00 – 11:15 | Jerzy SMARDZEWSKI , Michał SLONINA (Poland)
SYNCLASTIC BEHAVIOR OF THE AUXETIC CORE FOR FURNITURE PANELS |
| 11:15 – 11:30 | Angela MUNTEANU , Tatiana FILIPSKI (Rep Moldavia)
ECO-FRIENDLY OBJECTS, FURNITURE AND LIGHTING FIXTURES MADE OF RECYCLED WOOD AIMING THE PROMOTION OF ECO-FRIENDLY PRACTICES SUCH AS CLOSED-CYCLE ECONOMY SYSTEMS, WHILE FOCUSING ON THE ENERGY EFFICIENCY OF THE INTERIOR SPACE |
| 11:30 – 11:45 | Maria Reka ANTAL , Levente DENES, Vivien NAGY (Hungary)
COMFORT EVALUATION OF OFFICE CHAIRS THROUGH BODY PRESSURE DISTRIBUTION IN DIVERSE SITTING POSTURES |
| 11:45 – 12:00 | Vivien NAGY , Maria Reka ANTAL (Hungary)
THE KITCHENS OF THE PAST, THE MODULES OF THE FUTURE: THE EVOLUTION OF KITCHEN DESIGN AT THE DAWN OF THE DIGITAL AGE AND TODAY |
| 12:00 – 12:15 | Ying GAO , Yuemin FENG, Yushu CHEN, Alin OLARESCU, Xinyou LIU (China, Romania)
OPTIMIZING BUILT-IN REFRIGERATOR INTEGRATION: BEHAVIOR MODEL FOR EVALUATING KITCHEN WORKFLOW AND SPATIAL ADAPTABILITY |
| 12:15 – 12:30 | Xuanlin GE , Yuemin FENG, Yushu CHEN, Alin OLARESCU, Xinyou LIU (China, Romania)
BEHAVIORAL ADAPTABILITY ASSESSMENT OF EMBEDDED REFRIGERATOR-SIDEBOARD CONFIGURATIONS USING THE FUSIONER MODEL |

12:30 – 14:00 **LUNCH – ARO PALACE, Lobby/Bar Restaurant (ground floor)**

Friday, November 7th

Room **EUROPA 3**

SESSION 5: CONSERVATION-RESTORATION OF WOODEN OBJECTS

Chairman: Maria Cristina TIMAR (Romania)

14:00 – 14:15 **Maks MERELA**, Luka KRZE, Angela BALZANO, Dasa KRAPEZ, Rozle REPIC
(Slovenia)

**INTEGRATING ADVANCED IMAGING AND ANALYTICAL TECHNIQUES
FOR THE STUDY OF A HISTORIC WOODEN SCULPTURE**

14:15 – 14:30 **Dana Mihaela POP**, Maria Cristina TIMAR (Romania)

**AN EVALUATION OF THYME ESSENTIAL OIL AS A POTENTIAL
ALTERNATIVE ANTIFUNGAL PRODUCT FOR HISTORIC WOOD
CONSERVATION**

14:30 – 14:45 **Anca Maria VARODI**, Maria Cristina TIMAR, Emanuela Carmen BELDEAN
(Romania)

**AN INTEGRATED MICROSCOPIC AND SPECTROSCOPIC STUDY OF
POLYCHROME WOOD FOR CONSERVATION-RESTORATION PURPOSES**

14:45 – 15:00 Emanuela Carmen BELDEAN, **Andreea CREȚU**, **Cristiana SANDU**
(Romania)

**A RUSTIC MIRROR FRAME - AN IN-DEPTH INSIGHT INTO THE METHODS
AND CHALLENGES OF THE RESTORATION PROCESS**

SESSION 8: CIRCULAR ECONOMY IN WOOD INDUSTRY

Chairman: Lidia GURAU (Romania)

15:00 – 15:15 **Luminița-Maria BRENCI**, Camelia COȘEREANU, Mihaela CÂMPEAN, Alin OLĂRESCU, Mihai ISPAS, Sergiu RĂCĂȘAN (Romania)

CIRCULAR ECONOMY TRANSITION MANAGER: GUIDING COMPANIES OF THE FURNITURE VALUE CHAIN TO DEPLOY THEIR TRANSITION STRATEGY FOR A MORE CIRCULAR ECONOMY

15:15 – 15:30 **Fredrik LINDBLAD**, Asa GUSTAFSSON (Sweden)

ARTIFICIAL INTELLIGENCE AND CIRCULAR ECONOMY IN WOOD CONSTRUCTION: EXPLORING AI'S ROLE IN ENHANCING SUSTAINABILITY AND MATERIAL REUSE

15:30 – 15:45 **Asa GUSTAFSSON**, Fredrik LINDBLAD (Sweden)

FINANCIAL STABILITY AND MARKET STRUCTURE OF LOGGING CONTRACTORS: ASSESSING ECONOMIC RESILIENCE IN THE TRANSITION TO FOSSIL-FREE FORESTRY

15:45 – 16:00 Stephan KAISER, **Anton KRALER** (Austria)

OPTIMIZING THE USE OF CROSS LAMINATED TIMBER IN TERMS OF THE CIRCULAR ECONOMY

16:00 – 16:15 **Chen-Hui CHEN**, Way LONG, Jeng-Wei TSAI (Taiwan)

CHLORINE CONTROL STRATEGIES AND PROCESS QUALITY IN SRF DERIVED FROM PVC-CONTAINING AGRICULTURAL BIOMASS

16:15 – 16:30 **Carmen CRISTESCU**, Alexander WAHLBERG, Karin SANDBERG ((Sweden)

ENVIRONMENTAL AND ECONOMIC BREAK-EVEN OF REUSING POST-CONSUMER TIMBER IN FAÇADES: A CASE-STUDY FROM NORTHERN SWEDEN

16:30 – 16:45 **Lukas SOMMERAUER**, Jakub GRZYBEK, Thomas SEPPERER, Thomas SCHNABEL (Austria)

APPLICATION-ORIENTED NIR CALIBRATION MODELS AS DIGITAL ENABLERS IN CIRCULAR WOOD-BASED RESOURCE CHAINS

17:00 – 19:30 **VERNISSAGE OF THE FURNITURE DESIGN AND RESTORATION EXHIBITION. VISIT OF THE FACULTY OF FURNITURE DESIGN AND WOOD ENGINEERING – Depart from ARO PALACE Hotel Lobby (Reception)**

Bus 3: 17:00

20:00 → BANQUET – ARO PALACE Hotel, Ballroom (ground floor)



SATURDAY, November 8th

POST CONFERENCE EXCURSION

10:00 Departure from ARO PALACE Hotel, Brasov

11:00-14:00 Guided visit to Bran Castle



Bran Castle is situated at 25 kilometres southwest of Brasov. It is a national monument and landmark in Transylvania.

Commonly known as **Dracula's Castle**, it is marketed as the home of the title character in Bram Stoker's *Dracula*. There is no evidence that Stoker knew anything about this castle, which has only tangential associations with Vlad the Impaler, voivode of Wallachia.

The castle is now a museum dedicated to displaying art and furniture collected by Queen Marie. The guided tour will carry you through the interior of the castle, but you can also stroll on your own through the small open-air museum exhibiting traditional Romanian peasant structures (cottages, barns, water-driven machinery, etc.) from the Bran region, to enjoy a tea at the tea house below the hill or to shop in the artisan market.

14:00-15:00 Free time

15:00-16:00 Rustical lunch at the bottom of Bucegi mountains

17:00-18:00 Arrival in Brasov - ARO PALACE Hotel

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