

ICWSE 2023



PROGRAM

Thursday, November 2nd

08:00 – 9:30 **REGISTRATION** – *Main Hall of University Aula*

9:30 – 10:00 **OPENING REMARKS** – *Aula Magna*

KEYNOTE PAPERS - *Aula Magna*

Chairman: Gervais SAWYER (UK)

10:00 – 10:30 **Rupert WIMMER** (*Austria*)

WOOD SCIENCE IN A CHANGING WORLD: WHERE ARE WE GOING?

10:30 – 11:00 **Mark IRLE**, *Flore LEBRETON*, *Christophe BELLONCLE* (*France*)

WOOD RECYCLING IN THE CIRCULAR BIOECONOMY

11:00 – 11:30 **Marius Catalin BARBU**, *Eugenia Mariana TUDOR* (*Romania, Austria*)

POTENTIAL OF PAULOWNIA WOOD FROM EUROPEAN PLANTATIONS

11:30 – 12:00 **GROUP PHOTO** – *In front of the University Aula*



12:00 – 13:00 **LUNCH** – *Main Hall of University Aula*

13:00 – 15:00 **PAPER SESSIONS** – *Rooms U I 2, U I 3*

15:00 – 15:30 **COFFEE BREAK** – *Main Hall of University Aula*

15:30 – 17:30 **PAPER SESSIONS** – *Rooms U I 2, U I 3*

19:00 **WELCOME COCKTAIL** – *ARO PALACE Hotel, White Room (ground floor)*

**The speakers are highlighted with blue color.*

Friday, November 3rd

08:30 – 10:30 PAPER SESSIONS – *Rooms U 1 2, U 1 3*

10:30 – 11:00 COFFEE BREAK – *Main Hall of University Aula*

11:00 – 13:00 PAPER SESSIONS – *Rooms U 1 2, U 1 3*

13:00 – 14:00 LUNCH – *Main Hall of University Aula*

14:00 – 16:00 PAPER SESSIONS – *Rooms U 1 2, U 1 3*

16:00 – 16:30 COFFEE BREAK – *Main Hall of University Aula*

16:30 – 17:30 PAPER SESSIONS – *Rooms U 1 2, U 1 3*

19:00 BANQUET – *ARO PALACE Hotel, Ballroom (ground floor)*

Saturday, November 4th

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



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

SECTION 2: WOOD DRYING AND HEAT TREATMENTS

Chairman: Robert NEMETH (Hungary)

- 13:00 – 13:15** **Djeison Cesar BATISTA**, P.H. dos Santos SILVARES, A.R. de MENDONCA, J.B. PAES, Silvana NISGOSKI, G.I.B. de MUÑIZ, J.T. da Silva OLIVEIRA, A.J. REGAZZI (Brazil)
A NOVEL APPROACH FOR STUDYING THE CORRELATION BETWEEN DENSITY AND SWELLING OF THERMALLY MODIFIED EUCALYPT WOOD
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- 13:15 – 13:30** **Iulia DEACONU**, Sergiu GEORGESCU, Mihaela CAMPEAN (Romania)
UPON THE DRYING BEHAVIOR OF TURKEY OAK LUMBER
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- 13:30 – 13:45** **Nencho DELIISKI**, Ladislav DZURENDA, Peter NIEMZ, Mihaela CAMPEAN, Dimitar ANGELSKI, Pavlin VITCHEV (Bulgaria, Switzerland, Romania)
A SIMULATION STUDY OF THE HEAT BALANCE OF CONCRETE PITS DURING BOILING OF NON-FROZED LOGS
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- 13:45 – 14:00** **Jakub DOMENY**, Maija KYMALAINEN, Vit SEDA (Czech Republic, Finland)
MOISTURE SORPTION, ARTIFICIAL WEATHERING AND SURFACE PROPERTIES OF WOOD MODIFIED BY ONE-SIDE CARBONIZATION
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- 14:00 – 14:15** Felipe da Silva GOMES, M.S. REIS, A.C.O. RUPF, P.H. dos Santos SILVARES, J.S. da Silva FERREIRA, L. da Costa DIAS, J.P.S. MADI, P.H.G. de CADEMARTORI, H. FANTUZZI NETO, J.B. PAES, **Djeison Cesar BATISTA** (Brazil)
CHEMICAL COMPOSITION AND COLOR OF SHORT-ROTATION TEAK WOOD THERMALLY MODIFIED IN CLOSED AND OPEN SYSTEMS
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- 14:15 – 14:30** **Ebrahim HAJIAN**, Jose COUCEIRO, Lars HANSSON, Dick SANDBERG (Sweden)
DRYING BEHAVIOUR OF WESTERN HEMLOCK WITH SCHEDULES DEVELOPED FOR NORWAY SPRUCE AND SCOTS PINE
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- 14:30 – 14:45** **Laura Ashley MOGENSEN**, Jose COUCEIRO, Johan OJA, Dick SANDBERG (Sweden)
X-RAY COMPUTED TOMOGRAPHY (CT) STUDY OF THE TRANSITION REGIME IN TIMBER DRYING ALONG THE BLOW DEPTH
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- 14:45 – 15:00** **Ciprian LAZARESCU** (Canada)
STRATEGIES FOR DRYING CANADIAN SOFTWOOD DIMENSION LUMBER
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- 15:00 – 15:15** **Denni PRASETIA**, Byantara Darsan PURUSATAMA, Jong Ho KIM, Jae-Hyuk JANG, Se-Yeong PARK, Seung-Hwan LEE, Nam Hun KIM (Republic of Korea)
QUERCUS VARIABILIS VIRGIN CORK PROPERTIES GROWING IN KOREA

15:15 – 15:30 **COFFEE BREAK** – Main Hall of University Aula



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Thursday, November 2nd

Room **U I 2**

SECTION 8: WOOD CONSTRUCTIONS

Chairman: Mihai ISPAS (Romania)

15:30 – 15:45 **Marlene CRAMER** (UK)

THE CHALLENGE OF STRENGTH GRADING UK HARDWOODS

15:45 – 16:00 **Jakub GRZYBEK**, Philipp MEFFERT, Alexander PETUTSCHNIGG, Thomas SCHNABEL (Czech Republic, Austria, Romania)

CHARACTERIZATION AND PERFORMANCE ANALYSIS OF IMPREGNATED WOOD WITH PHASE CHANGE MATERIALS FOR ENERGY EFFICIENT TIMBER STRUCTURES

16:00 – 16:15 Evangelia AGNANTOPOULOU, Ioannis BARBOUTIS, **Vasiliki KAMPERIDOU** (Greece)

WOOD UTILIZATION IN WINDMILL MECHANISMS ON SIKINOS ISLAND (GREECE)

16:15 – 16:30 **Katarina KOSUTOVA**, Linda MAKOVICKA OSVALDOVA (Slovakia)

THE INFLUENCE OF THE PROPERTIES OF BUILDING MATERIALS IN WOODEN SANDWICH CONSTRUCTIONS ON FIRE RESISTANCE

16:30 – 16:45 Andreas POMAROLI, **Anton KRALER** (Austria)

SYSTEM CONNECTOR “DOUBLE DOVETAIL TENON” - A WOOD - WOOD BASED ALTERNATIVE FOR CONNECTING CLT - ELEMENTS

19:00 → **WELCOME COCKTAIL** – ARO PALACE Hotel, White Room (ground floor)



*The speakers are highlighted with blue color.

SECTION 5: WOOD PRESERVATION, MODIFICATION, GLUING AND COATING

Chairman: Marko PETRIC (Slovenia)

- 13:00 – 13:15 **Dimitar ANGELSKI**, Krasimira ATANASOVA (Bulgaria)
EFFECT OF VENEERING MODE ON THE ROUGHNESS OF CHERRY (*Prunus avium* L.) VENEERED MEDIUM DENSITY FIBERBOARDS
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- 13:15 – 13:30 Krasimira ATANASOVA, **Viktor SAVOV** (Bulgaria)
EFFECT OF PROCESS CONDITIONS ON WATERBORNE WOOD COATING PERFORMANCE APPLIED BY DIPPING
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- 13:30 – 13:45 **Emanuela BELDEAN**, Maria Cristina TIMAR (Romania)
WOOD COLOURING WITH NATURAL DYE EXTRACTS. NEW RESEARCH AND PERSPECTIVES
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- 13:45 – 14:00 **Ayfer DONMEZ CAVDAR**, Sevda BORAN TORUN, Marius Catalin BARBU (Turkey, Romania, Austria)
HEAT AGEING EFFECT ON SURFACE CHARACTERISTICS ON THE COATED FIRE RETARDANT PAINT OF ALDER AND SPRUCE WOOD
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- 14:00 – 14:15 **Rene HERRERA**, Oihana GORDOBIL, Faksawat POOHPHAJAI, Anna SANDAK (Slovenia)
ENHANCING PHYSICAL PROPERTIES OF WOOD THROUGH LIGNIN-BASED TREATMENTS
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- 14:15 – 14:30 Milena HENKE, **Tomasz KRYSZTOFIK**, Emilia Adela SALCA, Barbara LIS (Poland, Romania)
GLOSS LEVEL AND COLOR OF HDF FINISHED WITH ACRYLIC VARNISH SYSTEM HARDENED WITH ENERGY-SAVING SOURCES OF ENERGY
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- 14:30 – 14:45 Maciej TOKARCZYK, Barbara LIS, Emilia Adela SALCA, **Tomasz KRYSZTOFIK** (Poland, Romania)
APPLICATION OF TOPOGRAPHY TO ANALYZE SURFACE INTERACTIONS OF VARNISH COATINGS IN ANALOGUE AND DIGITAL PRINTING TECHNOLOGIES
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- 14:45 – 15:00 **Milan SERNEK**, Jasa SARAZIN (Slovenia)
CURING CHARACTERISATION OF BIO-BASED ADHESIVES BY ABES

15:00 – 15:30 **COFFEE BREAK** – *Main Hall of University Aula*



*The speakers are highlighted with blue color.

SECTION 5 (continuation): WOOD PRESERVATION, MODIFICATION, GLUING AND COATING

Chairman: Csilla CSIHA (Hungary)

15:30 – 15:45 **Erik LARNOY**, Johan BIORNSTAD (Norway)
 CIOL WOOD - TOWARDS INDUSTRIAL SCALE PRODUCTION

15:45 – 16:00 **Mihai-Junior TORCATORU**, Maria Cristina TIMAR (Romania)
 AN EXPERIMENTAL METHOD TO EVALUATE THE CONTRIBUTION OF THE WOOD SUBSTRATE AND OF THE COATING FILM TO THE LIGHT INDUCED COLOUR CHANGES OF WOOD SURFACES

16:00 – 16:15 **Mihai-Junior TORCATORU**, Maria Cristina TIMAR (Romania)
 LIGHT INDUCED COLOUR CHANGES OF WOOD SURFACES IN INDOOR CONDITIONS DETERMINED BY AN ARTIFICIAL ACCELERATED TEST: INFLUENCE OF WOOD SPECIES AND COATING MATERIALS

SECTION 3: MECHANICAL WOOD PROCESSING AND SURFACE QUALITY

Chairman: Csilla CSIHA (Hungary)

16:15 – 16:30 **Luminita-Maria BRENCI**, Lidia GURAU (Romania)
 A STRATIFIED CHARACTERIZATION OF SURFACE QUALITY OF BEECH PROCESSED BY PROFILE MILLING

16:30 – 16:45 Andreas HAENSEL, Johannes TROEGER, Martin ROESSLER, Nora BRACHHOLD, **Peter NIEMZ** (Germany, Switzerland)
 INVESTIGATIONS ON THE INFLUENCE OF SURFACE TREATMENT ON THE BONDING QUALITY OF WOOD USED FOR LOAD-BEARING PURPOSES

16:45 – 17:00 **Bogdan BEDELEAN**, Mihai ISPAS, Sergiu RACASAN (Romania)
 APPLYING THE ARTIFICIAL NEURAL NETWORK AND RESPONSE SURFACE METHODOLOGY TO OPTIMIZE THE DRILLING PROCESS OF PLYWOOD

17:00 – 17:15 **Antonela LUNGU**, Lidia GURAU, Camelia COSEREANU (Romania)
 EVALUATION OF CNC ROUTED SURFACE QUALITY OF BEECH (*Fagus Sylvatica* L.) WITH DIFFERENT MILLING ANGLES AS FUNCTION OF GRAIN ORIENTATION

17:15 – 17:30 **Marko PETRIC**, Jaka LEVANIC, Dabosmita PAUL (Slovenia, Czech Republic)
 INSTRUMENTED MICROINDENTATION IN RESEARCH OF SURFACE TREATED WOOD

17:30 – 17:45 Alen IBRISEVIC, Murco OBUCINA, Seid HAJDAREVIC, Goran MIHULJA, Manja Kitek KUZMAN, **Ibrahim BUSULADZIC** (Bosnia and Herzegovina)
 EFFECT OF GRAIN AND CUTTING DIRECTION OF DIFFERENT WOOD SPECIES ON SURFACE QUALITY OBTAINED BY CNC MILLING

19:00 → **WELCOME COCKTAIL – ARO PALACE Hotel, White Room (ground floor)**

*The speakers are highlighted with blue color.

SECTION 1: WOOD STRUCTURE AND PROPERTIES

Chairman: Peter NIEMZ (Switzerland)

08:30 – 08:45 *Matyas BADER, Maximilian CZICZER (Hungary)***FACTS ABOUT CYLINDRICAL HORNBEAM LOGS COMPARED TO FLUTED - GROWTH LOGS****08:45 – 09:00** *Iulia DEACONU, Maria Cristina TIMAR, Bogdan BEDELEAN, Mihaela CAMPEAN (Romania)***COMPARATIVE RESEARCH REGARDING THE HYDROPHILIC EXTRACTIVES CONTENT IN TURKEY OAK AND SESSILE OAK WOOD AND THEIR RELATED STAINING SUSCEPTIBILITY BY REACTION WITH IRON****09:00 – 09:15** *Florin DINULICA, Cristian HICIU, Daniel Constantin SANDOR, Catalin Constantin ROIBU, Andrei MURSA, Marian STIRBU, Mariana Domnica STANCIU (Romania)***THE RELATIONSHIP BETWEEN STRUCTURE AND ACOUSTIC PROPERTIES OF SYCAMORE MAPLE WOOD****09:15 – 09:30** *Roxana GAL, Eugenia FILIMON, Sergiu Valeriu GEORGESCU, Mariana Domnica STANCIU (Romania)***THE EFFECT OF ARTIFICIAL AGING ON THE COLOR PARAMETERS OF THE VARNISH USED IN THE CONSTRUCTION OF MUSICAL INSTRUMENTS****09:30 – 09:45** *James Kudjo GOVINA, Robert NEMETH, Miklos BAK, Matyas BADER (Hungary)***EFFECT OF VARIABLE GROWTH CONDITIONS ON SELECTED ANATOMICAL PROPERTIES OF HUNGARIAN TURKEY OAK WOOD****09:45 – 10:00** *Victor GRUBII, Jimmy JOHANSSON (Sweden)***INFLUENCE OF SLICED THICKNESS ON THE TENSILE MECHANICAL PROPERTIES OF OAK (*Quercus robur* L. AND *Quercus petraea* L.) LAMELLAE****10:00 – 10:15** *Daniel Fernandez LLANA, Violeta GONZALEZ-ALEGRE, Justo GARCIA-NAVARRO, Guillermo INIGUEZ-GONZALEZ (Spain)***DEVELOPMENT OF A RECOVERED TIMBER GRADING SYSTEM****10:15 – 10:30** *Anamaria MORARU-AVRAM, Aurel LUNGULEASA, Cosmin SPIRCHEZ, Constantin Stefan IONESCU (Romania)***SOME DIFFERENCES AND SIMILARITIES BETWEEN WOOD OF THREE UNIFORMLY STRUCTURED SPECIES SUCH AS LINDEN, BALSA AND PAULOWNIA****10:30 – 11:00** **COFFEE BREAK – Main Hall of University Aula**

*The speakers are highlighted with blue color.

SECTION 1: WOOD STRUCTURE AND PROPERTIES (continuation)

Chairman: Rupert WIMMER (Austria)

11:00 – 11:15 **Gabor MOLNAR**, Loredana Anne-Marie RADULESCU, Aurel LUNGULEASA (Romania)

WOOD PRODUCTS USING RAW MATERIAL WOOD FROM FOREST SANITATION – BENDING TEST

11:15 – 11:30 **Ruxandra NEDELICU**, Maria Cristina TIMAR, Emanuela Carmen BELDEAN (Romania)

CHROMATIC CHARACTERISATION AND COLOUR VARIABILITY OF SUBFOSSIL OAK (*Quercus* spp) FROM THREE SOURCES FROM ROMANIA

11:30 – 11:45 **Ruxandra NEDELICU**, Maria Cristina TIMAR, Mihaela POROJAN, Emanuela Carmen BELDEAN (Romania)

SELECTED PHYSICAL AND MECHANICAL PROPERTIES OF SUBFOSSIL OAK (*Quercus* spp.) IN COMPARATION WITH AGED OAK FROM CONSTRUCTION AND RECENT OAK

11:45 – 12:00 Szabolcs KOMAN, **Robert NEMETH**, Matyas BADER (Hungary)

OVERVIEW OF THE CURRENT SITUATION OF EUROPEAN POPLAR CULTURES WITH A MAIN FOCUS ON HUNGARY

12:00 – 12:15 **Peter NIEMZ**, Dick SANDBERG (Switzerland, Sweden)

CREEP BEHAVIOUR OF WOOD AND WOOD BASED MATERIALS - STATE OF THE ART AND OPEN QUESTIONS

12:15 – 12:30 Matyas BADER, **Tamas SAJDIK** (Hungary)

ELONGATION RESERVE ANALYSIS OF PLEATED WOOD WITH DIFFERENT MOISTURE CONTENTS AND LACTIC ACID TREATMENT

12:30 – 12:45 **Mariana Domnica STANCIU**, Manuela MICU, Vasile Ghiorghe GLIGA, Silviu Marian NASTAC, Mihaela CAMPEAN, Voichita BUCUR, Alina Maria NAUNCEF (Romania, Australia)

STUDY OF THE ACOUSTIC PROPERTIES OF VIOLINS IN THE CONCERT HALL VERSUS THE ANECHOIC CHAMBER

12:45 – 13:00 **Mariana Domnica STANCIU**, Calin MARASESCU, Lidia GURAU, Maria Cristina TIMAR, Lara SABO, Mihaela COSNITA, Ghiorghe Vasile GLIGA, Adriana SAVIN, Gabriel DOBRESU (Romania)

THE EFFECT OF THE NUMBER OF VARNISH LAYERS ON THE PHYSICAL AND DYNAMIC PROPERTIES OF THE SOUNDBOARD FOR MUSICAL INSTRUMENTS

13:00 – 14:00 **LUNCH** – *Main Hall of University Aula*



*The speakers are highlighted with blue color.

SECTION 1: WOOD STRUCTURE AND PROPERTIES (continuation)Chairman: **Camelia COSEREANU** (Romania)

- 14:00 – 14:15** **Jun TANABE**, Anna KAJIYA, So HANAOKA, Yoko FUKUDA (Japan)
CLONAL VARIATIONS OF WOOD PROPERTIES IN *PICEA GLEHNII* AND RELATIONSHIPS OF THEM WITH CLIMATE FACTOR OF THEIR GEOGRAPHIC ORIGINS
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- 14:15 – 14:30** Paschalina TERZOPOULOU, **Vasiliki KAMPERIDOU**, Ioannis BARBOUTIS (Greece)
UTILIZATION POTENTIAL OF TREE-OF-HEAVEN SPECIES BIOMASS - A REVIEW
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- 14:30 – 14:45** Juhani MARTTILA, Veikko MOTTONEN, Antti HAAPALA, Pekka YLIMAKI, Petri KILPELAINEN, **Erkki VERKASALO** (Finland)
WOOD MATERIAL PROPERTIES OF FOREST FIRE DAMAGED NORWAY SPRUCE AND SCOTS PINE FOR MECHANICAL WOOD PROCESSING IN FINLAND
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- 14:45 – 15:00** **Fath Alrhmman A.A. YOUNIS**, Robert NEMETH (Hungary)
WITHIN AND AMONG TREES VARIATION IN MOISTURE CONTENT AND THE GROSS DENSITY OF FRESHLY FELLED *SCLEROCARYA BIRREA* AND *ANOGEISSUS LEIOCARPUS* GROWING IN SUDAN
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- 15:00 – 15:15** **Alvin Muhammad SAVERO**, Jong Ho KIM, Byantara Darsan PURUSATAMA, Denni PRASETIA, Nam Hun KIM (Republic of Korea)
ANATOMICAL CHARACTERISTICS OF SIX KOREAN OAK WOOD SPECIES

SECTION 9: CIRCULAR ECONOMY IN WOOD INDUSTRYChairman: **Camelia COSEREANU** (Romania)

- 15:15 – 15:30** **Mark IRLE**, Flore LEBRETON, Marie KUTTER (France)
THE LIFESPANS OF PRODUCTS MADE WITH MDF
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- 15:30 – 15:45** **Erkki VERKASALO**, Veikko MOTTONEN, Tarmo RATY, Asta PARTANEN, Christopher VOM BERG, Gunilla PILZ, Mariapia D'ANGHELA, Giovanni TOSI (Finland, Germany, Italy)
SWOT ANALYSIS AND GOOD PRACTICES ON SIDE STREAM UTILIZATION AND WASTE MANAGEMENT IN WOOD CONSTRUCTION VALUE CHAIN IN FOUR MACRO-REGIONS IN EUROPE
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- 15:45 – 16:00** **John Rhys WILLIAMS** (UK)
RE-USING STRUCTURAL TIMBER IN SMITHFIELD MARKET. LONDON'S LAST GREAT RUIN
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- 16:00 – 16:15** Benjamin KROMOSER, Bernhard REINHOLZ, Roman MYNA, Sara REICHENBACH, Falk LIEBNER, **Rupert WIMMER** (Austria)
CIRCULAR ECONOMY IN WOOD CONSTRUCTION THROUGH ADDITIVE MANUFACTURING OF FULLY RECYCLABLE HOUSE WALLS
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- 16:15 – 16:30** **COFFEE BREAK – Main Hall of University Aula**

*The speakers are highlighted with blue color.

Friday, November 3rd

Room **U I 2**

SECTION 7: FURNITURE DESIGN

Chairman: Lidia GURAU (Romania)

- 16:30 – 16:45 **Bogdan BEDELEAN**, Cosmin SPIRCHEZ (Romania)
BENDING MOMENT CAPACITY OF L-SHAPED HEAT-TREATED WOOD JOINTS: A COMPARATIVE STUDY BETWEEN DOWEL AND BISCUITS
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- 16:45 – 17:00 Seda BAS, **Csilla CSIHA**, Levente DENES (Hungary)
STRENGTH ANALYSIS OF FURNITURE JOINT CONNECTORS RELATIVE TO WOOD DOWEL PINS
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- 17:00 – 17:15 **Antoniu NICOLAU**, Mihai Alin POP, Sergiu Valeriu GEORGESCU, Camelia COSEREANU (Romania)
APPLICATION OF ADDITIVE MANUFACTURING TECHNOLOGY FOR CHAIR PARTS CONNECTIONS
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- 17:15 – 17:30 Alin M. OLARESCU, **Mihnea MOLNAR-VARLAM** (Romania)
FURNITURE DESIGN FOR VISUALLY IMPAIRED PEOPLE
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- 17:30 – 17:45 **Martin ZACH**, Jiri TAUBER, Premysl DOHNAL, Jaroslav SVOBODA (Czech Republic)
DESIGNING MULTI-FUNCTIONAL MAGNETIC STORAGE CUBES FOR USE IN MODERN HOMES AND SCHOOLS

19:00 → **BANQUET – ARO PALACE Hotel, Ballroom**



*The speakers are highlighted with blue color.

SECTION 6: RESTORATION-CONSERVATION OF WOODEN OBJECTS

Chairman: Nicola MACCHIONI (Italy)

08:45 – 09:00 *Anamaria MORARU-AVRAM*, Constantin Stefan IONESCU, Aurel LUNGULEASA (Romania)

EFFECTS OF SOLVENTS USED FOR CONSERVATION/RESTORATION TREATMENTS ON DAMAGED LINDEN PANELS OF CULTURAL HERITAGE ASSETS

09:00 – 09:15 *Oana Maria CHIVU (ILIE)*, Florina (MIHU) PETCU, Melania MATA, Georgiana GAMALIE, Emanuela Carmen BELDEAN (Romania)

LOST AND FOUND HERITAGE CONSERVATION AND RESTORATION OF A DOWRY CHEST FROM GORJ COUNTY

09:15 – 09:30 Ioannis BARBOUTIS, George OIKONOMIDIS, *Vasiliki KAMPERIDOU* (Greece)

3D DIGITALIZING AND REPRODUCTION OF A 17TH CENTURY BEMA DOOR

09:30 – 09:45 *Nicola MACCHIONI*, Giovan Battista FIDANZA, Lorena SOZZI (Italy)

WOOD FOR CARVING: RESULTS FROM A DATABASE ON STATUARY IN ITALY

09:45 – 10:00 *Florina (MIHU) PETCU*, Emanuela Carmen BELDEAN, Diana CHIS, Bianca VASILE (Romania)

ANTIQUÉ FINISHES VALORISED IN FURNITURE RESTORATION

10:00 – 10:15 *Susan M. MILLIS* (UK)

SURFACE COATING PYROGRAPHY: FURTHER STUDY WITH UV STABILISERS

10:15 – 10:30 *Maria Cristina TIMAR*, Oana Maria CHIVU (ILIE), Georgiana GAMALIE, Emanuela Carmen BELDEAN (Romania)

CONSERVATION OF AN EARLY 19TH CENTURY HOLY DOOR. THE MAIN STEPS AND RESULTS

10:30 – 11:00 **COFFEE BREAK – Main Hall of University Aula**



*The speakers are highlighted with blue color.

SECTION 4: WOOD-BASED COMPOSITES

Chairman: Mark IRLE (France)

11:00 – 11:15 **Tolgay AKKURT**, Alexander SCHARF, Jaan KERS, Anti ROHUMAA (Estonia, Sweden, Finland)

USE OF LOW-QUALITY WOOD SPECIES BY DENSIFICATION IN LOAD BEARING VENEER-BASED COMPOSITE

11:15 – 11:30 **Marius Catalin BARBU**, Helmut RADAUER, Eugenia Mariana TUDOR, Markus KATHRINER, Alexander PETUTSCHNIGG (Romania, Austria)

LIGHTWEIGHT SOLID WOOD PANELS MADE OF PAULOWNIA PLANTATION WOOD

11:30 – 11:45 **Marius Catalin BARBU**, Gerald STUGER, Jakob KARL, Eugenia Mariana TUDOR (Romania, Austria)

HIGHLY DENSIFIED LAMINATED COMPOSITES WITH PRE-COMPRESSED VENEERS

11:45 – 12:00 **Aujchariya CHOTIKHUN**, Rattikal LAOSENSA, Jitralada KITTIJARUWATTANA, Lee Seng HUA, Kanokorn SAE-UENG, Charoen NAKASON, Yutthapong PIANROJ, Emilia-Adela SALCA (Thailand, Malaysia, Romania)

ELEMENTAL COMPOSITIONS OF WOOD PLASTIC PELLETS MADE FROM SAWDUST AND REFUSE-DERIVED FUEL (RDF) WASTE

12:00 – 12:15 **Desislava HRISTODOROVA**, Vladimir MIHAILOV (Bulgaria)

INFLUENCE OF DENSITY ON THE WITHDRAWAL STAPLE STRENGTH FROM HEMP SHIVES PANELS

12:15 – 12:30 **Viktor SAVOV**, Desislava HRISTODOROVA (Bulgaria)

APPLICABILITY OF HEMP SHIVES PANELS AS A MATERIAL FOR FURNITURE FRAME STRUCTURES

12:30 – 12:45 **Jan IZDINSKY** (Slovakia)

PROPERTIES OF PARTICLE BOARDS FROM SELECTED WOOD

12:45 – 13:00 Octavia ZELENIUC, **Mohammad Hassan MAZAHERIFAR**, Camelia COSERIANU, Andrei SUCIU (Romania)

DATE PALM HYBRID COMPOSITES

13:00 – 14:00 **LUNCH** – Main Hall of University Aula



*The speakers are highlighted with blue color.

Friday, November 3rd

Room **U I 3**

SECTION 4: WOOD-BASED COMPOSITES (continuation)

Chairman: Marius Catalin BARBU (Romania)

- 14:00 – 14:15** **Meysam NAZARI**, Mohamed JEBRANE, Nasko TERZIEV (Sweden)
ENGINEERED WOOD MATERIAL WITH BIO-BASED PHASE CHANGE MATERIAL AND MICRONISED COPPER FOR BUILDING APPLICATIONS
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- 14:15 – 14:30** **Tomas PIPISKA**, Marek NOCIAR, Pavel KRAL, Jozef RAHEL, Pavlo BEKHTA, Roman REH, Lubos KRISTAK, Miroslav JOPEK (Czech Republic, Slovakia)
STRANDBOARD PROPERTIES OF LESS-KNOWN WOOD SPECIES
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- 14:30 – 14:45** **Haruna SEIDU**, Robert NEMETH, Francis Wilson OWUSU, James KORANG, Emmanuel APPIAH-KUBI, James Kudjo GOVINA, Fath Alrhman A.A. YOUNIS, Safia IBRAHIM (Hungary, Ghana)
MECHANICAL PROPERTIES OF PF AND MUF BONDED JUVENILE HYBRID EUCALYPTUS PLYWOOD PRODUCED IN GHANA
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- 14:45 – 15:00** **Cosmin SPIRCHEZ**, Aurel LUNGULEASA, Carmen-Mihaela POPESCU, Anamaria MORARU-AVRAM, Constantin Stefan IONESCU (Romania)
PROPERTIES OF NATIVE AND TORREFIED POPLAR PLYWOOD AND MEDIUM DENSITY FIBERBOARD (MDF)
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- 15:00 – 15:15** Liesa GUNTHER, **Johannes Sebastian JORDA**, Marius Catalin BARBU (Austria, Germany, Romania)
STUDY OF THE PHYSICAL AND MECHANICAL PROPERTIES OF CEMENT BONDED PARTICLEBOARDS MADE OF BARK
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- 15:15 – 15:30** **CLOSING REMARKS. DISCUSSIONS**

15:30 – 16:00 **COFFEE BREAK** – *Main Hall of University Aula*



*The speakers are highlighted with blue color.

Friday, November 3rd

Room **U I 3**

SECTION 10: THE USE OF WOOD ALONG THE SILK ROADS

Chairman: Patrizia CARIOTI (Italy)

- 16:00 – 16:15 **Duraiswamy DAYALAN** (India)
THE ROLE OF INDIAN TIMBER TRADE IN THE SILK - ROAD NETWORK
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- 16:15 – 16:30 **German KIM** (Kazakhstan)
WOODEN COMPONENTS OF THE YURT – TRADITIONAL DWELLING OF THE CENTRAL ASIAN NOMADS ALONG THE SILK ROADS
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- 16:30 – 16:45 **Asadov MANSUR** (Uzbekistan)
THE USE OF WOOD ALONG THE SILK ROAD: THE CASE OF WOOD ART CRAFT AT SAMARKAND IN UZBEKISTAN
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- 16:45 – 17:00 **Maria SIRAGO** (Italy)
THE CONSTRUCTION OF BOATS (GALLEY, GALLEASSES, VESSELS, BRICKS) IN SOUTHERN ITALY BETWEEN 1500 AND 1800
-
- 17:00 – 17:15 **Hyunseob YOON** (Korea)
THE APPLICATION OF TRADITIONAL KOREAN PAINT AND LACQUER TO PAST WOOD AND MODERN WORKS

19:00 → **BANQUET – ARO PALACE Hotel, Ballroom**



*The speakers are highlighted with blue color.

Saturday, November 4th

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.

14:00-15:30 Rustical lunch at the bottom of Bucegi mountains

16:30-17:00 Arrival in Brasov - ARO Palace Hotel

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