



# IRG57 Programme

**Monday 25 May**

07:00-

**Durability Dash**  
**IRG57 Fun Run/Fun Walk**

13:30-18:00

**Registration**  
**Lobby of VIP Building**

18:00-

**Welcome Reception**  
**Weilan Hujing Restaurant on Maya Island**

## Tuesday 26 May

<b>Peony Ballroom</b>	<b>Opening Plenary Session</b> President: Miha HUMER Vice-President: Hiroshi MATSUNAGA Secretary-General: Mats WESTIN	
08:30-08:40	<b>Opening Ceremony of the 57<sup>th</sup> Annual Conference</b> <b>Opening address by</b> Miha Humer, President, The International Research Group on Wood Protection Prof. Zhaohu Li, President, Beijing Forestry University	
08:40-09:00	<b>Plenary</b> 1. Opening of the meeting 2. Approval of the agenda 3. Membership issues - New regular and student members, new corporate members and members deceased 4. Announcement of this year's award recipients - Honorary Life-Long Membership - Ron Cockcroft Award	26-60564
<b>Peony Ballroom</b>	<b>Scientific Main Session – keynote</b> Chair: Hiroshi MATSUNAGA, Jinzhen CAO	
09:00-09:30	Current status of wood protection in China <b>W Dang</b> , J Liu, C Qi <b>Language: English</b>	26-20779
09:30-10:00	Advancements in bamboo processing and protection in China <b>W Yu</b> , Y Zhang, Y Huang, S Zhang <b>Language: Chinese, with simultaneous interpretation</b>	26-41074
<b>10:00-10:30</b>	<b>Coffee / Tea - Corridor: Outside Peony Ballroom</b>	
<b>Peony Ballroom</b>	<b>Scientific Main Session – section papers</b> Chairs: Hiroshi MATSUNAGA, Mark MANKOWSKI, Gerald PRESLEY, Kévin CANDELIER, Jinzhen CAO, Boštjan LESAR	
10:30-10:50	Bioprospecting Amazonian wood extracts for the formulation of a natural wood protection treatment <b>E Kiény</b> , K Candelier, D C Florez Parra, Y Estevez, J Damay, R Lehnebach, M-F Thevenon, J Bossu	26-11091
10:50-11:10	Influence of microwave treatment on the durability of <i>Eucalyptus globulus</i> heartwood exposed to white rot fungi <b>F J R Mascarenhas</b> , J B Paes, A M Pereira, G Dias, A L Christoforo, R M Santos Simões	26-20773
11:10-11:30	Chemical modification of wood in low-FA aqueous systems using kraft lignin and bark-derived products <b>R Herrera</b> , A Selmanovic, C Peña-Rodriguez, O Gordobil	26-30839
11:30-11:50	Towards durable outdoor wooden sculptures – A case study from Ukanc (Slovenia) <b>D Kržišnik</b> , M Vuga, K Kavkler, T Božič, J Vinder, M Humar	26-41055
11:50-12:10	Commercial mycelium composite and substrate characterisation for sustainable thermal and acoustic insulation panel <b>E Maidiono</b> , J Li, P E Stoicescu, H Kallakas, P F Alao, J Kers	26-50421
12:10-12:30	Discussion and questions	
<b>12:30-13:30</b>	<b>Lunch: Dongfangyuan Cafeteria</b>	

<b>Parallel Session A - Peony Ballroom</b>		
<b>13:30-15:10</b>	<b>SS 1: Bamboo and other Non-wood Building Materials</b> (with simultaneous interpretation) Conveners: Koichi YAMAMOTO, Yan YU	
	Borate protection for the sustainable use of bamboo E Laval, <b><u>S Shi</u></b>	26-11084
	Temporal variation in mechanical and chemical properties of bamboo decayed by <i>Schizophyllum commune</i> QP33 X Guo, X He, X An, Y Zhang, X Wu, H Wang, F Sun, <b><u>S Han</u></b>	26-11085
	Hempcrete in practice: A case study of bio-based housing construction in Slovenia S Mani, P Zorec, <b><u>D Kržišnik</u></b>	26-11086
	Uncovering the cracking behaviour and mechanism of round bamboo via investigating the dynamic variation of culm parameters during water loss <b><u>X Ren</u></b> , Q Fan, S Han, X Wu, H Wang, F Sun, Y Zhang	26-11092
	Resistance of bamboo scrimber modified with furfuryl alcohol against decay fungi and termites <b><u>W Li</u></b> , G Xie, H Ma, Y Li, X Li, L Li	26-30841
	Effect of vanillin synergistic white-rot fungal pretreatment on the mould resistance of bamboo <b><u>X Guo</u></b> , Y Zhang, X Wu, S Han, H Wang, F Sun	26-30846
	Discussion and questions	
<b>15:10-15:30</b>	<b>Coffee / Tea - Corridor: Outside Peony Ballroom</b>	
<b>15:30-16:50</b>	<b>SS 1: Bamboo and other Non-wood Building Materials (cont.)</b> (with simultaneous interpretation) Conveners: Qinglin WU, Yuxiang HUANG	
	Field exposure test of Moso Bamboo ( <i>Phyllostachya heterocycle</i> ) and Japanese cedar ( <i>Cryptomeria japonica</i> ) felled seasonally <b><u>K Yamamoto</u></b> , K Kawakami, T Osawa, R Noda	26-41054
	Durable mould-resistant bamboo: Preparation, performance, and exterior applications <b><u>C Han</u></b> , D Meng, T Li, Z Xue, Y Zhu, X Li	26-41060
	Bamboo fibre-directed mycelium composites with record mechanical performance enabled by hierarchical structuring and bio-interface engineering <b><u>J Kong</u></b> , X Ji, M Zhou, J Cao	26-41062
	Performance of wood-grass fibre insulation boards J Van de Perck, B Peeters, P Willems, R Van den Bossche, N Van Den Bossche, <b><u>L De Ligne</u></b>	26-41066
	Moisture diffusion characteristics of bamboo: The role of radial anatomical gradients <b><u>W Zhao</u></b> , H Peng, H Chen, T Zhan, L Cai, J Lyu	26-41070
	Discussion and questions	
<b>17:00-18:30</b> <b>19:00 -</b>	<b>Followed by the Poster Session on the next page, President's Reception (upon invitation) – Luolan Restaurant</b>	

17:00-17:55	Poster Session (Short Talks: Peony Ballroom) Convener: Hiroshi MATSUNAGA	
17:00-18:30	Poster exhibition (Peony Ballroom)	
Short talk	Micro-distribution of copper in hem-fir treated with micronised copper azole <b>D Feng</b> , M Turner, P D Evans	26-20780
Short talk	Preservative potential of extract from the invasive weed <i>Ageratum conyzoides</i> L. for sustainable wood protection: Effects on dimensional stability and decay resistance of <i>Populus deltoides</i> <b>L Patiyal</b> , B Dutt, B Gupta	26-20781
Short talk	Effects of surface-applied fire-retardants on the fire performance of commercial MBC panels <b>J Li</b> , E Maidiono, P F Alao, H Kallakas, J Keers	26-20782
Short talk	Design and evaluation of layered flame-retardancy for structural wood composites with excellent fire shielding and ultrahigh strength <b>S Wang</b> , Z Cheng, H Zheng, C Mei, M Pan	26-20783
Poster only	Microwave treatment of <i>Eucalyptus grandis</i> × <i>urophylla</i> : Effects of comprehensive chemical and structural changes on the hygroscopic behavior of eucalyptus <b>Y Zhang</b> , Y Zhang, L Lin, Y Zhou, F Fu	26-20784
Poster only	From waste to value: wood extractives for enhancing light aging resistance of wood surfaces <b>L Yan</b> , R Zhao	26-20785
Poster only	Elucidating oxidative degradation of phenol-formaldehyde adhesive induced by mould colonisation <b>R Yang</b> , S Xu, H Wang, X Wu, S Han, C Jin, F Sun, J Huang, Y Cao, Q Wu	26-20786
Short talk	Durability and dimensional stability of <i>Eucalyptus grandis</i> densified wood <b>C M Ibañez</b> , L Gomez, M Laborda, S Bothig, L Moya, G Bruzzone	26-20787
Short talk	Contact charring of underutilised poplar for end-grain flooring <b>L Han</b> , D Cui, A Kutnar	26-30855
Poster only	A green strategy based on in-situ lignin fusing and reorganisation: Synergistic enhancement of dimensional stability and permeability in bamboo <b>S Chu</b> , Y Li, Y Shi, L Lin, F Fu	26-30856
Short talk	A wood-based “sandwich-structured” sponge for simultaneous removal of micro/nanoplastics and organic pollutants <b>M Guo</b>	26-30857
Short talk	Catalyst-free aqueous furfuryl alcohol pretreatment enables ultrahigh compression and enhanced performance of densified wood <b>M Huang</b> , Y Liang, J Su, Y Yu	26-30858
Short talk	Synergistic enhancement of hygroscopicity and dimensional stability of <i>Populus</i> spp. via lithium-based deep eutectic solvent modification <b>Z Luo</b> , E Ma, W Wang	26-30859
Short talk	Toward durable plantation timbers: Integrating thermal modification, boron diffusion, and in-situ bioactive systems <b>M Akbarnezhad</b> , T Singh, K Wood, J Norton	26-30860

Poster only	Effects of different penetrating modifications on the properties of Chinese fir <b>Y Cao</b> , Y Fu, M Lai, P Wei, W Li, Y Li	26-30861
Short talk	A coral shell-inspired biomimetic soy protein adhesive towards electromagnetic shielding wood-based composites <b>L Cai</b> , X Zhang, Y Li, H Li, S Liao, J Luo, P Song, J Li, Q Gao, H Chen, Ji Li	26-41076
Poster only	Thermal conductivity composites for high output triboelectric nanogenerators under high temperature <b>J-Q Lang</b> , C Li, Q Liu, M-G Ma	26-41077
Short talk	Densification strategies for multifunctional modified wood/MXene composite films for electromagnetic shielding <b>Q Liu</b> , M-G Ma	26-41078
Short talk	Enhancing the performance of magnesium oxychloride cement-based wood adhesives with natural organic acids <b>X Sun</b> , A Zhang, S Gong, W Zhou, J Li	26-41079
Poster only	Biological surface engineering of multi-scale bamboo elements via fungal treatment for enhanced interfacial adhesion <b>R Wei</b> , Y Wang, Y Xia	26-41080
Short talk	Ultrasonic-based computed tomography (USCT) of ancient timber structures considering the compensation of chord angle wave velocity using LTI-SIRT algorithm <b>D Chen</b> , X Ling	26-41081
Short talk	Molecular dynamics modeling and experimental validation of wood lignin tensile behaviour under varying moisture contents and temperatures <b>S Yue</b> , B Zhou, C Qi	26-41082
Short talk	Damage under long-term hygro-mechanical coupling: Experimental characterisation and numerical simulation <b>Z Zhan</b> , Y Sun, C Qi, R Gu, L Dai	26-41083
Poster only	A creep deformation prediction model for shelf boards in furniture engineering design <b>H Lian</b> , L Chang, F Zhang, L Kang, S Xu, Y Wang, S Liang	26-41084
Short talk	Wood reuse potential in the circular wood industry of Bosnia and Herzegovina <b>R Hasanagić</b> , E Japić	26-50423
Short talk	Optimisation strategies for carbon sequestration and emission reduction in nearly zero-energy timber structure in cold regions <b>W Liu</b> , S Wang, L Su, L Dai, C Qi	26-50424
19:00 -	<b>President's Reception (upon invitation)</b> <b>Luolan Restaurant</b>	

	<b>Parallel Session B – Multimedia Conference Room</b>	
<b>13:30-15:10</b>	<b>WP 3.4 Surface modification Conveners: Kévin CANDELIER, Ru LIU</b>	
	A review of the manufacture, properties and performance of charred wood cladding <b>D Jones</b> , A Pitman	26-30848
	Durable superhydrophobic wood enabled by elastic network and sacrificial ZnO nanorods <b>Q Liu</b> , W Gao	26-30849
	In-situ growth of ZnO nano particles on balsa wood aimed to catalytic degradation toward organic pollutants <b>Y Liu</b> , W Gao	26-30850
	Synthesis of highly UV-resistant wood surfaces by surface-initiated atom transfer radical polymerisation <b>Y Mori</b> , K Maezaki, M Kiguchi	26-30851
	Achieving durable superhydrophobicity on wood tangential surfaces through alkali-etching-induced roughness <b>J Su</b> , M Huang, L Zhang, R Yang	26-30854
	Discussion and questions	
<b>15:10-15:30</b>	<b>Coffee / Tea - Corridor: Outside Peony Ballroom</b>	
<b>15:30-16:10</b>	<b>WP 3.1 Thermal modification Conveners: Dennis JONES, Shaodi ZHANG</b>	
	Comparative analysis of weathering resistance in densified and thermally modified wood <b>A Ghavidel</b> , J Zhou	26-30835
	Effects of heat treatment atmosphere on the molecular deformation of cellulose in Chinese fir wood under tensile stress <b>Z Chen</b> , W Liu, X Zhang, Y Yu, F Guo	26-30853
	Discussion and questions	
<b>16:10-16:50</b>	<b>WP 3.3 Other penetrating modifications Conveners: Dennis JONES, Shaodi ZHANG</b>	
	Impact of tannic acid and boric acid on calcium carbonate in situ wood mineralisation for enhanced fire resistance properties <b>M Durimel</b> , L De Ligne, B Parakhonskiy, J Van den Bulcke, A Skirtach, J Van Acker	26-30844
	Pre- and post-treatments of thermo-mechanically densified beech wood to improve the set recovery and reduce discolouration <b>K Valová</b> , T Franke, T Volkmer	26-30847
	Discussion and questions	
<b>17:00-18:30</b> <b>19:00 -</b>	<b>Poster Session (see previous page) President's Reception (upon invitation) Luolan Restaurant</b>	

## Wednesday 27 May

Wednesday 27 May		
Parallel Session A - Multimedia Conference Room		
08:30-10:10	<b>SS 2: Plantation Timbers: Properties, Modification and Wood Protection</b> <b>Conveners: Yanjun XIE, Dennis JONES</b>	
	Assessment of anti-termitic activity of natural compounds for eco-friendly wood preservatives <b><u>I E Duruanyim</u></b> , J M Owoyemi, S O Fabivi	26-11087
	Development of smouldering inhibitors for copper-based preservative treated softwoods <b><u>Z Darabi</u></b> , T Singh, J J Morrell, F Wiesner, L Yermán	26-20766
	Enhancing physical-mechanical properties and flame retardancy of fir with lignin-based aqueous modifier <b><u>F Yu</u></b> , Y Wang, Y Xie, Z Qiu, T Zhang, Z Xiao	26-20768
	Evaluation between colour parameters and hydrophobic properties/dimensional stability of thermally modified poplar wood <b><u>L Zhang</u></b> , M Liu, Y Liu, J Wang, Y Lei, Z Chen, L Yan	26-30836
	Fabrication of shape memory wood via in-situ polymerisation of PEGDA/MMA O Nan, <b><u>F Sun</u></b> , X Ren, X Wu, H Zhang, H Wang, S Han, Y Zhang	26-30840
10:10-10:30	<b>Coffee / Tea - Corridor: Outside Peony Ballroom</b>	
10:30-12:30	<b>SS 2: Plantation Timbers: Properties, Modification and Wood Protection (cont.)</b> <b>Conveners: Juan GUO, Kévin CANDELIER</b>	
	Vapour-phase acetylation modification of Chinese fir wood <b><u>C Zhong</u></b> , Z Li, J Jiang	26-30842
	Mechanical and anti-fungal properties of ICQDs and ICQDs-FA treated poplar wood <b><u>Y Dong</u></b> , Z Zhang, W Wang, J Cao	26-30843
	Dyeing wood materials for interior decoration of the automobiles F Guo, <b><u>Q Fu</u></b>	26-30845
	Processing hydrophilic poplar wood into a durably superhydrophobic material by a facile surface modification with furfuryl alcohol pre-polymer and TiO <sub>2</sub> nanoparticles <b><u>T Yang</u></b> , D Luo, L Wang, C Mei	26-30852
	Biomass-based radiative cooling coupled phase change thermal regulation composites for dynamic building thermal management <b><u>W Deng</u></b> , C Yang, Y Qian, Z Sheng, C Fan, Y Yan, Y Zhang, W Sun, X Guo	26-41059
	Innovative practices in the pattern design and functional application of wood-based panels <b><u>M TIAN</u></b>	26-41085
	Discussion and questions	
12:30-22:00	<b>Scientific Field Trip (Boxed Lunch in the buses)</b> 1.Beijing Ancient Architecture Museum 2.Beijing Longshuncheng Jingzuo Intangible Cultural Heritage Museum 3.Beijing Forestry University's wood products research labs Dinner@Beijing Forestry University (19:00-21:00)	

<b>Parallel Session B - Paddy Hall</b>		
<b>08:30-10:10</b>	<b>WP 4.3: Wood-based composites</b> <b>Conveners: Joris van ACKER, Wei GAO</b>	
	Preparation of functional thermal energy storage wood products based on multiple anti-leakage strategies for passive energy-saving buildings <b>Z Ba</b> , F Yu, D Liang, Z Xiao, Z Qiu, H Wang, Y Wang, Y Xie	26-41058
	Harvesting electricity from the multiple dynamic processes of water through the hierarchical structure of wood utilised for water transport <b>L Kong</b> , Z Qiu, Y Wang, Y Xie, Z Xiao	26-41061
	Thermal management and nanogenerator technology based on nanocellulose composites <b>J-Q Lang</b> , X-X Ji, M-G Ma	26-41063
	Transforming decayed wood waste into hierarchical porous carbon: Tailoring pore structures for capacitive deionisation <b>D Lu</b> , Y Ran, W Wang, Y Huang	26-41064
	An ultra-strong wood-based phase change material for efficient photothermal conversion and thermal energy conservation <b>C Qiu</b> , W Sun, X Guo	26-41065
	Discussion and questions	
<b>10:10-10:30</b>	<b>Coffee / Tea – Corridor: Outside Peony Ballroom</b>	
<b>10:30-12:10</b>	<b>WP 2.1: Wood preservatives</b> <b>Conveners: Paul MERRICK, Yuan ZHU</b>	
	Non-pressure borate protection of Douglas fir and grand fir laminates for more sustainable cross-laminated timber <b>A T Adeniran</b> , K R Englund, H Li, J D Lloyd	26-20760
	Impact of secondary oil treatments on long-term wood preservative performance <b>J M Duma</b> , M Chen	26-20761
	Evaluation of olive leaf and rosemary extracts as natural antifungal agents for wood protection <b>Z Nowrouzi</b> , M Petrič, M Skrt, P Simić, N Poklar Ulrih, M Humar, A Žagar	26-20764
	Morphology-controlled syringaldehyde microemulsions achieve deep wood penetration and enhance decay resistance via silane crosslinking J Wang, Z Liu, Z Wang, H Wang, L Zhang, R Zhang, <b>L Yan</b>	26-20765
	Long-term durability performance of copper-based preservative-treated wood in ground-contact exposure in the Republic of Korea S L Kwon, H-M Lee, J-H Jung, <b>W-J Hwang</b>	26-20788
	Discussion and questions	
<b>12:10-12:30</b>	<b>WP 1.1: Microorganisms</b> <b>Conveners: Paul MERRICK, Jinzhen CAO</b>	
	The role of hemicellulose degradation in incipient wood decay by brown-rot and white-rot fungi Y Li, C Huang, Y Mao, W Zeng, X Zhao, <b>Y Zhu</b> , X Li	26-11093
	Discussion and questions	
<b>12:30-22:00</b>	<b>Scientific Field Trip (Boxed Lunch in the buses)</b> 1.Beijing Ancient Architecture Museum 2.Beijing Longshuncheng Jingzuo Intangible Cultural Heritage Museum 3.Beijing Forestry University's wood products research labs Dinner@Beijing Forestry University (19:00-21:00)	

## Thursday 28 May

Parallel Session A - Multimedia Conference Room		
08:30-09:30	<b>WP 2.2: Fire Retardants</b> <b>Conveners: Hiroshi MATSUNAGA, Yoshikazu Mori</b>	
	ZnP-H <sub>2</sub> Im coordination polymer glass for flame-retardant wood: In situ vitrification, synergistic mechanisms, and integrated fire warning Z Zhang, J He, Y Wu, J Luo, <b>W Qu</b>	26-20769
	Innovative approaches for weathering-resistant flame-retardancy based on basic zirconium carbonate or the combination of impregnation resins and flame retardants in wood <b>J Karthäuser</b> , M Wu, J M Lins, K W Flecknoe-Brown, H Militz	26-20767
	A selective catalytic pyrolysis strategy for fire safety biomaterials <b>Z Li</b> , S Wang, H Gu, S Sun, M Pan	26-20778
	Discussion and questions	
09:30-10:00	<b>WP 2.3: Other protecting chemicals</b> <b>Conveners: Hiroshi MATSUNAGA, Yoshikazu Mori</b>	
	Photoprotective and antifungal performance of TiO <sub>2</sub> and ZnO nanoparticles on wood surfaces exposed to artificial UV and natural weathering <b>V A Hernandez</b> , R Romero, P D Evans	26-20770
	Discussion and questions	
10:10-10:30	<b>Coffee / Tea – Corridor: Outside Peony Ballroom</b>	
10:30-12:30	<b>WP 2.4: Treatability of wood and Quality control of processes and materials</b> <b>Conveners: Erni MA, Li YAN</b>	
	Microwave-induced changes in sorption properties, anatomy, and preservative retention of Norway spruce heartwood <b>S Ganguly</b> , D Kržišnik	26-20771
	Advancing quality control in the Royal process: The role of X-ray fluorescence (XRF) spectroscopy at Talgø MøreTre <b>P O Flæte</b> , M Fiske	26-20772
	Upscaling of wood mineralisation and study of penetration with alizarin red <b>J Van Acker</b> , J Simons, M Durimel, L De Ligne, B Parakhonskiy, J Van den Bulcke, A Skirtach	26-20774
	Preliminary development of an interpretable machine learning tool to verify treated timber penetration compliance <b>Z Yan</b> , Z Xin, Y Zhou, J Norton, T Singh	26-20775
	The influence and mechanism of surfactants on liquid penetration efficiency in wood <b>R Zhang</b> , E Ma, J Cao	26-20776
	Copper penetration to wood as studied by hyperspectral and $\mu$ XRF imaging <b>M Humar</b> , B Lesar, L Kopač, J Levanič, E Keržič	26-20777
	Discussion and questions	
12:30-13:30	<b>Lunch: Dongfangyuan Cafeteria</b>	

Parallel Session B - Paddy Hall		
08:30-10:10	<b>WP 4.1: Laboratory and field performance</b> Conveners: Miha HUMER, Qiliang FU	
	12-Year performance of polyurea-coated Douglas-fir timbers exposed in Hilo Hawaii M J Konkler, J Cappellazzi, G Presley, <b>JJ Morrell</b>	26-41050
	Efficacy of plant polyphenolic extracts in controlling the termite <i>Reticulitermes flavipes</i> (Isoptera: Rhinotermitidae) under laboratory conditions D Messaoudi, S Dupont, C Bouzar, <b>M Westin</b> , A-G Bagnères	26-41051
	Effect of preservative penetration and heartwood content on long-term above-ground durability of <i>Pinus radiata</i> J Norton, Z Yan, <b>T Singh</b>	26-41052
	Effect of natural weathering on the fire reaction of wood cladding M Vrhovec, N Knez, M Kitek Kuzman, <b>B Lesar</b>	26-41053
	Performance of self-tapping screws under climate-induced degradation in Australian chemically treated timber: Experimental evaluation and preliminary insights <b>Z Yan</b> , T Singh, L Ottenhaus	26-41057
10:10-10:30	<b>Coffee / Tea - Corridor: Outside Peony Ballroom</b>	
10:30-11:10	<b>WP 4.1: Laboratory and field performance (cont.)</b> Conveners: Tripti SINGH, Tengfei YI	
	Field evaluation of ground contact durability and mechanical performance of boron-treated Scots pine CLT panels A Demir, H Öztürk, O İlhan, A U Birinci, C Demirkir, <b>E D Gezer</b>	26-41071
	Field performance and mechanical behaviour of copper azole-treated Scots pine CLT panels in ground contact conditions H Öztürk, A Demir, O İlhan, A U Birinci, C Demirkir, <b>E D Gezer</b>	26-41072
	Discussion and questions	
11:10-11:50	<b>WP 4.2: Service life</b> Conveners: Tripti SINGH, Tengfei YI	
	Durability of wood and wood-based products in construction. Spanish Standard pr-UNE 56427 J Fernández-Golfín, <b>D Lorenzo</b> , M Touza, F Arriaga, F Peraza	26-41073
	Survey on biological deterioration damage in wooden houses based on demolition investigations <b>T Kawada</b> , K Usami	26-41075
	Discussion and questions	
12:30-13:30	<b>Lunch: Dongfangyuan Cafeteria</b>	

<b>Parallel Session C – Carnation Hall</b>		
<b>08:30-10:10</b>	<b>WP 1.2: Insects &amp; Marine borers</b> <b>Conveners: Babar HASSAN, Shuaibo HAN</b>	
	Impact of termite-induced damage on the mechanical performance of timber <b>B Hassan</b> , A Faircloth, C Kumar, J J Morrell	26-11088
	Formosan termite resistance and strength retention properties of polyglycol borate topically treated framing/CLT lumber <b>Q Wu</b> , J Curole, J D Lloyd	26-11089
	Termites of coastal Cambodia <b>W Sparks</b> , T Freneat, P D Evans	26-11090
	Strategies in the protection of wooden structures affected by subterranean termites in historical towns in Spain <b>D Lorenzo</b> , A Lozano, J Benito	26-11094
	Cross-evaluation of effectiveness of geotextiles for protection of wood from marine borer attack in North Adriatic Sea <b>I Guarneri</b> , M Humar, B Lesar, J R Shipway, M Sigovini, D Tagliapietra †, J Müller	26-11095
	Discussion and questions	
<b>10:10-10:30</b>	<b>Coffee / Tea - Corridor: Outside Peony Ballroom</b>	
<b>10:30-11:10</b>	<b>WP 5.3: Environmental impact</b> <b>Conveners: Liselotte De LIGNE, Chusheng QI</b>	
	Feedback on the organisation of a week-long immersion in wood sciences for young people aged 8 to 11: Wood Sciences - To Learn Together <b>K Candelier</b> , T Alvarez Diaz, T Lambre, L-D Talavera, M Chamby, A Ansour, S Bardet	26-50419
	Discussion and questions	
<b>11:10-12:10</b>	<b>WP 5.4: Circular economy of wood products</b> <b>Conveners: Liselotte De LIGNE, Chusheng QI</b>	
	From MDF residues to eco-friendly construction blocks: EcoReFibre, Smartpanel and NIBIO pilot achieves TRL7 in wood recycling <b>E Larnøy</b> , P Lewandowski	26-50418
	Reviewing material intensities, technologies, characteristics, product and building design with underutilised wood in HORIZON project WoodStock <b>L De Ligne</b> , P Nanda, K Bringedal Gedde, J O'Hagan, K Zdziarska, Š Vrtovec, J Van den Bulcke, WoodStock consortium	26-50420
	End-of-life utility poles in Australia: Quantifying the resource and pathways for timber circularity P Mitchell, M Harris, M Strandgard, <b>T Singh</b>	26-50422
	Discussion and questions	
<b>12:30-13:30</b>	<b>Lunch: Dongfangyuan Cafeteria</b>	

<b>13:30-15:00</b>	<b>WP 4.4: Analysis and Standards</b> <b>Conveners: Jeff Morrell, Wei QU</b>	
	Update on timber decay hazard map of Australia <b>C Kumar</b> , L Francis, B Hassan, J Dorries	26-41056
	Wood deterioration assessment of ancient architectural wooden structures by multi-technology integration X Li, <b>J Guo</b>	26-41067
	NIR hyperspectral imaging-based identification of European wood species – Model selection and case studies <b>L Kopač</b> , M Humar	26-41068
	Characterisation and combustion behaviour of Australian hardwood species <b>L Yermán</b> , W Wu	26-41069
	Discussion and questions	
<b>15:00-15:30</b>	<b>Coffee / Tea - Corridor: Outside Peony Ballroom</b>	
	<b>Final Plenary Session</b> <b>(Peony Ballroom) see last page for details</b>	

<b>Parallel Session D – Peony Ballroom</b>		
<b>13:30-14:10</b>	<b>WP 2.5: Wood protection by design and new protection concepts</b> Conveners: Yoshikazu MORI, Tiantian YANG	
	Termite damage and management in wooden architectural heritage in Korea: A 20-year review and future perspectives <b>S-H Kim</b>	26-20762
	Tree frog–inspired indoor architectural skin: Scalable, leak–proof, bondable thermal energy storage wood for low–carbon buildings Z Ba, F Yu, H Fan, Z He, X Fa1, Y Sh, <b>Y Wang</b> , X Li, Y Li, D P Wadu, D Liang, Y Wang, H Zhang, C Xu, Z Xiao, Z Qiu, H Wang, Y Xie	26-20763
	Discussion and questions	
<b>14:10- 14:50</b>	<b>WP 3.2: Chemical modification</b> Conveners: Emma KIENY, Dennis JONES	
	In-situ synthesis of carbon quantum dots in wood for enhanced decay resistance <b>X Chen</b> , Y Dong, L Yu, X Zhao, M Zhou, J Cao	26-30837
	Overcoming the dimensional instability of compressed wood: An innovative strategy for structural materials <b>X Han</b> , D Guo, S Yang, G Li, S Zhang	26-30838
	Discussion and questions	
<b>15:00-15:30</b>	<b>Coffee / Tea - Corridor: Outside Peony Ballroom</b>	
<b>15:30-16:30</b>	<b>Final Plenary Session</b> President: Miha Humar Vice-President: Hiroshi Matsunaga Secretary-General: Mats Westin <b>Peony Ballroom</b>	
	5. Approval of the Annual Report 2025 and Auditor’s report 6. Granting discharge for the Executive Council and Secretary-General from the administration and accountancy for 2025 7. Approval of membership fees for 2027 8. Approval of the budgets for 2026 (forecast May 2026) and 2026 9. Election of new officers 10. Appointment of auditors 11. Future venues 12. Any other business	IRG/WP 26-60564  IRG/WP 26-60568 IRG/WP 26-60567
<b>19:00-</b>	<b>CONFERENCE BANQUET</b> <b>Jinchen Hall in the VIP Building</b>	

