

Programme
IRG48 Scientific Conference on Wood Protection, 4-8 June 2017, Ghent, Belgium

Sunday 4 June	
15:30-18:30	Registration
18:30-21:00	Welcome reception at 't Pand, convention centre UGent (address: Onderbergen 1)

Monday 5 June

<i>Refter</i>	Opening Plenary Session President: Joris Van Acker Vice-President: Lone Ross Gobakken Secretary-General: Jöran Jermer	
08:30-08:40	Opening Ceremony of the 48th Annual Conference Opening address by Joris Van Acker, President, The International Research Group on Wood Protection Local Organizing Committee	
08:40-09:00	Plenary 1. Opening of the meeting 2. Approval of the agenda 3. Membership issues - Ratification of the election of new members since last year's Plenary 4. Announcement of Ron Cockcroft Award recipients 5. Approval of the Annual Report 2016 and Auditors' report 6. Granting discharge for the Executive Council and Secretary-General from the administration and accountancy for 2016	17-60XXX 17-60XXX

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<i>Refter</i>	Scientific Main Session - keynotes Chair: Lone Ross Gobakken	
09:00-09:40	<i>Local keynote</i> Durability of energy efficient wooden buildings: a building physical point of view <u>Staf Roels</u> , J Langmans	17-40812
09:40-10:10	<i>Keynote</i> Service Life Forecasting and Planning – Why, and Concepts to do it <u>Christer Sjöström</u>	17-20625
10:10-10:30	Questions	
10:30-11:00	Coffee / Tea	

<i>Refter</i>	Scientific Main Session – section papers Co-conveners: Rod Stirling, Miha Humar, Lehong Jin, Tripti Singh, Morten Klamer	
11:00-11:20	Section 1 - Biology Novel wood treatments improve resistance to the wood-boring marine isopod <i>Limnoria quadripunctata</i> H Bowen, <u>M Montibus</u> , M Kutnik, S M Cragg	17-10899
11:20-11:40	Section 2 – Test methodology and assessment Ensuring Quality of Treated Wood – Regulations, Certifications and Associative Background in the Field of Wood Protection in Europe <u>M Kutnik</u> , M Klamer, E Melcher	17-20626
11:40-12:00	Section 3 – Wood protection chemicals Encapsulated Active Ingredients for Wood Preservation <u>E Oenem-Siakou</u> , R Möller, R Craciun, J Wittenzellner, J Habicht	17-30717
12:00-12:20	Section 4 – Processes and properties Review on protection of timber bridges in Norway and other countries K-C Mahnert, <u>U Hundhausen</u>	17-40809

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12:20-12:40	Section 5 – Sustainability and Environment A Green and Novel Technology for Recovering Copper and Wood from Treated Wood Waste – Part II: Optimization, copper metal recovery, and process design <u>S Chen</u> , R Patel	17-50326
12:40-13:30	Lunch	

<i>Refter</i>	Working Party Session WP 1.2. Basidiomycetes Conveners: Juliet Tang & Katie Ohno	
13:30-13:50	Untreated and copper-treated wood soaked in sodium oxalate: Effects of decay by copper-tolerant and copper-sensitive fungi <u>K M Ohno</u> , A B Bishell, C A Clausen	17-10888
13:50-14:10	Interactions between fungal glutathione transferases and wood extractives T Perrot, F Saiag, N Amusant, S Dumarçay, P Gérardin, M Morel-Rouhier, R Sormanil, <u>E Gelhaye</u>	17-10894
14:10-14:30	Effects of exposure time on detection of the behavior of white-rot fungi on Oriental beech wood properties E Bari, D D Nicholas, K M Ohno	17-10902
<i>Refter</i>	Working Party Session WP 3.3. Performance - lab & field tests Conveners: Ulrich Hundhausen & Boštjan Lesar	
14:30-14:50	Field Performance of Refractory Species Treated with MCA <u>R Stirling</u> , J K Ingram, P I Morris	17-30706
14:50-15:00	Anti-fungal activity of rutin and rutin-metal complexes as wood protectants <u>Li Yan</u> , J J Morrell, Jie Zhong, Xiuzhu Mao	17-30708
15:00-15:30	Coffee / Tea	

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<i>Refter</i>	Working Party Session WP 3.3. Performance - lab & field tests (cont.) Conveners: Ulrich Hundhausen & Boštjan Lesar	
15:30-15:50	Decay Resistance of MDF Manufactured with Huntite- Hydromagnesite and Zinc borate U E Başer, <u>D Ustaömer</u> , Ö Özgenç	17-30710
15:50-16:10	Bio-friendly wood protection systems - resistance to mould and blue-stain fungi <u>L Ross Gobakken</u> , W Perdoch, B Mazela, P Kwaśniewska-Sip, G Cofta	17-30713
16:10-16:30	Weathering protection of European hardwoods through double modification <u>G Behr</u> , A Gellerich, S Bollmus, H Militz	17-30715
16:30-16:50	10 year Report on COST E37 Round Robin Tests – Comparison of results from laboratory and field tests <u>M Westin</u> , E Conti, J Creemers, P-O Flæte, A Gellerich, I Irbe, M Klamer, E Melcher, R Moeller, L Nunes, S Palanti, L Reinprecht, E Suttie, H Viitanen	17-30718
16:50-17:10	Agar block durability test of plywood made of neem (<i>Azadiracta indica</i>) leaves treated veneer using two white rot fungi <u>K Akhter</u> , M A Hashem, S Akhter	17-40782
19:00-21:00	President's RECEPTION (upon invitation, at medieval castle Gravensteen)	

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<i>Rector Vermeylen</i>	Working Party Session WP 4.4. Coatings, hydrophobic treatments and surface aspects Conveners: Laurence Podgorski & Phil Evans	
13:30-13:50	Susceptibility to filamentous fungi of plywood for furniture coated with waterborne acrylic lacquers A Fojutowski, M Nowaczyk-Organista, P Hochmańska	17-40778
13:50-14:10	Effect of Particle Size on Wax Distribution in Paraffin Wax Emulsion Impregnated Wood Wang Wang, <u>Jinzheng Cao</u> , Yiheng Huang	17-40779
14:10-14:30	Black-stain Resistant Acrylic Latexes for Wood Coatings Applications <u>G Boivin</u> , A M Ritcey, P I Morris, V Landry	17-40786
14:30-14:50	Bacterial adhesion to selected wood finishes <u>M Petrič</u> , D Kekec, J Žigon, K Godič Torkar, K Bohinc	17-40793
14:50-15:00	Surface Protection of Wood with Metal Acetylacetonates <u>Yuner Zhu</u> , P D Evans	17-40802
15:00-15:30	Coffee / Tea	

<i>Rector Vermeylen</i>	Working Party Session WP 4.4. Coatings, hydrophobic treatments and surface aspects (cont.) Conveners: Laurence Podgorski & Phil Evans	
15:30-15:50	Studying Weathering Performance of Coatings on Thermally Modified Wood <u>M Nejad</u> , M Dadbin, P Cooper	17-40805
15:50-16:10	Organosilicon-based impregnation hydrophobers for wood <u>J-P Lecomte</u> , J Van Acker, J Van den Bulcke, M Kutnik, M Montibus, S Salvati, S Derocker	17-40808
16:10-16:30	Fungal growth on coated wood exposed outdoors: influence of coating pigmentation, cardinal direction and inclination of wood surfaces <u>L Podgorski</u> , C Reynaud, M Montibus	17-10896
16:30-16:50	The Comparison of Weathering Resistance of New Generation Wood-Coating Systems Ö Özgenç, <u>S Durmaz</u>	17-40789

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16:50-17:10	Thermal stability of a wood protective biofinish and the influence of flame retardants on Aureobasidium cells <u>S Rensink</u> , E A M Klein Rot, M F Sailer	17-30716
19:00-21:00	President's RECEPTION (upon invitation, at medieval castle Gravensteen)	

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Tuesday 6 June

<i>Refter</i>	Special session: Quality control of treated/modified wood Conveners: Miha Humar & Ina Stephan	
08:30-08:50	Case study: "Riesenhühturm" <u>E Melcher</u> , J Müller	17-20599
08:50-09:10	Use of small volume cups in XRF analysis of treated wood retention <u>R Stelzer</u> , A Taylor, P Lebow	17-20602
09:10-09:30	Quality of the impregnated wood in the Slovenian hardware stores <u>M Humar</u> , B Lesar, N Thaler, D Kržišnik, N Kregar, S Drnovšek	17-20606
09:30-09:50	Consistency of performance of acetylated wood <u>F Bongers</u> , J van Zetten	17-20608
09:50-10:10	Overview of the treated wood quality control program in the United States with the recent challenges and advances <u>L Jin</u>	17-20616
10:10-10:30	New Standards for Approval of Modified Wood within the Nordic Wood Preservation Council (NWPC) N Morsing, E Engelund Thybring, <u>M Klamer</u>	17-20624
10:30-11:00	Coffee / Tea	
<i>Refter</i>	Special session: Quality control of treated/modified wood (cont.) Conveners: Miha Humar & Ina Stephan	
11:00-11:20	Guidance on the European Biocidal Products Regulation Concerning Efficacy of Wood Preservatives <u>I Stephan</u> , M Kutnik, E Conti, M Klamer, L Nunes, J Van Acker, R Plarre	17-20627
11:20-11:40	Questions	

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<i>Refter</i>	Working Party Session WP 2.2. Microbial test methodology Conveners: Eric Gelhaye & Antje Gellerich	Refter
11:40-12:00	Laboratory test to determine the effect on durability of combining biobased building materials with timber in construction <u>S F Curling</u> , G A Ormondroyd	17-20604
12:00-12:20	Monitoring Diversity and Colonization Patterns of Wood-Inhabiting Fungi Using Field Stake Tests <u>P Torres-Andrade</u> , J Cappellazzi, J J Morrell	17-20614
12:20-12:40	NGS analysis of fungal OTUs in Aquilaria sp. from French Guyana, Cambodia, Laos and Thailand <u>C Zaremski</u> , C Malandain, O Sibourg, C Andary, G Michaloud, M Ducouso, N Amusant, A Zaremski	17-50328
12:40-13:30	Lunch	

<i>Refter</i>	Special session: Timber Bridges Conveners: Christian Brischke & Davor Kržišnik	
13:30-13:50	Solid Timber Bridges – Latest Developments F Miebach	17-40788
13:50-14:10	Modelling of moisture content in timber bridge details J Niklewski, <u>C Brischke</u> , E Frühwald Hansson, L Meyer-Veltrup	17-20613
14:10-14:30	Evaluation of timber bridges with special consideration of detail design <u>K Robbers</u> , J Fromm, E Melcher	17-40781
14:30-14:50	Comparative Durability of Timber Bridges in the USA J P Wacker, B K Brashaw	17-20615
14:50-15:00	Prefabricated modular wooden bridges <u>L Jayanetti</u>	17-40785
15:00-15:30	Coffee / Tea	

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<i>Refter</i>	Special session: Timber Bridges (cont.) Conveners: Christian Brischke & Davor Kržišnik	
15:30-15:50	The potential and the challenges of acetylated wood in timber bridges - experiences from an ongoing project <u>A Treu</u> , R Bredesen, F Bongers	17-40792
15:50-16:10	In-service performance of treated plywood bridge decks in Australia <u>M A Powell</u>	17-40794
16:10-16:30	Borate and Copper Naphthenate Dual Treatment of Bridge Timbers-Borate movement over time <u>J-W Kim</u> , J D Lloyd	17-40795
16:30-16:50	Dual Borate and Copper Naphthenate Treatment of Bridge Timbers: Potential Performance Enhancements and Cost Savings <u>J Lloyd</u> , C Brischke, R Bennett, A Taylor	17-40797
16:50-17:10	Performance of Norway spruce bridge in North-West Spain after 12 years exposure <u>D Lorenzo</u> , J Fernández-Golfín, M Touza, M Guaita, A Lozano, J Benito	17-40796
17:10-17:30	A summary of history and use of timber bridges in New Zealand D Page, <u>T Singh</u>	17-40801

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<i>Refter</i>	Poster Session Convener: Joris Van Acker	
17:30-18:30	POSTER SESSION (IRGWP 17-60414) – 3 min presentations	
	Evaluation of Particulate Materials as a Physical Barrier against Termites under Floor of Experiment House Y Yanase, Y Fujiwara, Y Fujii, T Mori, T Yoshimura, S Doi	17-10900
	Exploration of waterlogged piles and wooden constructions of Riga Dome Cathedral B Andersons, I Andersone, I Irbe, V Fridrihsone, R Lūsis	17-10901
	Expression of endogenous glycoside hydrolases through metamorphosis of the shipworm <i>Lyrodus pedicellatus</i> C Slevin, S Cragg	
	European Research Infrastructure for Circular Forest Bioeconomy (ERIFORE) J Garcia Jaca, M Azpeitia, A Butron	
	Multivariate modeling of mould growth in relation to extractives in dried Scots pine sapwood O Karlsson, O Myronycheva, M Sehlstedt-Persson, M Öhman, D Sandberg	17-20629
	Assessing the nutrient value of bio-based materials in relation to early fungal growth L De Ligne, J Van den Bulcke, J Baetens, B De Baets, J Van Acker	17-20631
	Testing of the resistance of acetylated wood against marine borers at three Italian sites S Palanti, M Faimali, D Tagliapietra, M Andrenacci, M Anichini, M Sigovini	17-30719
	Functional silicones used for wood protection: preliminary study C Reynaud, F Marchal, F Pochon, M Kutnik	17-30720
	Wood protection with nanoparticles: MgF₂ and CaF₂ S Usmani, J Schlichka, K Klutzny, Y de Laval, R Plarre, T Krahl, I Stephan, T Hübner, E Kemnitz	
	The nanoparticle-wood interaction – a fundamental study towards new materials for pressure impregnation of pine and beech wood D Bossert, C Geers, A Finka	
	Depictions on Wood: Acceptation and Internalization of Wood, which is an intercultural interaction tool, as	17-40776

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	“A Valuable Object” (Wood is a Symbol of Civilization) I Usta	
	Controlled deposition of copper nanoparticles using wood inherent architecture as natural template Youming Dong, Kaili Wang, Yutao Yan, Jianzhang Li, M Hughes, Shifeng Zhang	17-40783
	Evaluation of coating applied in treated wood: experiences in Brazil M Fernandez Natale, J M Vidal	17-40814
	Radio frequency heating times for sterilization radiata pine solid piles H Esquivel, V Sepúlveda, J Torres, L Salvo, R A Ananías	17-40815
	Corrosion verification experiment of the screw driven into CLT N Wada, H Ishiyama, S Yamamoto	17-40816
	Water absorption characteristics of CLT D Yokoi, H Ishiyama, Y Hirano	17-40817
	Influence of sea water on timber and metal joints T Nishimura, H Ishiyama, F Hirose, N Wada	17-40818
	Aesthetic changes of coated thermally modified wood after artificial weathering R Herrera, J Sandak, E Robles, J Labidi	17-40819
	Markers of quality in self-bonded beech boards C Cristescu, D Sandberg, O Karlsson	17-40820
18:30-19:30	Poster session RECEPTION	

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<i>Rector Vermeylen</i>	Working Party Session WP 1.4 Natural Durability Conveners: Marie-France Thévenon & Nadine Amusant	
08:30-08:50	Effects of climatic factors and material properties on mould growth on untreated wooden claddings <u>S Karlsen Lie</u> , G I Vestøl, O Høibø, L Ross Gobakken	17-10884
08:50-09:10	Comparative studies on the durability of English oak (<i>Quercus robur</i> L.) under in-service, field and laboratory conditions <u>C Brischke</u> , L Meyer-Veltrup, A Soetbeer, M Höpken, E Melcher, J Trautner	17-10881
09:10-09:30	Assessing the natural durability for different tropical timber species using the mini-block test <u>V Deklerck</u> , I De Windt, N Defoirdt, J Van den Bulcke, H Beeckman, E Espinoza, J Van Acker	17-10886
09:30-09:50	Natural durability of <i>Sextonia rubra</i>, an Amazonian tree species: description and origin <u>E Houël</u> , A Rodrigues, E Nicolini, O Ngwete, C Duplais, D Stien, N Amusant	17-10887
09:50-10:10	A review on prediction methods of wood natural durability <u>N Amusant</u> , C Flora, J Beauchène, E Houël, C Duplais	17-10892
10:10-10:30	Comparison of 1H qNMR and NIR spectroscopic methods to predict heartwood decay resistance in <i>Dicorynia guianensis</i> Amsh <u>C Flora</u> , G Frédéric, M-F Thévenon, Y Estevez, C Duplais, N Amusant	17-20601
10:30-11:00	Coffee / Tea	

<i>Rector Vermeylen</i>	Working Party Session WP 1.4 Natural Durability Conveners: Marie-France Thévenon & Nadine Amusant	
11:00-11:20	Chemical compositions and anti-termite activities of essential oils from Gabonese <i>Canarium schweinfurthii</i> Engl, <i>Dacryodes buettneri</i> Engl and <i>Aucoumea klaineana</i> Pierre wood resins W Fiacre Bédoungindzi, P E Engonga, K Candelier, S Dumarçay, M Ludovic, M F Thévenon, P Gérardin	17-10895

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<i>Rector Vermeylen</i>	Working Party Session WP 5.2. Sustainability Conveners: Morten Klamer & Lars Tellnes	
11:20-11:40	How carbon stored in harvested wood products contribute in a greenhouse gas accounting perspective <u>G Alfredsen</u> , G Sjøgaard	17-50327
11:40-12:00	Young People's Perceptions about Wood <u>I Usta</u>	17-40777
<i>Rector Vermeylen</i>	Working Party Session WP 4.2. Wood composites, WPCs and Engineered wood products Conveners: Rebecca Ibach & Simon Curling	
12:00-12:20	The use of new, aqueous chemical wood modifications to improve the durability of wood-plastic composites <u>R E Ibach</u> , C M Clemons, G C Chen	17-40787
12:20-12:40	Mechanical, Physical and Biological Properties of Sandwich Biocomposites Panels manufactured from Food Packaging Waste A S O Mohareb, A H Hassanin, K Candelier, <u>M F Thévenon</u> , A Kilic, Z Candan	17-40791
12:40-13:30	Lunch	

<i>Rector Vermeylen</i>	Working Party Session WP 4.2. Wood composites, WPCs and Engineered wood products (cont.) Conveners: Rebecca Ibach & Simon Curling	
13:30-13:50	Physico-Mechanical and Biological Properties of Cement Bonded Particleboards from Nordmann Fir H Yel, <u>U Aras</u> , H Kalaycioglu	17-40798
13:50-14:10	Moisture behaviour and biological durability of high performance flax fibre reinforced composites <u>N Defoirdt</u> , J Van den Bulcke, F Bensadoun, J Ivens, I Verpoest, J Van Acker	17-40803
14:10-14:30	Hybrid green composites manufactured with glass fiber and jute fabric skin by VARTM process: Fungal, mold, and termite resistance tests <u>S N Kartal</u> , E Terzi, M Muin, A H Hassanin, T Hamuoda, A Kilic, Z Candan	17-40780

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<i>Rector Vermeylen</i>	Working Party Session WP 2.3. Chemical/physical analysis Conveners: Bruce Breedt & Anna Sandak	
14:30-14:40	The sorption behaviour of wood C Hill	17-20605
14:40-15:00	Monitoring of wood biodeterioration by infrared spectroscopy E Meneses Oliveira, <u>A Florian da Costa</u> , J W Batista Braga	17-20607
15:00-15:30	Coffee / Tea	

<i>Rector Vermeylen</i>	Working Party Session WP 2.3. Chemical/physical analysis (cont.) Conveners: Bruce Breedt & Anna Sandak	
15:30-15:50	Three-Dimensional Digital Image Correlation of Strains in Profiled Wood Decking Exposed to Wetting & Drying J Mallet, S Kalyanasundaram, <u>P D Evans</u>	17-20611
15:50-16:10	Rapid detection of the Alaska yellow cedar, <i>Callitropsis nootkatensis</i> (Cupressaceae) extractives using Fourier transform infrared (FT-IR) spectroscopy <u>S Lipeh</u> , J J Morrell	17-20612
16:10-16:30	Evaluation of surface cracks on wood – physical assessment versus subjective sensation <u>A Gellerich</u> , C Brischke, L Emmerich, L Meyer-Veltrup, P Kaudewitz	17-20617
16:30-16:50	Prediction of moisture content (MC) distribution on wooden surfaces through NIR hyperspectral imaging <u>I Burud</u> , P Stefansson, T Thiis, L Ross Gobakken	17-20622
16:50-17:10	Development of Potentiometric Enzyme Biosensor for Detection of Permethrin Preservative in Treated Wood M Nasir Mat Arip, <u>C Tan</u> , Gan Kee Seng	17-20628
17:10-17:30	Questions	

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Wednesday 7 June

<i>Rector Vermeylen</i>	Working Party Session WP 2.1. Prediction of service life Conveners: Linda Meyer-Veltrup & Jan Van den Bulcke	
08:30-08:50	Assessment of the quality and lifetime of wooden pile foundations <u>R W W M Klaassen</u> , A Jorissen, H Keijer	17-10883
08:50-09:10	Design and performance prediction of timber structures based on a factorization approach <u>L Meyer-Veltrup</u> , C Brischke	17-20603
09:10-09:30	Bio-deterioration of Southern Pine Stakes at Geographically Different Testing Sites <u>Jun Zhang</u> , J Horton	17-20609
09:30-09:50	Redwood Durability in NZ – Can pure culture laboratory tests predict outdoor service life <u>D O’Callahan</u> , C Chittenden, J van der Waals, D Meason, T Singh	17-20610
09:50-10:10	Prediction of service life – does aesthetic matter? <u>A Sandak</u> , J Sandak	17-20618
10:10-10:30	Influence of Weathering on Moisture Performance of Wood M Žlahtič-Zupanc, B Lesar, N Thaler, <u>M Humar</u>	17-20619
10:30-11:00	Coffee / Tea	

<i>Rector Vermeylen</i>	Working Party Session WP 2.1. Prediction of service life (cont.) Conveners: Linda Meyer-Veltrup & Jan Van den Bulcke	
11:00-11:20	COST FP 1303 Cooperative Performance Test – Results after two years outdoor exposure <u>B Lesar</u> , M Humar, C Brischke, L Meyer-Veltrup, D Jones, N Thaler, J M Abascal, G Alfredsen, B Brunnhuber, E Grodås, M Irle, J Kers, M Klamer, K-C Mahnert, E Melcher, S Palanti, M Noël, E Suttie, N Pfabigan, M Touza	17-20620
11:20-11:40	Moisture performance of wood determined in laboratory and field trials <u>D Kržišnik</u> , N Thaler, B Lesar, M Humar	17-20621

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11:40-12:00	An experimental study of mould growth and wood decay in timber frame walls <u>M Vanpachtenbeke</u> , J Van den Bulcke, I De Windt, J Langmans, S Roels, J Van Acker	17-20623
12:00-12:20	Decay of wood in outdoor above ground applications: Preview of results on the effect of climate and species in Spain J I Fernández-Golfin Seco, M Conde García, M R Diez Barra, M Conde García, L Acuña Rello, E Torres Álvarez, E Perea Alonso, <u>M T Troya</u>	17-20600
12:20-12:40	Questions	
12:40-13:00	Picnic lunch package	
	Excursion	
13:00-23:00	Excursion to the 'Westhoek'	

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<i>Rector Vermeylen</i>	Working Party Session WP 4.3. Treating processes & treatability of timber Conveners: Andreas Treu & Julien Trompetter	
08:30-08:50	Permeability of <i>Eucalyptus</i> wood improved by microwave treatment <u>Xia He</u> , Xianjun Li, Jie Xie, Xingyang Xiong	17-40773
08:50-09:10	Treatability of beechwood railway sleepers with potential creosote substitutes <u>N Pfabigan</u> , E Habla, R Gründlinger	17-40790
09:10-09:30	Plasma-assisted bleaching of blue-stain from lodgepole pine wood <u>A Jamali</u> , P D Evans	17-40799
09:30-09:50	The Effects of Pre-Microwave Treatment on Retention Levels And Some Mechanical Properties of Spruce Wood Treated with CCA E D Gezer, <u>S Kuştaş</u> , S Durmaz	17-40800
09:50-10:10	Penetration behaviour of different hydrophobic carrier substances for oily wood preservatives in Beech and Scots pine sapwood <u>M Starck</u> , A Gellerich, H Militz	17-40804
10:10-10:30	Questions	
10:30-11:00	Coffee / Tea	

<i>Rector Vermeylen</i>	Working Party Session WP 1.6. Cultural artefact protection Conveners: Wikbe Unger & Magdalena Broda	
11:00-11:20	The First Description of Soft-rot Cavity in Waterlogged Archaeological Woods by a Japanese Wood Anatomist Prof. F. Onaka in 1935 Yoon Soo Kim, <u>K Yamamoto</u>	17-10885
11:20-11:40	Influence of organosilicon compounds and nanocellulose treatment on dimensional stability of waterlogged elm wood <u>M Broda</u> , B Mazela, I Dąbek, A Dutkiewicz, H Maciejewski, R Markiewicz, M Grzeszkowiak, S Jurga	17-10891

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11:40-12:00	Underground timber constructions from the First World War are well preserved after 100 years <u>J Van Acker</u> , I De Windt, K Haneca, H Beeckman, F Claeys, S Vandenbussche, J Vandewalle, N Robeyst, A Willems	17-10897
12:00-12:20	Oak maturation casks at the Rodenbach brewery, an industrial heritage of the Flemish Community requiring protective measures <u>J Van Acker</u> , I De Windt, R Ghequire	17-10898
12:20-12:40	Effects of wollastonite nanofibers on biological resistance of historical paper against <i>Aspergillus niger</i> <u>H R Taghiyari</u> , A Kalantari, A Ershad-Langroudi, A Kalantari	17-10878
12:40-13:00	Picnic lunch package	
	Excursion	
13:00-23:00	Excursion to the 'Westhoek'	

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Thursday 8 June

<i>Refter</i>	Working Party Session WP 4.5. Thermal wood modification Conveners: Phillippe Gérardin & Kevin Candelier	
08:30-08:50	Is the SPM 15 effective? Survival of Pine Wood Nematode under thermal treatments L Robertson, M Conde, J C Cabrero, F Llinares, <u>M T Troya</u>	17-40775
08:50-09:10	Decay resistance of beams made from thermally modified Scots pine and Norway spruce after 6 years' exposure in ground contact S Metsä-Kortelainen, <u>H Viitanen</u>	17-40806
09:10-09:30	Decay resistance variability of European wood species thermally modified by industrial process <u>K Candelier</u> , L Pignolet, S Lotte, A Guyot, E Cuny, B Bousseau, M-F Thévenon	17-40807
09:30-09:50	Impact of heat treatment on physico-mechanical properties of torrefied Antholceistha djalonensis wood E A Iyiola, B Olufemi, J A Fuwape, J M Owoyemi	17-40811
09:50-10:10	Effects of heat treatment on sound absorption coefficients in nanosilver-impregnated and normal solid woods A Esmailpour, J Norton, H R Taghiyari, H Zolfaghari, S Asadi	17-40770
10:10-10:30	Effects of Nano-Wollastonite Impregnation on Fire Properties of Some Thermally-Treated Solid Wood Species <u>H R Taghiyari</u> , R Hossinpourpia, S Adamopoulos, A Jahangiri, D Rabie	17-40771
10:30-11:00	Coffee / Tea	

<i>Refter</i>	Working Party Session WP 4.1. Chemical wood modification Conveners: Erik Larnøy & Greeley Beck	
11:00-11:20	Commercialisation of DMDHEU Modified Wood in Australasia <u>B R Derham</u> , T Singh, H Militz	17-40772
11:20-11:40	Dimensional Stability of Melamine Formaldehyde-Treated Southern Pine	17-40774

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	<u>H M Barnes</u> , L S Sites, T S F A França, M G Sanders, F J N França	
11:40-12:00	Accessibility of hydroxyl groups in anhydride modified wood as measured by deuterium exchange <u>G Beck</u> , S Strohbusch, E Larnøy, H Militz, C Hill	17-40784
12:00-12:20	Influence of hygro-thermal treatment temperature and duration on dimensional stabilisation of wood modified with poly(butylene succinate) <u>C Grosse</u> , M Noël, L Rautkari, P Gérardin	17-40813
12:20-12:40	Corrosion of fasteners in furfurylated wood – final report after 9 years exposure outdoors J Jermer, B-L Andersson, <u>J Schalnat</u>	17-40810
12:40-13:30	Lunch	

<i>Rector Vermeylen</i>	Working Party Session WP 1.3. Insect biology and testing Conveners: Teresa de Troya & Rachel A Arango	
08:30-08:50	Evaluating the role of Actinobacteria in the gut of wood-feeding termites (<i>Reticulitermes</i> spp.) <u>R A Arango</u> , F Green III, V W Yang, J R Lindholm, N P Chotlos, K F Raffa	17-10880
08:50-09:10	On the Influence of Wood Destroying Fungi on the Feeding Intensity of Termites <u>W Unger</u> , T L Woods	17-10893
09:10-09:30	Analysis of hindgut bacterial phyla frequency and diversity in subterranean termites exposed to chitosan-treated wood <u>O Raji</u> , J D Tang, T Telmadarrehei, D Jeremic	17-10882
09:30-09:50	Durability Testing of a Cattail (<i>Typha</i> spp.) based Insulation Material against Termite Attack M Dass, <u>W Unger</u> , T L Woods-	17-10879
09:50-10:10	Nondestructive analysis of oviposition of the bamboo powderpost beetle <i>Dinoderus minutus</i> using acoustic emission and X-ray CT <u>H Watanabe</u> , Yi Yanase, Y Fujii	17-10889
10:10-10:30	Genetic characterisation of the deathwatch beetle – Call for support	17-10890

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	<u>M Höpken</u> , E Melcher, J Trautner	
10:30-11:00	Coffee / Tea	
Rector Vermeylen	Working Party Session WP 1.3. Insect biology and testing (cont.) Conveners: Teresa de Troya & Rachel A Arango	
11:00-11:20	Fipronil Concentrations in Soil after Vertical Termiticide Applications Using the “Termidor®H•P High Precision Injection System” B M Kard	17-20630
Rector Vermeylen	Working Party Session WP 5.1. Environment Conveners: Morten Klamer & Lars Tellnes	
11:20-11:40	Analysis of Wood Industrial Pollutants Based on Emission Coefficients <u>Chu Jie</u> , Ma Li, Zhangjing Chen	17-50325
11:40-12:00	Uncertainty in life cycle assessment of preservative treated wood – copper and freshwater ecotoxicity L G F Tellnes	17-50331
12:00-12:20	Review of Leaching Experiments of CCA-Treated Wood and Wood Treated with Copper-based Alternatives <u>A Jones</u> , J Marini, H Solo-Gabriele	17-50330
12:20-12:40	Biodegradation of creosote by white rot fungus <i>Phanerochaete chrysosporium</i> and a strains of <i>Pseudomonas</i> J Zabielska-Matejuk, A Stangierska, A Kropacz, E Kaczorek	17-50329
12:40-13:30	Lunch	

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<i>Rector Blancquaert</i>	Working Party Session WP 3.2. Organic preservatives Conveners: Roland Gründlinger & Elke van Nieuwenhuijzen	
08:30-08:50	Prevention of fungal damage of oil and date palm wood by organic acids <u>M Bahmani</u> , O Schmidt	17-10877
08:50-09:10	Activity of Two Strobilurin Fungicides Against Three Species of Decay Fungi in Agar Plate Tests <u>J D Tang</u> , T Ciaramitaro, M Tomaso-Peterson, S V Diehl	17-30704
09:10-09:30	Efficacy of <i>Erythropleum suaveolens</i> (potrodom) and <i>Distemonanthus benthamianus</i> (bonsamdua) water extractives on the durability of five Ghanaian less used timber species of varying perviousness and retentiveness <u>A Asamoah</u> , K Frimpong-Mensah, C Antwi-Boasiako	17-30705
09:30-09:50	The Protective Effect of Different Tree Bark Extractives against Decay Fungi <u>Ö Özgenç</u> , S Durmaz	17-30707
09:50-10:10	Copolymers of tannin extracts as wood protection agents <u>G Tondi</u> , L Sommerauer, A Oberle, A Petutschnigg, M-F Thevenon	17-30709
10:10-10:30	Liquefaction of woody waste: A novel approach in wood protection from CNSL based liquefied wood polyols <u>A Kumar</u> , G B.Nagarajappa, S Singh Chauhan	17-30711
10:30-11:00	Coffee / Tea	

<i>Rector Blancquaert</i>	Working Party Session WP 3.2. Organic preservatives (cont.) Conveners: Roland Gründlinger & Elke van Nieuwenhuijzen	
11:00-11:20	Liquefaction of woody waste: A novel approach in wood protection from CNSL based liquefied wood polyols <u>A Kumar</u> , G B.Nagarajappa, S Singh Chauhan	17-30711
11:20-11:40	Decay Resistance of Scotch pine Wood Impregnated with <i>Agaricus campestris</i> Bio-Protective Extract <u>S Yıldız</u> , Ü C Yıldız, A Yılmaz	17 30714

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11:40-12:00	Possibility of using lichen (<i>Usnea filipendula</i>) and mistletoe (<i>Viscum album</i> L.) extracts as potential natural wood preservative Ü C Yildiz, C Kiliç, A Gürgen, S Yildiz	17-30712
12:00-12:20	Questions	
12:20-12:40		
12:40-13:30	Lunch	

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<i>Refter</i>	Scientific Plenary Session Session Chair: Lone Ross Gobakken	
13:30-15:00	DISCUSSION FORUM: Challenges linked to stricter regulations on biocide in the wood preservative industry and wood coating industry Introductory speakers: Hanne Jenssen, Morten Klamer and Jörg Habicht	
15:00-15:30	Coffee / Tea	
<i>Refter</i>	Final Plenary Session cont. President: Joris Van Acker Vice-President: Lone Ross Gobakken Secretary-General: Jöran Jermer	
15:30-16:30	Plenary 7. Approval of membership fees for 2018 8. Approval of the budgets for 2017 (forecast May 2017) and 2018 9. Election of new officers XXX 10. IRG Secretariat and Secretary-General 11. Appointment of auditors 12. Future venues IRG 49: Johannesburg, South Africa XXX 2018; IRG 50; IRG 51 13. Any other business	17-60XXX 17-60XXX
19:30-23:00	CONFERENCE BANQUET (address: Oude Vismijn, Rekelingestraat 5)	