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

Refter	Opening Plenary Session	
	President: Joris Van Acker Vice-President: Lone Ross Gobakken Secretary-General: Jöran Jerme	er
	Opening Ceremony of the 48th Annual Conference	
	Opening address by	
08:30-08:40	Joris Van Acker, President,	
	The International Research Group on Wood Protection	
	Local Organizing Committee	
	Plenary	
	1. Opening of the meeting	
	2. Approval of the agenda	17-60413
	3. Membership issues	
	- Ratification of the election of new members since last year's Plenary	
	4. Announcement of Ron Cockcroft Award recipients	
08:40-09:00	5. Approval of the Annual Report 2016 and Auditors' report	17-60412
	6. Granting discharge for the Executive Council and Secretary-General from the administration and accountancy for 2016	

Monday 5 June IRG/WP 17-60415

Refter	Scientific Main Session - keynotes	
nejter	Chair: Lone Ross Gobakken	
	Local keynote	
09:00-09:45	Durability of energy efficient wooden buildings: a building physical point of view	17-40812
	Staf Roels, J Langmans	
	Keynote	
09:45-10:30	Service Life Forecasting and Planning – Why, and Concepts to do it	17-20625
	<u>Christer Sjöström</u>	
10:30-11:00	Coffee / Tea	
Refter	Scientific Main Session – section papers	
Kejter	Co-conveners: Rod Stirling, Miha Humar, Lehong Jin, Tripti Singh, Morten Klamer	
	Section 1 - Biology	
11:00-11:20	Novel wood treatments improve resistance to the wood-boring marine isopod Limnoria quadripunctata	17-10899
	H Bowen, <u>M Montibus</u> , M Kutnik, S M Cragg	
	Section 2 – Test methodology and assessment	17-20626
11:20-11:40	Ensuring Quality of Treated Wood – Regulations, Certifications and Associative Background in the Field of	
11.20 11.40	Wood Protection in Europe	
	<u>M Kutnik</u> , M Klamer, E Melcher	
	Section 3 – Wood protection chemicals	
11:40-12:00	Encapsulated Active Ingredients for Wood Preservation	17-30717
	<u>E Oenem-Siakou</u> , R Möller, R Craciun, J Wittenzellner, J Habicht	
	Section 4 – Processes and properties	17-40809
12:00-12:20	Review on protection of timber bridges in Norway and other countries	17-40009
	K-C Mahnert, <u>U Hundhausen</u>	
	Section 5 – Sustainability and Environment	
12:20-12:40	A Green and Novel Technology for Recovering Copper and Wood from Treated Wood Waste – Part II:	17-50326
	Optimization, copper metal recovery, and process design	
	<u>S Chen</u> , R Patel	
12:40-13:30	Lunch	

Monday 5 June IRG/WP 17-60415 Programme

Refter	Working Party Session WP 1.2. Basidiomycetes Conveners: Juliet Tang & Grant Kirker	
13:30-13:50	Untreated and copper-treated wood soaked in sodium oxalate: Effects of decay by copper-tolerant and copper-sensitive fungi K M Ohno, A B Bishell, C A Clausen	17-10888
Refter	Working Party Session WP 3.3. Performance - lab & field tests Conveners: Ulrich Hundhausen & Boštjan Lesar	
13:50-14:10	Field Performance of Refractory Species Treated with MCA R Stirling, J K Ingram, P I Morris	17-30706
14:10-14:30	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
14:30-14:50	Decay Resistance of MDF Manufactured with Huntite- Hydromagnesite and Zinc borate U E Başer, <u>D Ustaömer</u> , Ö Özgenç	17-30710
14:50-15:00	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
15:00-15:30	Coffee / Tea	
Refter	Working Party Session WP 3.3. Performance - lab & field tests (cont.) Conveners: Ulrich Hundhausen & Boštjan Lesar	
15:30-15:50	Weathering protection of European hardwoods through double modification <u>G Beh</u> r, A Gellerich, S Bollmus, H Militz	17-30715
15:50-16:10	10 year Report on COST E37 Round Robin Tests – Comparison of results from laboratory and field tests M Westin, 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
16:10-16:30	Questions	
19:00-21:00	President's RECEPTION (upon invitation, at medieval castle Gravensteen)	

Monday 5 June IRG/WP 17-60415 Programme IRG48 Scientific Conference on Wood Protection, 4-8 June 2017, Ghent, Belgium

Rector Vermeylen	Working Party Session WP 4.4. Coatings, hydrophobic treatments and surface a	spects
13:30-13:50	Effect of Particle Size on Wax Distribution in Paraffin Wax Emulsion Impregnated Wood Wang Wang, Jinzhen Cao, Yiheng Huang	17-40779
13:50-14:10	Black-stain Resistant Acrylic Latexes for Wood Coatings Applications <u>G Boivin</u> , A M Ritcey, P I Morris, V Landry	17-40786
14:10-14:30	Bacterial adhesion to selected wood finishes M Petrič, D Kekec, J Žigon, K Godič Torkar, K Bohinc	17-40793
14:30-14:50	Surface Protection of Wood with Metal Acetylacetonates Yuner Zhu, P D Evans	17-40802
14:50-15:00	Studying Weathering Performance of Coatings on Thermally Modified Wood M Nejad, M Dadbin, P Cooper	17-40805
15:00-15:30	Coffee / Tea	
Rector	Working Party Session WP 4.4. Coatings, hydrophobic treatments and surface aspe	ects (cont.)
Vermeylen	Conveners: Laurence Podgorski & Phil Evans	
15:30-15:50	Organosilicon-based impregnation hydrophobers for wood J-P Lecomte, J Van Acker, J Van den Bulcke, M Kutnik, M Montibus, S Salvati, S Derocker	17-40808
15:50-16:10	Fungal growth on coated wood exposed outdoors: influence of coating pigmentation, cardinal direction and inclination of wood surfaces L Podgorski, C Reynaud, M Montibus	17-10896
16:10-16:30	The Comparison of Weathering Resistance of New Generation Wood-Coating Systems Ö Özgenç, <u>S Durmaz</u>	17-40789
16:30-16:50	Thermal stability of a wood protective biofinish and the influence of flame retardants on Aureobasidium cells S Rensink, E A M Klein Rot, M F Sailer	17-30716
16:50-17:10	Questions	
19:00-21:00	President's RECEPTION (upon invitation, at medieval castle Gravensteen)	

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

Tuesday 6 June

Refter	Special session: Quality control of treated/modified wood	
,	Conveners: Miha Humar & Ina Stephan	,
08:30-08:50	Case study: "Riesenbühlturm" <u>E Melcher</u> , J Müller	17-20599
08:50-09:10	Use of small volume cups in XRF analysis of treated wood retention R Stelzer, A Taylor, P Lebow	17-20602
09:10-09:30	Quality of the impregnated wood in the Slovenian hardware stores M Humar, B Lesar, N Thaler, D Kržišnik, N Kregar, S Drnovšek	17-20606
09:30-09:50	Consistency of performance of acetylated wood F Bongers, 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	Questions	
10:30-11:00	Coffee / Tea	
Refter	Special session: Quality control of treated/modified wood (cont.) Conveners: Miha Humar & Ina Stephan	
11:00-11:20	New Standards for Approval of Modified Wood within the Nordic Wood Preservation Council (NWPC) N Morsing, E Engelund Thybring, M Klamer	17-20624
11:20-11:40	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
11:40-12:00	Questions	
12:40-13:30	Lunch	

Tuesday 6 June IRG/WP 17-60415 Programme

Refter	Special session: Timber Bridges	
	Conveners: Christian Brischke & David Lorenzo	,
13:30-13:50	Solid Timber Bridges – Latest Developments	17-40788
13.30 13.30	F Miebach	17-40700
13:50-14:10	Modelling of moisture content in timber bridge details	17-20613
15.50 14.10	J Niklewski, <u>C Brischke</u> , E Frühwald Hansson, L Meyer-Veltrup	17-20015
14:10-14:30	Evaluation of timber bridges with special consideration of detail design	17-40781
14.10 14.50	<u>K Robbers, J Fromm, E Melcher</u>	
14:30-14:50	Comparative Durability of Timber Bridges in the USA	17-20615
14.50-14.50	J P Wacker, B K Brashaw	17-20013
	The potential and the challenges of acetylated wood in timber bridges - experiences from an ongoing	
14:50-15:00	project	17-40792
	<u>A Treu</u> , R Bredesen, F Bongers	
15:00-15:30	Coffee / Tea	
Refter	Special session: Timber Bridges (cont.)	
nejtei	Conveners: Christian Brischke & David Lorenzo	
15.20 15.50	In-service performance of treated plywood bridge decks in Australia	47 40704
15:30-15:50	<u>M A Powell</u>	17-40794
45 50 46 40	Borate and Copper Naphthenate Dual Treatment of Bridge Timbers-Borate movement over time	47 40705
15:50-16:10	<u>J-W Kim</u> , J D Lloyd	17-40795
	Dual Borate and Copper Naphthenate Treatment of Bridge Timbers: Potential Performance Enhancements	
16:10-16:30	and Cost Savings	17-40797
	<u>J Lloyd</u> , C Brischke, R Bennett, A Taylor	
16:30-16:50	Performance of Norway spruce bridge in North-West Spain after 12 years exposure	17 40706
	<u>D Lorenzo,</u> J Fernández-Golfín, M Touza, M Guaita, A Lozano, J Benito	17-40796
16:50-17:10	A summary of history and use of timber bridges in New Zealand	17 40004
	D Page, <u>T Singh</u>	17-40801

17:10-17:30	Prefabricated modular wooden bridges <u>L Jayanetti</u>	17-40785
Dofton	Poster Session	
Refter	Convener: Joris Van Acker	
17:30-18:30	POSTER SESSION (IRGWP 17-60414) – 3 min presentations	
P01	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
P02	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 Lyrodus	
P03	pedicellatus	
	C Slevin, S Cragg	
P04	European Research Infrastructure for Circular Forest Bioeconomy (ERIFORE)	
1 04	J Garcia Jaca, M Azpeitia, A Butron	
P05	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
P06	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
P07	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
P08	Functional silicones used for wood protection: preliminary study C Reynaud, F Marchal, F Pochon, M Kutnik	17-30720
DOO	Wood protection with nanoparticles: MgF2 and CaF2	
P09	S Usmani, J Schlischka, K Klutzny, Y de Laval, R Plarre, T Krahl, I Stephan, T Hübert, E Kemnitz	
	The nanoparticle-wood interaction – a fundamental study towards new materials for pressure impregnation	
P10	of pine and beech wood	
	D Bossert, C Geers, A Finka	

Tuesday 6 June IRG/WP 17-60415 Programme IRG48 Scientific Conference on Wood Protection, 4-8 June 2017, Ghent, Belgium

P11	Depictions on Wood: Acceptation and Internalization of Wood, which is an intercultural interaction tool, as "A Valuable Object" (Wood is a Symbol of Civilization) Usta	17-40776
P12	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
P13	Evaluation of coating applied in treated wood: experiences in Brazil M Fernandez Natale, J M Vidal	17-40814
P14	Radio frequency heating times for sterilization radiata pine solid piles H Esquivel, V Sepúlveda, J Torres, L Salvo, R A Ananías	17-40815
P15	Corrosion verification experiment of the screw driven into CLT N Wada, H Ishiyama, S Yamamoto	17-40816
P16	Water absorption characteristics of CLT D Yokoi, H Ishiyama, Y Hirano	17-40817
P17	Influence of sea water on timber and metal joints T Nishimura, H Ishiyama, F Hirose, N Wada	17-40818
P18	Aesthetic changes of coated thermally modified wood after artificial weathering R Herrera, J Sandak, E Robles, J Labidi	17-40819
P19	Markers of quality in self-bonded beech boards C Cristescu, D Sandberg, O Karlsson	17-40820
P20	UV-curable coatings developed for aesthetic and biological protection of wood outdoors C Reynaud, A S Schuller, M Kutnik, L Podgorski	17-40821
	Poster session RECEPTION	

Rector	Working Party Session WP 1.4 Natural Durability	
Vermeylen	Conveners: Nadine Amusant & Wolfram Scheiding	
08:30-08:50	Effects of climatic factors and material properties on mould growth on untreated wooden claddings	17-10884
08.30-08.30	S Karlsen Lie, G I Vestøl, O Høibø, L Ross Gobakken	17-10864
	Comparative studies on the durability of English oak (Quercus robur L.) under in-service, field and laboratory	
08:50-09:10	conditions	17-10881
	C Brischke, L Meyer-Veltrup, A Soetbeer, M Höpken, E Melcher, J Trautner	
09:10-09:30	Assessing the natural durability for different tropical timber species using the mini-block test	17-10886
09.10-09.50	<u>V Deklerck</u> , I De Windt, N Defoirdt, J Van den Bulcke, H Beeckman, E Espinoza, J Van Acker	
09:30-09:50	Natural durability of Sextonia rubra, an Amazonian tree species: description and origin	17-10887
09.30-09.30	<u>E Houë</u> l, A Rodrigues, E Nicolini, O Ngwete, C Duplais, D Stien, N Amusant	
09:50-10:10	A review on prediction methods of wood natural durability	17-10892
09.30-10.10	<u>N Amusant</u> , C Flora, J Beauchène, E Houël, C Duplais	
	Comparison of 1H qNMR and NIR spectroscopic methods to predict heartwood decay resistance in Dicorynia	
10:10-10:30	<i>guianensis</i> Amsh	17-20601
	<u>C Flora</u> , G Frédéric, M-F Thévenon, Y Estevez, C Duplais, N Amusant	
10:30-11:00	Coffee / Tea	

Rector	Working Party Session WP 1.4 Natural Durability (cont.)	
Vermeylen	Conveners: Nadine Amusant & Wolfram Scheiding	
	Chemical compositions and anti-termite activities of essential oils from Gabonese Canarium schweinfurthii	
11:00-11:20	Engl, Dacryodes buettneri Engl and Aucoumea klaineana Pierre wood resins	17-10895
	W Fiacre Bédounguindzi, P E Engonga, K Candelier, S Dumarçay, M Ludovic, M F Thévenon, P Gérardin	
11:20-11:40	Interactions between fungal glutathione transferases and wood extractives	17-10894
	T Perrot, F Saiag, N Amusant, S Dumarçay, P Gérardin, M Morel-Rouhier, R Sormanil, <u>E Gelhaye</u>	17-10094

Rector Vermeylen	Working Party Session WP 2.2. Microbial test methodology Conveners: Eric Gelhaye & Antje Gellerich	
11:40-12:00	Laboratory test to determine the effect on durability of combining biobased building materials with timber in construction	17-20604
	<u>S F Curling</u> , G A Ormondroyd	
12:00-12:20	Monitoring Diversity and Colonization Patterns of Wood-Inhabiting Fungi Using Field Stake Tests	17-20614
12.00 12.20	<u>P Torres-Andrade</u> , J Cappellazzi, J J Morrell	
12:20 12:40	NGS analysis of fungal OTUs in Aquilaria sp. from French Guyana, Cambodia, Laos and Thailand	17-50328
12:20-12:40	<u>C Zaremski</u> , C Malandain, O Sibourg, C Andary, G Michaloud, M Ducousso, N Amusant, A Zaremski	
12:40-13:30	Lunch	

Rector	Working Party Session WP 5.1. Environment & 5.2 Sustainability	
Vermeylen	Conveners: Morten Klamer & Lars Tellnes	
13:30-13:50	Analysis of Wood Industrial Pollutants Based on Emission Coefficients	17-50325
15.50 15.50	<u>Chu Jie</u> , Ma Li, Zhangjing Chen	17-30323
13:50-14:10	Uncertainty in life cycle assessment of preservative treated wood – copper and freshwater ecotoxicity	17-50331
13.30-14.10	L G F Tellnes	
14:10-14:30	Review of Leaching Experiments of CCA-Treated Wood and Wood Treated with Copper-based Alternatives	17-50330
14.10-14.50	A Jones, J Marini, H Solo-Gabriele	17-50550
14:30-14:40	How carbon stored in harvested wood products contribute in a greenhouse gas accounting perspective	17-50327
14.30-14.40	<u>G Alfredsen</u> , G Søgaard	17-30327
14:40-15:00	Young People's Perceptions about Wood	17 40777
14.40-15.00	<u>I Usta</u>	17-40777
15:00-15:30	Coffee / Tea	

Rector	Working Party Session WP 4.2. Wood composites, WPCs and Engineered wood p	roducts
Vermeylen	Conveners: Rebecca Ibach & Simon Curling	
15:30-15:50	The use of new, aqueous chemical wood modifications to improve the durability of wood-plastic composites R E Ibach, C M Clemons, G C Chen	17-40787
15:50-16:10	Mechanical, Physical and Biological Properties of Sandwich Biocomposites Panels manufactured from Food Packaging Waste A S O Mohareb, A H Hassanin, K Candelier, M F Thévenon, A Kilic, Z Candan	17-40791
16:10-16:30	Physico-Mechanical and Biological Properties of Cement Bonded Particleboards from Nordmann Fir H Yel, <u>U Aras</u> , H Kalaycioglu	17-40798
16:30-16:50	Moisture behaviour and biological durability of high performance flax fibre reinforced composites N Defoirdt, J Van den Bulcke, F Bensadoun, J Ivens, I Verpoest, J Van Acker	17-40803
16:50-17:10	Hybrid green composites manufactured with glass fiber and jute fabric skin by VARTM process: Fungal, mold, and termite resistance tests S N Kartal, E Terzi, M Muin, A H Hassanin, T Hamuoda, A Kilic, Z Candan	17-40780
17:10-17:30	Questions	
Refter	Poster Session Convener: Joris Van Acker	
17:30-18:30	POSTER SESSION (IRGWP 17-60414) – 3 min presentations	
	Poster session RECEPTION	

Wednesday 7 June IRG/WP 17-60415

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

Wednesday 7 June

Refter	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 R W W M Klaassen, 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	

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

Wednesday 7 June **IRG/WP 17-60415**

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Wednesday

11:40-12:00	An experimental study of mould growth and wood decay in timber frame walls	17-20623
	M Vanpachtenbeke, J Van den Bulcke, I De Windt, J Langmans, S Roels, J Van Acker	17-20025
	Decay of wood in outdoor above ground applications: Preview of results on the effect of climate and species	
12.00 12.20	in Spain	17 20000
12:00-12:20	J I Fernández-Golfin Seco, M Conde García, M R Diez Barra, M Conde García, L Acuña Rello, E Torres Álvarez, E	17-20600
	Perea Alonso, <u>M T Troya</u>	
12:20-12:50	Picnic lunch package	

	Excursion
13:00-23:00	Excursion to the 'Westhoek'

Wednesday 7 June IRG/WP 17-60415

Rector	Working Party Session WP 4.3. Treating processes & treatability of timber	•
Vermeylen	Conveners: Andreas Treu & Julien Trompetter	
08:30-08:50	Permeability of Eucalyptus wood improved by microwave treatment	17-40773
06.30-06.30	<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	17-40790
06.30-09.10	<u>N Pfabigan</u> , E Habla, R Gründlinger	17-40790
	The Effects of Pre-Microwave Treatment on Retention Levels And Some Mechanical Properties of Spruce	
09:10-09:30	Wood Treated with CCA	17-40800
	E D Gezer, <u>S Kuştaş</u> , S Durmaz	
	Penetration behaviour of different hydrophobic carrier substances for oily wood preservatives in Beech and	
09:30-09:50	Scots pine sapwood	17-40804
	M Starck, A Gellerich, H Militz	
09:50-10:10	Questions	
10:10-10:30		
10:30-11:00	Coffee / Tea	

Rector	Working Party Session WP 1.6. Cultural artefact protection	
Vermeylen	Conveners: Wibke Unger & Sabrina Palanti	
	The First Description of Soft-rot Cavity in Waterlogged Archaeological Woods by a Japanese Wood Anatomist	
11:00-11:20	Prof. F. Onaka in 1935	17-10885
	Yoon Soo Kim, <u>K Yamamoto</u>	
	Underground timber constructions from the First World War are well preserved after 100 years	
11:20-11:40	<u>J Van Acker</u> , I De Windt, K Haneca, H Beeckman, F Claeys, S Vandenbussche, J Vandewalle, N Robeyst, A	17-10897
	Willems	

Wednesday 7 June IRG/WP 17-60415

	Oak maturation casks at the Rodenbach brewery, an industrial heritage of the Flemish Community requiring	
11:40-12:00	protective measures	17-10898
	<u>J Van Acker</u> , I De Windt, R Ghequire	
12:00-12:20	Questions	
12:20-12:50	Picnic lunch package	

		Excursion
13:0	0-23:00	Excursion to the 'Westhoek'

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

Thursday 8 June

Refter	Working Party Session WP 4.1. Chemical wood modification Conveners: Erik Larnøy & Greeley Beck	
	Converiers. Enk Larriby & Greeley Beck Commercialisation of DMDHEU Modified Wood in Australasia	
08:30-08:50	B R Derham, T Singh, H Militz	17-40772
09:50 00:10	Dimensional Stability of Melamine Formaldehyde-Treated Southern Pine	17 40774
08:50-09:10	H M Barnes, L S Sites, T S F A França, M G Sanders, F J N França	17-40774
09:10-09:30	Accessibility of hydroxyl groups in anhydride modified wood as measured by deuterium exchange	17-40784
09.10-09.30	G Beck, S Strohbusch, E Larnøy, H Militz, C Hill	
	Influence of hygro-thermal treatment temperature and duration on dimensional stabilisation of wood	
09:30-09:50	modified with poly(butylene succinate)	17-40813
	<u>C Grosse</u> , M Noël, L Rautkari, P Gérardin	
09:50-10:10	Corrosion of fasteners in furfurylated wood – final report after 9 years exposure outdoors	17-40810
09.50-10.10	J Jermer, B-L Andersson, <u>J Schalnat</u>	17-40810
10:10-10:30	Questions	
10:30-11:00	Coffee / Tea	

Refter	Working Party Session WP 4.5. Thermal wood modification	
Kejtei	Conveners: Phillippe Gérardin & Kevin Candelier	
11.00 11.20	Is the ISPM 15 effective? Survival of Pine Wood Nematode under thermal treatments	17-40775
11:00-11:20	L Robertson, M Conde, J C Cabrero, F Llinares, <u>M T Troya</u>	17-40775
	Decay resistance of beams made from thermally modified Scots pine and Norway spruce after 6 years'	
11:20-11:40	exposure in ground contact	17-40806
	S Metsä-Kortelainen, <u>H Viitanen</u>	

11:40-12:00	Decay resistance variability of European wood species thermally modified by industrial process K Candelier, L Pignolet, S Lotte, A Guyot, E Cuny, B Bousseau, M-F Thévenon	17-40807
12:00-12:20	Questions	
12:20-12:40		
12:40-13:30	Lunch	

Rector	Working Party Session WP 1.3. Insect biology and testing	
Vermeylen	Conveners: Teresa de Troya & Rachel A Arango	
08:30-08:50	Evaluating the role of Actinobacteria in the gut of wood-feeding termites (Reticulitermes spp.)	17-10880
	R A Arango, 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	17-10893
08.30-09.10	<u>W Unger</u> , T L Woods	17-10893
	Analysis of hindgut bacterial phyla frequency and diversity in subterranean termites exposed to chitosan-	
09:10-09:30	treated wood	17-10882
	<u>O Raji</u> , J D Tang, T Telmadarrehei, D Jeremic	
09:30-09:50	Durability Testing of a Cattail (<i>Typha</i> spp.) based Insulation Material against Termite Attack	17-10879
09.30-09.30	M Dass, <u>W Unger</u> , T L Woods-	17-108/9
	Nondestructive analysis of oviposition of the bamboo powderpost beetle <i>Dinoderus minutus</i> using acoustic	
09:50-10:10	emission and X-ray CT	17-10889
	<u>H Watanabe</u> , Y Yanase, Y Fujii	
10:10-10:30	Genetic characterisation of the deathwatch beetle – Call for support	17-10890
	<u>M Höpken</u> , E Melcher, J Trautner	17-10890
10:30-11:00	Coffee / Tea	

Rector	Working Party Session WP 3.2. Organic preservatives (cont.)	
Vermeylen	Conveners: Hans Leithoff & Elke van Nieuwenhuijzen	
11:00-11:20	Prevention of fungal damage of oil and date palm wood by organic acids	17-10877
	M Bahmani, O Schmidt	
11:20-11:40	Liquefaction of woody waste: A novel approach in wood protection from CNSL based liquefied wood polyols	17-30711
11.20 11.40	<u>A Kumar</u> , G B Nagarajappa, S Singh Chauhan	
	Efficacy of <i>Erythropleum suaveolens</i> (potrodom) and <i>Distemonanthus benthamianus</i> (bonsamdua) water	
11:40-12:00	extractives on the durability of five Ghanaian less used timber species of varying perviousness and	17-30705
11.40-12.00	retentiveness	
	A Asamoah, K Frimpong-Mensah, C Antwi-Boasiako	
12:00-12:20	Questions	
12:20-12:40		
12:40-13:30	Lunch	

Rector	Working Party Session WP 3.2. Organic preservatives	
Blancquaert	Conveners: Hans Leithoff & Elke van Nieuwenhuijzen	
08:30-08:50	Activity of Two Strobilurin Fungicides Against Three Species of Decay Fungi in Agar Plate Tests	17-30704
	<u>J D Tang</u> , T Ciaramitaro, M Tomaso-Peterson, S V Diehl	17 30704
08:50-09:10	The Protective Effect of Different Tree Bark Extractives against Decay Fungi	17-30707
08.30-09.10	<u>Ö Özgenç,</u> S Durmaz	17-30/07
09:10-09:30	Copolymers of tannin extracts as wood protection agents	17-30709
09:10-09:30	G Tondi, L Sommerauer, A Oberle, A Petutschnigg, M-F Thevenon	
09:30-09:50	Decay Resistance of Scotch pine Wood Impregnated with Agaricus campestris Bio-Protective Extract	17 20714
09.30-09.30	<u>S Yıldız</u> , Ü C Yıldız, A Yılmaz	17 30714
	Possibility of using lichen (<i>Usnea filipendula</i>) and mistletoe (<i>Viscum album</i> L.) extracts as potential natural	
09:50-10:10	wood preservative	17-30712
	Ü C Yildiz, C Kiliç, A Gürgen, S Yildiz	
Rector	Working Party Session WP 2.3. Chemical/physical analysis	
Blancquaert	Conveners: Bruce Breedt & Anna Sandak	
10.10.10.20	The sorption behaviour of wood	47 20005
10:10-10:30	<u>C Hill</u>	17-20605
10:30-11:00	Coffee / Tea	

Rector	Working Party Session WP 2.3. Chemical/physical analysis (cont.)	
Blancquaert	Conveners: Bruce Breedt & Anna Sandak	
11:00-11:20	Monitoring of wood biodeterioration by infrared spectroscopy	17 20607
	E Meneses Oliveira, <u>A Florian da Costa</u> , J W Batista Braga	17-20607
11:20-11:40	Three-Dimensional Digital Image Correlation of Strains in Profiled Wood Decking Exposed to Wetting &	
	Drying	17-20611
	J Mallet, S Kalyanasundaram <u>, P D Evans</u>	

11:40-12:00	Rapid detection of the Alaska yellow cedar, <i>Callitropsis nootkatensis</i> (<i>Cupressaceae</i>) extractives using Fourier transform infrared (FT-IR) spectroscopy S Lipeh, J J Morrell	17-20612
12:00-12:20	Evaluation of surface cracks on wood – physical assessment versus subjective sensation A Gellerich, C Brischke, L Emmerich, L Meyer-Veltrup, P Kaudewitz	17-20617
12:20-12:40	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
12:40-13:30	Lunch	

Thursday 8 June **IRG/WP 17-60415** Programme IRG48 Scientific Conference on Wood Protection, 4-8 June 2017, Ghent, Belgium

Refter	Scientific Plenary Session – Discussion Forum Session Chair: Lone Ross Gobakken	
13:30-15:00	"Challenges linked to stricter regulations on biocides in the wood preservative industry and wood coating industry" The European Biocidal Regulation – history, structure and requirements for the wood preservative producers Morten Klamer	
	Exterior paint for the future - Will there be any dry-film preservatives left? Hanne Jensen	17-50332
	The European Biocides Regulation – Recent Experiences and Challenges for the Wood Preservation Industry Jörg Habicht	
	Discussion	
15:00-15:30	Coffee / Tea	
Refter	Final Plenary Session Procident: Joris Van Asker, Vice Precident: Jone Boss Gebakken, Secretary General: Jöran Jermer	
15:30-16:30	President: Joris Van Acker Vice-President: Lone Ross Gobakken Secretary-General: Jöran Jermer 7. Approval of membership fees for 2018 8. Approval of the budgets for 2017 (forecast May 2017) and 2018 9. Election of new officers -Executive Council, Scientific Programme Committee, Information on EC appointments 10. IRG Secretariat and Secretary-General 11. Appointment of auditors 12. Future venues IRG 49: Johannesburg, South Africa 29 April-3 May 2018; IRG 50: Quebec City, Canada, 12-16 May 2019; IRG 51; IRG 52 13. Any other business	17-60416 17-60417
20:00-24:00	CONFERENCE BANQUET (address: Oude Vismijn, Rekelingestraat 5)	