	Sunday 15 May
15:30-18:30	Registration
18:30-21:00	Welcome reception
10.50-21.00	at LNEC conference centre

Monday 16 May

Auditório	Opening Plenary Session	
Auditorio	President: Jeff Lloyd Vice-President: Joris Van Acker Secretary-General: Jöran Jermer	
	Opening Ceremony of the 47th Annual Meeting	
	Opening addresses by	
08:30-08:40	Jeff Lloyd, President, The International Research Group on Wood Protection	
	Carlos Pina, President of LNEC	
	Lina Nunes, Local Organizing Committee	
	Plenary	
	1. Opening of the meeting	
	2. Approval of the agenda	
	3. Membership issues	16-60396
	 Ratification of the election of new members since last year's Plenary 	
08:40-09:00	4. Announcement of Ron Cockcroft Award recipients	
	5. Approval of the Annual Report 2015 and Auditors' report	16-60395
	6. Granting discharge for the Executive Council and Secretary-General from the administration and accountancy for 2015	

Auditório	Scientific Main Session - keynotes local & COST Actions Chairman: Joris Van Acker	
	Local keynote	
09:00-09:20	Seismic behaviour of timber buildings	
	<u>P Candeias</u> , A Campos Costa	
	Keynote COST Action FP1303	
09:20-09:40	Modelling the performance of bio-based building materials	16-20582
	<u>C Brischke</u>	
	Keynote COST Action FP1407	
09:40-10:00	Wood protection and environmental performance of products - impacts COST Action FP1407 aims to bring	16-50323
	<u>A Kutnar</u>	
	Keynote COST Action FP1404	
10:00-10:20	Fire retardant treated wood products – Properties and uses	16-30701
	B Östman <u>, L Tsantaridis</u>	
10:20-10:30	Questions	
10:30-11:00	Coffee / Tea	
Auditária	Scientific Main Session – section papers	
Auditório	Co-conveners: Rod Stirling, Miha Humar, Lehong Jin, Tripti Singh, Morten Klamer	
	Real-Time PCR Assays for the detection of the dry rot fungus Serpula lacrymans and its close relative Serpula	
11:00-11:20	himantioides	16-10867
	<u>K Jacobs</u> , N Rangno	
	Global survey on durability variation – on the effect of the reference species	
11.20 11.40	<u>R Stirling</u> , G Alfredsen, C Brischke, I De Windt, L P Francis, E Frühwald Hansson, M Humar, J Jermer, M Klamer,	16-20573
11:20-11:40	M Kutnik, P Laks, I Le Bayon, S Metsä-Kortelainen, L Meyer-Veltrup, P I Morris, J Norton, T Singh, J Van Acker, J	
	Van den Bulcke, T M Venås, H Viitanen, A H H Wong	
11:40-12:00	Evaluation of advanced tannin-boron preservative in unsterile soil-bed tests	16-30693
11:40-12:00	Jinbo Hu, Yiqiang Wu, Shanshan Chang, Guangming Yuan, G Tondi, M-F Thévenon	TD-20022

12:00-12:20	Evaluation of Commercially Available Polyurethane Resin to Develop Non-biocidal Wood Preservation Treatments M Mubarok, Y Sudo Hadi, J Suryana, I W Darmawan, F Simon, <u>S Dumarcay</u> , C Gérardin, P Gérardin	16-40751
12:20-12:40	Contamination of recycled wood from selected recycling companies in Europe <u>B Lesar</u> , M Humar, G Hora	16-50322
12:40-13:30	Lunch	

Auditório	Working Party Session WP 1.3. Insect biology and testing Conveners: Mark Mankowski & Teresa de Troya	
13:30-13:50	Evaluating the Effects of Post Dip-Treatment Laser Marking on Resistance to Feeding by Subterranean Termites	16-10854
15.50-15.50	<u>R A Arango</u> , B Woodward, S Lebow	10-10054
	Diversity of hindgut symbiotic flagellate protist communities of the European subterranean termite in	
13:50-14:10	Portugal	16-10875
	<u>S Duarte</u> , T Nobre, M Duarte, P A V Borges, L Nunes	
14:10-14:30	Above-ground performance of a buffered amine oxide treatment system against Mastotermes darwiniensis	16-10855
14.10-14.30	<u>L J Cookson</u> , R W Clawson Jr	10-10000
Auditório	Working Party Session WP 4.7. Protection by design	
Auditorio	Convener: Karl-Christian Mahnert	
14:30-14:50	Encapsulation of poles to prevent moisture uptake – a laboratory test	16-40753
14.50-14.50	<u>K-C Mahnert</u> , U Hundhausen	10-40755
14:50-15:00	Questions	
15:00-15:30	Coffee / Tea	

Auditório	Working Party Session WP 3.3. Performance - lab & field tests	
Additionio	Convener: Kevin Archer	
15:30-15:50	Effect of the Storage Time of Logs in Anti-Stain Treatment Effectiveness	16-30683
15.50-15.50	<u>M A Peredo</u> , C Barria	10-20082
15:50-16:10	Anti-Fungal Activity on Some Wood extracts as a Wood Protectant	16-30684
15.50-10.10	<u>Ö Özgenç</u> , S Durmaz	
16:10-16:30	Laboratory and Field evaluation on Resistance of Thiacloprid-treated Pine Species to Termites in Mexico	16-30687
10.10-10.50	<u>P Meckler</u> , T Jaetsch, I Rodriguez	
16:30-16:50	Performance of 3-iodo-2-propynyl butyl carbamate (IPBC) in L-joints under tropical conditions	16-30688
10.30-10.30	<u>J J Morrell</u>	
16:50-17:10	Questions & Discussion	
10.30-17.10		
19:00-21:00	President's RECEPTION	

Pequeno Auditório	Working Party Session WP 4.4. Coatings, hydrophobic treatments and surface a Conveners: Mojgan Nejad & Laurence Podgorski	aspects
13:30-13:50	Colorant Treatments to Enhance the Weathering Resistance of Western Redcedar <u>R Stirling</u> , V Landry	16-40737
13:50-14:10	Variation in coating hardness during the EN 927-6 weathering test: influence of pigmentation <u>L Podgorski</u> , L Malassenet, C Reynaud	16-40739
14:10-14:30	Formation of hydrophobic wood surface by means of thermal treatment and surface modification with alkyl ketene dimer (AKD) T Lovaglio, T Meints, L Todaro, W Gindl-Altmutter	16-40738
14:30-14:50	Development of a new method for wood hydrophobizing and fixation of copper compounds by chemical hardening of vegetable based modified oils <u>C Swaboda</u> , M Fischer, K Jacobs	16-40754
14:50-15:00	Questions	·
15:00-15:30	Coffee / Tea	
Pequeno	Working Party Session WP 4.4. ctd. Coatings, hydrophobic treatments and surface	e aspects
Auditório	Conveners: Mojgan Nejad & Laurence Podgorski	
15:30-15:50	Superhydrophobic treatment of Norway spruce wood for improvement of its resistance against brown rot and moulds <u>A Kumar</u> , P Ryparová, P Hajek, B Kričej, M Pavlič, A S Škapin, M Šernek, J Tywoniak, J Žigon, M Petrič	16-40734
15:50-16:10	Improvement of wood properties by impregnation with liquefied spruce bark based resins X Duret, <u>E Fredon</u> , E Masson, P Gérardin	16-40761
16:10-16:30	Modifying wood with paraffin wax emulsion impregnation and thermal modification: hydrophobization effect and mechanism of the combined treatment <u>Wang Wang</u> , Jinzhen Cao, Cong Chen	16-40726
16:30-16:50	Development of methodologies to evaluate tanning blocking coatings <u>C Reynaud</u> , L Podgorski	16-40760

16:50-17:10	Assessment of the biological durability of wood treated with organosilicon compounds	16-30685
10.30-17.10	<u>M Kutnik</u> , M Montibus, S Derocker, S Salivati, J-P Lecomte	10-30085
19:00-21:00	President's RECEPTION	

Tuesday 17 May

	Working Party Session WP 2.1. Prediction of service life &	
Auditório	COST Action FP1303 Special session	
	Conveners: Linda Meyer-Veltrup & Dennis Jones	
08:30-08:50	CCA Treated Wood, Will It Last 100 Years?	16-20575
08.30-08.30	<u>T Singh</u> , D Page	10-20375
08:50-09:10	Performance of copper treated poles and posts after three to fifteen years of exposure	16-20595
08.30-09.10	<u>M Humar</u> , N Thaler	10-20395
	Estimation of wood degradation determined by visual inspection, mechanical testing and DNA	
09:10-09:30	characterisation – report after 3 years of exposure	16-30700
	<u>N Thaler</u> , T Martinović, M Bajc, D Finžgar, H Kraigher, A Sinha, J J Morrell, M Humar	
09:30-09:50	Hygrothermal performance of ventilated wooden cladding	16-40733
09.30-09.30	K Nore, <u>U Hundhausen</u>	
	On the effect of climate and exposure conditions on durability indicators and their potential for service life	
09:50-10:10	prediction of wood-based products	16-20576
	<u>G Alfredsen</u> , C Brischke, P-O Flæte, M Humar, L Meyer-Veltrup	
10:10-10:30	Development of decay hazard maps based on decay prediction models	16-20588
10.10-10.50	<u>J Niklewski</u> , E Frühwald Hansson, C Brischke, D Kavurmaci	10-20300
10:30-11:00	Coffee / Tea	

	Working Party Session WP 2.1. Prediction of service life &	
Auditório	COST Action FP1303 Special session ctd.	
	Conveners: Linda Meyer-Veltrup & Dennis Jones	
	Engineering for Rural and Civil Development. Uni Performance of wood exterior structures above ground	
11:00-11:20	contact in Spain built with softwood species. The situation of cases in northern Spain	16-20597
	<u>D Lorenzo</u> , J Fernández-Golfín, M Touza	
11:20-11:40	Evaluation of field test data	16-20594
11.20-11.40	<u>F Bongers</u> , C Brischke, J Van den Bulcke, W Gard, I De Windt, H Militz	
11:40-12:00	Weather degradation of thin wood samples	16-20578
11.40-12.00	<u>I Burud</u> , K A Smeland, K Hovde Liland, T K Thiis, J Sandak, A Sandak, L Ross Gobakken	
12:00-12:20	Foundation piles: analysis of beech wood decay in service life conditions	16-10858
12.00-12.20	<u>Q Kleindienst</u> , A Besserer, M-L Antoine, C Perrin, J-F Bocquet, L Bléron	
12:20-12:40	Moisture induced risk and fungal development in various field test set-ups in and above ground	16-20577
12.20-12.40	<u>L Meyer-Veltrup</u> , C Brischke	10-20577
12:40-13:30	Lunch	

Auditório	Working Party Session WP 5.2. Sustainability & COST Action FP 1407 Special Session Conveners: Morten Klamer & Andreja Kutnar	
13:30-13:50	Lignin-Based Adhesive for Engineered Wood Products I Kalami, M Arefmanesh, E Master, <u>M Nejad</u>	16-50319
13:50-14:10	A Case Study of Long-term CCA Preservative Leaching from Treated Hardwood Poles in a Humid Tropical Condition <u>A H H Wong</u> , W S M Chin	16-50324
14:10-14:30	Depictions on Wood: Acceptation and Internalization of Wood, which is an intercultural interaction tool, as "A Valuable Object" (Wood is Life) <u> Usta</u>	16-40719

14:30-14:50	Depictions on Wood: Acceptation and Internalization of Wood, which is an intercultural interaction tool, as "A Valuable Object" (WoodLover Approach) <u>I Usta</u>	16-40720
14:50-15:00	Questions	
15:00-15:30	Coffee / Tea	

Auditório	Working Party Session WP 3.4 Fire retardants & WP 4.6 Fire protection & COST FP1404 Special Session Convener: Ulrich Hundhausen	Action
15:30-15:50	Performance of a new water-based fire retardant in wood-based panels <u>D Jones</u> , M Lawther, A C Steenkjær Hastrup, P Fynholm, P Fælled, D Penaloza	16-30697
15:50-16:10	Combustion and thermal characteristics of Korean wood species Huyun Jeong Seo, Jung-eun Park, <u>Dong Won Son</u> , Won-Joung Hwang	16-40727
Auditório	Working Party Session WP 1.4. Natural durability Conveners: Marie-France Thévenon & Nadine Amusant	
16:10-16:30	Wood Natural durability study source of biomolecules: case of <i>Dicorynia guianensis</i> Amsh. heartwood J-B Say Anouhe, A A Adima, F B Niamké, D Stien, B Kassi Amian, D Virieux, J-L Pirate, S Kati-Coulibaly, N Amusant	16-10871
16:30-16:50	GC-MS Characterizations of Termiticidal Heartwood Extractives from Wood Species Utilized in Pakistan <u>M Mankowski</u> , B Boyd, B Hassan, G T Kirker	16-10857
16:50-17:10	Antitermitic activities of Shisham (<i>Dalbergia sissoo</i> Roxb.) heartwood extractives against two termite spec. <u>B Hassan</u> , M Mankowski, G Kirker, S Ahmed, M Misbah ul Haq	16-10856
17:10-17:30	Laboratory evaluations of woods from Pakistan and their extractives against <i>Postia placenta</i> and <i>Trametes versicolor</i> <u>M Mankowski</u> , B Hassan, A Bishell, G Kirker	16-10860
17:30-17:50	Durability to decay organisms of <i>Pinus nigra</i> subsp. <i>laricio</i> var. <i>corsicana</i> . Influence of the moon phase <u>M T Troya</u> , M Conde, M J Barriola, F Llinares, V Dorronsoro	16-10869

Auditório	Poster Session	
Auditorio	Convener: Joris Van Acker	
17:30-18:30	POSTER SESSION (IRG/WP 16-60397)	
	State of the art of industrial wood protection in Portugal	16 20702
	L Nunes, J Carmo, J Vicente, B Esteves	16-30703
	Situation and perspectives of wood preservation industry in Uruguay	
	C Ibáñez, V Morales, C Mantero, V Benitez, C Perdomo, J Dellepiane, M Rabinovich	
	New approach to improve the estimation of colony population in subterranean termites (Blattodea:	
	Rhinotermitidae)	16-10866
	E Alcaide, R Molero, J Diz, M Gaju	
	Evaluation of the effects of different concentrations of Fipronil against Reticulitermes grassei (Blattodea:	
	Rhinotermitidae)	16-30702
	J R Carbonero-Pacheco, R Molero, M E Alcaide, J Diz, M Gaju	
	Bundle tests – Simple alternatives to standard above ground field test methods	16-2058
	<u>C Brischke</u> , L Meyer-Veltrup	10-20561
	Moisture monitoring in WW2 partisan hospital Franja	16-2059
	<u>M Humar</u> , N Thaler, B Lesar, A Žagar	10-20590
	Preparation of highly wear-resistance superhydrophobic wood for the prevention of water/humidity attack	16-40746
	Shanshan Jia, Yingfeng Zuo, Zhiping Wu, Shengfei Yu, Yiqiang Wu, Ming Liu, Yan Qing	10-40740
	The effect of acetylation on physical properties of beech (Fagus orientalis) and Alder (Alnus subcordata)	
	wood	16-40759
	M Akhtari, M Arefkhani	
	Effect of different concentration of furfurylation on physical properties and decay resistance of Paulownia	
	wood	16-40762
	M Ghorbani, H Asghari	
	Development of Wood Modification – High melting point wax and hot oil treatments	16-4076
	<u>H Turunen</u> , L Linkosalmi, J Peura, O Paajanen	10-40700

Efficacy of lignocellulosic materials for Removal of Cation and Anions from Industrial and Urban Wastewater M Akhtari, M Ghorbani Kohkandeh, H Borazjani	16-50321
Quality determination of Aureobasidium cells in fermentation liquid of wood protective biofinish	
S Rensink, M Sailer	
Heartwood variation with tree height in Quercus cerris	
S Knapic, R Pimenta, T Pinto, A Bajraktari, L Nunes, H Pereira	
Microwave-Assisted Direct Synthesis of Boronated Alkanol Amine Succinic Anhydride Esters As Potential	
Surfactants for Various Applications Particularly For Treating Wood	
A K Chattopadhyay	
Utilization and modification of the Istrska belica olive as a wood preservation treatment	
M Schwarzkopf, Viacheslav Tverezovskiy, Courtney Williamson, M Burnard, A Kutnar	
Atlas of tropical timber species - Edition of a new data-bank on 273 tropical timbers	
M-F Thévenon, D Guibal, P Langbour, S Paradis, I Chalon, J Gérard	

Pequeno	Working Party Session WP 3.2. Organic preservatives	
Auditório	Convener: Hans Leithoff	1
08:30-08:50	Fungistatic activity of quinolizidine and bisquinolizidine alkaloids against A. niger	16-30699
08.30-08.30	<u>P W Kwaśniewska-Sip</u> , G Cofta, B Mazela, L Ross Gobakken, A K Przybył	10-30099
09.50 00.10	Decay resistance of wood treated with bio-friendly preservative systems	16 20609
08:50-09:10	B Mazela, G Cofta, <u>W Perdoch</u> , L Ross Gobakken, P Kwaśniewska-Sip	16-30698
	Effects of Bio-oil Obtained from Laurel (Laurus nobilis) Residues on Biological, Physical, and Mechanical	
09:10-09:30	Properties of Treated Wood	16-30692
	<u>S Akbas</u> , A Temiz, N Terziev, M H Alma, S Palanti, E Feci	
00.20 00.50	Fungicidal Effect of Tobacco Stalks (<i>Nicotiana tabacum</i> L.) Against Brown Rot Fungi " <i>Coniophora puteana</i> "	10 10005
09:30-09:50	Ü C Yıldız, S Yıldız, A Yılmaz, <u>S Durmaz</u>	16-10865
00.50 10.10	Termiticidal Effect of Bitumen and Creosote oil Treatments on Selected Nigerian Wood Species	16 20600
09:50-10:10	J M Owoyemi, A O Adiji, J T Aladejana, O E Olawale, O D Oladapo	16-30689
10:10 10:20	A non-VOC approach of solvent-based wood preservatives for remedial treatment	10 20091
10:10-10:30	<u>M Pallaske</u> , S Hellkamp, P Jüngel	16-30681
10:30-11:00	Coffee / Tea	

Pequeno	Working Party Session WP 3.2. ctd. Organic preservatives	
Auditório	Convener: Hans Leithoff	
11:00-11:20	New perspectives for wood protection: enzyme-based treatments	16 40742
11:00-11:20	<u>C Fernández-Costas</u> , S Palanti, M Á Sanromán, D Moldes	16-40742
	Wood properties modification by an enzymatic assisted treatment with phenolic extractives	
11:20-11:40	<u>D Filgueira</u> , C Fernández-Costas, D E García, D Moldes	16-30696

Pequeno	Working Party Session WP 3.1. Inorganic preservatives	
Auditório	Convener: Marko Petrič	
11:40-12:00	Evidence for a role for precipitated copper on the chemistry of micronized copper treatments	16-30690
11.40-12.00	Wei Xue, P Kennepohl, <u>J N R Ruddick</u>	10-20090
12:00-12:20	The termite resistance of wood impregnated with nano-zinc oxide and nano-zinc borate dispersions	16-30691
12.00-12.20	C Lykidis, T de Troya, M Conde <u>, J Galván</u> , G Mantanis	
	Effects of fungal exposure on air and liquid permeability of nanosilver- and nanozincoxide-impregnated	
12:20-12:40	Paulownia wood	16-30680
	H R Taghiyari, A Kalantari, <u>M Ghorbani Kookandeh</u> , F Bavaneghi, M Akhtari	

12:40-13:30	Lunch	
Pequeno	Working Party Session WP 1.6. Cultural artefact protection	
Auditório	Convener: Wibke Unger & Dong Won Son	
13:30-13:50	Fungal decay of archaeological waterlogged oak timber: role of the mineral content	16-10873
15.50-15.50	<u>A Besserer</u> , M Letellier, E Fredon, Q Kleindienst, M-L Antoine, C Perrin, J Lallemand, C Rose, M-C Trouy	10-10875
13:50-14:10	Cultural heritage – research into innovative solutions and methods for historic wood conservation	16-10874
15.50-14.10	<u>M Broda</u> , B Mazela	10-10874
14:10-14:30	Cryptotermes brevis - a silent earthquake for the wood structures in a World Heritage city in the Azores Isl.	16-50316
14.10-14.50	<u>O Guerreiro</u> , P A V Borges, L Nunes	10-50510
14:30-14:40	Questions	
Pequeno	Working Party Session WP 4.1. Chemical wood modification	
Auditório	Conveners: Mats Westin & Katrin Zimmer	
	Enhancing wood properties through bio-based and non-biocidal co-polyesters	
14:40-15:00	<u>C L'Hostis</u> , M-F Thévenon, E Fredon, P Gérardin	16-40740
15:00-15:30	Coffee / Tea	

Programme

Pequeno	Working Party Session WP 4.1. ctd. Chemical wood modification	
Auditório	Conveners: Mats Westin & Katrin Zimmer	
15:30-15:50	The impact of catalyst on the properties of furfurylated beech wood	16-40748
	P S Sejati, A Imbert, <u>C Gérardin</u> , S Dumarçay, E Fredon, E Masson, D Nandika, T Priadi, P Gérardin	
	Marine Borer Resistance of Acetylated and Furfurylated Wood – Results from up to 16 years of Field	
15:50-16:10	Exposure	16-40756
	M Westin, P Larsson Brelid, T Nilsson, A O Rapp, J P Dickerson, S Lande, S Cragg	
	Optimising wood chemical modification with lactic acid oligomers by screening of processing conditions and	
16:10-16:30	chemical additives	16-40741
	<u>C Grosse</u> , M-F Thévenon, M Noël, P Gérardin	
16:30-16:50	Accelerated weathering and fungal resistance of wood modified with isopropenyl acetate	10 10701
	<u>G B Nagarajappa</u> , K K Pandey	16-40764

Programme

The 47th Annual meeting of the International Research Group on Wood Protection (IRG47) 15-19 May 2016, Lisbon, Portugal

Wednesday 18 May

Auditório	Working Party Session WP 2.3. Chemical/physical analysis Conveners: Bruce Breedt & Anna Sandak	
08:30-08:50	Expert versus multi-sensor evaluation of wood samples after short term weathering <u>A Sandak</u> , J Sandak, I Burud, L Ross Gobakken, M Noël	16-20587
08:50-09:10	Measurement of Cell Wall Moisture in Acetylated Radiata Pine Using Low-Field Nuclear Magnetic Resonance <u>H G Beck</u> , C A S Hill	16-20583
09:10-09:30	Distribution and penetration of the tung oil in wood studied by high-resolution magnetic resonance imaging <u>M Žlahtič</u> , U Mikac, I Serša, M Merela, M Humar	16-20593
09:30-09:50	Screening of fastener resistance in contact with untreated wood using different test designs <u>E Melcher</u> , S Wolf, U Cera	16-30686
09:50-10:10	Preparation of Calibration Standards for the Analysis of Pentachlorophenol in Treated Wood by X-ray Fluorescence L L Ingram Jr, H M Barnes, R Shmulsky, <u>D Jeremic</u>	16-20591
10:10-10:30	Insight in moisture dynamics of wood treated with organosilicon compounds J Van Acker, J Van den Bulcke, I De Windt, S Colpaert, S De Rocker, S Salvati, J-P Lecomte	16-20598
10:30-11:00	Coffee / Tea	

Auditório	Working Party Session WP 2.2. Microbial test methodology Conveners: Eric Gelhaye & Susanne Bollmus	
11:00-11:20	Selection of most aggressive test fungi for modified wood – Practical laboratory experience <u>A Gellerich</u> , S Bollmus	16-20579
11:20-11:40	Variation in moisture content in field trials according to use class 3.2 conditions <u>S Bollmus</u> , A Gellerich, H Militz	16-20580
11:40-12:00	Transfer of microorganisms from wooden crates to foodstuffs: assessment of a transfer threshold <u>M Montibus</u> , R Ismail, I Le Bayon, A Jasick, M Gabille, F Aviat, V Michel, M Federighi, M Kutnik	16-20574
12:00-12:20	Studying fungal growth using automated image analysis and computer simulations <u>G Vidal-Diez de Ulzurrun</u> , J M Baetens, J Van den Bulcke, B De Baets	16-20590
12:20-12:40	Questions	
12:40-13:15	Lunch	

	Excursion
13:30-22:00	"Sintra", "Quinta da Regaleira" and dinner in "Companhia das Lezirias"

Pequeno	Working Party Session WP 4.3. Treating processes & treatability of timbe	er
Auditório	Conveners: Andreas Treu & Julien Trompetter	
08:30-08:50	A Treatability Study of Western Wood Species with Water Based Azoles and Insecticides Using Buffered Amine Oxides <u>R W Clawson Jr</u> , C N Cheeks, K A Cutler	16-40766
08:50-09:10	Influence of pressure phase impregnation time on the uptake and distribution of wood preservatives in Scots pine material of diverse treatability <u>K Zimmer</u> , B Kerfrieden	16-40752
09:10-09:30	Impregnation of railway sleepers - Pressure gradient and transversal penetration <u>M Starck</u> , A Gellerich, H Militz	16-40731
09:30-09:50	State of Nanocopper Fixation by Steam-Densification <u>G Rassam</u> , A Talaei, A Ahmadi	16-40723
09:50-10:10	Investigation of enzymatic effect on pit membranes by light and scanning electron microscopy <u>S Durmaz</u> , Ü C Yildiz, M Öztürk, B Serdar	16-40721
10:10-10:30	A Comparison on Penetration of Silica Sol in Scots pine and Southern pine wood Mingyang Sun, <u>Jinzhen Cao</u>	16-40722
10:30-11:00	Coffee / Tea	

Pequeno Auditório	Working Party Session WP 1.1. Soft rot, bacteria, bluestain and moulds Conveners: Elke van Nieuwenhuijzen & Ingunn Burud	
11:00-11:20	Susceptibility of wood substrates to <i>Aurebasidium pullulans</i> at different temperatures <u>L Ross Gobakken</u> , G Alfredsen	16-10863
11:20-11:40	Identification of the key factors influencing development of the blue stain fungi <u>D Kržišnik</u> , B Lesar, N Thaler, M Humar	16-10872
11:40-12:00	Simulation of surface climate and mould growth on wooden façades <u>T K Thiis</u> , I Burud, D Kraniotis, L Ross Gobakken	16-20585
12:00-12:20	Formation of biofinishes on outdoor exposed wood; the impact of wood-oil combination and geographical location <u>E J van Nieuwenhuijzen</u> , L Ross Gobakken, M F Sailer, R A Samson, O C G Adan	16-10864
12:20-12:40	Dynamics of biofilm formation on wood impregnated with vegetable oils <u>K Filippovych</u> , H Huinink, L van der Ven, O C G Adan	16-40769
12:40-13:15	Lunch	

	Excursion
13:15-22:00	"Sintra", "Quinta da Regaleira" and dinner in "Companhia das Lezirias"

Sala 2	Working Party Session WP 4.5. Thermal wood modification Convener: Philippe Gérardin	
08:30-08:50	Characterization of waste from <i>Pinus radiata</i> generated during industrial thermal-treatment <u>R Herrera</u> , D Thomas da Silva, R Llano-Ponte, J Labidi	16-20586
08:50-09:10	How intraspecific radial variability of the European Oak's may influence mild pyrolysis process and durability of the material? J Hamada, A Pétrissans, F Mothe, M Pétrissans, <u>P Gérardin</u>	16-40725
09:10-09:30	Resistance of heat treated Ash wood under steam pressure: rot fungi, soil micro-organisms and termites <u>K Candelier</u> , S Hannouz, M-F Thévenon, D Guibal, P Gérardin, M Pétrissans, R Collet	16-40724
09:30-09:50	Durability of Thermally Modified Engineered Wood Products <u>H M Barnes</u> , M D Aro, A Rowlen	16-40745
09:50-10:10	Exterior birch plywood: potentiality of the thermo-hydro treatment <u>B Andersons</u> , I Andersone, A Meija-Feldmane, I Irbe, A Janberga, J Grinins	16-40743
10:10-10:30	The durability of natural and thermomodified black poplar wood and Scots pine sapwood after two years of external exposition A Fojutowski, A Kropacz, A Noskowiak	16-40730
10:30-11:00	Coffee / Tea	

Sala 2	Working Party Session WP 4.5. ctd. Thermal wood modification	
Sulu Z	Convener: Philippe Gérardin	
11:00-11:20	The influence of log soaking temperature and thermal modification on the properties of birch veneers <u>S Källbom</u> , K Laine, M S Moghaddam, A Rohumaa, K Segerholm, M Wålinder	16-40749
11:20-11:40	Chemical, physical-mechanical characterization and durability of thermally modified beech and ash wood by thermo-vacuum process (Termovuoto) M Jebrane, <u>I Cuccui</u> , O Allegretti, N Terziev	16-40758

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11:40-12:00	What makes cellulose auxetic? <u>A Asamoah</u> , S Eichhorn, K Evans	16-40767
12:00-12:20	Dynamic mechanical analysis of viscoelastic properties of heat treated glycerol-impregnation poplar wood <u>Li Yan</u>	16-40732
12:20-12:40	Effect of insitu polymerization on practical properties of heat treated wood <u>M Ghorbani</u> , M Mohseni Shaktaei	16-40763
12:40-13:15	Lunch	

	Excursion
13:15-22:00	"Sintra", "Quinta da Regaleira" and dinner in "Companhia das Lezirias"

Thursday 19 May

Auditório	Working Party Session WP 1.2. Basidiomycetes	
Auditorio	Convener: Claudia Ibáñez	
08:30-08:50	Role of cell wall specific moisture content on the brown-rot fungal attack on wood R M Rowell	16-40736
08:50-09:10	The copper-transporting ATPase pump and its potential role in copper-tolerance <u>K M Ohno</u> , C A Clausen, F Green III, G Stanosz	16-10859
09:10-09:30	Production of reactive oxygen species in the presence of oxidized iron and oxalate under conditions mimicking brown-rot fungal degradation of wood Yuan Zhu, Liangpeng Zhuang, B Goodell, Jinzhen Cao, J Mahaney	16-10861
09:30-09:50	Molecular Pathways in the Brown Rot Fungus <i>Gloeophyllum trabeum</i> in Oxalate Production Liangpeng Zhuang, Weihua Guo, M Yoshidac, Xueyang Feng, <u>B Goodell</u>	16-10870
09:50-10:10	Exudate production: a detoxification strategy of wood decaying fungi A Deroy, J G Berrin, S Dumarçay, P Gérardin, A Kohler, D Navarro, C Rose, R Sormani, M Morel-Rouhier, <u>E Gelhaye</u>	16-10868
10:10-10:30	Questions	
10:30-11:00	Coffee / Tea	

Auditório	Working Party Session WP 5.1. Environment Convener: Thomas Venås	
11:00-11:20	Creosote leaching from timber bridges in Norway – a practical classification approach A Treu, K Zimmer	16-40744
11:20-11:40	Life cycle assessment of creosote treated wood and tall oil treated wood with focus on end-of-life L G F Tellnes, U Hundhausen	16-50320
11:40-12:00	Bacterial Degradation of Pentachlorophenol Indicated in Groundwater Undergoing Long Term In-Situ Remediation <u>C E Stokes</u> , H Borazjani, L Prewitt	16-50318
12:00-12:20	Release of Copper from Pressure Treated Wood Jun Zhang, J Horton	16-20584
12:20-12:40	Decontamination of sludges, liquids and soils polluted by "class 1,2 & 3a" and "temporary" wood treatment products from dipping tanks <u>A Zaremski</u> , E Wozniak, S Maman, C Zaremski, S Morel	16-50315
12:40-13:30	Lunch	

Pequeno Auditório	Working Party Session WP 4.2. Wood composites, WPCs and Engineered wood products Conveners: Ghonche Rassam & Jinzhen Cao	
08:30-08:50	Effect of Nano-Silane on Permeability in MDF as a Result of Susceptibility to Moulds and Fungi H R Taghiyari, <u>J Norton</u> , A Moradiyan, M Sadegh Taher Tolou Del, H Siahposht, B Moradi-Malek, M Noferesti	16-40716
08:50-09:10	Increasing the hardness of wood-composite panels by nanosilver H R Taghiyari, <u>J Norton</u> , K Heidarhaee	16-40715
09:10-09:30	Decay resistance of beech wood and plywood treated with different type of phenol-formaldehyde (PF) resins V Biziks, S Bicke, <u>H Militz</u>	16-40717
09:30-09:50	Durability of a willow/plastic composite mat Li Yan, Haiyan Duan, Beizhan Quan, J Cappellazzi, J J Morrell	16-20592
09:50-10:10	Fungal resistance and accelerated weathering of Wood-Plastic composites reinforced with Maritime pine wood flour M Jebrane, T Fournier, N-E El Bounia, <u>F Charrier-El Bouhtoury</u>	16-40750
10:10-10:30	Properties of Wood Plastic Composites Made of Recycled HDPE and Remediated Wood Flour from CCA/CCB Treated Wood Removed from Service E D Gezer, <u>S Akbaş</u> , M Tufan, A Temiz	16-40747
10:30-11:00	Coffee / Tea	

Pequeno Auditório	Working Party Session WP 4.2. ctd. Wood composites, WPCs and Engineered v	wood
	products	
	Conveners: Ghonche Rassam & Jinzhen Cao	
	Incorporation of raw boron minerals to protect particleboard against decay and mold fungi, termites and	
11:00-11:20	insects	16-40729
	<u>S N Kartal</u> , E Terzi, P Gérardin, C M Ibanez, T Yoshimura	
	Fabrication and characterization of MicroPCMs filled wood-plastic composites: Effects of polyethylene glycol	
11:20-11:40	on melamine-formaldehyde shell material	16-40728
	<u>Xi Guo</u> , Jinzhen Cao	
11:40-12:40	Questions	
12:40-13:30	Lunch	

Auditório	Scientific Plenary Session Session Chair: Joris Van Acker	
13:30-15:00	DISCUSSION FORUM Strategies related to CLT and other structural building materials Monitored by Joris Van Acker An Open Letter to Proponents of CLT/Massive Timber A Taylor, J Lloyd, T Shelton The durability of manufactured structural building materials <u>T Singh</u> , D Page	16-40755 16-40718
15:00-15:30	Coffee / Tea	
Auditório	Final Plenary Session President: Jeff Lloyd Vice-President: Joris Van Acker Secretary-General: Jöran Jermer	
15:30-16:30	Plenary 7. Approval of membership fees for 2017 8. Approval of the budgets for 2016 (forecast May 2016) and 2017 9. Election of new officers Vice-president Executive Council (2 vacancies) Information on EC appointments to other committees 10. IRG Secretariat and Secretary-General 11. Appointment of auditors 12. Future venues IRG 48: Ghent, Belgium 4-8 June 2017; IRG 49; IRG 50 13. Any other business	16-60399 16-60400
19:30-23:00	CONFERENCE BANQUET	