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

# Monday 16 May

Auditório	Opening Plenary Session	
Additionio	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
	<ul> <li>Ratification of the election of new members since last year's Plenary</li> </ul>	
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	
Additorio	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	
10:20-10:20	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	

Auditório	Scientific Main Session – section papers Co-conveners: Rod Stirling, Miha Humar, Lehong Jin, Tripti Singh, Morten Klamer	
11:00-11:20	Real-Time PCR Assays for the detection of the dry rot fungus Serpula lacrymans and its close relative Serpula himantioides K Jacobs, N Rangno	16-10867
11:20-11:40	Global survey on durability variation – on the effect of the reference species <u>R Stirling</u> , G Alfredsen, C Brischke, I De Windt, L P Francis, E Frühwald Hansson, M Humar, J Jermer, M Klamer, 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	16-20573
11:40-12:00	<b>Evaluation of advanced tannin-boron preservative in unsterile soil-bed tests</b> Jinbo Hu, Yiqiang Wu, Shanshan Chang, Guangming Yuan, G Tondi, M-F Thévenon	16-30693

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	
12 20 12 50	Evaluating the Effects of Post Dip-Treatment Laser Marking on Resistance to Feeding by Subterranean	46 40054
13:30-13:50	<b>Termites</b> R A Arango, B Woodward, S Lebow	16-10854
	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
11.10 11.50	<u>L J Cookson</u> , R W Clawson Jr	10 10055
Auditório	Working Party Session WP 4.7. Protection by design	
Additionio	Convener: Karl-Christian Mahnert	
14:30-14:50	Encapsulation of poles to prevent moisture uptake – a laboratory test	16-40753
14.30-14.30	<u>K-C Mahnert</u> , U Hundhausen	10-40733
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	10-30083
15:50-16:10	Anti-Fungal Activity on Some Wood extracts as a Wood Protectant	16 20694
15.50-10.10	<u>Ö Özgenç</u> , S Durmaz	16-30684
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>	
	Accelerated Weathering Performance of Impregnated Wood Samples Coated with Zinc by Means of Plasma-	
16:50-17:10	Assisted Particle Deposition	16-30682
	<u>A Can</u> , H Sivrikaya	
19:00-21:00	President's RECEPTION	

Pequeno	Working Party Session WP 4.4. Coatings, hydrophobic treatments and surface a	spects
Auditório	Conveners: Mojgan Nejad & Laurence Podgorski	
13:30-13:50	Colorant Treatments to Enhance the Weathering Resistance of Western Redcedar	16-40737
15.50-15.50	<u>R Stirling</u> , V Landry	10-40757
13:50-14:10	Variation in coating hardness during the EN 927-6 weathering test: influence of pigmentation	16-40739
13.30-14.10	<u>L Podgorski</u> , L Malassenet, C Reynaud	10-40733
	Formation of hydrophobic wood surface by means of thermal treatment and surface modification with alkyl	
14:10-14:30	ketene dimer (AKD)	16-40738
	T Lovaglio, T Meints, L Todaro, W Gindl-Altmutter	
	Development of a new method for wood hydrophobizing and fixation of copper compounds by chemical	
14:30-14:50	hardening of vegetable based modified oils	16-40754
	<u>C Swaboda</u> , M Fischer, K Jacobs	
14:50-15:00	Questions	
15:00-15:30	Coffee / Tea	

Pequeno Auditório	Working Party Session WP 4.4. ctd. Coatings, hydrophobic treatments and surface aspects 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 <u>M Kutnik</u> , M Montibus, S Derocker, S Salivati, J-P Lecomte	16-30685
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	
08.20 08.50	CCA Treated Wood, Will It Last 100 Years?	16-20575
08:30-08:50	<u>T Singh</u> , D Page	10-20575
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>	10-40755
	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	10-20200
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	Environmentally Sustainable Method of Termite Management using a baiting system: A case study in the Philippines <u>P Dhang</u>	16-50317
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	

	Working Party Session WP 3.4 Fire retardants & WP 4.6 Fire protection & COST	Action
Auditório	FP1404 Special Session	
	Convener: Ulrich Hundhausen	
15:30-15:50	Performance of a new water-based fire retardant in wood-based panels	16-30697
13.30-13.30	<u>D Jones</u> , M Lawther, A C Steenkjær Hastrup, P Fynholm, P Fælled, D Penaloza	10-30097
15:50-16:10	Combustion and thermal characteristics of Korean wood species	16-40727
15.50-10.10	Huyun Jeong Seo, Jung-eun Park, <u>Dong Won Son</u> , Won-Joung Hwang	10-40727
Auditório	Working Party Session WP 1.4. Natural durability	
Auditorio	Conveners: Marie-France Thévenon & Nadine Amusant	
	Wood Natural durability study source of biomolecules: case of Dicorynia guianensis Amsh. heartwood	
16:10-16:30	J-B Say Anouhe, A A Adima, F B Niamké, D Stien, B Kassi Amian, D Virieux, J-L Pirate, S Kati-Coulibaly,	16-10871
	<u>N Amusant</u>	
16:30-16:50	GC-MS Characterizations of Termiticidal Heartwood Extractives from Wood Species Utilized in Pakistan	16-10857
10.30-10.30	<u>M Mankowski</u> , B Boyd, B Hassan, G T Kirker	10-10857
16:50-17:10	Antitermitic activities of Shisham (Dalbergia sissoo Roxb.) heartwood extractives against two termite spec.	16-10856
10.30-17.10	<u>B Hassan</u> , M Mankowski, G Kirker, S Ahmed, M Misbah ul Haq	
	Laboratory evaluations of woods from Pakistan and their extractives against Postia placenta and	
17:10-17:30	Trametes versicolor	16-10860
	<u>M Mankowski</u> , B Hassan, A Bishell, G Kirker	
	Durability to decay organisms of <i>Pinus nigra</i> subsp. <i>laricio</i> var. <i>corsicana</i> . Influence of the moon phase	16-10869
	M T Troya, M Conde, M J Barriola, F Llinares, V Dorronsoro	10-10009

Auditório	Poster Session	
	Convener: Joris Van Acker	
17:30-18:30	POSTER SESSION (IRG/WP 16-60397)	
	State of the art of industrial wood protection in Portugal	16-30703
	L Nunes, J Carmo, J Vicente, B Esteves	10-30703
	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	16-20581
	<u>C Brischke</u> , L Meyer-Veltrup	10-20581
	Moisture monitoring in WW2 partisan hospital Franja	16-20596
	<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	16-40768
	<u>H Turunen</u> , L Linkosalmi, J Peura, O Paajanen	10-40/08

Efficacy of lignocellulosic materials for Removal of Cation and Anions from Industrial and Urban Wa M Akhtari, M Ghorbani Kohkandeh, H Borazjani	astewater 16-50321
Quality determination of Aureobasidium cells in fermentation liquid of wood protective biofin	nish
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 Po	otential
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, M Burnard, A Kutnar	

Pequeno	Working Party Session WP 3.2. Organic preservatives	
Auditório	Convener: Hans Leithoff	
08:30-08:50	Fungistatic activity of quinolizidine and bisquinolizidine alkaloids against A. niger	16-30699
08.50-08.50	<u>P W Kwaśniewska-Sip</u> , G Cofta, B Mazela, L Ross Gobakken, A K Przybył	10-20033
08:50-09:10	Decay resistance of wood treated with bio-friendly preservative systems	16-30698
08.50-09.10	B Mazela, G Cofta, <u>W Perdoch</u> , L Ross Gobakken, P Kwaśniewska-Sip	10-30098
	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	
09:30-09:50	Fungicidal Effect of Tobacco Stalks ( <i>Nicotiana tabacum</i> L.) Against Brown Rot Fungi " <i>Coniophora puteana</i> "	16-10865
09.30-09.30	Ü C Yıldız, S Yıldız, A Yılmaz, <u>S Durmaz</u>	10-10805
09:50-10:10	Termiticidal Effect of Bitumen and Creosote oil Treatments on Selected Nigerian Wood Species	16-30689
09.50-10.10	<u>J M Owoyemi</u> , A O Adiji, J T Aladejana, O E Olawale, O D Oladapo	10-20003
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 10710
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 Wei Xue, P Kennepohl, <u>J N R Ruddick</u>	16-30690
12:00-12:20	<b>The termite resistance of wood impregnated with nano-zinc oxide and nano-zinc borate dispersions</b> C Lykidis, T de Troya, M Conde <u>, J Galván</u> , G Mantanis	16-30691
12:20-12:40	Effects of fungal exposure on air and liquid permeability of nanosilver- and nanozincoxide-impregnated Paulownia wood H R Taghiyari, A Kalantari, <u>M Ghorbani Kookandeh</u> , F Bavaneghi, M Akhtari	16-30680

12:40-13:30	Lunch	
Pequeno	Working Party Session WP 1.6. Cultural artefact protection	
Auditório	Convener: 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
15.30-14.10	<u>M Broda</u> , B Mazela	10-10074
14:10-14:30	Cryptotermes brevis - a silent earthquake for the wood structures in a World Heritage city in the Azores Isl.	16-50316
14.10-14.30	<u>O Guerreiro</u> , P A V Borges, L Nunes	10-30310
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
15.50-15.50	P S Sejati, A Imbert, <u>C Gérardin</u> , S Dumarçay, E Fredon, E Masson, D Nandika, T Priadi, P Gérardin	10-40748
	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	
16.20 16.50	Accelerated weathering and fungal resistance of wood modified with isopropenyl acetate	16 40764
16:30-16:50	<u>G B Nagarajappa</u> , K K Pandey	16-40764

# Programme

The 47<sup>th</sup> 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	16-20587
	<u>A Sandak</u> , J Sandak, I Burud, L Ross Gobakken, M Noël	
08:50-09:10	Measurement of Cell Wall Moisture in Acetylated Radiata Pine Using Low-Field Nuclear Magnetic Resonance	16-20583
08:50-09:10	<u>H G Beck</u> , C A S Hill	10-20585
00.40.00.20	Distribution and penetration of the tung oil in wood studied by high-resolution magnetic resonance imaging	46 20502
09:10-09:30	<u>M Žlahtič</u> , U Mikac, I Serša, M Merela, M Humar	16-20593
00.20 00.50	Screening of fastener resistance in contact with untreated wood using different test designs	16 20606
09:30-09:50	<u>E Melcher</u> , S Wolf, U Cera	16-30686
	Preparation of Calibration Standards for the Analysis of Pentachlorophenol in Treated Wood by X-ray	
09:50-10:10	Fluorescence	16-20591
	L L Ingram Jr, H M Barnes, R Shmulsky, <u>D Jeremic</u>	
10:10-10:30	Insight in moisture dynamics of wood treated with organosilicon compounds	16 20509
	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	<b>Transfer of microorganisms from wooden crates to foodstuffs: assessment of a transfer threshold</b> <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 timber	
Auditório	Conveners: Andreas Treu & Julien Trompetter	
	A Treatability Study of Western Wood Species with Water Based Azoles and Insecticides Using Buffered	
08:30-08:50	Amine Oxides	16-40766
	<u>R W Clawson Jr</u> , C N Cheeks, K A Cutler	
	Influence of pressure phase impregnation time on the uptake and distribution of wood preservatives in	
08:50-09:10	Scots pine material of diverse treatability	16-40752
	<u>K Zimmer</u> , B Kerfrieden	
09:10-09:30	Impregnation of railway sleepers - Pressure gradient and transversal penetration	16-40731
09.10-09.30	<u>M Starck</u> , A Gellerich, H Militz	10-40751
	Effect of Presteam Densification on Leachability and Dimensional Stability of Nanocopper Impregnated	
09:30-09:50	Poplar	16-40723
	<u>G Rassam</u> , A Talaei, A Ahmadi	
09:50-10:10	Investigation of enzymatic effect on pit membranes by light and scanning electron microscopy	16-40721
09.30-10.10	<u>S Durmaz</u> , Ü C Yildiz, M Öztürk, B Serdar	10-40721
10:10-10:30	A Comparison on Penetration of Silica Sol in Scots pine and Southern pine wood	16-40722
10.10-10.30	Mingyang Sun, <u>Jinzhen Cao</u>	10-40722
10:30-11:00	Coffee / Tea	

Pequeno Auditório	Working Party Session WP 1.1. Soft rot, bacteria, bluestain and moulds	
Auunono	Conveners: Elke van Nieuwenhuijzen & Ingunn Burud	
11:00-11:20	Susceptibility of wood substrates to Aurebasidium pullulans at different temperatures	16-10863
11.00 11.20	<u>L Ross Gobakken</u> , G Alfredsen	10 10005
11.20 11.40	Identification of the key factors influencing development of the blue stain fungi	46 40070
11:20-11:40	D Kržišnik, B Lesar, N Thaler, M Humar	16-10872
11.10 12.00	Simulation of surface climate and mould growth on wooden façades	16-20585
11:40-12:00	<u>T K Thiis</u> , I Burud, D Kraniotis, L Ross Gobakken	
	Formation of biofinishes on outdoor exposed wood; the impact of wood-oil combination and geographical	
12:00-12:20	location. Influence factors of outdoor biofinish formation on oil treated wood	16-10864
	<u>E J van Nieuwenhuijzen</u> , L Ross Gobakken, M F Sailer, R A Samson, O C G Adan	
12.20 12.10	Dynamics of biofilm formation on wood impregnated with vegetable oils	10 10700
12:20-12:40	<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 Pinus radiata generated during industrial thermal-treatment	16-20586
08.30-08.30	<u>R Herrera</u> , D Thomas da Silva, R Llano-Ponte, J Labidi	10-20580
	How intraspecific radial variability of the European Oak's may influence mild pyrolysis process and durability	
08:50-09:10	of the material?	16-40725
	J Hamada, A Pétrissans, F Mothe, M Pétrissans, <u>P Gérardin</u>	
00.10 00.20	Resistance of heat treated Ash wood under steam pressure: rot fungi, soil micro-organisms and termites	16-40724
09:10-09:30	<u>K Candelier</u> , S Hannouz, M-F Thévenon, D Guibal, P Gérardin, M Pétrissans, R Collet	
09:30-09:50	Durability of Thermally Modified Engineered Wood Products	16-40745
09.30-09.30	<u>H M Barnes</u> , M D Aro, A Rowlen	10-40745
00.50 10.10	Exterior birch plywood: potentiality of the thermo-hydro treatment	46 40742
09:50-10:10	<u>B Andersons</u> , I Andersone, A Meija-Feldmane, I Irbe, A Janberga, J Grinins	16-40743
	The durability of natural and thermomodified black poplar wood and Scots pine sapwood after two years of	
10:10-10:30	external exposition	16-40730
	A Fojutowski, A Kropacz, A Noskowiak	
10:30-11:00	Coffee / Tea	

Sala 2	Working Party Session WP 4.5. ctd. Thermal wood modification Convener: Philippe Gérardin	
11:00-11:20	<b>The influence of log soaking temperature and thermal modification on the properties of birch veneers</b> <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, I Cuccui, <u>O Allegretti</u> , N Terziev	16-40758

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	
Additorio	Convener: Claudia Ibáñez	
08:30-08:50	Role of cell wall specific moisture content on the brown-rot fungal attack on wood <u>R M Rowell</u>	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	<b>Exudate production: a detoxification strategy of wood decaying fungi</b> 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	<b>Creosote leaching from timber bridges in Norway – a practical classification approach</b> 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>U Hundhausen</u>	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	Working Party Session WP 4.2. ctd. Wood composites, WPCs and Engineered v	wood
Auditório	products	
Additionio	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 Llovd, 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	<b>Final Plenary Session</b> 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	1