

**IRG Documents 2016 (received 29 April)**

**Section 1 Biology**

IRG/WP 16-10854

Evaluating the Effects of Post Dip-Treatment Laser Marking on Resistance to Feeding by Subterranean Termites

R A Arango, B Woodward, S Lebow

IRG/WP 16-10855

Above-ground performance of a buffered amine oxide treatment system against *Mastotermes darwiniensis*

L J Cookson, R W Clawson Jr

IRG/WP 16-10856

Antitermitic activities of Shisham (*Dalbergia sissoo* Roxb.) heartwood extractives against two termite species

B Hassan, M Mankowski, G Kirker, S Ahmed, M Misbah ul Haq

IRG/WP 16-10857

GC-MS Characterizations of Termiticidal Heartwood Extractives from Wood Species Utilized in Pakistan

M E Mankowski, B Boyd, B Hassan, G T Kirker

IRG/WP 16-10858

Foundation piles: analysis of beech wood decay in service life conditions

Q Kleindienst, A Besserer, M-L Antoine, C Perrin, J-F Bocquet, L Bléron

IRG/WP 16-10859

The copper-transporting ATPase pump and its potential role in copper-tolerance

K M Ohno, C A Clausen, F Green III, G Stanosz

IRG/WP 16-10860

Laboratory evaluations of woods from Pakistan and their extractives against *Postia placenta* and *Trametes versicolor*

M Mankowski, B Hassan, A Bishell, G Kirker

IRG/WP 16-10861

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

IRG/WP 16-10862

High-frequency monitoring of mass loss due to brown rot degradation of modified wood

R Ringman, A Pilgård, K Richter

IRG/WP 16-10863

Susceptibility of wood substrates to *Aurebasidium pullulans* at different temperatures

L Ross Gobakken, G Alfredsén

IRG/WP 16-10864

Formation of biofinishes on outdoor exposed wood; the impact of wood-oil combination and geographical location. Influence factors of outdoor biofinish formation on oil treated wood

E J van Nieuwenhuijzen, L Ross Gobakken, M F Sailer, R A Samson, O C G Adan

IRG/WP 16-10865

Fungicidal Effect of Tobacco Stalks (*Nicotiana tabacum* L.) Against Brown Rot Fungi "*Coniophora puteana*"

Ü C Yıldız, S Yıldız, A Yılmaz, S Durmaz

IRG/WP 16-10866 **POSTER**

New approach to improve the estimation of colony population in subterranean termites (*Blattodea: Rhinotermitidae*)

E Alcaide, R Molero, J Diz, M Gaju

IRG/WP 16-10867

Real-Time PCR Assays for the detection of the dry rot fungus *Serpula lacrymans* and its close relative *Serpula himantoides*

K Jacobs, N Rangno

IRG/WP 16-10868

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, E Gelhaye

IRG/WP 16-10869

Durability to decay organisms of *Pinus nigra* subsp. *laricio* var. *corsicana*. Influence of the moon phase.

M T Troya, M Conde, M J Barriola, F Llinares, V Dorronsoro

IRG/WP 16-10870

Molecular Pathways in the Brown Rot Fungus *Gloeophyllum trabeum* in Oxalate Production

Liangpeng Zhuang, Weihua Guo, M Yoshidac, Xueyang Feng, B Goodell

IRG/WP 16-10871

Wood Natural durability study source of biomolecules: case of *Dicorynia guianensis* 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

IRG/WP 16-10872

Identification of the key factors influencing development of the blue stain fungi

D Kržišnik, B Lesar, N Thaler, M Humar

IRG/WP 16-10873

Fungal decay of archaeological waterlogged oak timber: role of the mineral content

A Besserer, M Letellier, E Fredon, Q Kleindienst, M-L Antoine, C Perrin, J Lallemand, C Rose, M-C Trouy

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Cultural heritage – research into innovative solutions and methods for historic wood conservation

M Broda, B Mazela

IRG/WP 16-10875

Diversity of hindgut symbiotic flagellate protist communities of the European subterranean termite in Portugal

S Duarte, T Nobre, M Duarte, P A V Borges, L Nunes

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IRG/WP 16-20573

Global survey on durability variation – on the effect of the reference species

R Stirling, G Alfredsen, C Brischke, I De Windt, L P Francis, E Frühwald Hansson, M Humar, J Jermer, M Klammer, 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

IRG/WP 16-20574

Transfer of microorganisms from wooden crates to foodstuffs: assessment of a transfer threshold

M Montibus, R Ismail, I Le Bayon, A Jasick, M Gabille, F Aviat, V Michel, M Federighi, M Kutnik

IRG/WP 16-20575

CCA Treated Wood, Will It Last 100 Years?

T Singh, D Page

IRG/WP 16-20576

On the effect of climate and exposure conditions on durability indicators and their potential for service life prediction of wood-based products

G Alfredsen, C Brischke, P-O Flæte, M Humar, L Meyer-Veltrup

IRG/WP 16-20577

Moisture induced risk and fungal development in various field test set-ups in and above ground

L Meyer-Veltrup, C Brischke

IRG/WP 16-20578

Weather degradation of thin wood samples

I Burud, K A Smeland, K Hovde Liland, T K Thiis, J Sandak, A Sandak, L Ross Gobakken

IRG/WP 16-20579

Selection of most aggressive test fungi for modified wood - Practical laboratory experience

A Gellerich, S Bollmus

IRG/WP 16-20580

Variation in moisture content in field trials according to use class 3.2 conditions

S Bollmus, A Gellerich, H Militz

IRG/WP 16-20581 **POSTER**

Bundle tests - Simple alternatives to standard above ground field test methods

C Brischke, L Meyer-Veltrup

IRG/WP 16-20582

Modelling the performance of bio-based building materials

C Brischke

IRG/WP 16-20583

Measurement of Cell Wall Moisture in Acetylated Radiata Pine Using Low-Field Nuclear Magnetic Resonance

H G Beck, C A S Hill

IRG/WP 16-20584

Release of Copper from Pressure Treated Wood

Jun Zhang, J Horton

IRG/WP 16-20585

Simulation of surface climate and mould growth on wooden façades

T K Thiis, I Burud, D Kraniotis, L Ross Gobakken

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Characterization of waste from *Pinus radiata* generated during industrial thermal-treatment

R Herrera, D Thomas da Silva, R Llano-Ponte, J Labidi

IRG/WP 16-20587

Expert versus multi-sensor evaluation of wood samples after short term weathering

A Sandak, J Sandak, I Burud, L Ross Gobakken, M Noël

IRG/WP 16-20588

Development of decay hazard maps based on decay prediction models

J Niklewski, E Frühwald Hansson, C Brischke, D Kavurmaci

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Wood biodeterioration monitoring using molecular fluorescence

E Meneses Oliveira, A Florian da Costa, J W Batista Brag

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Studying fungal growth using automated image analysis and computer simulations

G Vidal-Diez de Ulzurrun, J M Baetens, J Van den Bulcke, B De Baets

IRG/WP 16-20591

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, D Jeremic

IRG/WP 16-20592

Durability of a willow/plastic composite mat

Li Yan, Haiyan Duan, Beizhan Quan, J Cappellazzi, J J Morrell

IRG/WP 16-20593

Distribution and penetration of the tung oil in wood studied by high-resolution magnetic resonance imaging

M Žlahtič, U Mikac, I Serša, M Merela, M Humar

IRG/WP 16-20594

Evaluation of field test data

F Bongers, C Brischke, J Van den Bulcke, W Gard, I De Windt, H Militz

IRG/WP 16-20595

Performance of copper treated poles and posts after three to fifteen years of exposure

M Humar, N Thaler

IRG/WP 16-20596 **POSTER**

Moisture monitoring in WW2 partisan hospital Franja

M Humar, N Thaler, B Lesar, A Žagar

IRG/WP 16-20597

Engineering for Rural and Civil Development. Uni Performance of wood exterior structures above ground contact in Spain built with softwood species. The situation of cases in northern Spain

D Lorenzo, J Fernández-Golfín, M Touza

IRG/WP 16-20598

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

### **Section 3 Wood protecting chemicals**

IRG/WP 16-30680

Effects of fungal exposure on air and liquid permeability of nanosilver- and nanozinc-impregnated Paulownia wood

H R Taghiyari, A Kalantari, M Ghorbani Kookandeh, F Bavaneghi, M Akhtari

IRG/WP 16-30681

A non-VOC approach of solvent-based wood preservatives for remedial treatment

M Pallaske, S Hellkamp, P Jüngel

IRG/WP 16-30682

Accelerated Weathering Performance of Impregnated Wood Samples Coated with Zinc by Means of Plasma-Assisted Particle Deposition

A Can, H Sivrikaya

IRG/WP 16-30683

Effect of the Storage Time of Logs in Anti-Stain Treatment Effectiveness

M A Peredo, C Barria

IRG/WP 16-30684

Anti-Fungal Activity on Some Wood extracts as a Wood Protectant

Ö Özgenç, S Durmaz

IRG/WP 16-30685

Assessment of the biological durability of wood treated with organosilicon compounds

M Kutnik, M Montibus, S Derocker, S Salivati, J-P Lecomte

IRG/WP 16-30686

Screening of fastener resistance in contact with untreated wood using different test designs

E Melcher, S Wolf, U Cera

IRG/WP 16-30687

Laboratory and Field evaluation on Resistance of Thiacloprid-treated Pine Species to Termites in Mexico

P Meckler, T Jaetsch, I Rodriguez

IRG/WP 16-30688

Performance of 3-iodo-2-propynyl butyl carbamate (IPBC) in L-joints under tropical conditions

J J Morrell

IRG/WP 16-30689

Termiticidal Effect of Bitumen and Creosote oil Treatments on Selected Nigerian Wood Species

J M Owoyemi, A O Adiji, J T Aladejana, O E Olawale, O D Oladapo

IRG/WP 16-30690

Evidence for a role for precipitated copper on the chemistry of micronized copper treatments

Wei Xue, P Kennepohl, J N R Ruddick

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The termite resistance of wood impregnated with nano-zinc oxide and nano-zinc borate dispersions

C Lykidis, T de Troya, M Conde, J Galván, G Mantanis

IRG/WP 16-30692

Effects of Bio-oil Obtained from Laurel (*Laurus nobilis*) Residues on Biological, Physical, and Mechanical Properties of Treated Wood

S Akbas, A Temiz, N Terziev, M H Alma, S Palanti, E Feci

IRG/WP 16-30693

Evaluation of advanced tannin-boron preservative in unsterile soil-bed tests

Jinbo Hu, Yiqiang Wu, Shanshan Chang, Guangming Yuan, G Tondi, M-F Thévenon

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Protection of bamboo against fungi by Laccase-Catalyzed Iodination

K P Nayebare, Shaoyong Zhang, Fangli Sun, B Goodell

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J Zabielska-Matejuk, A Stangierska

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Wood properties modification by an enzymatic assisted treatment with phenolic extractives

D Filgueira, C Fernández-Costas, D E García, D Moldes

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D Jones, M Lawther, A C Steenkjaer Hastrup, P Fynholm, P Fællø, D Penaloza

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Decay resistance of wood treated with bio-friendly preservative systems

B Mazela, G Cofta, W Perdoch, L Ross Gobakken, P Kwaśniewska-Sip

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P W Kwaśniewska-Sip, G Cofta, B Mazela, L Ross Gobakken, A K Przybył

IRG/WP 16-30700

Estimation of wood degradation determined by visual inspection, mechanical testing and DNA characterisation – report after 3 years of exposure

N Thaler, T Martinović, M Bajc, D Finžgar, H Kraigher, A Sinha, J J Morrell, M Humar

IRG/WP 16-30701

Fire retardant treated wood products – Properties and uses

B Östman, L Tsantaridis

IRG/WP 16-30702 **POSTER**

Evaluation of the effects of different concentrations of Fipronil against *Reticulitermes grassei* (*Blattodea: Rhinotermitidae*)

J R Carbonero-Pacheco, R Molero, M E Alcaide, J Diz, M Gaju

IRG/WP 16-30703 **POSTER**

State of the art of industrial wood protection in Portugal

L Nunes, J Carmo, J Vicente, B Esteves

## Section 4 Processes and properties

IRG/WP 16-40715

Increasing the hardness of wood-composite panels by nanosilver

H R Taghiyari, J Norton, K Heidarhaee

IRG/WP 16-40716

Effect of Nano-Silane on Permeability in MDF as a Result of Susceptibility to Moulds and Fungi

H R Taghiyari, J Norton, A Moradian, M Sadegh Taher Tolou Del, H Siahposht, B Moradi-Malek, M Noferesti

IRG/WP 16-40717

Decay resistance of beech wood and plywood treated with different type of phenol-formaldehyde (PF) resins

V Biziks, S Bicke, H Militz

IRG/WP 16-40718

The durability of manufactured structural building materials

T Singh, D Page

IRG/WP 16-40719

Depictions on Wood: Acceptation and Internalization of Wood, which is an intercultural interaction tool, as “A Valuable Object” (Wood is Life)

I Usta

IRG/WP 16-40720

Depictions on Wood: Acceptation and Internalization of Wood, which is an intercultural interaction tool, as “A Valuable Object” (Wood Lover Approach)

I Usta

IRG/WP 16-40721

Investigation of enzymatic effect on pit membranes by light and scanning electron microscopy

S Durmaz, Ü C Yildiz, M Öztürk, B Serdar

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A Comparison on Penetration of Silica Sol in Scots pine and Southern pine wood

Mingyang Sun, Jinzhen Cao

IRG/WP 16-40723

Effect of Presteam Densification on Leachability and Dimensional Stability of Nanocopper Impregnated Poplar

G Rassam, A Talaei, A Ahmadi

IRG/WP 16-40724

Resistance of heat treated Ash wood under steam pressure: rot fungi, soil micro-organisms and termites

K Candelier, S Hannouz, M-F Thévenon, D Guibal, P Gérardin, M Pétrissans, R Collet

IRG/WP 16-40725

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, P Gérardin

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Modifying wood with paraffin wax emulsion impregnation and thermal modification: hydrophobization effect and mechanism of the combined treatment

Wang Wang, Jinzhen Cao, Cong Chen

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Combustion and thermal characteristics of Korean wood species

Huyun Jeong Seo, Jung-eun Park, Dong Won Son, Won-Joung Hwang

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Fabrication and characterization of MicroPCMs filled wood-plastic composites: Effects of polyethylene glycol on melamine-formaldehyde shell material

Xi Guo, Jinzhen Cao

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Incorporation of raw boron minerals to protect particleboard against decay and mold fungi, termites and insects

S N Kartal, E Terzi, P Gérardin, C M Ibanez, T Yoshimura

IRG/WP 16-40730

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

IRG/WP 16-40731

Impregnation of railway sleepers - Pressure gradient and transversal penetration

M Starck, A Gellerich, H Militz

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Dynamic mechanical analysis of viscoelastic properties of heat treated glycerol-impregnation poplar wood

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Hygrothermal performance of ventilated wooden cladding

K Nore, U Hundhausen

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Superhydrophobic treatment of Norway spruce wood for improvement of its resistance against brown rot and moulds

A Kumar, P Ryparová, P Hajek, B Kričej, M Pavlič, A S Škapin, M Šernek, J Tywoniak, J Žigon, M Petrič

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Thermoplastic Plywood at Moderately Increased Thermal Conditions

R Réh, M Guoth

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Role of cell wall specific moisture content on the brown-rot fungal attack on wood

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R Stirling, V Landry

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Variation in coating hardness during the EN 927-6 weathering test: influence of pigmentation  
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Enhancing wood properties through bio-based and non-biocidal co-polyesters  
C L'Hostis, M-F Thévenon, E Fredon, P Gérardin

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Optimising wood chemical modification with lactic acid oligomers by screening of processing conditions and chemical additives  
C Grosse, M-F Thévenon, M Noël, P Gérardin

IRG/WP 16-40742

New perspectives for wood protection: enzyme-based treatments  
C Fernández-Costas, S Palanti, M Á Sanromán, D Moldes

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Exterior birch plywood: potentiality of the thermo-hydro treatment  
B Andersons, I Andersone, A Meija-Feldmane, I Irbe, A Janberga, J Grinins

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Creosote leaching from timber bridges in Norway – a practical classification approach  
A Treu, K Zimmer

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H M Barnes, M D Aro, A Rowlen

IRG/WP 16-40746 **POSTER**

Preparation of highly wear-resistance superhydrophobic wood for the prevention of water/humidity attack  
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Properties of Wood Plastic Composites Made of Recycled HDPE and Remediated Wood Flour from CCA/CCB Treated Wood Removed from Service  
E D Gezer, S Akbaş, M Tufan, A Temiz

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The impact of catalyst on the properties of furfurylated beech wood  
P S Sejati, A Imbert, C Gérardin, S Dumarçay, E Fredon, E Masson, D Nandika, T Priadi, P Gérardin

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S Källbom, K Laine, M S Moghaddam, A Rohumaa, K Segerholm, M Wålinder

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Fungal resistance and accelerated weathering of Wood-Plastic composites reinforced with Maritime pine wood flour  
M Jebrane, T Fournier, N-E El Bounia, F Charrier-El Bouhtoury

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Evaluation of Commercially Available Polyurethane Resin to Develop Non-biocidal Wood Preservation Treatments

M Mubarak, Y Sudo Hadi, J Suryana, I W Darmawan, F Simon, S Dumarcay, C Gérardin, P Gérardin

IRG/WP 16-40752

Influence of pressure phase impregnation time on the uptake and distribution of wood preservatives in Scots pine material of diverse treatability

K Zimmer, B Kerfrieder

IRG/WP 16-40753

Encapsulation of poles to prevent moisture uptake – a laboratory test

K-C Mahnert, U Hundhausen

IRG/WP 16-40754

Development of a new method for wood hydrophobizing and fixation of copper compounds by chemical hardening of vegetable based modified oils

C Swaboda, M Fischer, K Jacobs

IRG/WP 16-40755

An Open Letter to Proponents of CLT/Massive Timber

A Taylor, J Lloyd, T Shelton

IRG/WP 16-40756

Marine Borer Resistance of Acetylated and Furfurylated Wood – Results from up to 16 years of Field Exposure

M Westin, P Larsson Brelid, T Nilsson, A O Rapp, J P Dickerson, S Lande, S Cragg

IRG/WP 16-40757

Effect of Furfurylation on Shear Strength of Bond Line and Screw Withdrawal Resistance of Beech and Fir Wood

A Talaei, H Abdolzadeh, M Saleh Zare

IRG/WP 16-40758

Chemical, physical-mechanical characterization and durability of thermally modified beech and ash wood by thermo-vacuum process (Termovuoto)

M Jebrane, I Cuccui, O Allegretti, N Terziev

IRG/WP 16-40759 **POSTER**

The effect of acetylation on physical properties of beech (*Fagus orientalis*) and Alder (*Alnus subcordata*) wood

M Akhtari, M Arefkhani

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Development of methodologies to evaluate tanning blocking coatings

C Reynaud, L Podgorski

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Improvement of wood properties by impregnation with liquefied spruce bark based resins

X Duret, E Fredon, E Masson, P Gérardin

IRG/WP 16-40762 **POSTER**

Effect of different concentration of furfurylation on physical properties and decay resistance of Paulownia wood

M Ghorbani, H Asghari

IRG/WP 16-40763

Effect of insitu polymerization on practical properties of heat treated wood

M Ghorbani, M Mohseni Shaktai

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Accelerated weathering and fungal resistance of wood modified with isopropenyl acetate

G B Nagarajappa, K K Pandey

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Glue-bond strength of simul (*Bombax ceiba*) plywood made of mahogany (*Switenia microphyla*) seeds treated veneers

K Akhter, M A Hashem, S Akhter

IRG/WP 16-40766

A Treatability Study of Western Wood Species with Water Based Azoles and Insecticides Using Buffered Amine Oxides

R W Clawson Jr, C N Cheeks, K A Cutler

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What makes cellulose auxetic?

A Asamoah, S Eichhorn, K Evans

IRG/WP 16-40768 **POSTER**

Development of Wood Modification – High melting point wax and hot oil treatments

H Turunen, L Linkosalmi, J Peura, O Paajanen

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Dynamics of biofilm formation on wood impregnated with vegetable oils

K Filippovych, H Huinink, L van der Ven, O C G Adan

## **Section 5 Sustainability and environment**

IRG/WP 16-50314

The Environmental Impact of Timber Products Compared to other Building Materials – A Survey of Published Environmental Product Declarations

C Hill, J Dibdiakova

IRG/WP 16-50315

Decontamination of sludges, liquids and soils polluted by “class 1, 2 & 3a” and “temporary” wood treatment products from dipping tanks

A Zaremski, E Wozniak, S Maman, C Zaremski, S Morel

IRG/WP 16-50316

*Cryptotermes brevis* - a silent earthquake for the wood structures in a World Heritage city in the Azores Islands

O Guerreiro, P A V Borges, L Nunes

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Environmentally Sustainable Method of Termite Management using a baiting system: A case study in the Philippines

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Bacterial Degradation of Pentachlorophenol Indicated in Groundwater Undergoing Long Term In-Situ Remediation

C E Stokes, H Borazjani, L Prewitt

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Lignin-Based Adhesive for Engineered Wood Products

I Kalami, M Arefmanesh, E Master, M Nejad

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Life cycle assessment of creosote treated wood and tall oil treated wood with focus on end-of-life

L G F Tellnes, U Hundhausen

IRG/WP 16-50321 **POSTER**

Efficacy of lignocellulosic materials for Removal of Cation and Anions from Industrial and Urban Wastewater

M Akhtari, M Ghorbani Kohkandeh, H Borazjani

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Contamination of recycled wood from selected recycling companies in Europe

B Lesar, M Humar, G Hora

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Wood Protection and Environmental Performance of Products - Impacts COST Action FP1407 Aims to Bring

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## **Section 6 Other documents**

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IRG Secretariat

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Guidelines for "Gareth Williams Award"

IRG Secretariat

IRG/WP 16-60394

Guidelines for "Richard J Ziobro Award"

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Annual Report 2015

IRG Secretariat

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Agenda 2016 Plenary meeting

IRG Secretariat

IRG/WP 16-60397

The 47<sup>th</sup> Annual Meeting of IRG. Poster abstracts

IRG Secretariat

IRG/WP 16-60398

Programme. The 47<sup>th</sup> Annual Meeting of The International Research Group in Wood Protection

IRG Secretariat