

THE INTERNATIONAL RESEARCH GROUP ON WOOD PROTECTION

The 44th Annual Meeting of IRG

Programme

**IRG Secretariat
Box 5609
SE-114 86 Stockholm
Sweden
www.irg-wp.org**

MONDAY 17 June

Room E1

08.30-10.30

Opening Ceremony of the 44th Annual Meeting

Opening addresses by

Maria Khorsand, CEO of SP Technical Research Institute of Sweden

Jack Norton, President, The International Research Group on Wood Protection

Mikael Westin, Managing Director, The Swedish Wood Preserving Association

Plenary session

President: Jack Norton

Vice-President: Jeff Lloyd

Secretary-General: Jöran Jermer

Plenary

1. Opening of the meeting
2. Approval of the agenda (IRG/WP 13-60342)
3. Membership issues
 - Moment of silence for passed away members
 - Ratification of the election of new members since last year's Plenary
4. Announcement of Ron Cockcroft Award recipients
5. Approval of the Annual Report 2012 and Auditors' report (IRG/WP 13-60341)
6. Granting discharge for the Executive Council and Secretary-General from the administration and accountancy for 2012
7. IRG Strategic Statement and Framework – Progress report

Keynote

IRG/WP 13-20515

Service life evaluation of wood - an engineering approach

S Thelandersson

MONDAY 17 June

Room E1

11.00-12.30

Scientific Main Session

Convener: Jeff Lloyd Co-conveners: Lina Nunes, Gry Alfredsen, Thomas Mark Venaas, S Nami Kartal

IRG/WP 13-10811

Focus on the European standardization. Towards a revision of the EN 350 natural durability standard: a different approach to the inherent resistance and performance of wood and wood-based materials

M Kutnik

IRG/WP 13-20504, IRG/WP 13-20512

Statistical analysis of durability tests

J Van Acker

IRG/WP 13-30622

The Concept of Copper and Boron Synergy: Why Copper Naphthenate and Borates are a Couple Made in Heaven

M H Freeman

IRG/WP 13-40640

Visualization of Copper in the Voids and Cell Walls of Treated Wood using X-Ray Micro-Computed Tomography

P D Evans, A Limaye, H Averdunk, M Turner, T J Senden

MONDAY 17 June

Room E1

14.00-15.30

WP 2.2 Microbial Test Methodology

Conveners: Annica Pilgård and Eric Gelhaye

IRG/WP 13-20506

Update on "Sandwich" Type Above Ground Field Test Methods

A Zahora, L Jin, A Preston

IRG/WP 13-20520

Accelerated H3 above-ground decay testing

L J Cookson, D Page, T Singh

IRG/WP 13-20511

Determination of the natural durability of solid wood against wood-destroying fungi – a European round-robin test

C Brischke, C R Welzbacher, A Gellerich, S Bollmus, M Humar, K Plaschkies, W Scheiding, G Alfredsen, J Van Acker, I De Windt

IRG/WP 13-20519

Image analysis for mould and sapstain detection on wood

C A Clausen, V W Yang

IRG/WP 13-20510

Quasi-in-situ durability tests on oak timber bridges

C Brischke, C J Behnen, M-T Lenz, K Brandt, E Melcher

Room F2

WP 4.3 Wood Composites, WPCs and Engineered Wood Products

Convener: Mark Manning

IRG/WP 13-40627

Resistance of WPC against wood destroying fungi

A Gellerich, S Bollmus, A Krause

IRG/WP 13-40648

Moisture and Fungal Durability of Wood-Plastic Composites Made With Chemically Modified and Treated Wood Flour

B K Segerholm, R E Ibach

IRG/WP 13-40620

Curing kinetics of nano cupric oxide (CuO) modified PF resin as wood adhesive: Effect of surfactant

Wei Gao, Guanben Du

IRG/WP 13-40645

Study on Fire Resistance of Lightweight Panels Made of Honeycomb and Polyurethane Cores

A Talaei, M Ghofrani, S Pishan

IRG/WP 13-20534

Moisture distribution in glulam beams with natural cracks observed with CT Scanning before and after rain

K Sandberg

IRG/WP 13-40646

COST Action FP0904 – Increasing the Understanding of Thermo-Hydro-Mechanical Wood Behaviour and Processing

D Jones, P Navi

MONDAY 17 June

Room E1

16.00-18.00

WP 2.2 Microbial Test Methodology, cont'd

Conveners: Annica Pilgård and Eric Gelhaye

IRG/WP 13-10805

The chemistry of wood degradation by Basidiomycetes studied in a van Krevelen diagram

W Willems, H Militz

IRG/WP 13-20521

Visual Inspection – How Important is the Influence of the Evaluator?

M Klamer, P Larsson Brelid, I Stephan

IRG/WP 13-20524

Virulence of two Laboratory Test Strains and one Natural Isolate of *Rhodonía (Oligoporus) placenta* against Thermally Modified Pine and Beech Wood

K Plaschkies, W Scheiding, K Jacobs, N Rangno

IRG/WP 13-20531

Development of a rapid method to assess the rate of fungal colonization of wood

L Wadsö

IRG/WP 13-20522

Relevance of natural pre-weathering for laboratory decay tests with native, modified, and preservative treated wood

A Pilgård, C Brischke, L Meyer

IRG/WP 13-40639

Comparison of moisture loss and its increment during the rehearsal process based on natural drying and water soaking application with or without sealing the trial discs of Common black poplar (*Populus nigra* L.)

I Usta

Room F2

WP 4.5 Coatings, hydrophobic treatments and surface aspects

Convener: Laurence Podgorski

IRG/WP 13-40631

Evaluation of Barrier Wrap Systems after 71 Months of Exposure

H M Barnes, M G Sanders, G B Lindsey, C McIntyre

IRG/WP 13-40649

Effect of bio-resin from cashew nut shell liquid (CNSL) on decay resistance properties of wood

M Ashaduzzaman, M D Hale, V Tverezovskiy, G A Ormondroyd

IRG/WP 13-40632

Field performance of wood impregnated with siloxanes using supercritical carbon dioxide

A Kjellow, F Imsgard, J Fernandes, R Wagner, J Delis

IRG/WP 13-40634

Protective effectiveness of antifouling coatings for wooden boats in the Northern Adriatic Sea

M Petrič, M Humar, J Adamek, B Kričej

IRG/WP 13-40638

Performance of Coatings on Wood Treated with Carbon-Based Preservatives

R Stirling, P I Morris

IRG/WP 13-40641

Influence of coatings on water uptake of wood surfaces before and after natural and artificial weathering

L Podgorski, S Collignan, J-D Lanvin

TUESDAY 18 June

Room E1

08.30-10.30

WP 2.3 Chemical/Physical Analysis

Convener: Lehong Jin

IRG/WP 13-20507

NIR spectroscopy for rapid determination of permethrin or bifenthrin retention in *P. radiata* sapwood

R Meder, N Ebdon

IRG/WP 13-20526

The activity of a wood-decaying fungus during drying and rewetting cycles measured by isothermal calorimetry

S Johansson, L Wadsö, A Pilgård, G Alfredsen

IRG/WP 13-20527

Cell wall properties of softwood deteriorated by fungi: combined chemical analyses, FT-IR spectroscopy, nanoindentation and micromechanical modelling

L Wagner, T K Bader, K de Borst, T Ters, K Fackler

IRG/WP 13-20516

Developing Analytical Methods for Determination of Quaternary Ammonium Compounds (DDAC) using HPLC and HPLC-MS (Application to treating solution and preservatives treated wood)

Sung-Mo Kang, Kwon-Min Kim, Won-Mo Koo, Myeong-Won Cho

IRG/WP 13-30634

CT scanning of decay in creosoted poles for overhead lines

C-J Johansson, A Clang, I Johansson, G Berggren

Room F2

WP 2.1 Service Life Prediction

Convener: Christian Brischke

IRG/WP 13-20509

A critical view on early indicators for above ground field performance of wood

C Brischke, L Meyer, G Alfredsen, P-O Flæte, L Francis, M Hansson, P Larsson Brelid, J Jermer, C R Welzbacher, A O Rapp, K Brandt, E Melcher

IRG/WP 13-20504

Statistical analysis of durability tests - Part 1: Principles of distribution fitting and application on laboratory tests

I De Windt, J Van den Bulcke, C Brischke, C R Welzbacher, A Gellerich, S Bollmus, M Humar, K Plaschkies, W Scheiding, G Alfredsen, J Van Acker

IRG/WP 13-20512

Statistical analysis of durability tests - Part 2: Principles of time-to-failure and application on field test data

J Van den Bulcke, I De Windt, C Brischke, C R Welzbacher, A O Rapp, J Van Acker

IRG/WP 13-20513

Changes of fungicidal, mechanical and sorption properties of wood during above ground outdoor exposure

N Thaler, M Humar

IRG/WP 13-20517

Testing the performance of timber using 27 different field test methods

L Meyer, C Brischke, J Rieken

IRG/WP 13-20518

Climatic impacts on the moisture performance of wooden decking and facades

T Bornemann, C Brischke, G Alfredsen

TUESDAY 18 June

Room E1

11.00-12.30

WP 3.2 New Wood Protecting Chemicals

Conveners: Holger Militz and Thomas Bornemann

IRG/WP 13-30614

Preliminary testing of spiroborate esters as wood preservatives

D Panov, N Terziev

IRG/WP 13-30617

Copper Coating on Wood: a New Way of Protecting Wood

M Nejad, R Shafaghi, L Pershin, J Mostaghimi, P Cooper

IRG/WP 13-30618

The effects of impregnation with secondary metabolite extracted from lpe on durability of Japanese cedar and beech wood

T Iida, R Konuma, K Kawarada

IRG/WP 13-30619

Preparation of Copper Rosinate Emulsion and Its Resistance against Wood Decay Fungi

Mingxin Zhang, Shujun Li, Qian Wang, Bo Li, Qiong Wu

Room F2

WP 2.1 Service Life Prediction, cont'd

Convener: Christian Brischke

IRG/WP 13-20530

Method for determining the critical moisture level for mould growth on building materials

A Ekstrand-Tobin, P Johansson, G Bok

IRG/WP 13-20529

Modelling the risk for mould growth on timber stored outdoors protected from rain

E Frühwald Hansson, S Bardage, S Thelandersson

IRG/WP 13-20536

Estimation of service life of treated wood in ground contact based on early indicators

M Hansson, J Jermer, P Larsson Breid, N Terziev

IRG/WP 13-20505

The influence of microclimate on the moisture conditions in a Norway spruce (*Picea abies* (L.) Karst.) joint exposed to artificial rain

M Fredriksson, L Wadsö, P Johansson

IRG/WP 13-20537

Performance standards for wood in construction – delivering customer service life requirements

E Suttie, C Brischke, F Englund, E Heisel, J Jermer, D Lorenzo, M Polášek, S Thelandersson, J Van Acker

TUESDAY 18 June

Room E1

14.00-15.30

WP 3.2 New Wood Protecting Chemicals, cont'd

Conveners: Holger Militz and Thomas Bornemann

IRG/WP 13-30620

Effect of Nano and Micronized Particles as Wood Preservatives for Termite Control

M Akhtari, D Nicholas, A Rowlen, M Arefkhani

IRG/WP 13-30626

Influence of selected additives on organic fungicides for control of bamboo mold fungi

Sun Fangli, B Goodell, Chen Anliang, Bao Binfu, Zhang Shaoyong

IRG/WP 13-30631

Bioactivity of Eucalyptus camaldulensis essential oil against Microcerotermes diversus (Isoptera: Termitidae)

B Habibpour, E Shafiei Alavijeh, A Rasekh

Room F2

WP 4.2 Chemical Wood Modification

Convener: Erik Larnøy

IRG/WP 13-40621

The resistance of high performance acetylated wood to attack by wood-destroying fungi and termites

J Alexander, J Hague, M Roberts, Y Imamura, F Bongers, E Suttie

IRG/WP 13-40633

Characterization of wood modification prepared by in situ polymerization with pre-polymer and the mechanism of modification

Qiang Lang, Zeng Bi, Junwen Pu

IRG/WP 13-40629

Study of UV resistance and natural weathering of coatings on chemically modified wood

K K Pandey, K Srinivas

IRG/WP 13-40650

Bio-based thermoset resins for bonding and eco-friendly preservation in the wood industry

C Motillon, A Allal, F Charrier, B Charrier

IRG/WP 13-30613

Performance testing of DMDHEU-modified wood in Australia

H Militz, J Norton

TUESDAY 18 June

Room E1

Room F2

16.00-18.00

WP 1.5 Insect Biology and Testing

WP 1.7 Natural Durability

Conveners: Magdalena Kutnik/Grant Kirker and Nadine Amusant

WP 4.6 Thermal Wood Modification

Convener: Philippe Gérardin

IRG/WP 13-10803

Use of Acoustic Emission (AE) to detect activity of common European dry-woodboring insects: some practical considerations

J G M Creemers

IRG/WP 13-10804

Bioavailability of Bifenthrin and Fipronil against subterranean termites (*Isoptera: Rhinotermitidae*) in various soils

F Manzoor, P Mahnoor, B M Ahmed (Shiday)

IRG/WP 13-10802

Survival of *Bursaphelenchus xylophilus* exposed to different active ingredients of wood protectors

S C Arcos, M T Troya, L Robertson, F Llinares, M Conde, A Navas

IRG/WP 13-10808

Transferable Durability

G T Kirker, A B Blodgett, S Lebow, C A Clausen

IRG/WP 13-10809

Grading UK Grown Larch for Durability

D Jones, I Davies, P Sharphouse, E Suttie

IRG/WP 13-10812

Resistance of Consolidated Deteriorated Wood to Wood Decay Fungi

F Pohleven, A Valantič, M Petrič

IRG/WP 13-10793

Tree crown architecture: a tool for decay resistance evaluation

N Amusant, J-B Anouhé Say, A Amissa, J Beauchène, F Niamké, E Nicolinni

IRG/WP 13-40622

Application of a model for the prediction of fungal degradation of thermally modified timber by *Trametes versicolor*

L Clauder, S Richter, W Unger, A Pfriem

IRG/WP 13-40624

Decay resistance of thermally modified Scots pine after 6 years' exposure above ground

H Viitanen, S Metsä-Kortelainen, A Nurmi, S Jämsä

IRG/WP 13-40625

Effect of the nature of the inert atmosphere used during thermal treatment on chemical composition, decay durability and mechanical properties of wood

K Candelier, S Dumarçay, A Pétrissans, M Pétrissans P Gérardin

IRG/WP 13-40628

Utilization of TG-DSC to study thermal degradation of beech and silver fir

K Candelier, A Treu, J Dibdiakova, E Larnøy, A Petrissans, S Dumarçay, M Pétrissans, P Gérardin

IRG/WP 13-40637

Combined effects of thermal modification and ACQ-D impregnation on properties of southern yellow pine wood

Wang Wang, Yuan Zhu, Jinzhen Cao

IRG/WP 13-40643

Influence of Heat Treatment Medium on Fungal Resistance of Beech Wood

A Talaei, A Karimi, M-F Thévenon

IRG/WP 13-40644

Investigation of Nanocopper-Hygrothermally Treated Wood Properties

G Rassam, B Jamnani, A Faraji Heris

TUESDAY 18 June

Atrium E

18.00-19.00

Poster session

Convener: Jeff Lloyd

IRG/WP 13-10810

A case study of investigating fungi that affect traditional Japanese shake roof with/without copper plates

T Wada, Y Fujiwara, Y Fujii, R Kigawa

IRG/WP 13-20532

Surface energy characterization of thermally modified wood using inverse gas chromatography

S Källbom, K Segerholm, D Jones, M Wålinder

IRG/WP 13-30629

Potential valorization of wood extractives from waste products of steam distillation of *Aniba rosaeodora*: antitermitic activity

N Amusant, A Digeon

IRG/WP 13-30635

Effect of Nano-silver and Nano-copper and Nano-zinc oxide on Paulownia wood exposed to white-rot fungus

M Akhtari, M Ganjipour

IRG/WP 13-40642

Effect of electron beam irradiation on the fire retardant penetration into wood

Dong won Son, Jong Sin Lee, Mee Ran Kang, Sang Bum Park

Effect of Wood Surface Treatment on Fungal Decay and Termite Resistance

Xingxia Ma, Mingliang Jiang, Yuzhang Wu, Ping Wang

Development of innovative non-biocidal treatments for the protection of wood against biotic and abiotic risks for outdoor use

F Lhumeau, C Delaite, M Kutnik, F Simon

MCQ-induced and repressed gene expression in the brown rot fungus *Fibroporia radiculosa*

J D Tang, E P Meadows, L A Parker, D D Nicholas, S V Diehl

Investigation of epoxy functionalized vegetable oil and lignin model substance interactions

S Olsson, M Johansson, M Westin, S Trey, E Östmark

Control of fungal growth on wood coating with sustainable non-synthetic antimicrobial agents

F Lyduch, J Stenbæk, B Jensen

The role of Hydrophobins in surface growth of Blue Stain fungi

J Stenbæk, F Lyduch, B Jensen

Fungal durability of polyaniline modified wood and the impact of a low pulsed electric field

S Trey, A Treu, S Bardage, M Johansson

Fast pyrolysis of ACQ treated wood: Influence of operation parameters on the bio-oil yield and distribution of copper during fast pyrolysis

Won-Mo Koo, Kwon-Min Kim, Sung-Mo Kang

Causative agents of timber bio deterioration in service and its relationship to environmental factors in Uruguay

C Ibáñez, C Mantero, A García, A Ibarra, G Cecchetto, J Franco

Effects of wollastonite nanofibers on mass loss of poplar wood against *Trametes versicolor*

A Karimi, H R Taghiyari, A Fattahi, S Karimi, A Tarmian, P M Tahir

EcoBuild – a competence Centre for eco-efficient and durable wood-based materials and products

M Henriksson, J Aspling, E Östmark

Stability of several DCOIT microemulsion systems and their effectiveness against mold fungi

Yuan ZHU, Jinzhen CAO

Impregnation and distribution studies of model nanoparticles in wood

C Geers, D Vanhecke, B Grobety, B Rothen-Rutishauser, T Volkmer, A Fink

WEDNESDAY 19 June

Room E1

08.30-10.30

WP 2.2 Special Session “Advances in Molecular Techniques”

Conveners: Annica Pilgård and Eric Gelhaye

IRG/WP 13-20528

What molecular biology can tell us about the biodegradation of lignocellulose: the utilization of molecular techniques for the detection, identification and enhanced understanding of wood degrading organisms

J Jellison, B Goodell, G Alfredsen, D Eastwood, G Daniel, S M Cragg, J K Grace

IRG/WP 13-10800

High-throughput sequencing highlighted contrasted pioneer fungal communities associated to coniferous and deciduous wood preservation assays

Y Mathieu, A Dassé, I Le Bayon, M Kutnik, L Harvengt, E Gelhaye, M Buée

IRG/WP 13-40626

Postia placenta cellulase gene expression in modified wood during incipient decay

R Ringman, A Pilgård, K Richter

IRG/WP 13-20533

Fungal laccases as a tool for wood functionalization

M Schubert

IRG/WP 13-20508

Characterization of test fields

U Råberg, N Terziev, G Daniel

IRG/WP 13-20523

Extraction and analysis of DNA from green and seasoned timber as basic methods for determination of wood species and origin

K Jacobs, H Mende, W Scheiding

Room F2

WP 4.4 Treating Processes and Treatability of Timber

Convener: Hiroshi Matsunaga

IRG/WP 13-40619

A Vision of the Chilean Treated Wood Industry

F J Latorre, T A Hanke

IRG/WP 13-40618

Investigations concerning liquid absorption of six heartwood species

E Melcher, J Zwiefelhofer

IRG/WP 13-30611

Methylene Chloride compared with white spirit as a treatment solvent for wood preservation – results from decay and termite studies

A Siraa, P Lobb, C Molloy

IRG/WP 13-40623

Hygroscopicity of wood after polyethylene glycol (PEG) impregnation and/or heat treatment

Weiyue Xu Yuan Zhu, Jinzhen Cao

IRG/WP 13-40636

Preparation and characterization of activated carbon fibers prepared from liquefied wood

Wenjing Liu, Guangjie Zhao

WEDNESDAY 19 June

Room E1

11.00-12.30

WP 3.4 Performance – Field tests

Convener: Thomas Mark Venaas

IRG/WP 13-30624

40 year results from the largest preservative in-ground stake trial conducted in Australia

L J Cookson

IRG/WP 13-30633

Durability of alternatives to CCA-treated wood - Results from field tests after 11 years exposure

P Larsson Brelid, M-L Edlund

IRG/WP 13-30623

Performance of untreated wood and wood impregnated with copper-ethanolamine based preservative solutions in Northern Adriatic Sea

M Humar, M Petrič, J Adamek, B Lesar

IRG/WP 13-30612

System treatments of *Pinus sylvestris* - influence on moisture, decay and discoloration

A Schabacker, G Alfredsen, L Ross Gobakken, H Militz, P O Flæte

IRG/WP 13-30615

The Effect of Water Repellent on Semi-Field Leaching of Active Substances from Metal Free Wood Preservative Formulation

D G Cantrell

IRG/WP 13-30610

Pre-treatment decay and strength loss of railroad ties, and their prevention

A M Taylor, B Jordan, J D Lloyd

Room F2

Section 5 Environment and Sustainability

Conveners: Ed Suttie and Adam Taylor

IRG/WP 13-30621

Copper leaching from copper-ethanolamine treated wood during exposure to terrestrial microorganisms

M Humar, N Thaler, B Lesar

IRG/WP 13-50291

Quantification of copper and chromium in field stakes after different exposure times: Remaining metal content and distribution

T Liese, M Bahmani, E Melcher

IRG/WP 13-50292

Bibliographical study: Decontamination of wood and soils polluted by pesticides used in wood preservation: focus on Bioremediation methods using microbes

A Zaremski, L Gastonguay, C Zaremski, S Morel, J Beauchene

IRG/WP 13-50293

Leaching Potential of selected Mississippi Soils Contaminated with Pentachlorophenol (PCP) and Chromated Copper Arsenic (CCA)

K Ragon, H Borazjani, S Keshani Langroodi, S Diehl

IRG/WP 13-50294

Removal of nano- and micronized-copper from treated wood by chelating agents

S N Kartal, E Terzi, B Woodward, C A Clausen, S T Lebow

Introduction to tabled papers IRG/WP 13-50295-99

THURSDAY 20 June

Room E1

08.30-10.30

WP 1.3/WP 1.2 Soft rot and Bacteria/Bluestain and Moulds

Convener: Miha Humar

IRG/WP 13-10801

An assessment of soft rot in preservative-treated poles in two test sites and two network areas in New South Wales

W D Gardner, M A Powell, C Kirton

IRG/WP 13-10794

Activities of moulds on wood as a function of relative humidity during desorption and absorption processes

Yujing Li, L Wadsö

IRG/WP 13-10795

Influence of a pulsed electric field on the growth of surface fungi

M Starck, A Treu

IRG/WP 13-10796

Detection of *Aureobasidium* as the dominant fungus on coated wood

E J Van Nieuwenhuijzen, M F Sailer, R A Samson, O C G Adan

IRG/WP 13-10797

Surface moulds and staining fungi on acetylated wood – effect of increasing acetyl content

L Ross Gobakken, S Bardage, C J Long II

IRG/WP 13-10799

Communities of mold fungi on flooded building materials

F Skrobot III, H Aglan, S V Diehl

IRG/WP 13-10806

Inhibitory extractives or nutrients? Mould growth on coated heartwood and sapwood of *Pinus sylvestris* and *Gleditsia triacanthos*

D Lukowsky, N Buddruhs

IRG/WP 13-10798

Preliminary evaluation of degradation patterns in wood samples from the Yenikapı shipwrecks

C Köse, A M Taylor

Room F2

WP 3.3 Performance – lab tests

Convener: Teresa de Troya

IRG/WP 13-20535

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, B Mazela, E Melcher, R Möller, L Nunes, S Palanti, L Reinprecht, E Suttie, H Viitanen

IRG/WP 13-30609

Micronized Copper Wood Preservatives: Strong Indications of the Reservoir Effect

M H Freeman, C R McIntyre

IRG/WP 13-30616

Effect of soil contact on reacted copper(II) levels in micronized copper treated wood

Wei Xue, P Kennepohl, Xingguo Jin, J N R Ruddick

IRG/WP 13-30625

Effect of biodiesel on Performance of Isothiazolone

Cheng Hua-Kang, L Jin, C Freitag, J J Morrell

IRG/WP 13-30632

Critical moisture levels and mould resistance of five different wood treatments

G Bok, P Johansson, A Ekstrand-Tobin, S Bardage

IRG/WP 13-30630

State of progress of utilisation of supramolecular gels for formulations of water-soluble wood preservation salts

F Obounou Akong, P Gérardin, M-F Thévenon, C Gérardin-Charbonnier

IRG/WP 13-10807

Product efficacy against *Fusarium circinatum*, a quarantine organism in Europe

M T Troya, R Raposo, F Llinares, M Conde

IRG/WP 13-30628

Performance of biocide-free preservative-protective systems modified with organosilicon compounds

B Mazela, P Hochmańska, T Krystofiak

THURSDAY 20 June

Room E1

11.00-12.30

Scientific Plenary Session

Convener: Jeff Lloyd Co-conveners: Lina Nunes, Gry Alfredsen, Thomas Mark Venaas, S Nami Kartal, E Suttie

IRGWP - Durability Database: demonstration and update

C Brischke

IRG/WP 13-20525

Predicting the Rate of Decay, and the Potential for Misinterpretation of Proper Scientific Method

B S Goodell, J J Morrell

14.00-15.30

Plenary session, cont'd from Monday 17 June

President: Jack Norton

Vice-President: Jeff Lloyd

Secretary-General: Jöran Jermer

8. Approval of membership fees for 2014
9. Approval of the budgets for 2013 (forecast June 2013) and 2014 (IRG/WP 13-60345 and IRG/WP 13-60346)
10. Election of new officers
 - Vice President
 - Executive Council
 - Scientific Programme Committee, Section 4 and Section 5
 - Information on EC appointments to other committees
11. Appointment of auditors
12. Future venues
 - IRG 45: 11-15 May 2014 St George, Utah, USA
 - IRG 46
13. Any other business
14. Closure of the meeting

Tabled papers

Section 2 Test methodology and assessment

IRG/WP 13-20514

The assessment by visual grading, change of color and ergosterol content ratings, the resistance to mould fungi of treated with wood preservative Scots pine sapwood

A Fojutowski, A Koziróg, A Kropacz

Section 3 Wood protecting chemicals

IRG/WP 13-30627

Antifungal properties and bonding of menthoxymethylimidazolium ionic liquids with Scots pine wood

J Zabielska-Matejuk, J Feder-Kubis, A Stangierska

Section 4 Processes and properties

IRG/WP 13-40630

Wood Preservation India; Current Scenario

S Kumar

IRG/WP 13-40647

Glue-bond strength of simul (*Bombax ceiba*) plywood made of Neem (*Azadiracta indica*) leaves treated veneers

K Akhter, M A Hashem, S Akhter

Section 5 Sustainability and environment

IRG/WP 13-50295

Conclusions and Summary Report on an Environmental Life Cycle Assessment of ACQ-Treated Lumber Decking with Comparisons to Wood Plastic Composite Decking

AquAeTer, Inc.

IRG/WP 13-50296

Conclusions and Summary Report on an Environmental Life Cycle Assessment of Borate-Treated Lumber Structural Framing with Comparisons to Galvanized Steel Framing

AquAeTer, Inc.

IRG/WP 13-50297

Conclusions and Summary Report Environmental Life Cycle Assessment of Highway Guard Rail Posts

AquAeTer, Inc.

IRG/WP 13-50298

Conclusions and Summary Report Environmental Life Cycle Assessment of Marine Pilings

AquAeTer, Inc.

IRG/WP 13-50299

Conclusions and Summary Report on an Environmental Life Cycle Assessment of Utility Poles

AquAeTer, Inc.