Update: 2 May 2011

THE INTERNATIONAL RESEARCH GROUP ON WOOD PROTECTION

The 42nd Annual Meeting of IRG

Programme

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

MONDAY 9 MAY

Coronet/Remarkables rooms

08.30-09.30

Opening of the 42nd Annual Meeting and Plenary session

President: Dr Mr Jack Norton Vice-President: Dr Jeff Lloyd Secretary-General: Mr Jöran Jermer

Opening of the IRG 42nd Annual Meeting

Opening addresses by Mr Jack Norton, President of the IRG, and Dr Max Kennedy, New Zealand Ministry of Science & Innovation

Plenary

- 1. Opening of the meeting
- 2. Approval of the agenda (IRG/WP 11-60303)
- 3. Membership issues
 - -Moment of silence for passed away members
 - -Awarding Honorary Life-Long Membership
 - -Ratification of the election of new members since last year's Plenary
- 4. Announcement of the year 2011 Ron Cockcroft Award recipients
- 5. Approval of the Annual Report 2010 and Auditors' report (IRG/WP 11-60302)
- 6. Granting discharge for the Executive Council and Secretary-General from the administration and accountancy for 2010
- 7. IRG Strategic Statement and Framework Progress report

MONDAY 9 MAY

Coronet/Remarkables rooms

09.30-10.30

Keynote Session

Chairman: Dr Jeff Lloyd

Timber framing – the full circle

Murray G Sturgeon, Managing Director, Nelson Pine Industries

IRG/WP 11-50282

Life Cycle Assessment Comparison of Treated Wood to Alternate Materials - Overview, Results and Lessons

T Stephen, P E Smith, C R McIntyre

11.00-12.30

Scientific Main Session

Chairman: Dr Jeff Lloyd Co-chairs: Dr Laurie Cookson, Dr Michael Kennedy, Dr Radu Craciun, Dr Christian Welzbacher

Announcements concerning the IRG 42 Scientific Programme

J Lloyd & Section leaders (co-chairs)

IRG/WP 11-10748

Gene expression analysis of a copper-tolerant brown rot fungus on MCQ-treated wood

J D Tang, A Perkins, S V Diehl

IRG/WP 11-20463

Decay hazard mapping for Europe

C Brischke, E Frühwald Hansson, D Kavurmaci, S Thelandersson

IRG/WP 11-30566

Copper Nanoparticles in Southern Pine Wood Treated with a Micronised Preservative: Nanodistribution of Copper in the Pit Membrane and Border of an Earlywood Bordered Pit

H Matsunaga, Y Kataoka, M Kiguchi, P Evans

IRG/WP 11-40541

The Effectiveness of Machined Profiles at Reducing the Checking of Wooden Decking

P Evans, I Cullis, P Morris

Coronet/Remarkables rooms	Queenstown room
13.30-15.00	
WP 3.4 Performance – field tests	WP 4.2 Chemical wood modification
Chair: Dr Thomas Mark Venaas	Chair: Dr Erik Larnøy and Dr Tripti Singh
IRG/WP 11-30564 Standardized Field Trials with Micronized Copper C R McIntyre, M H Freeman IRG/WP 11-30565 Comparison of rates of wood decay from four different field test protocols following 4-5 years exposure at a site in New Zealand P Lobb, K Day, A Siraa	IRG/WP 11-40543 Acetylation Properties of Southern Pine and Radiata Pine J Allen, T Guinn, J Dickerson IRG/WP 11-40562 Durability of modified wood in UC3 and UC4. Results from lab tests and 5 years testing in 3 fields M Westin, G Alfredsen
IRG/WP 11-20473 Above ground testing at tropical test sites, what have we learned? A Preston, A Zahora, Y Cabrera, L Jin, C Schauwecker, P Walcheski IRG/WP 11-30580 Performance of Creosote/Chlorothalonil Preservatives H M Barnes, M G Sanders, G B Lindsey, T L Amburgey IRG/WP 11-30555 LOSP for glulam, when should the treatment be applied? L J Cookson	The durability of acetylated radiata pine sapwood (Accoya). Results from five years testing M Hedley, D Page, J van der Waals, K Nasheri, G Durbin

Queenstown room WP 3.2 New wood protecting chemicals Chair: Dr Xiao Jiang IRG/WP 11-30578 The potential of silicone-based formulations to enhance wood properties through industrial treatment for outdoor use
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F Simon, F Marchal, F Pochon, M Kutnik, I Le Bayon IRG/WP 11-30562 Characterisation and evaluation of various chitosan oligomers, and decay resistance I Hussain, C Chittenden, T Singh IRG/WP 11-30575 The potential of propolis and other naturally occurring products for preventing biological decay D Jones, N Howard, E Suttie IRG/WP 11-10749 Isolation and evaluation of Lactobacillus brevis from chilli waste for potential use as a wood preservative D O'Callahan, T Singh, I R McDonald IRG/WP 11-30561 Novel Approaches to the Development and Testing of Anti After-glow Additives for CCA-based Treatments of Poles L Jin, P Walcheski, A Preston IRG/WP 11-30556 Influence of wood swelling agents on penetration and copper leaching of copper-ethanolamine based wood preservatives M Humar, N Thaler, B Lesar

Coronet/Remarkables rooms	Queenstown room
08.30-10.30	
WP 1.1 Physiology of decay & WP 1.3 Bluestain and Moulds	WP 4.3 Wood composites and WPC
Chairs: Dr Tripti Singh and Dr Miha Humar	Chair: Mr Paul Merrick
IRG/WP 11-10750 Basidiomycete colonization of Scots pine sapwood quantified by qPCR and TGA G Alfredsen, S Bollmus, T K Bader, K Hofstetter IRG/WP 11-10751 The effects of acetylation level on the growth of Postia placenta A Pilgård, G Alfredsen, C G Fossdal, C J Long II IRG/WP 11-10753 Measuring fungal cellulolytic enzyme activity in degrading wood S M Duncan, J S Schilling IRG/WP 11-10756 Molecular investigation of Postia placenta growing in modified wood B Schmöllerl, G Alfredsen, C G Fossdal, M Westin, A Steitz IRG/WP 11-10759 The influence of moisture content and wood pH variation on fungal melanin formation in wood substrates D Tudor, S C Robinson, P A Cooper IRG/WP 11-10754 Quantification of four dark colored mould fungi by real time PCR E Larnøy, L Ross Gobakken, A M Hietala	IRG/WP 11-40542 Biological and mechanical performances of particleboard panels made from maritime pine (<i>Pinus pinaster</i>) and glued with cornstarchmimosa tannin-urea formaldehyde adhesive A Moubarik, F Charrier, A Pizzi, A Allal, B Charrier IRG/WP 11-40551 Physical properties of <i>Pinus radiata</i> veneers modified with hexamethoxymethyl melamine prepolymers C Molloy, W Rae, S Connor, T Henderson, A Siraa IRG/WP 11-40552 Biological properties of <i>Pinus radiata</i> veneers modified with hexamethoxymethyl melamine prepolymers A Siraa, S Millward, C Molloy IRG/WP 11-40548 Study of the durability of the Maderon® against wood decay fungi and insects M T Troya, F Llinares, P Jiménez, J I Fernández-Golfín, M Conde, R Díaz IRG/WP 11-40553 Decay resistance of a commercial pistachio twig-plastic composite M R M Farahani, M Safarzadeh

Coronet/Remarkables rooms	Queenstown room
11.00-12.30	
WP 1.5/2.5 Termites	WP 4.5 Coatings, hydrophobic treatments and surface aspects
Chairs Dr Magdalena Kutnik and Dr Berhan Ahmed	Chair: Dr Phil Evans
IRG/WP 11-10745 Termite Resistance of Different Wood Panels Treated with Bifex® under Laboratory and Field Trials F Manzoor, S A Malik, B M Ahmed Shiday, A Liaquat, N Naz IRG/WP 11-30570 Termite resistance of timber envelope treated with imidacloprid then modified by typical building site operations K Day, A Siraa, P Lobb IRG/WP 11-30573 The case for using borates in termite control in tropical Australia B M Ahmed (Shiday), J R J French IRG/WP 11-30557 Ten Year Field Tests of Borate-Treated Wood Against Subterranean Termites P I Morris, J K Grace, K Tsunoda	IRG/WP 11-40569 Wet and dry adhesion of coatings on modified and unmodified wood: influence of 18 months of natural weathering on the pulloff test and cross-cut test results L Podgorski, G Grüll, M Truskaller, J D Lanvin, S Bollmus IRG/WP 11-20470 Aesthetic service life of coated and uncoated wooden cladding - influencing factors and modelling L Ross Gobakken, O A Høibø IRG/WP 11-40561 Moisture protection and performance during 5 years exposure of 19 wood coating systems on a cladding in Vienna G Grüll, I Spitaler, M Truskaller

Coronet/Remarkable room	Queenstown room
13.30-15.00	
Special session Borates	WP 2.3 Chemical/Physical analysis
Chair: Dr Mark Manning and Dr Radu Craciun	Chairs: Dr Lehong Jin and Dr Ed Suttie
IRG/WP 11-20476 A Method for Studying Boron Redistribution and Leaching in Timber Framing J A Drysdale, N Marston, M E Hedley IRG/WP 11-30563 Fixed Borates Anyone? C R McIntyre, M A Lake IRG/WP 11-30577 Design, synthesis, characterisation and effectiveness of 'Locked-in-Boron' chemicals for H3.2 level of wood protection R Franich, H Kroese, S Gallagher, S Hill, B Kelly, G Billett, R Meder, W Rae	IRG/WP 11-20475 A comparative study and evaluation of methodologies used for determining wood preservative penetration R Craciun, R Moeller, J Wittenzellner, T Jakob, J Habicht IRG/WP 11-20461 Comparative investigations between thermal and microwave assisted digestion as a novel tool for the chemical analysis of inorganic wood preservative components H Ahl, J Fromm, E Melcher IRG/WP 11-40549 Further Studies on the Distribution of Copper in Treated Wood Using an XRF Microscope Technique A Zahora IRG/WP 11-40550 Quantification of mobile copper (II) levels in micronized copper treated wood Wei Xue, P Kennepohl J N R Ruddick

Coronet/Remarkables rooms	Queenstown room
15.30-17.30	
Special session Borates, cont'd	WP 1.7 Natural durability WP 1.8 Cultural artefact protection
Chair: Dr Mark Manning and Dr Radu Craciun	Chairs: Dr Andrew H H Wong, Prof Dr Wibke Unger
IRG/WP 11-40556 Ambient-temperature borate dip-diffusion treatment of green railroad crossties Jae-Woo Kim, A M Taylor, C Köse	IRG/WP 11-10747 Natural durability of wood tested in different environments in Northern Europe P O Flæte, G Alfredsen, F G Evans
IRG/WP 11-40571 Performance of Zinc Borate-Treated Oriented Structural Straw Board against Mold Fungi, Decay Fungi and Termites—A Preliminary Trial Guangping Han, M Manning, Wanli Cheng, E Pierre, W Wasylciw	IRG/WP 11-20472 Performances of Douglas fir in real outdoor use conditions M Kutnik, S Lepetit, S Le Nevé IRG/WP 11-10761
IRG/WP 11-30571 Protective Levels of Borates in timber Foundation Piles 5 – 18 Years after In-situ Remedial Treatment in Areas with Wet Clay Ground Conditions. The Jerbor and Eurobor Protocol, Part 1 M Theorin, K-M Bandh IRG/WP 11-30574	Durability testing of coconut shell according to ENV 807 J Jermer, A H H Wong, K Segerholm, T Nilsson IRG/WP 11-10757 The decontamination of a historical xylotheque with liquid carbon dioxide S Zoppke, A Unger, J Mankiewicz, M Eisbein
Effectiveness of Water Based Bentonite-Borate Slurry for In-situ Remedial Protection of Historic Wooden Piles, The Eurobor Protocol, Part 2 M Theorin, K Fimmerstad, K M Bandh	IRG/WP 11-10760 Cobblestone church in Gross Gievietz : Historic Wooden Construction and Potential for Conservation and Use A Schulze, W Unger

WEDNESDAY 11 MAY	
Coronet/Remararkables rooms	Queenstown room
08.30-10.30	
Special session Phytosanitation and wood packaging	WP 4.4 Treating processes and treatability of timber
Chair: Prof Dr D Pascal Kamdem	Chair: Dr Hiroshi Matsunaga
IRG/WP 11-30568 ISPM No. 15 and the Incidence of Wood Pests: Recent Findings, Policy Changes, and Current Knowledge Gaps R A Haack, E G Brockerhoff	IRG/WP 11-40547 Adsorption boundary curve influenced by step interval of relative humidity investigated by Dynamic Vapour Sorption equipment E Tang Engelund, M Klamer, T Mark Venås
IRG/WP 11-40545 A Critical Review and Survey of the US Wooden Pallet Industry: Focusing on Market Segmentation & N. American Trends M H Freeman	IRG/WP 11-20477 A new model for wetting and drying of wood end-grain – with implications for durability and service-life L-O Nilsson, K Sandberg
IRG/WP 11-30558 Phytosanitary standards and the potential for acceptance of chemical treatments as a phytosanitary measure A Uzunovic, R Stirling, J J Morrell, P I Morris, C F Schauwecker	IRG/WP 11-40563 Treatability variation of Scots pine heartwood from Northern Europe G Behr, E Larnøy, C-T Bues
IRG/WP 11-10755 Wood protectors sensitivity of <i>Fusarium circinatum</i> , a quarantine organism in Europe Y Serrano, S Cobacho, A Navas, M Conde, R Raposo, M T Troya	IRG/WP 11-40554 Evaluation of an optimized industrial process aiming to improve the natural durability and mechanical behavior of bamboo for outdoor use F Simon, M Kutnik, I Le Bayon, G Moisset, V Gatimel IRG/WP 11-40555
IRG/WP 11-30576 The overview of ISPM 15 implementation in Croatian wood-working companies	Challenges and new developments in testing electro osmotic pulsing technology (PLEOT) by means of conventional laboratory methods A Treu, E Larnøy
R Despot, V Jambrekovic, M Hasan	IRG/WP 11-40557 Effects of Heat-Treatment in Hot Water and Steam Mediums on Gas Permeability of Beech Wood H Reza Taghiyari, A Talaei, A Karimi
	IRG/WP 11-40573 TRU-CORE Process for Treatment of Refractory Species and Engineered Wood Products A S Ross

Coronet/Remarkables rooms	Queenstown room
08.30-10.30	
WP 2.3 Chemical/Physical analysis	WP 4.6 Thermal wood modification
Chairs: Dr Ed Suttie and Dr Lehong Jin	Chairs: Dr Christian Welzbacher and Dr Philippe Gérardin
IRG/WP 11-20467 Investigating extraction of bifenthrin from composite wood products J J Morrell, L Bell, J Norton, C Shaw IRG/WP 11-20479 Non-destructive evaluation of wood decay J Van den Bulcke, I De Windt, N Defoirdt, J Van Acker IRG/WP 11-20471 Classification of wood materials using Fourier Transform Near Infrared Spectroscopy and multivariate analysis M A Bouslamti, M A Irle, C Belloncle, V Salvador, S Hulot, B Caron, E M Qannan IRG/WP 11-20462 A rapid colorimetric assay for mold spore germination using XTT tetrazolium salt C A Clausen, V W Yang IRG/WP 11-20478 Slice - Cut and Analyze Laser Microdissection (LMD). A method to produce sample material from modified wood for chemical quality analysis K Zimmer, E Larnøy, A Treu, M Fongen IRG/WP 11-40560 Study of properties and application of Paulownia in wood industries M Akhtari	IRG/WP 11-40544 Thermally modified timber (TMT) for decking applications – determination of relevant surface properties L Meyer, C Brischke, C R Welzbacher IRG/WP 11-40566 Optimization of the bi-oleothermal treatment process for wood preservation and fireproofing F Simon, M Kutnik, M Goyer, M-F Thévenon, C Alfos, M Céron IRG/WP 11-40558 Implementation of a Quality Assurance System for thermally modified timber (TMT) by the Association of Central European TMT-Producers C R Welzbacher, W Scheiding IRG/WP 11-40559 Utilization of thermodesorption coupled to GC-MS to study kinetics of thermodegradation of different wood species K Candelier, M Chaouch, S Dumarçay, A Pétrissans, M Pétrissans, P Gérardin IRG/WP 11-40567 Limited variability in biological durability of thermally modified timber using vacuum based technology J Van Acker, S Michon, J Van den Bulcke, I De Windt, B Van Swaay, M Stevens IRG/WP 11-40572 Effects of nano-silver on brittleness of heat-treated solid woods H Reza Taghiyari, B Moradi Malek, A Karimi

Coronet/Remarkables rooms	Queenstown room
11.00-12.30	
WP 3.3 Performance – laboratory tests	Section 5 Sustainability and Environment
Chair: Dr Xiao Jiang	Chair: Dr Miha Humar
IRG/WP 11-30579 Laboratory study of toxicity or tolerance of CCA preservative and heavy metal constituents copper, chromium and arsenic to Malaysian tropical fungi A H H Wong, T Mark Venås, N Morsing, C C L Tan, P K F Chong IRG/WP 11-50281 The Effect of Soil pH on the pH of Treated Southern Pine in Ground Contact after 12 Months L Jin, C Schauwecker, C Vidrine, P Walcheski, A Preston IRG/WP 11-40570 Decrease of stiffness properties of degraded wood predicted by means of micromechanical modeling T K Bader, K Hofstetter, G Alfredsen, S Bollmus IRG/WP 11-40568 Effect of Nano-silver Treatment on Densified Poplar Wood Properties. Part Two: Spring Back, Compression set, Impact Load Resistance and Hardness G Rassam, H Reza Taghiyari, B Jamnani, M Ali Khajeh IRG/WP 11-30569 The potential for using CuO nanoparticles as a wood preservative I S Weitz, K Knani, M Maoz, C Freitag, J J Morrell	IRG/WP 11-20474 Sample Origin Influencing the Leachability of Wood Preservatives K Kängsepp. E Larnøy, P Meier IRG/WP 11-50278 Characterizing long term leaching behaviour of copper from preservative treated wood in a practical exposure scenario T Mark Venås, M Klamer IRG/WP 11-50280 Copper Migration from Micronized Copper Preservatives Treated Wood in soil contact: Effect of soil pH Lei Wang, D P Kamdem IRG/WP 11-50279 Remediation of Pentachlorophenol (PCP) in Biodiesel versus Diesel Carriers S Keshani Langroodi, H Borazjani, D Nicholas, L Prewitt, S V Diehl, S Kitchens IRG/WP 11-50283 Re-use of casting timber I Johansson, S Breyne, H Egnell, J Jermer

THURSDAY 12 MAY

Coronet/Remarkables rooms

13.30 -15.00

Scientific Plenary Session

Chairman: Dr Jeff Lloyd Co-chairs: Dr Laurie Cookson, Dr Michael Kennedy, Dr Radu Craciun, Dr Christian Welzbacher

- Communication issues (Web-site, Facebook, Special sessions etc etc)
- Reporting back from Sections & Special session. Discussion on special sessions for 2012
- Discussion topic: "The impact of climate change on the wood protection industry and the impact of the wood protection industry on climate change "

15.30-16.15

Plenary session, cont'd from Monday 9 May

President: Mr Jack Norton Vice-President: Dr Jeff Lloyd

- 8. Approval of membership fees for 2012
- 9. Approval of the budgets for 2011 (forecast May 2011) and 2012 (IRG/WP 11-60306 and IRG/WP 11-60307)
- 10. Election of new officers
 - -Scientific Programme Committee
 - -Information on EC appointments
- 11. Appointment of auditors
- 12. Future venues
 - -IRG 43: 6-10 May 2012 in Kuala Lumpur, Malaysia
 - -IRG 44: 2013 Stockholm, Sweden
- 13. Any other business
- 14. Closure of the meeting