

THE INTERNATIONAL RESEARCH GROUP ON WOOD PROTECTION

The 40th Annual Meeting of IRG

Programme

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

MONDAY 25 MAY

Room 101

08.30-09.30

Plenary session

President: Dr Gérard Deroubaix

Vice-President: Mr Jack Norton

Opening of the IRG 40th Annual Meeting

Dr Gérard Deroubaix, President of the IRG

Mr Jiang Lu

Honorary Chairman of The IRG 40 Local Organizing Committee

Ms Li Jing

Deputy Director of the Department of Resource Conservation and Environmental Protection of National Development and Reform Commission, PRC

Mr Gao Dongsheng

Deputy of the Energy Conservation Division of the Ministry of Industry and Information Technology, PRC

Plenary

1. Opening of the meeting
2. Approval of the agenda (IRG/WP 09-60269)
3. Ratification of the election of new members since last year's Plenary
4. Announcement of the year 2009 Ron Cockcroft Award recipients
5. Approval of the Annual Report 2008 and Auditors' report (IRG/WP 09-60268)
6. Granting discharge for the Executive Council and Secretary-General from the administration and accountancy for 2008

MONDAY 25 MAY

Room 101

09.30-10.30

Scientific Main Session

**Chairman: Mr Jack Norton Co-chairs: Dr Laurie Cookson, Dr Michael Kennedy, Prof Dr Marko Petrič,
Prof Dr Andreas O Rapp**

Announcements concerning the IRG 40 Scientific Programme

J Norton & Section leaders (co-chairs)

IRG/WP 09-30516

Wood Protection in China

Zhongwei Jin

IRG/WP 09-20424

The Promotion of Timber and Timber Product uses in China - Government's Role in Regulation and Standardization

Liu Nengwen

11.00-12.30

Scientific Main Session , cont'd

IRG/WP 09-10694

Natural Durability Classification Systems Used Around the World

R Stirling

IRG/WP 09-20408

Evaluation of exposure conditions for wooden facades and decking

H Viitanen, T Toratti, R Peuhkuri, T Ojanen, L Makkonen

IRG/WP 09-30499

A theoretical-industrial correlation and perspective on copper-based wood preservatives - a review of thermodynamic and kinetic aspects on copper-wood fixation mechanism

R Craciun, M Maier, J Habicht

IRG/WP 09-40463

Hydrofluoroalkanes as carrier solvents for timber preservation

M J Kennedy, B Walker, C Erskine

MONDAY 25 MAY

Room 101

13.30-15.00

Special session on Wood Preservation in China

Conveners: Dr Lehong Jin, Mr Jack Norton

Impact of import and export business on research of wood products and wood industry in China
Kelin Ye

IRG/WP 09-20418

The Present Situation and Future Development in Quality Assurance for Wood Protection in China
Kang Hua Cheng

IRG/WP 09-40476

Progress in Fire-Retardant Research on Wood and Wood-Based Composites: a China Perspective
Wang Qingwen, Wang Fengqiang, Hu Yunchu, Li Jian

IRG/WP 09-40479

Future Directions in Wood and Engineered Wood Products Research in China
Guangjie Zhao

Room 112

Joint IRG-IUFRO session on Natural durability

Conveners: Dr Andrew H H Wong, Prof Dr D Pascal Kamdem

IRG/WP 09-10685

Evaluation of the natural durability of reed (*Phragmites australis*) originating in the Fertö region (Hungary) against wood decay organisms as material for use in a sustainable motorway noise barrier

M T Troya, F Rubio, M J Prieto, D Lorenzo, J L Fernández-Cabo, R Schöftner

IRG/WP 09-10687

Dimensional Stability of Nine Tropical Hardwoods from Cameroon

S R Shukla, D P Kamdem

IRG/WP 09-10689

Study on the natural durability of *Eucalyptus grandis* wood from Argentina

D Lorenzo, M T Troya, J C Piter, M Sánchez, C Baso

MONDAY 25 MAY

Room 101	Room 112	Room 113
15.30-17.30		
WP 1.1 Physiology of decay	WP 4.4 Treating processes and treatability of timber	WP 3.1 Diffusible wood preservatives
Convener: Dr Jonathan S Schilling	Conveners: Dr Marie-France Thévenon, Dr Andreas Treu	Convener: Dr Mark Manning
<p>IRG/WP 09-10691 <i>Serpula lacrymans</i> – calcium, iron, and foundering wooden boats J S Schilling, S M Duncan</p> <p>IRG/WP 09-10699 Impact of decay and blue stain causing fungi on the structural integrity of wood C Brischke, C Welzbacher, T Huckfeldt, F Schuh</p> <p>IRG/WP 09-10701 <i>Postia placenta</i> gene expression of oxidative and carbohydrate metabolism related genes during growth in furfurylated wood G Alfredsen, C G Fossdal</p> <p>IRG/WP 09-20400 Degradation of wood veneers by Fenton's reagents: effects of low molecular weight phenolic compounds on hydrogen peroxide decay and tensile strength loss YanJun Xie <i>et al</i></p> <p>IRG/WP 09-20404 Effect of Preservative Treatment on Fungal Colonization of Teak, Redwood, and Western Red Cedar Y Cabrera, C Freitag, J J Morrell</p>	<p>IRG/WP 09-40444 Biological Treatment to Improve Wood Product Quality and Durability –Fifteen Years of Effort and Experience at FPInnovations-Forintek Division Dian-Qing Yang</p> <p>IRG/WP 09-40445 Enhanced uptake of wood modification agents in 'bioincised' wood F W M R Schwarze, M Schubert</p> <p>IRG/WP 09-40456 Tensile stress relaxation of wood impregnated in different ACQ formulations at various temperatures Lili Yu, Jinzhen Cao</p> <p>IRG/WP 09-40470 Wood properties influencing the penetration of Scots pine (<i>Pinus sylvestris</i>) sapwood with the wood modification agent furfuryl alcohol K Zimmer, E Larnøy, G Koch</p> <p>IRG/WP 09-40453 Microwave Surface Modification of Radiata Pine Peeler Cores for Preservative Treatment K Sugiyanto, G Torgovnikov, P Vinden</p>	<p>IRG/WP 09-30494 Fungal decay resistance and durability of wood products made from borax-impregnated wood and bonded with corn starch and tannin adhesive A Moubarik, A Pizzi, A Allal, F Charrier, B Charrier</p> <p>IRG/WP 09-30498 Laboratory and field evaluation of Laminated Strand Lumber treated with Borogard® ZB against termites D K Scown and J W Creffield</p> <p>IRG/WP 09-30500 Tests on the effectiveness of concentrated borate wood preservative Su Haitao, Zhang Yanjun, Xie Guijun, Chen Lifang, He Xuexiang</p> <p>IRG/WP 09-30507 Effects of new fixative additives on leachability of boron wood preservatives A Mohareb, J Henry, E Wozniak, P Gérardin</p> <p>IRG/WP 09-30511 Thermal behavior of zinc borate-treated wood E Terzi, H Sutcu, S Pişkin, S N Kartal</p>

TUESDAY 26 MAY

Room 101	Room 112	Room 113
08.30-10.30		
WP 4.4 Treating processes and treatability of timber	WP 2.3 Chemical/physical analysis	WP 3.2 New wood protecting chemicals
Conveners: Dr M-F Thévenon, Dr A Treu	Convener: Dr Ed Suttie	Convener: Prof Dr Holger Militz
<p>IRG/WP 09-40461 Interactions between wood and propiconazole in supercritical carbon dioxide A W Kjellow, O Henriksen</p> <p>IRG/WP 09-40457 Bamboo preservation in Vietnam Thi Kim Hong Tang</p>	<p>IRG/WP 09-20398 Moisture adsorption isotherms of wood studies using a dynamic vapour sorption apparatus Z Jalaludin, C A S Hill, S Curling</p> <p>IRG/WP 09-20399 SEM-EDXA of CCA-treated Rubberwood (<i>Hevea brasiliensis</i>) I Jusoh, D P Kamdem</p> <p>IRG/WP 09-20406 Wart Morphology can Distinguish White Cypress Pine from the Less Durable Species, Black Cypress Pine R Heady, R Cunningham, P Evans</p> <p>IRG/WP 09-20409 Evaluation of variables that influence dynamic MOE in wood decay studies D Nicholas, J Shi, T Schultz</p> <p>IRG/WP 09-20411 Accelerated H3 above-ground decay trials in Australia L J Cookson, J Carr</p>	<p>IRG/WP 09-10692 Discovering anti-fungal agents in New Zealand native plants for use in wood protection C Rickard, T Singh, A Singh, R Newman</p> <p>IRG/WP 09-30493 Effectiveness of sol-gel treatments coupled with copper and boron against subterranean termites E Feci, L Nunes, S Palanti, S Duarte, G Predieri, F Vignali</p> <p>IRG/WP 09-30495 Potential synergy between natural product extracts for limiting fungal decay M Maoz, C Freitag, J J Morrell</p> <p>IRG/WP 09-30501 Antifungal Activities of Three Supercritical Fluid Extracted Cedar Oils Tianchuan Du, T F Shupe, Chung Y Hse</p> <p>IRG/WP 09-30502 Effect of juglone from <i>Juglans mandshurica</i> bark activity of wood decay fungi Dongmei Yang, Shuangyue Li, Shujun Li, Wenqiang Su, Yan Jin, Molong Sun</p> <p>IRG/WP 09-30505 Resistance to decay fungi of ammonium borate oleate treated wood F Lyon, M-F Thevenon, A Pizzi, J Gril</p>

TUESDAY 26 MAY

Room 101

11.00-12.30

WP 1.3 Bluestain and moulds

WP 1.8 Cultural artefact protection

Conveners: Dr Miha Humar, Prof Dr Wibke Unger

IRG/WP 09-10686

Mechanical and chemical properties of blue stained wood

M Humar, V Vek, B Bučar

IRG/WP 09-10703

Isolation and identification of stain fungi and mould fungi on bamboo wood in China

Xingxia Ma, Mingliang Jiang, Daochun Qin

IRG/WP 09-10683

The amazing wooden churches from Northern Romania - learning from the past, restoring for the future, preserving the present valuable heritage of forgotten wood building tradition

R Craciun, R Möller

IRG/WP 09-10706

Effects of cold treatment on wood destroying fungi important in cultural heritage

M Lüdicke, W Unger

Room 112

WP 4.6 Thermal wood modification

Conveners: Dr Christian Welzbacher, Prof Dr Philippe Gérardin

IRG/WP 09-40454

Wettability and bonding strength of wood thermally-treated with different combinations of soy oil and chemical additives

L Awoyemi, P A Cooper, T Ung

IRG/WP 09-40469

Properties of thermally modified wood of *Eucalyptus globulus* from Spanish plantations

Ó González Prieto, M C Touza

IRG/WP 09-40481

Physical and Mechanical Properties of Hydrothermally Modified Mulberry (*Morus alba* L.) Wood

A Talaei, K Yaghoobi

TUESDAY 26 MAY

Room 101

Room 112

13.30-15.00

WP 3.4 Performance – field tests

WP 4.6 Thermal wood modification, cont'd

Convener: Dr Niels Morsing

**Convener: Dr Christian Welzbacher, Prof Dr Philippe
Gérardin**

IRG/WP 09-30503

Leaching performance, decay and termite resistance of wood treated with boron compounds incorporated with phenol-formaldehyde resin

Liping Yu, Jinzhen Cao

IRG/WP 09-30504

Impact of an Antioxidant on the Efficacy of Quaternary Ammonium Compounds (Quats) and Triazoles – Seven Year Above-Ground Study

Xiao Jiang, D Biro, W Holcombe

IRG/WP 09-30509

Leaching properties of copper and triazole

Zhiqiang Li, Xiaowen Li, Ying Zhang, Mingliang Jiang

IRG/WP 09-40458

Barefoot-heat-impact of oil-heat-treated wood: An important thermal property of decking boards

A O Rapp, C R Welzbacher, C Brischke

IRG/WP 09-40459

Estimating the heat treatment intensity through various properties of thermally modified timber (TMT)

C R Welzbacher, C Brischke, A O Rapp

TUESDAY 26 MAY

Room 101	Room 112	Room 113
15.30-17.30		
WP 2.2 Microbial test methodology Convener: Dr Gry Alfredsen, Ms Annica Pilgård	Joint IRG-IUFRO session on Natural durability Conveners: Dr Andrew H H Wong, Prof Dr D Pascal Kamdem	WP 3.2 New wood protecting chemicals Convener: Prof Dr Holger Militz
<p>IRG/WP 09-10702 Gene expression of selected decay enzymes produced during biodeterioration of three wood types Young-Min Kang, L Prewitt, S Diehl</p> <p>IRG/WP 09-20402 Durability and fungal colonisation patterns in wood samples after six years in soil contact evaluated with qPCR, microscopy, TGA, chitin- and ergosterol assays A Pilgård, G Alfredsen, I Børja, C Björdal</p> <p>IRG/WP 09-20412 A rapid microscale assay for determining growth of wood inhabiting fungi against <i>Lactobacillus</i> metabolites D O'Callahan, T Singh, I McDonald</p> <p>IRG/WP 09-20416 Molecular Microbiology and Wood Protection E Gelhay, M Morel</p> <p>IRG/WP 09-20423 Assessment of mould growth on coated wood – methods and application L Ross Gobakken <i>et al</i></p> <p>IRG/WP 09-20426 Analysis on dynamics of basidiomycetes in decayed wood by a method using non-specific amplification of DNA. T Wada, K Igarashi, M Samejima</p>	<p>IRG/WP 09-10693 Termite resistance of pure and mixed heartwood-sapwood Cypress (<i>Cupressus sempervirens</i> L.) plywoods F Faraji, M-F Thévenon, B Thibaut</p> <p>IRG/WP 09-10696 Antinomic natural self-protection mechanism in long-lasting woods: a case study with three tropical species from French Guiana A Rodrigues, M Royer, N Amusant, J Beauchêne, G Herbette, V Eparvier, A Thibaut, L Salmen Espíndola, B Thibaut, D Stien</p> <p>IRG/WP 09-10697 Wood characterization of <i>Tetraclinas articulata</i> and evaluation of its resistance against lignilolytic fungi F El Bouhtoury-Charrier, A Hakam, A Famiri, M Ziani, B Charrier</p> <p>IRG/WP 09-10704 Natural Durability Variations of Malaysian Timbers from Sarawak after 26 Years Exposure by Stake Test A H H Wong, Ling Wang Choon</p>	<p>IRG/WP 09-30512 The Chemical and Biological Properties of Polymeric Betaine H Härtner, S Schmitt, Futong Cui, H M Barnes</p> <p>IRG/WP 09-30514 Mold-resistance Effect of Bamboo Wood Treated with CCC-organic Complexes Sun Fangli, Yang Le, Chen Anliang, Bao Binfu, Li Qiao</p> <p>IRG/WP 09-30515 Potential of antifungal and antitermitic activity of several essential oils N Amusant, M-F Thévenon, N Leménager, E Wozniak</p> <p>IRG/WP 09-30518 Effect of extractives on durability of <i>Prosopis juliflora</i> heartwood P Sirmah, K Ilaych, B Poaty, S Dumarçay, P Gérardin</p> <p>IRG/WP 09-30510 Laboratory and above ground exposure efficacy of silicon-boron treatments N Terziev, D Panov, A Temiz, S Palanti, E Feci, G Daniel</p> <p>IRG/WP 09-30517 Synthesis of a rosin amide and its resistance to wood decay fungi Shuangyue Li, Shujun Li, Jing Wang</p>

TUESDAY 26 MAY

17.30-18.30

Room: Coffee/tea break area

Poster session

Chairman: Mr Jack Norton Co-chairs: Dr Laurie Cookson, Dr Michael Kennedy, Prof Dr Marko Petrič, Prof Dr Andreas O Rapp

IRG/WP 09-10690

Study on the natural durability of *Eucalyptus globulus* wood from Spain

D Lorenzo, M T Troya, M Touza, C Baso

IRG/WP 09-10700

The effect of different foundation systems against fungal flora in the crawl space of a new wooden Japanese house

A Toyoumi *et al*

IRG/WP 09-40462

Eco- Friendly Composites from Bagasse and Soy-based Resin

G Rassam, B Jamnani

Rubberwood Protection

Xiao Jiang, W Holcombe, J Zhang

Geographic distribution of Blue stain fungi investigated by T-RFLP

K Kristensen, L Dam Rasmussen, B Jensen, M Klamer

Performance of Wood Treated with Amine Oxides and Azoles – Seven Year Field Study and More

Xiao Jiang, W Holcombe

Comparative proteomics of three wood types during biodeterioration

Young-Min Kang, S Diehl, L Prewitt

Natural extracts as a mould inhibitor on panel product

T Singh, C Chittenden

Termite Resistance and Physical Properties of Biobased Composition Boards Made From Cotton Gin Byproducts and Guayule Bagasse

G A Holt, P Chow, T A Coffelt, F S Nakayama

WEDNESDAY 27 MAY

Room 101	Room 112	Room 113
08.30-10.30		
Section 5 Sustainability and environment	WP 2.3 Chemical/physical analysis	WP 4.2 Chemical wood modification
Conveners: Mr F G Evans, Dr P A Cooper	Convener: Dr Ed Suttie	Conveners: Dr Erik Larnøy/Dr Tripti Singh
<p>IRG/WP 09-50259 Environmental Emission of Wood Preservatives: Interpretation of Data Relevant to BPD Risk Assessments D G Cantrell</p> <p>IRG/WP 09-50260 Leaching of the copper component from full scale decking boards during one summer season F G Evans</p> <p>IRG/WP 09-50261 Component leaching from CCA, ACQ and a micronized copper quat (MCQ) system as affected by leaching protocol P A Cooper, Y T Ung</p> <p>IRG/WP 09-50262 Rapid Microwave-Assisted Acid Extraction of Metals from Chromated Copper Arsenate (CCA)-Treated Southern Pine Wood Bin Yu, Chung Y Hse, T F Shupe</p> <p>IRG/WP 09-50263 Factors affecting sodium hypochlorite extraction of CCA preservative components from out of service treated wood for recycling E D Gezer, P A Cooper</p> <p>IRG/WP 09-50264 Life Cycle Assessment of treated timber: methodological aspects and first results E Vial, M Bertrand, C Cornillier, G Deroubaix</p>	<p>IRG/WP 09-20419 Evaluation of Water Repellency of Treated Wood Using Several Alternative Methods L Jin, A F Preston</p> <p>IRG/WP 09-20421 Use of Confocal Profilometry to Quantify the Weathering of Wood Chunling Liu, P Evans</p> <p>IRG/WP 09-20422 Continuous moisture measurement (CMM) to detect failure of moisture resistance I De Windt, J Van den Bulcke, J Van Acker</p> <p>IRG/WP 09-40442 Colour change monitoring of photodegradation in Scots pine (<i>Pinus sylvestris</i>) – a short term focus V Sharratt, C A S Hill, D P R Kint</p> <p>IRG/WP 09-20425 The role of third party independent inspection agency for wood preservation industry in China Zhenzhong Tang, Changsheng Shen, Yujie Han, Changming Song</p>	<p>IRG/WP 09-40452 Vinyl Benzoate Photostabilizes Wood Whereas Vinyl Cinnamate and Vinyl 4-T-butylbenzoate are Less Effective M Jebrane, G Sèbe, I Cullis, P Evans</p> <p>IRG/WP 09-40460 Investigation of chemical changes in acetylated beech wood during weathering M Akhtari, M Arefkhani</p> <p>IRG/WP 09-40467 Weathering of Wood Modified with the N-Methylol Compound 1,3-dimethylol-4,5-dihydroxyethyleneurea (DMDHEU) C Mai, Yanjun Xie, A Krause, K Urban, P D Evans, K Richter, H Militz</p> <p>IRG/WP 09-40449 Termite resistance of some modified wood species H Militz, B C Peters, C J Fitzgerald</p> <p>IRG/WP 09-40480 Material properties of furfurylated wood for window production A Treu, A Pilgård, S Puttmann, A Krause, M Westin</p>

WEDNESDAY 27 MAY

Room 101

10.30-11.30

WP 1.5/2.5 Termites and other insects

Conveners: Dr Magdalena Kutnik and Dr Berhan Ahmed (Shiday)

IRG/WP 09-10695

Prevalence of termite infestation and wood preferences in Pakistan

F Manzoor, S Asma Malik

IRG/WP 09-10698

Drywood termites in the Azores: Problems and tentative solutions

L Nunes, C Amaral, S Duarte, M Gaju

IRG/WP 09-20405

Building with termites: The challenge of biomimetic design for carbon neutral buildings

J R J French, B M Ahmed (Shiday)

THURSDAY 28 MAY

Room 101	Room 112	Room 113
08.30-10.30		
WP 3.3 Performance – lab tests	WP 4.5 Coatings, hydrophobic treatments and aesthetics aspects	WP 2.4 International standardisation WP 1.5/2.5 Termites and other insects
Convener: Dr Xiao Jiang	Conveners: Dr Laurence Podgorski, Dr Philip D Evans	Conveners: Dr Magdalena Kutnik, Dr Berhan Ahmed (Shiday)
<p>IRG/WP 09-30496 Copper to quat ratio in alkaline copper quat (ACQ) wood preservative –Effects on fixation and leaching of preservative components in red pine S Pankras, P A Cooper, T Ung, L Awoyemi</p> <p>IRG/WP 09-30497 Laboratory study on the termiticidal efficacy of Eremophilone oil D K Scown, J W Creffield, R Spooner-Hart</p> <p>IRG/WP 09-30508 Laboratory test of some formulations against stain and mould fungi isolated from bamboo wood Xingxia Ma, Airui Sun, Mingliang Jiang, Daochun Qin</p> <p>IRG/WP 09-30506 Re-Distribution of Copper in the Cell Walls of Wood Treated with Micronized Copper Quat R Stirling, J Drummond</p> <p>IRG/WP 09-30513 The Form of Copper: Does It Really Matter? C R McIntyre, M H Freeman, T F Shupe, Q Wu, D P Kamdem</p> <p>IRG/WP 09-30519 Micronized Copper Preservative Systems: Observations on the Release of Cupric ion (Cu²⁺) from Treated Wood and Performance against Wood Decay Fungi J Zhang, R Ziobro</p>	<p>IRG/WP 09-40451 Use of wax emulsions for upgrading of wood properties B Lesar, F Pohleven, M Humar</p> <p>IRG/WP 09-40472 Selection of an appropriate coating system for wooden boats to be used in fresh water M Petrič, B Kričej, A Logar, M Pavlič</p> <p>IRG/WP 09-40474 A fast and economic method to produce grey wooden surfaces for decking and cladding: preliminary results L Podgorski, V Georges, I Garmendia, B Sánchez Sarachu</p> <p>IRG/WP 09-40465 Performance of Fasteners in Treated Wood: A Comparative Study Q Wu, T Shupe, J Curole, K Ragon, M Voitier, M Freeman, D Ring</p> <p>IRG/WP 09-40477 Which are the best painting methods for the beech wood products protection? A Bajraktari</p>	<p>IRG/WP 09-20420 An Overview of the Status of the Australian Quarantine and Inspection Service Cargo Container Booklet H Greaves, J W Creffield</p> <p>IRG/WP 09-20403 European House Borer <i>Hylotrupes bajulus</i> Linnaeus in Western Australia: the anatomy of an eradication program M Grimm, R J Cunningham, M Castalanelli, D Collins, L Vagg</p> <p>IRG/WP 09-20407 What Can Fecal Pellets Tell Us About Cryptic Drywood Termites (<i>Isoptera: Kalotermitidae</i>)? J K Grace</p> <p>IRG/WP 09-20410 Use of biological and low toxicity products against subterranean termites M T Troya, M J Prieto, F Rubio</p> <p>IRG/WP 09-20417 Review of candidate graded particle barrier testing methods in Australian Standard (AS 3660.3 – 2000): Assessment criteria for termite management systems J R J French, B M Ahmed (Shiday), B L Schafer</p>

THURSDAY 28 MAY

Room 101

11.00-12.30

WP 2.1 Prediction of service life

Convener: Ms Lesley Francis

IRG/WP 09-20401

Service Life Prediction of Wood Claddings by *in-situ* Measurement of Wood Moisture Content: Status after 5 years of Outdoor Exposure

E Tang Engelund, B Lindegaard, N Morsing

IRG/WP 09-20413

Ensure Durable Wood-Frame Construction under the Climate and Biological Hazards in Shanghai

Jieying Wang, Chun Ni, Jiahua Zhang

IRG/WP 09-20414

Modelling of onset of mould growth for wood exposed to varying climate conditions

S Thelandersson, T Isaksson, A Ekstrand-Tobin, P Johansson

Room 112

WP 4.3 Wood composites and WPC

Convener: Dr W Ramsay Smith

IRG/WP 09-40455

Properties of strand board bonded with ammonium pentaborate (APB) modified phenol formaldehyde resin

Wei Gao, Jinzhen Cao

IRG/WP 09-40466

Termite Resistant Properties of Wood and Natural Fiber Plastic Composites - AWP E1 Test Data

Q Wu, T Shupe, J Curole, K Ragon, M Voitier, M Freeman, D Ring

IRG/WP 09-40471

Extensive review of fire-retardant wood composites researches

Zhilin Chen, Zhiyong Cai, Feng Fu

IRG/WP 09-40482

Physical and Mechanical Properties of Bamboo Oriented Strand Board Treated with Copper-based Preservatives

Juwan Jin, Daochun Qin

THURSDAY 28 MAY

Room 101

13.30-15.00

Scientific Plenary Session

Chairman: Mr Jack Norton Co-chairs: Dr Laurie Cookson, Dr Michael Kennedy, Prof Dr Marko Petrič, Prof Dr Andreas O Rapp

- Reporting back from Sections
- Research: What is being done and what needs to be done! – short presentations (to be announced) followed by discussion.

15.30-16.30

Plenary session, cont'd from Monday 25 May

President: Dr Gérard Deroubaix

Vice-President: Mr Jack Norton

7. Approval of membership fees for 2010
8. Approval of the budgets for 2009 (forecast May 2009) and 2010 (IRG/WP 09-60271 and IRG/WP 09-60272)
9. Election of new officers
 - Executive Council
 - Scientific Programme Committee
 - Information on EC appointments
10. Appointment of auditors
11. Future venues
 - IRG 41 9-13 May 2010 in Biarritz, France
 - IRG 42 8-12 May 2011 in Queenstown, New Zealand
 - IRG 43
12. Any other business
 - notification of future international meetings
13. Closure of the meeting

Tabled papers

Section 1 Biology

IRG/WP 09-10682

Natural Durability of Some Heartwood from European and Tropical African Trees against Marine Organisms

S Sen, H Sivrikaya, M Yalçın

IRG/WP 09-10684

Categorization of 300 timber, bamboo and cane grown in Bangladesh based on their families, origins, growths, physical and mechanical properties

A K Lahiry

IRG/WP 09-10705

Accelerated weathering of nine tropical wood species from Cameroon

S Pankras, Jinzhen Cao, D P Kamdem

Section 2 Test methodology and assessment

IRG/WP 09-20415

Detection and Assessment Healthy Situation of *Poulus Euphratica* Oliv. with Stress Wave

Shanqing Liang, Nana Hu, Lanying Lin, Feng Fu

Section 4 Processes and properties

IRG/WP 09-40443

Effectiveness of a superficial treatment of bifenthrin to protect softwood framing from damage by subterranean and drywood termites in Indonesia

P Sukartana, J W Creffield, A Ismanto, N E Lelana

IRG/WP 09-40446

Differential response of wood to dry air thermal treatment (DATT) and soy oil thermal treatment (SOTT)

L Awoyemi

IRG/WP 09-40447

Modification of Wood by a Water-Repellent Compound Used in the Textile Industry: Boron Release and Termite Resistance

S N Kartal, E Terzi, B Erilkun, Y Imamura

IRG/WP 09-40448

The resistance of thermo-oil modified wood against decay and mould fungi

A Fojutowski, A Kropacz, A Noskowiak

IR/WP 09-40450

Effects of concentration and temperature of CCA and CCB on wood strength of Turkish fir (*Abies bornmulleriana* Mattf.)

I Usta, M Hale

IRG/WP 09-40464

Biological Performance of Boron-based Chemicals Treated Wood Composites

Ü C Yıldız, H Kalaycıoğlu, S Yıldız, A Temiz, E Tomak Dizman, A Çavdar Dönmez

IRG/WP 09-40468

The resistance of wood coated with different solvent-borne paints against colonisation by decay fungi

B Mazela, P Hochmańska

IRG/WP 09-40473

The effect of chemical changes on the wood-moisture relationships in thermally-modified wood

M M González-Peña, M D C Hale

IRG/WP 09-40475

Morphological and Impregnability Properties of Narrow-Leaved Ash (*Fraxinus angustifolia Vahl.*) Wood Taken From Plantations with Different Spacings

C Güler, H Ibrahim Sahin, S Sen

IRG/WP 09-40478

Effects of Some Pre-Treatments on Copper Content of Refractory Spruce Wood Treated with CBA-A

S Yıldız, Ü C Yıldız, E D Gezer, Ö Özgenç, E Dizman Tomak