

**THE INTERNATIONAL RESEARCH GROUP ON WOOD PROTECTION**

**The 39<sup>th</sup> Annual Meeting of IRG**

**Scientific programme**

**IRG Secretariat  
Box 5609  
SE-114 86 Stockholm  
Sweden  
[www.irg-wp.com](http://www.irg-wp.com)**

# MONDAY 26 MAY

**Inonu**

**09.20-10.30**

## Scientific Main Session

**Chairman: Mr Jack Norton      Co-chairs: Dr Frederick Green III, Dr Michael Kennedy, Prof Dr Marko Petrič, Prof Dr Andreas Rapp, Dr Ed Baines**

### Announcements concerning the IRG 39 Scientific Programme

J Norton & Section leaders

IRG/WP 08-50257

#### **Wood protection, a tool for climate change mitigation?**

G Deroubaix

IRG/WP 08-10638

#### **A hypothesis on a second non-biocidal property of wood extractives, in addition to toxicity, that affects termite behavior and mortality**

T P Schultz, K Ragon, D D Nicholas

**11.00-12.30**

## Scientific Main Session , cont'd

IRG/WP 08-10665

#### **Whole-of-house protection from subterranean termite attack and damage after four years of field exposure**

B M Ahmed (Shiday), J R J French, S R Przewloka, P Vinden, J Hann, C Y Adam

IRG/WP 08-40418

#### **Bi-oleothermal treatment of wood at atmospheric pressure: resistance to fungi and insects, resistance to weathering and reaction to fire results**

L Podgorski, I Le Bayon, I Paulmier, J-D Lanvin, V Georges, D Grenier, H Baillères, J-M Méot

IRG/WP 08-30460

#### **Above and Below-Ground Copper-Azole and Copper, Chrome Arsenate Depletion from *Pinus radiata* and *Fagus sylvatica* at Thirteen New Zealand & Australian Sites**

R Wakeling

# MONDAY 26 MAY

**Kocatepe**

**Fevzi Cakmak**

**13.30-15.00**

**WP 3.4 Performance – field tests**

**WP 4.4 Treating processes and treatability of timber**

**Convener: Dr Niels Morsing**

**Conveners: Dr Ilker Usta and Prof Dr Holger Militz**

IRG/WP 08-10642

**Preventing *Xylosandrus crassiusculus* Beetle Attack in Large Green Timbers Using Pyrethroid Dip Treatments**

C Schauwecker, A F Preston, J J Morrell

IRG/WP 08-10643

**Performance of softwood preservative treated stakes after 4 years exposure in-ground to decay fungi and termites in tropical Australia**

B M Ahmed (Shiday), J R J French, S R Przewloka, P Vinden, J A Hann, P Blackwell

IRG/WP 08-30455

**Field Trial of Copper Treated Moso Bamboo in Southern China**

Mingliang Jiang

IRG/WP 08-30461

**Amine Oxides for Use in Wood Protection: III. Penetration Aids for Wood**

Xiao Jiang

IRG/WP 08-40400

**Accelerated fixation of ACQ-D treated Chinese fir with different post-treatments**

Lili Yu, Jinzhen Cao, P A Cooper

IRG/WP 08-40403

**Effects of bleaching process on the roughness values of wood surfaces of Lebanon cedar (*Cedrus libani* A. Rich.) and Black poplar (*Populus nigra* L.) using NaOH (sodium hydroxide), H<sub>2</sub>O<sub>2</sub> (hydrogen peroxide) and Ca(OH)<sub>2</sub> (calcium hydroxide)**

I Usta, E Aydinlar

IRG/WP 08-40390

**The Effect of Heat on the Retention of Ammoniacal Copper Quat (ACQ-AB) onto Scots Pine (*Pinus Sylvestris* L.) Wood**

M Hakki Alma, A Mukremin Kara

**Inonu**

**15.30-17.30**

**Special plenary session on the 2008 IRG Survey**

**Conveners: Dr Gérard Deroubaix (President) and Mr Jack Norton (Vice-President)**

# TUESDAY 27 MAY

Inonu	Kocatepe	Fevzi Cakmak
<b>08.30-10.30</b>		
<b>WP 1.1 Physiology of decay</b>  <b>Convener: Dr Sungmee Choi</b>	<b>WP 2.1 Topical issue – Service life prediction</b> <b>Conveners: Dr Gry Alfredsen/Mrs Lone Ross Gobakken</b>	<b>WP 3.2 New wood protecting chemicals</b>  <b>Convener: Prof Dr Holger Militz</b>
<p>IRG/WP 08-10652 <b>Inducing and Stimulating Spalting in Sugar Maple</b> S C Robinson, D L Richter, P E Laks</p> <p>IRG/WP 08-10654 <b>Characterization of protein patterns from decayed wood of loblolly pine (<i>Pinus taeda</i> L.) by proteomic analysis</b> Young-Min Kang, L Prewitt, S Diehl</p> <p>IRG/WP 08-10655 <b>Oxidative stress and lignin peroxidase production in <i>Phanerochaete chrysosporium</i></b> M Morel, L Diss, C Fourrey, M Chalot, M Droux, J P Jacquot, E Gelhaye</p> <p>IRG/WP 08-10649 <b>Wood decay fungi from New Zealand leaky buildings – PCR identification (Part 2) and aerial spore trapping</b> D Stahlhut, R L Farrell, R Wakeling, M Hedley</p> <p>IRG/WP 08-20377 <b>Microbial Community Analysis Using Terminal Restriction Fragment Length Polymorphism (T-RFLP) Analysis: Field Study Results</b> G T Kirker, S V Diehl, M L Prewitt, W J Diehl</p> <p>IRG/WP 08-10653 <b>A step towards a better understanding of fungal colonization of modified wood - QRT-PCR studies</b> G Alfredsen, A Pilgård, A Hietala</p>	<p>IRG/WP 08-10648 <b>Practice Makes Perfect: A Biodeterioration Diagnostics Database that Makes Practice</b> J S Schilling</p> <p>IRG/WP 08-20378 <b>A comparison of rates of decay and loss in stiffness of radiata pine and Douglas fir framing lumber</b> M Hedley, D Page, J van der Waals</p> <p>IRG/WP 08-20382 <b>In-service performance of wood depends upon the critical in-situ conditions. Case studies</b> L Ross Gobakken, J Mattsson, G Alfredsen</p> <p>IRG/WP 08-20383 <b>A preliminary note on the role of moisture absorption rate in durability assessment</b> J J Morrell, L P Francis</p> <p>IRG/WP 08-20387 <b>Service life prediction of wood: scale-dependent tools within a bio-engineering framework</b> J Van den Bulcke, J Van Acker, M Stevens</p>	<p>IRG/WP 08-10637 <b>Some studies on natural resistance of different trees and prevention of infestation by termites through use of industrial effluents at Karor, Layyah, Pakistan</b> S Ahmed, M Arshad Ejaz, M Asam Riaz, A Hussain</p> <p>IRG/WP 08-30456 <b>Antifungal activity of different molecular weights of a biopolymer chitosan against wood decay fungi</b> A S O Mohareb, M E I Badawy</p> <p>IRG/WP 08-30463 <b>Quercetin - a potential compound of <i>Azadirachta indica</i> A. Juss. (Neem) leaves exhibiting activity against wood decaying fungi and termites</b> S Dhyani, S Tripathi</p> <p>IRG/WP 08-30465 <b>Antifungal activity of essential oils against common wood degrading/decaying fungi</b> T Singh, C Chittenden</p> <p>IRG/WP 08-30462 <b>Investigation into the antifungal properties of herbal remedies for potential use in the wood preservation industry</b> D O'Callahan</p> <p>IRG/WP 08-30450 <b>Efficacy of Neem (<i>Azadirachta indica</i>) Leaves Against Wood Decay Fungi</b> A Humayan Kabir, M A Rahman, M Firoz Alam</p>

# TUESDAY 27 MAY

Inonu	Kocatepe	Fevzi Cakmak
<b>11.00-12.30</b>		
<b>Section 5 Environmental aspects</b>	<b>WP 4.4 Treating processes and treatability of timber</b>	<b>WP 2.4 International standardisation</b>
<b>Convener: Dr Ed Baines</b>	<b>Conveners: Dr Ilker Usta/Prof Dr Holger Militz</b>	<b>Convener: Dr Michael Hedley</b>
<p>IRG/WP 08-40417  <b>COST Action E37. Sustainability Through New Technologies For Enhanced Wood Durability - Achievement of the Objectives</b>  R-D Peek, J Van Acker</p> <p>IRG/WP 08-50253  <b>Degradation of polychlorinated organic biocides by the wood decaying fungi</b>  I Vidic, L Zupančič-Kralj, K Sepčić, F Pohleven</p> <p>IRG/WP 08-50251  <b>Effect of steam on fixation of Cu-amine preservative treated wood</b>  Sung-Mo Kang, In-Yong Hwang, Suk-Kuwon Kim</p>	<p>IRG/WP 08-40406  <b>Effects of acetic acid and nitric acid pre-treatment on copper content of spruce wood treated with CBA-A and CCA</b>  S Yildiz, E Dizman, Ü C Yildiz</p> <p>IRG/WP 08-40408  <b>Effects of Moisture Content and Species on Penetration of Liquid in Laser Incised Lumber by the Passive Impregnation Method</b>  N Hattori, M Nazrul Islam, K Ando, H Yamauchi</p> <p>IRG/WP 08-40410  <b>Effects of planning and sanding on penetration and retention properties of some softwood species treated with copper azole</b>  Ü C Yildiz, S Yildiz</p> <p>IRG/WP 08-40411  <b>Spruce and pine heartwood treatment by means of microwave radiation</b>  A Treu, H Rieche, H Militz</p>	<p>IRG/WP 08-20380  <b>Development of an International Use Classification System</b>  P I Morris</p> <p>plus</p> <p><b>Ad hoc contributions</b> by M Hedley, A Preston, G Deroubaix and J Jermer</p>

# TUESDAY 27 MAY

Inonu	Kocatepe	Fevzi Cakmak
<b>13.30-15.00</b>		
<b>WP 4.2 Substrate modification and non-biological treatments</b>	<b>WP 4.4 Treating processes and treatability of timber, cont'd</b>	<b>WP 3.4 Performance – field tests</b>
<b>Conveners: Dr Mats Westin/Dr Erik Larnøy</b>	<b>Conveners: Dr Ilker Usta/Prof Dr Holger Militz</b>	<b>Convener: Dr Niels Morsing</b>
<p>IRG/WP 08-30449 <b>Decay resistance of propionylated Iranian beech against the white rot fungus <i>Trametes versicolor</i></b> M R M Farahani, S M Hosseini</p> <p>IRG/WP 08-30457 <b>Wood preservation by a mixed anhydride treatment: Using simple models of polymeric wood compounds for an <sup>13</sup>C NMR investigation</b> F Lyon, M-F Thevenon, A Pizzi, G Tondi, A Despres, J Gril, S Rigolet</p> <p>IRG/WP 08-30458 <b>Hydrophobic characteristics of pyrolysis oil</b> A Temiz, M Hakki Alma, N Terziev</p> <p>IRG/WP 08-40394 <b>The effect of gamma radiation on selected wood properties</b> R Despot, M Hasan, A O Rapp, C Brischke, C R Welzbacher</p>	<p>IRG/WP 08-40412 <b>Primary Study on Compressed Preservative-treated Wood (CPW) for Outdoor Applications</b> Jinzhen Cao, Jia Mao</p> <p>IRG/WP 08-40414 <b>Bending Properties of Southern Pine Treated with Micronized Preservative Systems</b> H M Barnes, G B Lindsey, J Hill, M Pompeo, R Hodge</p> <p>IRG/WP 08-40421 <b>Variations of Furfuryl alcohol and Wolmanit CX-8 treatability of pine sapwood within and between trees</b> E Larnøy, S Lande, G I Vestøl</p> <p>IRG/WP 08-40416 <b>Effects of CCB on wood strength of Eastern spruce (<i>Picea orientalis</i> L.)</b> I Usta, M Hale</p> <p>IRG/WP 08-50252 <b>Radial flow of Bornmullerian fir (<i>Abies bornmulleriana</i> Mattf.) as affected by wood tapering and the condition of end wall structure of uniseriate ray parenchyma cells</b> I Usta, S Aslan</p>	<p>IRG/WP 08-40391 <b>Performance of wood-based composites in a protected aboveground test in southern Japan</b> K Tsunoda</p> <p>IRG/WP 08-10636 <b>An Investigation on Use and Durability of Some Industrial and Domestic Woods of Iran against Destructive Factors in Caspian Sea</b> S M Kazemi</p>

# TUESDAY 27 MAY

Inonu	Kocatepe	Fevzi Cakmak
<b>15.30-17.30</b>		
<b>WP 4.2 Substrate modification and non-biological treatments, cont'd</b>	<b>WP 3.1 Special session on boron</b>	<b>WP 3.2 New wood protecting chemicals</b>
<b>Conveners: Dr Mats Westin/Dr Erik Larnøy</b>	<b>Convener: Dr Mark Mankowski</b>	<b>Convener: Prof Dr Holger Militz</b>
<p>IRG/WP 08-40392 <b>Effect of wood polymers degradation during heat treatment on extracellular enzymatic activities involved in beech degradation by <i>Trametes versicolor</i></b> S Lekounougou, G Nguila Inari, M Pétrissans, S Dumarçay, J P Jacquot, E Gelhay, P Gérardin</p> <p>IRG/WP 08-40396 <b>Preliminary investigation of biological resistance, water absorption and swelling of thermally compressed pine wood panels</b> Ö Ünsal, S N Kartal, Z Candan, R Arango, C A Clausen, F Green III</p> <p>IRG/WP 08-40422 <b>Improvement of the Fungal Resistance of Japanese Cedar by the ThermoWood Process</b> I Momohara, T Morita, S Shouho, A Yamaguchi</p> <p>IRG/WP 08-40399 <b>Heat treatment, thermal treatment, thermal degradation of wood, carbon nanotubes and Damascus steel swords. What do they all have in common?</b> Xinfeng Xie, B Goodell, Yuhui Qian, G Daniel</p> <p>IRG/WP 08-40407 <b>The Effect of Heat Treatment on Water Absorption and Dimensional Stability of Anatolian Chestnut (<i>Castanea sativa</i> Mill.) wood</b> G Gunduz, D Aydemir</p>	<p>IRG/WP 07-30448 <b>Development of boron/linseed oil combined treatment as a low-toxic wood protection. Evaluation of boron fixation and resistance to termites according to Japanese and European standards</b> F Lyon, M-F Thevenon, Y Imamura, J Gril, A Pizzi</p> <p>IRG/WP 08-30451 <b>Influence of Polyvinyl acetate emulsion (PVA) on boron leaching and fungicidal properties</b> M Humar, B Lesar, P Kralj</p> <p>IRG/WP 08-30452 <b>Preliminary evaluation of efficacy of copper in combination with boron and NHA (N'-N-(1, 8-naphthalyl) hydroxylamine) against wood decay</b> E Terzi, C Köse, S N Kartal</p> <p>IRG/WP 08-30470 <b>Soft Rot Determines Service Life of L-joints with Low Borate Loading</b> P I Morris, J Wang, J K Ingram</p> <p>IRG/WP 08-30473 <b>The Comparison of Fixation and Leachability of Bark, Fruit and Leaf Tannin Extracts with Boron Minerals</b> S Sen, C Tascioglu, K Tirak</p>	<p>IRG/WP 08-30469 <b>Formation and Structure of Metal Azole Complexes</b> P D Evans, K J Schmalzl, C M Forsyth, G D Fallon, S Schmid, B Bendixen, S Heimdal</p> <p>IRG/WP 08-30471 <b>The efficacy of commercial silicones against blue stain and mould fungi in wood</b> S C Ghosh, C Mai, H Militz</p> <p>IRG/WP 08-30466 <b>Effect of amphiphilic antioxidant alkyl ammonium ascorbate on inhibition of fungal growth: Application to wood preservatives formulation</b> C Gérardin, T Koumbi Mounanga, P Gérardin</p> <p>IRG/WP 08-30467 <b>Conditions and possibility of nanobiocides formulation for wood protection</b> J Ważny, A Kundzewicz</p>

	<p>IRG/WP 08-30474 <b>Depletion and Redistribution of Boron in Bundles of Commercially Treated Lumber Exposed to Artificial and Natural Rainfall</b> M E Mankowski, M J Manning</p> <p>IRG/WP 08-40409 <b>The effect of treatments in boron steaming medium on boron leaching and strength properties of wood</b> E D Tomak, Ü C Yıldız, S Yıldız, E Peşman</p>	
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# WEDNESDAY 28 MAY

Inonu	Kocatepe	Fevzi Cakmak
<b>08.30-10.30</b>		
<b>WP 1.5/2.5 Termites and other insects</b>  <b>Conveners: Dr Lina Nunes/Dr Berhan Ahmed</b>	<b>WP 4.2 Substrate modification and non-biological treatments</b>  <b>Conveners: Dr Mats Westin/Dr Erik Larnøy</b>	<b>WP 3.3 Performance – lab tests</b>  <b>Convener: Dr Xiao Jiang</b>
<p>IRG/WP 08-10646  <b>Performance of sintered glass screening as a potential physical barrier against subterranean termites in the laboratory and after 4 years of field test</b>  J R J French, B M Ahmed (Shiday)</p> <p>IRG/WP 08-10647  <b>Quantitative and qualitative losses in wood of oriental spruce, <i>Picea orientalis</i> (L.) Link., induced by insects from forest to utility</b>  H A Akinci, M Eroğlu, G E Özcan, Ü C Yildiz</p> <p>IRG/WP 08-10658  <b>Utilizing Cypress to improve the decay and termite resistance of OSB panels</b>  N Amusant, O Arnould, A Depres, R H Mansouris, T Pizzi, C Baudassé</p> <p>IRG/WP 08-10661  <b>Transfer of Termiticidal Dust Compounds and their Effects on Symbiotic Protozoa of <i>Reticulitermes flavipes</i> (Kollar)</b>  F Green III, R A Arango, G Esenther</p> <p>IRG/WP 08-10669  <b>The uses of Molecular techniques in studying Australian subterranean termites Genus <i>Coptotermes</i></b>  H M Badawi, B M Ahmed (Shiday), J R J French, M P Schwarz</p>	<p>IRG/WP 08-40395  <b>Feasibility study on three furfurylated non-durable tropical wood species evaluated for resistance to brown, white and soft rot fungi</b>  T Mark Venås, A H H Wong</p> <p>IRG/WP 08-40398  <b>Resistance against basidiomycetes of 1,3-dimethylol-4,5-dihydroxy ethylene urea (DMDHEU)-modified plywood of <i>Pinus sylvestris</i></b>  A Dieste, A Pfeffer, S Bollmus, H Militz</p> <p>IRG/WP 08-40401  <b>Termite resistance of DMDHEU-treated wood</b>  H Militz, S Schaffert, B C Peters, C J Fitzgerald</p> <p>IRG/WP 08-40404  <b>Effects of Murgul Copper Process flue gases (SO<sub>2</sub>) on compression strength parallel to the grain of Beech (<i>Fagus orientalis</i> Lipsky.) wood</b>  N Ay, E Topaloğlu, A Uncu</p> <p>IRG/WP 08-40423  <b>Wood plastic composites from modified wood. Part 3. Durability of WPCs with bioderived matrix</b>  M Westin, P Larsson-Brelid, B K Segerholm, M Van den Oever</p> <p>IRG/WP 08-40424  <b>Cantilever bending test of furfurylated poles</b>  R Ziethén, J Jermer, A Clang</p>	<p>IRG/WP 08-10668  <b>Variation of commercial timbers from Turkey in resistance to marine borers as assessed by marine trial and laboratory screening</b>  H Sivrikaya, S M Cragg, L M S Borges</p> <p>IRG/WP 08-20384  <b>Field Liners as physical barriers to prevent wooden utility pole decay in soil: An accelerated field simulation trial</b>  A R Howgrave-Graham, L J Cookson, T Hale</p> <p>IRG/WP 08-30453  <b>Protection of OSB against termites by incorporation of different actives via glue line treatment</b>  S Donath, P Spetmann, T Jaetsch, T Zahlmann</p> <p>IRG/WP 08-30468  <b>The role of chromium in wood preservatives under BPD - a review and the current situation in Europe</b>  P Jüngel, S Hellkamp</p> <p>IRG/WP 08-30472  <b>Laboratory evaluation of four benzoylphenylureas against two species of <i>Reticulitermes</i> Holmgren, 1913 (<i>Isoptera: Rhinotermitidae</i>) from Southwest Europe</b>  M Gaju-Ricart, M Urbano-Luque, R Molero-Baltanás, C Patiño-Martínez, C Bach de Roca</p>

<p>IRG/WP 08-10664  <b>Wood boring species present in the Tagus Estuary and the severity of their attack on wooden piles exposed in the area: a case study</b>  L M S Borges, L Nunes, A A Valente, P Palma</p> <p>IRG/WP 08-10666  <b>An Important Wood Destroying Beetle: <i>Anobium punctatum</i> (De Geer) (Coleoptera: Anobiidae) and Distribution of Western Black Sea region</b>  A Toper Kaygin, Y Yildiz, Ü C Yildiz, S Yildiz, S M Onat, N K Özkazanç, B Kaygin, S Çelikyay</p>		<p>IRG/WP 08-40397  <b>The susceptibility of hardwood plywood to white rot</b>  A Fojutowski, A Kropacz</p>
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# WEDNESDAY 28 MAY

**Kocatepe**

**Fevzi Cakmak**

**11.00-12.00**

**WP 2.2/2.3 Microbiological test methodology/  
Chemical/physical analysis**

**WP 1.3 Bluestain and moulds**

**Convener: Dr Ed Suttie**

**Convener: Dr Miha Humar**

IRG/WP 08-20388

**Development of a Weatherometer to Accelerate the Surface Checking of  
Wood**

R Ratu, P D Evans

IRG/WP 08-10657

**Water Absorption of Various Building Materials and Mold Growth**

Dian-Qing Yang

IRG/WP 08-20386

**Molecular Methods: a Reliable Tool for the Identification of Wood Decay  
Fungi in Construction Timber**

M Maître, M Kutnik, I Le Bayon, L Harvengt

IRG/WP 08-10659

**In vitro evaluation of an integrated approach using *Trichoderma harzianum*  
and chitosan for the control of sapstain**

C Chittenden, T Singh

IRG/WP 08-20379

**Validity of above ground testing according to ENV 12037**

Ö Bergman, U Råberg, N Terziev

# THURSDAY 29 MAY

Inonu	Kocatepe	Fevzi Cakmak
<b>08.30-10.30</b>		
<b>WP 1.7 Natural durability</b>	<b>WP 4.3 Wood composites</b>	<b>WP 4.5 Coatings, hydrophobic treatments and aesthetics aspects</b>
<b>Convener: Dr Andrew H H Wong</b>	<b>Conveners: Dr Mark Manning/Dr Adam Taylor</b>	<b>Conveners: Dr Laurence Podgorski and Dr Phil Evans</b>
<p>IRG/WP 08-10639 <b>Influence of ring width and wood density on durability of oak heartwood</b> M Humar, P Oven, F Pohleven</p> <p>IRG/WP 08-10651 <b>Needs for wood durability research on planted tree species in the tropics</b> K Yamamoto, T Toma, Ngo Duc Hiep, Nguyen Trong Nhan</p> <p>IRG/WP 08-10667 <b>Natural durability of different wood species in above ground applications - Weight and MOE loss</b> F G Evans, P-O Flæte, G Alfredsen</p> <p>IRG/WP 08-10660 <b>Natural durability of fast growth plantation <i>Eucalyptus grandis</i> Hill, ex Maiden</b> S Böthig, A Sánchez, J Doldán</p> <p>IRG/WP 08-20385 <b>Flow charts for termite and decay tests to determine the natural durability of Japanese cedar (<i>Cryptomeria japonica</i> D. Don)</b> I Usta, S Doi</p>	<p>IRG/WP 08-10645 <b>Evaluation of natural durability of solid wood and mixed heartwood-sapwood Cypress (<i>Cupressus sempervirens</i> L.) plywood against Basidiomycete fungi</b> F Faraji, M F Thévenon, N Lemenager, B Thibaut</p> <p>IRG/WP 08-10656 <b>Influence of boiling on the quality of oakwood during peeling processes</b> M Svoradová, F Charrier, R Marchal, L Bléron, B Charrier, J-C Butaud</p> <p>IRG/WP 08-40402 <b>Mold susceptibility of oriented strandboard made with extracted flakes</b> A M Taylor, O Hosseinaei, Siqun Wang</p> <p>IRG/WP 08-40419 <b>The effects of zinc borate treatment of wood strands on some technological properties of oriented strandboard (OSB)</b> A D Çavdar, H Kalaycioglu, G Nemli</p> <p>IRG/WP 08-40420 <b>Surface color and roughness characteristics of medium density fiberboard (MDF) panels treated with fire retardants</b> D Ustaömer, M Usta, S Hiziroglu</p> <p>IRG/WP 08-40425 <b>Material properties of acetylated beech plywood</b> A Talaei</p>	<p>IRG/WP 08-30454 <b>Relationship between coating properties and their performance on treated wooden decks</b> M A Nejad, P A Cooper</p> <p>IRG/WP 08-30464 <b>Propolis for wood finishing</b> F Budija, M Humar, B Kričej, M Petrič</p> <p>IRG/WP 08-40393 <b>Surface Characteristics of Southern pine treated with Eastern red cedar oil</b> S Hiziroglu</p> <p>IRG/WP 08-40405 <b>Effect of CCA and Tanalith E on the performance of surface finishing</b> T Özdemir, A Temiz, I Aydin</p> <p>IRG/WP 08-10650 <b>Anatomical, physical and chemical changes of Bamboo (<i>Phyllostachys pubescence</i>) during weathering processes</b> Jong Sik Kim, Kwang Ho Lee, Mi Young Cha, Yoon Soo Kim</p>

# THURSDAY 29 MAY

**Kocatepe**

**Fevzi Cakmak**

**11.00-12.30**

**Section 5 Environmental aspects**

**Special session on cultural artifact protection**

**Convener: Dr Ed Baines**

**Convener: Prof Dr Wibke Unger**

IRG/WP 08-50250

**Ecotoxicity of furfurylated wood – Effect of leachate on aquatic bacteria**

A Pilgård, M Westin

IRG/WP 08-50254

**Thermochemical Remediation of Preservative-Treated Wood**

R Sabo, C A Clausen, J E Winandy

IRG/WP 08-50256

**Emission Rates of Active Substances from Preserved Wood in Use Class 3**

E F Baines

IRG/WP 08-10641

**Brief introduction of a research project on the wood materials from an ancient Byzantine port unearthed during drilling for underground rail tunnel in Istanbul**

A D Doğu, C Köse, S N Kartal, N Erdin

IRG/WP 08-20381

**Mechanical strength of wood from the Vasa shipwreck**

A O Rapp, C Brischke, C R Welzbacher, T Nilsson, C Björdal

IRG/WP 08-30475

**Penetration Depth of Borates in Historic Wooden Structures in Virginia City Montana**

A A Turner

IRG/WP 08-10640

**Biodeterioration of cultural monuments in the Republic of Macedonia**

I Irbe, M Karadelev, I Andersone, B Andersons

# THURSDAY 29 MAY

**Inonu**

**13.30-15.00**

## Scientific Plenary Session

**Chairman: Mr Jack Norton**

**Co-chairs: Prof Dr Marko Petric, Dr Radu Craciun**

IRG/WP 08-30479

### **Micro-Distribution of Micronized Copper in Southern Pine**

R Stirling, J Drummond, Jun Zhang, R J Ziobro

IRG/WP 08-30459

### **Field Stake Tests with Copper-based Preservatives**

A Preston, L Jin, D Nicholas, A Zahora, P Walcheski, K Archer, T Schultz

**15.30-16.30**

## Plenary session, cont'd from Monday 26 May

**President: Dr Gérard Deroubaix**

**Vice-President: Mr Jack Norton**

7. Approval of membership fees for 2009
8. Approval of the budgets for 2008 (forecast May 2008) and 2009 (IRG/WP 08-60253 and IRG/WP 08-60254)
9. Election of new officers
  - Scientific Programme Committee
  - Information about EC appointments to committees
10. Appointment of auditors
11. Future venues
  - IRG 40 24-28 May in Beijing, China
  - IRG 41 23-27 May in Bordeaux, France
  - IRG Americas Regional Meeting, Guanacaste, Costa Rica 30 Nov-2 Dec 2008
12. Any other business
  - notification of future international meetings
13. Closure of the meeting

# Tabled papers

## Section 1 Biology

IRG/WP 08-10662

A Review of Wood as Material and Source of Innumerable Products

I Usta, R Despot

IRG/WP 08-10663

Biological control of the sapstain fungus *Diplodia pinea* (syn. *Sphaeropsis sapinea*) in the field

C Gradingier, T Boisselet, K Messner, K Fackler

IRG/WP 08-10644

Decay Resistance Properties of Hemicellulose-Extracted Oriented Strand Board

C Howell, J Paredes, S Shaler, J Jellison

## Section 3 Wood protecting chemicals

IRG/WP 08-30476

Treatment of Selected Lesser Used Timber Species against Subterranean Termites using Heartwood Extracts from Teak (*Tectona grandis*) and Dahoma (*Piptadeniastrum africanum*)

A Asamoah, C Antwi-Boasiako, K Frimpong-Mensah

IRG/WP 08-30477

Laboratory Evaluation of Flurox, a Chitin Synthesis Inhibitor, as a Bait Toxicant Against *Microcerotermes diversus* (Silvestri) (*Isoptera: Termitidae*)

B Habibpour

IRG/WP 08-30478

Preservative treatment of strips of *Bambusa balcooa* by soaking process using Borax-Boric acid

K Akhter, M W Sheikh, M M Rahman, T A Chowdhury, M H Chowdhury

## Section 4 Processes and properties

IRG/WP 08-40413

Thermal treatment of Nigerian-grown *Albizzia zygia* and *Funtumia elastica* wood in soy oil medium.

Part 2: Effects on hygroscopic, swelling and surface properties

L Awoyemi

IRG/WP 08-40415

Changes in hygroscopic, mechanical and surface properties of Scottish-grown Sitka Spruce (*Picea sitchensis*) wood subjected to dry heat treatment

L Awoyemi, M C Jarvis, A Hapca

## Section 5 Environmental aspects

IRG/WP 08-50255

Leachability of Arsenic, Chromium and Copper from Weathered Treated Wood

A R Hasan, Ligang Hu, H M Solo-Gabriele, Yong Cai, L A Fieber