

**IRG Documents 2017 Status 5 June**

**Section 1 Biology**

IRG/WP 17-10877

Prevention of fungal damage of oil and date palm wood by organic acids  
M Bahmani, O Schmidt

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Effects of wollastonite nanofibers on biological resistance of historical paper against *Aspergillus niger*  
H R Taghiyari, A Kalantari, A Ershad-Langroudi, A Kalantari

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Durability Testing of a Cattail (*Typha* spp.) based Insulation Material against Termite Attack  
M Dass, W Unger, T L Woods

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Evaluating the role of Actinobacteria in the gut of wood-feeding termites (*Reticulitermes* spp.)  
R A Arango, F Green III, V W Yang, J R Lindholm, N P Chotlos, K F Raffa

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Comparative studies on the durability of English oak (*Quercus robur* L.) under in-service, field and laboratory conditions  
C Brischke, L Meyer-Veltrup, A Soetbeer, M Höpken, E Melcher, J Trautner

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Analysis of hindgut bacterial phyla frequency and diversity in subterranean termites exposed to chitosan-treated wood  
O Raji, J D Tang, T Telmadarrehei, D Jeremic

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Assessment of the quality and lifetime of wooden pile foundations  
R W W M Klaassen, A Jorissen, H Keijer

IRG/WP 17-10884

Effects of climatic factors and material properties on mould growth on untreated wooden claddings  
S Karlsen Lie, G I Vestøl, O Høibø, L Ross Gobakken

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The First Description of Soft-rot Cavity in Waterlogged Archaeological Woods by a Japanese Wood Anatomist Prof. F. Onaka in 1935  
Yoon Soo Kim, K Yamamoto

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Assessing the natural durability for different tropical timber species using the mini-block test  
V Deklerck, I De Windt, N Defoirdt, J Van den Bulcke, H Beeckman, E Espinoza, J Van Acker

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Natural durability of *Sextonia rubra*, an Amazonian tree species: description and origin  
E Houël, A Rodrigues, E Nicolini, O Ngwete, C Duplais, D Stien, N Amusant

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Untreated and copper-treated wood soaked in sodium oxalate: Effects of decay by copper-tolerant and copper-sensitive fungi  
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Nondestructive analysis of oviposition of the bamboo powderpost beetle *Dinoderus minutus* using acoustic emission and X-ray CT  
H Watanabe, Y Yanase, Y Fujii
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Genetic characterisation of the deathwatch beetle – Call for support  
M Höpken, E Melcher, J Trautner
- IRG/WP 17-10891  
Influence of organosilicon compounds and nanocellulose treatment on dimensional stability of waterlogged elm wood  
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- IRG/WP 17-10892  
A review on prediction methods of wood natural durability  
N Amusant, C Flora, J Beauchêne, E Houël, C Duplais
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On the Influence of Wood Destroying Fungi on the Feeding Intensity of Termites  
W Unger, T L Woods
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Interactions between fungal glutathione transferases and wood extractives  
T Perrot, F Saiag, N Amusant, S Dumarçay, P Gérardin, M Morel-Rouhier, R Sormanil, E Gelhaye
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Chemical compositions and anti-termite activities of essential oils from Gabonese *Canarium schweinfurthii* Engl, *Dacryodes buettneri* Engl and *Aucoumea klaineana* Pierre wood resins  
W Fiacre Bédounguidzi, P E Engonga, K Candelier, S Dumarçay, M Ludovic, M F Thévenon, P Gérardin
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Fungal growth on coated wood exposed outdoors: influence of coating pigmentation, cardinal direction and inclination of wood surfaces  
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Underground timber constructions from the First World War are well preserved after 100 years  
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Novel wood treatments improve resistance to the wood-boring marine isopod *Limnoria quadripunctata*  
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Evaluation of Particulate Materials as a Physical Barrier against Termites under Floor of Experiment House  
Y Yanase, Y Fujiwara, Y Fujii, T Mori, T Yoshimura, S Doi
- IRG/WP 17-10901  
Exploration of waterlogged piles and wooden constructions of Riga Dome Cathedral  
B Andersons, I Andersone, I Irbe, V Fridrihsone, R Lūsis
- IRG/WP 17-10902  
Effects of exposure time on detection of the behavior of white-rot fungi on Oriental beech wood properties  
E Bari, D D Nicholas, K M Ohno

## Section 2 Test methodology and assessment

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Case study: "Riesenhühlturm"

E Melcher, J Müller

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J I Fernández-Golfín Seco, M Conde García, M R Diez Barra, M Conde García, L Acuña Rello, E Torres Álvarez, E Perea Alonso, M T Troya

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Comparison of <sup>1</sup>H qNMR and NIR spectroscopic methods to predict heartwood decay resistance in *Dicorynia guianensis* Amsh

C Flora, G Frédéric, M-F Thevenon, Y Estevez, C Duplais, N Amusant

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Use of small volume cups in XRF analysis of treated wood retention

R Stelzer, A Taylor, P Lebow

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Design and performance prediction of timber structures based on a factorization approach

L Meyer-Veltrup, C Brischke

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S F Curling, G A Ormondroyd

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The sorption behaviour of wood

C Hill

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Quality of the impregnated wood in the Slovenian hardware stores

M Humar, B Lesar, N Thaler, D Kržišnik, N Kregar, S Drnovšek

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Monitoring of wood biodeterioration by infrared spectroscopy

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

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Consistency of performance of acetylated wood

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Bio-deterioration of Southern Pine Stakes at Geographically Different Testing Sites

Jun Zhang, J Horton

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Redwood Durability in NZ – Can pure culture laboratory tests predict outdoor service life

D O'Callahan, C Chittenden, J van der Waals, D Meason, T Singh

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Three-Dimensional Digital Image Correlation of Strains in Profiled Wood Decking Exposed to Wetting & Drying

J Mallet, S Kalyanasundaram, P D Evans

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Rapid detection of the Alaska yellow cedar, *Callitropsis nootkatensis* (*Cupressaceae*) extractives using Fourier transform infrared (FT-IR) spectroscopy  
S Lipeh, J J Morrell

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Modelling of moisture content in timber bridge details  
J Niklewski, C Brischke, E Frühwald Hansson, L Meyer-Veltrup

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P Torres-Andrade, J Cappellazzi, J J Morrell

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Comparative Durability of Timber Bridges in the USA  
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Overview of the treated wood quality control program in the United States with the recent challenges and advances  
L Jin

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Evaluation of surface cracks on wood – physical assessment versus subjective sensation  
A Gellerich, C Brischke, L Emmerich, L Meyer-Veltrup, P Kaudewitz

IRG/WP 17-20618  
Prediction of service life – does aesthetic matter?  
A Sandak, J Sandak

IRG/WP 17-20619  
Influence of Weathering on Moisture Performance of Wood  
M Žlahtič-Zupanc, B Lesar, N Thaler, M Humar

IRG/WP 17-20620  
COST FP 1303 Cooperative Performance Test – Results after two years outdoor exposure  
B Lesar, M Humar, C Brischke, L Meyer-Veltrup, D Jones, N Thaler, J M Abascal, G Alfredsen, B Brunnhuber, E Grodås, M Irle, J Kers, M Klamer, K-C Mahnert, E Melcher, S Palanti, M Noël, E Suttie, N Pfabigan, M Touza

IRG/WP 17-20621  
Moisture performance of wood determined in laboratory and field trials  
D Kržišnik, N Thaler, B Lesar, M Humar

IRG/WP 17-20622  
Moisture content as a quality control parameter in thermally modified timber production  
W Scheiding, H Turkulin, S Stein

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An experimental study of mould growth and wood decay in timber frame walls  
M Vanpachtenbeke, J Van den Bulcke, I De Windt, J Langmans, S Roels, J Van Acker

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New Standards for Approval of Modified Wood within the Nordic Wood Preservation Council (NWPC)  
N Morsing, E Englund Thybring, M Klamer

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Service Life Forecasting and Planning – Why, and Concepts to do it  
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Ensuring Quality of Treated Wood – Regulations, Certifications and Associative Background in the Field of Wood Protection in Europe  
M Kutnik, M Klamer, E Melcher

IRG/WP 17-20627  
Guidance on the European Biocidal Products Regulation Concerning Efficacy of Wood Preservatives  
I Stephan, M Kutnik, E Conti, M Klamer, L Nunes, J Van Acker, R Plarre

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O Karlsson, O Myronycheva, M Sehlstedt-Persson, M Öhman, D Sandberg

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

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Efficacy of *Erythropleum suaveolens* (potrodom) and *Distemonanthus benthamianus* (bonsamdua) water extractives on the durability of five Ghanaian less used timber species of varying perviousness and retentiveness  
A Asamoah, K Frimpong-Mensah, C Antwi-Boasiako

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R Stirling, J K Ingram, P I Morris

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Anti-fungal activity of rutin and rutin-metal complexes as wood protectants  
Li Yan, J J Morrell, Jie Zhong, Xiuzhu Mao

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Copolymers of tannin extracts as wood protection agents  
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Decay Resistance of MDF Manufactured with Huntite - Hydromagnesite and Zinc borate  
U E Başer, D Ustaömer, Ö Özgenç

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Liquefaction of woody waste: A novel approach in wood protection from CNSL based liquefied wood polyols

A Kumar, G B Nagarajappa, S Singh Chauhan

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Possibility of using lichen (*Usnea filipendula*) and mistletoe (*Viscum album* L.) extracts as potential natural wood preservative

Ü C Yildiz, C Kiliç, A Gürgen, S Yildiz

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Bio-friendly wood protection systems - resistance to mould and blue-stain fungi

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

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Decay Resistance of Scotch pine Wood Impregnated with *Agaricus campestris* Bio-Protective Extract

S Yildiz, Ü C Yildiz, A Yilmaz

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Weathering protection of European hardwoods through double modification

G Behr, A Gellerich, S Bollmus, H Militz

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Thermal stability of a wood protective biofinish and the influence of flame retardants on *Aureobasidium* cells

S Rensink, E A M Klein Rot, M F Sailer

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Encapsulated Active Ingredients for Wood Preservation

E Oenem-Siakou, R Möller, R Craciun, J Wittenzellner, J Habicht

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10 year 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, E Melcher, R Moeller, L Nunes, S Palanti, L Reinprecht, E Suttie, H Viitanen

IRG/WP 17-30719

Testing of the resistance of acetylated wood against marine borers at three Italian sites

S Palanti, M Faimali, D Tagliapietra, M Andrenacci, M Anichini, M Sigovini

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Functional silicones used for wood protection: preliminary study

C Reynaud, F Marchal, F Pochon, M Kutnik

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Five-year evaluation of a field trial of Eucalyptus grandis poles treated with zinc and boron

C Ibáñez, A Camargo, C Mantero, M Rabinovich

## **Section 4 Processes and properties**

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A Esmailpour, J Norton, H R Taghiyari, H Zolfaghari, S Asadi

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Effects of Nano-Wollastonite Impregnation on Fire Properties of Some Thermally-Treated Solid Wood Species

H R Taghiyari, R Hossinpourpia, S Adamopoulos, A Jahangiri, D Rabie

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Commercialisation of DMDHEU Modified Wood in Australasia  
B R Derham, T Singh, H Militz

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Permeability of *Eucalyptus* wood improved by microwave treatment  
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Dimensional Stability of Melamine Formaldehyde-Treated Southern Pine  
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Hybrid green composites manufactured with glass fiber and jute fabric skin by VARTM process: Fungal,  
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Evaluation of timber bridges with special consideration of detail design  
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Black-stain Resistant Acrylic Latexes for Wood Coatings Applications  
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The use of new, aqueous chemical wood modifications to improve the durability of wood-plastic composites  
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The Comparison of Weathering Resistance of New Generation Wood-Coating Systems  
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Mechanical, Physical and Biological Properties of Sandwich Biocomposites Panels manufactured from Food Packaging Waste  
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Borate and Copper Naphthenate Dual Treatment of Bridge Timbers-Borate movement over time  
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Performance of Norway spruce bridge in North-West Spain after 12 years exposure  
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Physico-Mechanical and Biological Properties of Cement Bonded Particleboards from Nordmann Fir  
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Plasma-assisted bleaching of blue-stain from lodgepole pine wood  
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The Effects of Pre-Microwave Treatment on Retention Levels And Some Mechanical Properties of Spruce Wood Treated with CCA  
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A summary of history and use of timber bridges in New Zealand  
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Surface Protection of Wood with Metal Acetylacetonates  
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- IRG/WP17-40803  
Moisture behaviour and biological durability of high performance flax fibre reinforced composites  
N Defoirdt, J Van den Bulcke, F Bensadoun, J Ivens, I Verpoest, J Van Acker
- IRG/WP 17-40804  
Penetration behaviour of different hydrophobic carrier substances for oily wood preservatives in Beech and Scots pine sapwood  
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- IRG/WP 17-40805  
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Decay resistance of beams made from thermally modified Scots pine and Norway spruce after 6 years' exposure in ground contact  
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Decay resistance variability of European wood species thermally modified by industrial process  
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Organosilicon-based impregnation hydrophobers for wood  
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Review on protection of timber bridges in Norway and other countries  
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Corrosion of fasteners in furfurylated wood – final report after 9 years exposure outdoors  
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- IRG/WP 17-40811  
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Evaluation of coating applied in treated wood: experiences in Brazil  
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Radio frequency heating times for sterilization radiata pine solid piles  
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Corrosion verification experiment of the screw driven into CLT  
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Influence of sea water on timber and metal joints  
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Aesthetic changes of coated thermally modified wood after artificial weathering  
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Markers of quality in self-bonded beech boards  
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UV-curable coatings developed for aesthetic and biological protection of wood outdoors  
C Reynaud, A S Schuller, M Kutnik, L Podgorski

## **Section 5 Sustainability and environment**

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Analysis of Wood Industrial Pollutants Based on Emission Coefficients  
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IRG/WP 17-50326  
A Green and Novel Technology for Recovering Copper and Wood from Treated Wood Waste – Part II: Optimization, copper metal recovery, and process design  
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How carbon stored in harvested wood products contribute in a greenhouse gas accounting perspective  
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NGS analysis of fungal OTUs in *Aquilaria* sp. from French Guyana, Cambodia, Laos and Thailand  
C Zaremski, C Malandain, O Sibourg, C Andary, G Michaloud, M Ducouso, N Amusant, A Zaremski

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Biodegradation of creosote by white rot fungus *Phanerochaete chrysosporium* and a strains of *Pseudomonas*  
J Zabielska-Matejuk, A Stangierska, A Kropacz, E Kaczorek

IRG/WP 17-50330  
Review of Leaching Experiments of CCA-Treated Wood and Wood Treated with Copper-based Alternatives  
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IRG/WP 17-50331  
Uncertainty in life cycle assessment of preservative treated wood – copper and freshwater ecotoxicity  
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IRG/WP 17-50332  
Exterior paint for the future - Will there be any dry-film preservatives left?  
H Jensen, M Sandve, S M Lystvet

## **Section 6 Other documents**

IRG/WP 17-60412  
Annual Report 2016  
IRG Secretariat

IRG/WP 17-60413  
Agenda 2017 Plenary meeting  
IRG Secretariat

IRG/WP 17-60414  
The IRG48 Scientific Conference on Wood Protection - Poster abstracts  
IRG Secretariat

IRG/WP 17-60415  
Programme. IRG48 Scientific Conference on Wood Protection, 4-8 June 2017  
IRG Secretariat

IRG/WP 17-60416  
Budget for 2017 (forecast June 2017)  
IRG Secretariat

IRG/WP 17-60417  
Budget for 2018  
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