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## APPENDIX

List of technical documents issued by the IRG Secretariat since the last Annual Report

### Working Group Ia

- Isolation and identification of bacteria from degraded wood - a progress report by Jeanette A Drysdale, Pam J Ruland & John A Butcher (1986-02-28) Document No: IRG/WP/192
- An analysis of the effects of some factors on the natural durability of pine (Pinus sylvestris L.) and spruce (Picea abies Karst.) by Julius Boutelje, Thomas Nilsson & Steen Rasmussen (1986-02-26) Document No: IRG/WP/1279
- Soft rot decay of 23 CCA-treated hardwoods from Sabah, Malaysia, in ground contact in Australia by R S Johnstone (1986-02-11) Document No: IRG/WP/1280
- Inhibitory effects of leachates from Scots pine wood on germination of some wood-rotting fungi by Jonny Bjurman (1986-02-26) Document No: IRG/WP/1282
- Ultrastructural observations on wood-degrading erosion bacteria by Geoffrey Daniel & Thomas Nilsson (1986-04-24) Document No: IRG/WP/1283
- On Donkioporia expansa (Desm.) Kotl. & Pouzar by Gustav Buchwald (1986-02-28) Document No: IRG/WP/1285
- Patterns of decay in CCA-treated horticultural post populations - A fungus cellar simulation by Michael E Hedley (1986-03-11) Document No: IRG/WP/1286

- Moisture content levels and decay of hemlock  
by Kentaro Suzuki (1986-03-13) Document No: IRG/WP/1287
- Use of fluorescent-coupled lectins as probes for  
studying fungal degradation of wood by Jeffrey J  
Morrell, Robert L Krahmer & Ling Chwun Lin  
(1986-03-14) Document No: IRG/WP/1288
- Soft rot decay in CCA treated eucalypts in Queensland  
by Liam E Leightley (1986-05-25) Document No: IRG/WP/1301
- The leachability and specificity of the biological  
protection of timber using Scytalidium sp and  
Trichoderma spp by P I Morris, N A Summers & D J  
Dickinson (1986-03-25) Document No: IRG/WP/1302
- Reaction of osmium tetroxide with diphenolic compound  
as a model substance for demethylated lignin by Kurt  
Messner & E Srebotnik (1986-03-14) Document No: IRG/WP/1303
- Mycoparasitism by some white rot fungi on blue stain  
fungi in culture by Riana Benko & Björn Henningsson  
(1986-03-27) Document No: IRG/WP/1304
- Detection of a brown rot fungus using serological  
assays by Barry S Goodell & Jody Jellison  
(1986-03-14) Document No: IRG/WP/1305
- Production of monoclonal antibodies to fungal  
metabolites by Jody Jellison & Barry S Goodell  
(1986-03-14) Document No: IRG/WP/1306
- Lignin degradation by wood-degrading fungi by Pat J  
Harvey, H E Schoemaker & J M Palmer (1986-05-05) Document No: IRG/WP/1310
- Minutes of the meetings held in the Popes' Palace  
Congress Centre, Avignon, France during 26-30 May  
1986 (1986-08-14) Document No: IRG/WP/1312

#### Working Group Ib

- The effect of sapwood on the rate of deterioration  
of fence posts by Messias Soares Cavalcante,  
Gonzales A C Lopez, Elisa S F Mucci & Ricardo G  
Montagna (1986-01-10) Document No: IRG/WP/1277
- Lindane and permethrin tolerances of different  
strains of Lyctus brunneus Steph. by Erwin Graf &  
B Lanz (1986-01-24) Document No: IRG/WP/1278
- The residual effects of remedial timber treatments on  
bats by P A Racey & Susan M Swift (1986-02-28) Document No: IRG/WP/1281
- Pyrethroids : Isomerism and efficacy by R Grüning,  
R Pospischil, S Cymorek & W Metzner (1986-03-06) Document No: IRG/WP/1284

- Evaluation de l'efficacité insecticide de la deltaméthrine et fongicide de son association avec le TCMTB + MBT dans le domaine de la préservation des bois by J S Duguet (1986-03-15) Document No: IRG/WP/1289
- Evaluation of the insecticidal efficacy of deltamethrin and the fungicidal efficacy of its association with TCMTB + MBT in the field wood preservation by J S Duguet (1986-03-15) Document No: IRG/WP/1289E
- Japanese standardized methods for testing effectiveness of chemicals against termite attack by K Tsunoda & K Nishimoto (1986-02-20) Document No: IRG/WP/1290
- Principles behind the laboratory assessment of materials with subterranean termites - Recent perspectives and shifts in emphasis by M Lenz (1986-02-20) Document No: IRG/WP/1291
- Testing of termiticides in soil by a new laboratory method with regard to phoxim for replacement of chlorinated hydrocarbons by R Pospischil (1986-02-28) Document No: IRG/WP/1292
- Laboratory evaluation of chemicals as termiticides by Susan C Jones (1986-03-10) Document No. IRG/WP/1293
- Field testing of soil insecticides as termiticides by Raymond H Beal (1986-03-10) Document No: IRG/WP/1294
- Temperature studies on two mounds of Coptotermes lacteus (Isoptera) by D M Ewart & J R J French (1986-03-17) Document No: IRG/WP/1295
- A case for ecosystem-level experimentation - a discussion paper by J R J French (1986-03-17) Document No: IRG/WP/1296
- Methods for testing fumigant efficacies against termites by Nan-Yao Su & Rudolf H Scheffrahn Document No: IRG/WP/1297
- A critical review of the AWPA standard method (M12-72) for laboratory evaluation to determine resistance to subterranean termites by J P La Fage & M Jones (1986-04-04) Document No: IRG/WP/1298
- European laboratory termite testing by R W Berry (1986-04-18) Document No: IRG/WP/1299
- Termite resistance of treated wood in an above ground field test by Alan F Preston, Peggy A McKaig & Paul J Walcheski (1986-05-20) Document No: IRG/WP/1300
- Comparative evaluation of the barrier effect against Hylotrupes bajulus L. of different types of wood preservative by Marie-Madeleine Serment (1986-03-31) Document No: IRG/WP/1307

- Preliminary testing of an improvised wood preservative mixture applied against dry wood beetles by M O Akanbi, E M Bayode, A A Alabi & J Gbadebo (1986-04-03) Document No: IRG/WP/1308
- Minutes of the meetings held in the Popes' Palace Congress Centre, Avignon, France during 26-30 May 1986 (1986-08-01) Document No: IRG/WP/1313
- Working Group II
- Proposals for further co-operative studies on determining toxic values against wood-destroying Basidiomycetes (amended October 1985) by A F Bravery (Issued only to Sub-group) (1985-10-31) Document No: IRG/WP/2247
- Direct measurement of fluid flow within wood by J P Hösli (1986-01-02) Document No: IRG/WP/2248
- Virulence tests with fungal strains used in EN 113 CEN ring test. Results with Coniophora puteana (Schum. ex Fr.) Karst. by Daniele Dirol (1986-02-20) Document No: IRG/WP/2249
- Alkyl dimethyl benzyl ammonium chloride : toxicity to Coniophora puteana when formulated in water and organic solvent by Derek P Blow (1987-02-17) Document No: IRG/WP/2250
- The use of the Pilodyn for detecting soft-rot decay in CCA treated eucalypt poles by Liam E Leightley & G A Willoughby (1986-03-04) Document No: IRG/WP/2251
- Laboratory tests on artificial weathering of Quercus rubra crossties by P Chow, A J Reinschmidt, E J Barenberg & S L Lewis (1986-03-03) Document No: IRG/WP/2252
- Effects of a chitin synthesis inhibitor on spore germination of the decay fungi Gloeophyllum trabeum and Poria tenuis by Elmer L Schmidt (1986-03-03) Document No: IRG/WP/2253
- Use of the Pilodyn to assess deterioration of treated aspen waferboard after 30 months of outdoor exposure by Elmer L Schmidt & Mark G Dietz (1986-03-03) Document No: IRG/WP/2254
- A technique for the fructification and basidiospore production by Serpula lacrymans (Schum. ex Fr.) SF Gray in artificial culture by Siegfried Cymorek & Bryan Hegarty (1986-03-06) Document No: IRG/WP/2255
- Non-destructive stress wave measurement of decay and termite attack in experimental units by Roy F Pellerin, Rodney C De Groot & Glenn R Esenther (1987-02-28) Document No: IRG/WP/2256

- A standardised procedure for the treatment of timber with test chemicals by J Norton, A Zosars & Liam E Leightley (1986-03-11) Document No: IRG/WP/2257
- Physiological properties of fungal test strains according to the European Standard EN 113 by E Graf, B Zraggen & P Manser (1986-03-13) Document No: IRG/WP/2258
- Factors affecting decay rates in a fungus cellar II by Peggy A McKaig (1986-03-17) + Additional Table (1986-05-26) Document No: IRG/WP/2259
- Resistance to decay of particle boards : Presentation of a test method by Gérard Déon & Lucien Trong (1986-04-01) Document No: IRG/WP/2260
- Study of the natural durability and impregnability of a metropolitan species of tree by M E Mathieu (1986-03-31) Document No: IRG/WP/2261
- Application of a novel strength evaluation technique during screening of wood preservatives by J N R Ruddick (1986-03-24) Document No: IRG/WP/2262
- Temperature influence on the growing velocity and cellulolytic activities of Poria placenta strains from several locations by Angeles Navarrete & M T de Troya (1986-04-10) Document No. IRG/WP/2263
- Investigation on different variation factors in the results of mycological test and means to reduce and avoid them by Daniele Dirol (1986-04-16) Document No: IRG/WP/2264
- Proposals for collaborative work on laboratory soft rot testing by D J Dickinson (1986-04-18) Document No: IRG/WP/2265
- Rapport sur l'activité du Comité CEN/TC 38 "Méthodes d'essais des produits de préservation des bois" du Comité Européen de Normalisation (CEN) by Gérard Castan (1986-04-21) Document No: IRG/WP/2266
- Virulence testing of cultures of different origins of the test fungus Coriolus versicolor strain CTB 863 A by Waltraut Kerner (1986-04-21) Document No: IRG/WP/2267
- A deflection test for monitoring decay in miniature beams by Scarlette M Gray (1986-04-30) Document No: IRG/WP/2269
- Effect of soil type and moisture content on soft rot testing by Scarlette M Gray (1986-04-30) Document No: IRG/WP/2270
- Results of co-operative studies on determining toxic values against wood-destroying Basidiomycetes - Preliminary report to Sub-group members by A F Bravery & Janice K Carey (1987-04-14) Document No: IRG/WP/2271

- Co-operative research project on L-joint testing - Progress Report to March 1986 by Janice K Carey & A F Bravery (1986-04-14) Document No: IRG/WP/2272
- Minutes of the meetings held in the Popes' Palace Congress Centre, Avignon, France during 26-29 May 1986 (1986-08-12) Document No: IRG/WP/2273
- Working Group III
- Production of treated wood in Brazil in 1984 by Messias Soares Cavalcante (1985-11-26) Document No: IRG/WP/3357
- A new ground-contact wide-spectrum organic wood preservative: DNBP by W E Conradie & A Pizzi (1986-01-27) Document No: IRG/WP/3358
- Polyflavonoid tannins - from a cause of CCA soft-rot failure to the "missing link" between lignin and microdistribution theories by A Pizzi, W E Conradie & M Bariska (1986-01-27) Document No: IRG/WP/3359
- Preservacion de maderas en Bolivia by Silverio Viscarra A. (In Spanish) (1986-02-15) Document No: IRG/WP/3360
- Pentachlorophenol and tributyltin oxide - the performance of treated Pinus radiata after 12 years' exposure by R S Johnstone (1986-02-11) Document No: IRG/WP/3361
- Co-operative field experiment. Performance of preservative-treated timber. Report on condition of specimens after seven years installed in New South Wales - Australia by R S Johnstone (1986-01-10) Document No: IRG/WP/3362
- Performance results of wood treated with CCA-PEG by William P Trumble & Edward E Messina (1986-02-21) Document No: IRG/WP/3363
- Long-term effectiveness of fumigants in controlling decay in Douglas fir waterfront timbers by Terry L Highley (1986-02-25) Document No: IRG/WP/3364
- Efficacy of fumigants in the eradication of decay fungi implanted in southern pine timbers by Terry L Highley & Wallace E Esllyn (1986-02-27) Document No: IRG/WP/3365
- Retention and distribution of copper/chrome/arsenic (CCA) in pressurised sap-displaced U.K. grown spruce and pine by P D Evans, G M Smith & B King (1986-03-03) Document No: IRG/WP/3366
- Anti-sapstain chemicals for diffusion treatment of rubber wood by R Gnanaharan (1986-02-26) Document No: IRG/WP/3367
- A field test with anti-sapstain chemicals on sawn timber in Finland by Leena Paaajanen (1986-02-20) Document No: IRG/WP/3368

- Selecting fumigants for treatment of internal decay in wood by Paul A Cooper (1986-02-28) Document No: IRG/WP/3370
- Fixation of CCA preservatives in cocos-, oil- and rattan-palm by Hubert Willeitner & Karin Brandt (1986-03-01) Document No: IRG/WP/3371
- Bioaccumulation of pentachlorophenol in rainbow trout and zebra fish muscles by J C Palla and Monique Dion (1986-03-07) Document No: IRG/WP/3372
- Di-sodium fluorophosphate, a new fluorine containing, water-borne wood preservative by D Seepe & W Metzner (1986-03-06) Document No: IRG/WP/3373
- An evaluation of anti-sapstain chemicals in Queensland, Australia by Liam E Leightley (1986-03-11) Document No: IRG/WP/3374
- A field trial to assess the potential of antisapstain chemicals for long-term protection of sawn radiata pine by Jeanette A Drysdale (1986-03-11) Document No: IRG/WP/3375
- A comparative field test of the effectiveness of antisapstain treatments on radiata pine roundwood by Jeanette A Drysdale & Rosalie M Keirle (1986-03-11) Document No: IRG/WP/3376
- An evaluation of chemical treatments for the protection of radiata pine logs from fungal degrade by Jeanette A Drysdale, Michael E Hedley & John A Butcher (1986-03-11) Document No: IRG/WP/3377
- Resin bleed after light organic solvent preservative treatment - the effect of drying method and process type by P Vinden (1986-03-11) Document No: IRG/WP/3378
- Light organic solvent preservative treatment schedules for New Zealand-grown radiata pine by P Vinden (1986-03-11) Document No: IRG/WP/3379
- Light organic solvent preservative treatment of glue-laminated radiata pine by P Vinden (1986-03-11) Document No: IRG/WP/3380
- Application of paint primers after light organic solvent preservative treatment by P Vinden (1986-03-11) Document No: IRG/WP/3381
- Laboratory evaluation of water repellents as antisapstain treatment additives by David V Plackett & Colleen M Chittenden (1986-03-14) Document No: IRG/WP/3382
- Weathering trials on natural wood finishes in New Zealand by David V Plackett & Colleen M Chittenden (1986-03-14) Document No: IRG/WP/3383

- Studies on the fungicidal effectiveness of a petrol derived product as a creosote alternative by Angeles Navarrete & M T de Troya (In Spanish) 1986-03-17) Document No: IRG/WP/3384
- English version of Document No: IRG/WP/3384 (1986-03-26) Document No: IRG/WP/3384E
- Field fencepost tests of several species treated with waterborne preservatives by rural methods by M V Baonza M. (In Spanish) (1986-03-17) Document No: IRG/WP/3385
- English version of Document No: IRG/WP/3385 (1986-03-26) Document No: IRG/WP/3385E
- Creosote immersion treatments of fence-posts of different pines by C de Arana M. (1986-03-26) Document No: IRG/WP/3386
- The influence of formulation on the behaviour of LOSP's during industrial impregnation by L D A Saunders & D M Zuvcenko (1986-03-27) Document No: IRG/WP/3387
- Remedial ground-line treatment of CCA poles in service. Results of chemical and microbiological analyses 6 months after treatment by Björn Henningsson, Henning Friis-Hansen, Aino Käärik & Marie-Louise Edlund (1986-03-27) Document No: IRG/WP/3388
- Wood preservation in France. A statement of quality control early 1986 by Monique Romeis & Gérald Ozanne (1986-04-04) Document No: IRG/WP/3389
- The effectiveness of three tributyltin compounds in beech against soft rot fungi using a soil-bed technique : a preliminary report by Robin Hill, Anne H Chapman, Bhagwati Patel & Areila Samuel (1986-04-07) Document No: IRG/WP/3390
- Hardwood Field Experiment: Progress Report 1977 - 1986 by D J Dickinson & Scarlett M Gray (Issued only to Sub-group 1 Members) Document No: IRG/WP/3391
- A new approach to the maintenance problems of wooden railway sleepers by W Beauford & P I Morris (1986-04-15) Document No: IRG/WP/3392
- Accelerated diffusion treatment of sawn Sitka spruce grown in the U.K. by R I Murphy & D J Dickinson (1986-05-16) Document No: IRG/WP/3395
- Tributyltin compounds in wood preservation: health and safety aspects by H Schweinfurth, P Günzel, H Landsiedel, R Lang, R Reimann, Chr Schöbel & F Siegmund (1986-05-20) Document No: IRG/WP/3396
- Minutes of the meetings held in the Popes' Palace Congress Centre, Avignon, France during 26-30 May 1986 (1986-07-24) Document No: IRG/WP/3397



#### Working Group IV

- IRG/COIPM International Marine test on the effect of timber substrate on the effectiveness of water-borne salt preservatives in sea-water Progress Report 22. Report on the condition of specimens at Sekondi, Ghana after 60 months by  
F F K Ampong & N Asare-Nyadu (1986-02-27) Document No: IRG/WP/4123
- An appraisal of the vertical distribution of attack of untreated and treated wood by warm water sphaeromatids at some tropical sites - a discussion paper by John E Barnacle,  
Laurie J Cookson & Chris N McEvoy (1986-02-28) Document No: IRG/WP/4124
- The evaluation of non-rubber extractives from the guayule plant (Parthenium argentatum Gray) for pesticidal worth by John D Bultman, R H Beal,  
C A Bailey & W W Schloman (1986-03-25) Document No: IRG/WP/4125
- Report on International Conference on Marine Biodeterioration, Goa, India, January 1986 by  
Simon M Cragg (1986-04-30) Document No: IRG/WP/4127
- Marine trials with water-borne salts and organotin compounds by Anna Gambetta & Elisabetta Orlandi  
(1986-05-05) Document No: IRG/WP/4128
- Evaluation of polystyrene as a protective of wood in sea-water by Anna Gambetta (1986-05-05) Document No: IRG/WP/4129
- Information from the COIPM Wood Group by  
Anna Gambetta (1986-05-07) Document No: IRG/WP/4130
- Minutes of the 13th Joint Meeting with the COIPM Wood Group held at Popes' Palace Congress Centre, Avignon, France on 26 & 29 May 1986 (1986-07-14) Document No: IRG/WP/4131
- CEN Draft (38 N 460E) Standard Test Method for determining the protective effectiveness of a preservative in the marine environment  
(from Gérald Castan) (1986-09-25) Document No: IRG/WP/4132
- CEN Draft Standard (38 N 406F) French Version of  
Document No: IRG/WP/4132 Méthode d'essai pour  
determiner l'efficacité d'un produit de préservation  
du bois en milieu marin (1986-09-25) Document No: IRG/WP/4132F

## Other Documents

- The Fifteenth Annual Report of the International Research Group on Wood Preservation 1985-1986 by R Cockcroft (1986-03-31) Document No: IRG/WP/5243
- Financial statement for the year ending 31 December 1985 by Henning Friis-Hansen (1986-02-12) Document No: IRG/WP/5247
- IRG Foundation Fund Report for 1985 by Björn Henningsson & Henning Friis-Hansen (1986-02-17) Document No: IRG/WP/5248
- Abstracts of posters for IRG 17 Meeting (1986-04-17) Document No: IRG/WP/5252
- Seventeenth Annual Meeting. Minutes of the Plenary Meeting held at the Popes' Palace Congress Centre, Avignon, France during 26-30 May 1986 (1986-07-08) Document No: IRG/WP/5267
- Rules for authors of IRG Documents (1986-09-23) Document No: IRG/WP/5269
- IRG and its Members and Sponsors (1986-11-01) Document No: IRG/WP/5275
- Statutes ratified 30 May 1986 (1986-11-10) Document No: IRG/WP/5276
- Abstracts of some papers promised for IRG 18 (1987-02-09) Document No: IRG/WP/5279