

## Publications, outreach and technology transfer

### Formal publications

---

#### *Book chapters*

- Bailey JK, Schweitzer JA, Úbeda F, O'Reilly-Wapstra J, Pregitzer CC, Rehill BJ, LeRoy CJ, Potts BM, Whitham TG, Genung M, Keith A, Matt Z, Fitzpatrick B, Fischer DG (in press) From genes to ecosystems: emerging concepts bridging ecological and evolutionary dynamics. In 'The Ecology of Plant Secondary Metabolites: from Genes to Landscapes' (eds GR Iason, M Dicke, SE Hartley). (Cambridge University Press: Cambridge).
- O'Reilly-Wapstra J, McArthur C, Potts BM (in press) Selection for anti-herbivore plant secondary metabolites: a Eucalyptus system. In 'The Ecology of Plant Secondary Metabolites: from Genes to Landscapes' (eds GR Iason, M Dicke, SE Hartley). (Cambridge University Press: Cambridge).
- Schirmer J (in press) Social impacts of land use change. In 'New Directions in Social Impact Assessment: Conceptual and Methodological Advances' (eds F Vanclay, AM Esteves). (Edward Elgar: Cheltenham).
- Smethurst P, Petrone K, Neary D (2011) Understanding the effectiveness of vegetated streamside management zones for protecting water quality. In 'Landscape Logic: Pattern, People and Process in Landscape Management' (eds Lefroy T, Curtis A, Jakeman T, McKee J) in press (CSIRO: Collingwood).

#### *Articles in scholarly refereed journals*

- Acuna M, Palma C, Cui, Martell D, Weintraub A (2010) Integrated spatial fire and forest management planning. *The Canadian Journal of Forest Research* **40**, 2370–2383.
- Agostini C, Agudelo PA, Bâ K, Barber PA, Bisol PM, Brouat C, Burgess TI, Calves I, Carrillo Avila M, Chow S, Cordes L, Da Silva D, Dalecky A, De Meester L, Doadrio I, Dobigny G, Duplantier JM, Evison SEF, Ford R, Fresneau D, Galetti Jr PM, Gauthier P, Geldof S, Granjon L, Guérin F, Hardy GES, Hernandez Escobar C, Hima K, Hu J, Huang L, Humeau L, Jansen B, Jacquemet S, Jiang Z-Q, Jung S-J, Kim B-S, Kim C-H, Kim J-O, Lai C-H, Laroche F, Lavergne E, Lawton-Rauh A, Le Corre M, Leach MM, Lee J, Leo AE, Lichtenzweig J, Lin L, Linde CC, Liu S-F, Marino IAM, McKeown NJ, Nohara K, Oh M-J, Okamoto H, Oliver R, Olivera Angel M, Ornelas-García CP, Orsini L, Ostos Alfonso H, Othman AS, Papetti C, Patarnello T, Pedraza-Lara C, Piller KR, Poteaux C, Requier J-B, Roziana MK, Semba Y, Sembene M, Shah RM, Shahril AR, Shao A, Shaw PW, Song L, Ferreira R, Su YQ, Suzuki N, Tatarski C, Taylor KM, Taylor PWJ, Thiam M, Valbuena R, Wang H, Yang B-G, Yuan Q, Zajonz U, Zane L, Zhu L, Zhuang Z-M, R. ZA (2011) Permanent genetic resources added to molecular ecology resources database 1 October 2010–30 November 2010. *Molecular Ecology Resources* **11**, 418–421.
- Almeida A, Siggins A, Smethurst P, Silva CVJ, Baillie C (2010) Establishment of experimental catchments to quantify water use by different vegetation types. *Ambiência - Revista do Setor de Ciências Agrárias e Ambientais* **6**, 137–150.
- Anderson C, Schirmer J, Abjorensen N (2011) Exploring CCS community acceptance and public participation from a human and social capital perspective. *The Journal for Mitigation and Adaptation Strategies for Global Change*. DOI 10.1007/s11027-011-9312-z (in press).
- Archibald RD, Craig MD, Burgess TI, Hardy GESJ (2010) Bird communities in small native remnants of contrasting understorey condition within blue gum plantations. *Ecological Management & Restoration* **11**, 215–217.

- Archibald RD, Craig MD, Bialkowski K, Howe C, Burgess TI, Hardy GESJ (2011) Managing small remnants of native forest to increase biodiversity within plantation landscapes in the south west of Western Australia. *Forest Ecology and Management* **261**, 1254–1264.
- Barbour RC, Wise SL, McKinnon, GE, Vaillancourt RE, Williamson, GJ, Potts BM (2010) The potential for gene flow from exotic eucalypt plantations into Australia's rare native eucalypts. *Forest Ecology and Management* **260**, 2079–2087.
- Bashford R, Ramsden N (2011) The effect of a new pitfall trap design on the capture and abundance of three arthropod taxa. *Australian Entomologist* **38(2)**: 49–62.
- Battaglia M, Pinkard E, Sands PJ, Bruce J, Quentin AG (2011) Modelling the impact of defoliation and leaf damage on forest plantation function and production. *Ecological Modelling* (in press).
- Benyon RG, Haydon S, Vertessy RA, Hatton T, Kuczera G, Feikema PM, Lane PNJ (2010) Comment on Wood *et al.* (2008) Impacts of fire on forest age and runoff in mountain ash forests. *Functional Plant Biology* **37**, 1187–1191.
- Berndt LA, Allen GR (2010) Biology and pest status of *Uraba lugens* Walker (Lepidoptera: Nolidae) in Australia and New Zealand. *Australian Journal of Entomology* **49(3)**, 268–277.
- Blackburn D, Harwood C, Innes T, Williams D (2011) Improved methods for achieving traceability of tree and log identities in timber processing studies. *Forest Products Journal* **60**, 689–693.
- Bloomfield JA, Nevill P, Potts BM, Vaillancourt RE, Steane DA (2011) Molecular genetic variation in a widespread forest tree species, *Eucalyptus obliqua* (Myrtaceae) on the island of Tasmania. *Australian Journal of Botany* **59**, 226–237.
- Bradbury GJ, Potts, BM, Beadle CL, Dutkowski G, Hamilton M (2011) Genetic and environmental variation in wood colour of Australian blackwood (*Acacia melanoxylon* R. Br.). *Holzforschung* (in press).
- Bradbury GJ, Beadle CL, Potts BM (2010) Genetic control of survival, growth and form of Australian blackwood. *New Forests* **39**, 139–156.
- Bradbury GJ, Potts BM, Beadle CL, Hamilton M, Dutkowski G (2011) Genetic and environmental variation in heartwood colour of *Acacia melanoxylon*. *Holzforschung* **63(3)**, 349–359.
- Browning BJ, Jordan GJ, Dalton PJ, Grove SJ, Wardlaw TJ, Turner PAM (2010) Succession of mosses, liverworts and ferns on coarse woody debris, in relation to forest age and log decay in Tasmanian wet eucalypt forest. *Forest Ecology and Management* **260**, 1896–1905.
- Carnegie AJ, Pegg GS, White D, Burgess TI (2011) Species within Mycosphaerellaceae and Teratosphaeriaceae from eucalypts in eastern Australia. *Australasian Plant Pathology*. DOI 10.1007/s13313-13011-10049-13317 (in press).
- Cawthen L, Munks SA (2011) The design and testing of linen thread weak-links in brushtail possum radio-collars. *Australian Mammalogy*, **33**, 33–35.
- Close DC, Davidson NJ, Swanborough P (2011) Fire history and understorey vegetation: water and nutrient relations of *E. delegatensis* and *E. gomphocephala* overstorey trees. *Forest Ecology and Management* (in press).
- Close DC, Davidson NJ, Corkrey SR, Churchill KC (2010) Can climate at the seed-source predict the success of eucalypts planted on sites that have been grazed for over 100 years? *Forest Ecology and Management* **259**, 1025–1032.
- Collett NG, Fagg PC (2010) Insect defoliation of mixed-species eucalypts in East Gippsland. *Australian Forestry* **73**, 81–90.

- Costa e Silva J, Hardner C, Tilyard P, Pires A, Potts BM (2010) Effects of inbreeding on population mean performance and observational variances in *Eucalyptus globulus*. *Annals of Forest Science* **67**, 606p1–606p8.
- Costa e Silva J, Hardner C, Potts BM (2010) Genetic variation and parental performance under inbreeding for growth in *Eucalyptus globulus*. *Annals of Forest Science* **67**, 605p1–605p9.
- Costa e Silva J, Hardner C, Tilyard P, Potts BM (2011) The effects of age and environment on the expression of inbreeding depression in an Australian forest tree. *Heredity* doi:10.1038/hdy.2010.154 (in press).
- Dare M, Vanclay F, Schirmer J (2011) Understanding community engagement in plantation forest management: Insights from practitioner and community narratives. *Journal of Environment Management and Planning* (in press).
- Dare M, Schirmer J, Vanclay F (2011) Does forest certification enhance community engagement in Australian plantation management? *Forest Policy and Economics* **13**, 328–337.
- Downes GM, Meder R, Harwood CE (2011) A multi-site, multi-species NIR calibration for the prediction of cellulose content in eucalypt woodmeal. *Journal of Near Infrared Spectroscopy* **18**, 381–387.
- Drake PL, Mendham DS, White DA, Ogden GN, Dell B (2011) Water use and water-use efficiency of coppice and seedling *Eucalyptus globulus* Labill.: a comparison of stand-scale water balance components. *Plant and Soil* (in press).
- Drew DM, Downes GM, Evans R (2011) Short-term growth responses and wood density variation in variously irrigated *Eucalyptus globulus*. *Trees: Structure and Function* **25**, 153–16.
- Drew DM, Downes GM and Battaglia M (2010) CAMBIUM, a process-based model of daily xylem development in *Eucalyptus*. *Journal of Theoretical Biology* **264**, 395–406.
- Eyles A, Smith D, Pinkard E, Smith I, Corkrey R, Elms S, Mohammed C (2011) Photosynthetic responses of field-grown *Pinus radiata* trees to artificial and aphid-induced defoliation. *Tree Physiology* (in press).
- Eyles A, Robinson AP, Smith D, Carnegie A, Smith I, Stone C, Mohammed C (2011) Quantifying the growth loss in *Pinus radiata* plantation trees to repeated aphid attack by *Essigella californica*. *Forest Ecology and Management* **261**, 120–127.
- Farrell, R, Innes, T, Harwood C (2012) Sorting plantation *Eucalyptus nitens* logs using acoustic wave velocity. *Australian Forestry Journal* (in press).
- Feikema PM, Sheridan GJ, Argent RM, Lane PNJ, Grayson RB (2011) Estimating catchment-scale impacts of wildfire on sediment and nutrient loads using the E2 catchment modelling framework. *Environmental Modelling and Software* **26**, 913–928.
- Flynn EM, Munks SA, Jones SM (2011) Influences of forest type and disturbance on reproduction of the brushtail possum (*Trichosurus vulpecula*). *Journal of Mammalogy* **92(5)** (in press).
- Flynn EM, Jones SM, Jones ME, Jordan GJ, Munks SA (2011) Characteristics of mammal communities in Tasmanian forests: exploring the influence of forest type and disturbance history. *Wildlife Research* **38**, 13–29.
- Gates GM, Mohammed C, Ratkowsky DA, Wardlaw T, Davidson NJ (2011) Diversity and ecology of epigeous ectomycorrhizal macrofungal assemblages in a native wet eucalypt forest in Tasmania, Australia. *Fungal Ecology* **4**, 290–298.
- Gates GM, Mohammed C, Wardlaw T, Davidson NJ, Ratkowsky DA (2011) Diversity and phenology of the macrofungal assemblages supported by litter in a tall, wet *Eucalyptus obliqua* forest in southern Tasmania, Australia. *Fungal Ecology* **4**, 68–75.

- Gates GM, Mohammed C, Wardlaw T, Ratkowsky DA, Davidson NJ (2011) The ecology and diversity of wood-inhabiting macrofungi in a native *Eucalyptus obliqua* forest of southern Tasmania, Australia. *Fungal Ecology* **4**, 56–67.
- Ghaffariyan MR, Sessions J (2011) Error impact of regression models on forest road spacing. *Silva Balcanica* **12(1)**, 97–111 (in press).
- Ghaffariyan M (2010) Review of European biomass harvesting technologies. *Silva Balcanica* **11(1)**, 5–20.
- Grosser C, Vaillancourt RE, Potts BM (2010) Microsatellite based paternity analysis in a clonal *Eucalyptus nitens* seed orchard. *Silvae Genetica* **59**, 57–62.
- Grove SJ, Forster L (2011) A decade of change in the saproxylic beetle fauna of eucalypt logs in the Warra long-term log-decay experiment, Tasmania. 1. Description of the fauna and seasonality patterns. *Biodiversity and Conservation* **20**, 2149–2165.
- Grove SJ, Forster L (2011) A decade of change in the saproxylic beetle fauna of eucalypt logs in the Warra long-term log-decay experiment, Tasmania. 2. Log-size effects, succession, and the functional significance of rare species. *Biodiversity and Conservation* **20**, 2167–2188.
- Grove SJ (2011) How well does a log decay-class system capture the ecology of decomposition? A case study from Tasmanian *Eucalyptus obliqua* forest. *Forest Ecology and Management* **262**, 692–700.
- Hamilton MG, Tilyard PA, Williams DR, Vaillancourt RE, Wardlaw TJ, Potts BM (2011) The genetic variation in the timing of heteroblastic transition in *Eucalyptus globulus* is stable across environments. *Australian Journal of Botany* **59**, 170–175.
- Hamilton MG, Tilyard PA, Williams DR, Vaillancourt RE, Wardlaw TJ, Potts BM, Iason GR, O'Reilly-Wapstra JM, Brewer MJ, Summers RW, Moore BD (2011) Do multiple herbivores maintain chemical diversity of Scots pine monoterpenes? *Philosophical Transactions of the Royal Society B: Biological Sciences* **366**, 1337–1345.
- Horton BM, Close DC, Wardlaw TJ, Davidson NJ (2010) Crown condition assessment: an accurate, precise and efficient method with broad applicability to Eucalyptus. *Austral Ecology*, DOI: 10.1111/j.1442-9993.2010.02206.x (in press).
- Hunter GC, Crous PW, Carnegie AJ, Burgess TI, Wingfield MJ (2011) *Mycosphaerella* and *Teratosphaeria* diseases of *Eucalyptus*: Easily confused and with serious consequences. *Fungal Diversity* (in press).
- Jaskierniak D, Lane PNJ, Robinson A, Lucieer A (2011) Extracting LiDAR indices to characterize multilayered forest structure using mixture distributions. *Remote Sensing of the Environment* **115**, 573–585.
- Jones RC, Vaillancourt RE, Gore PL, Potts BM (2011) Genetic and environmental control of flowering time in *Eucalyptus globulus* ssp. *globulus*. *Tree Genetics and Genomes* (in press).
- Koch AJ, Baker SC (2011) Using aerial photographs to remotely assess tree hollow availability. *Biodiversity and Conservation* **20**, 1089–1101.
- Kriticos DJ, Watt MS, Potter KJB, Manning LK, Alexander NS, Tallent-Halsell N (2010) Managing invasive weeds under climate change: considering the current and potential future distribution of *Buddleja davidii*. *Weed Research* **51**, 85–96.
- Lane SE, Robinson A, Baker T (2010) The functional regression tree method for diameter distribution modelling. *Canadian Journal of Forest Research* **40**, 1870–1877.
- Lane SE, Robinson A (2011) An alternative objective function for fitting regression trees to functional response variables. *Computational Statistics and Data Analysis* **55**, 2557–2567.

- Lazaridis DC, Verbesselt J, Robinson AP (2011) Penalized regression techniques for prediction: a case study for predicting tree mortality using remotely sensed vegetation indices, *Canadian Journal of Forest Research* **41**(1), 24–34.
- Leys AJ, Vanclay JK (2011) Social learning: a knowledge and capacity building approach for adaptive co-management of contested landscapes. *Land Use Policy* **28**(3), 574–584.
- Leys AJ, Vanclay JK (2010) Land-use change conflict arising from plantation forestry expansion: views across Australian fence-lines. *International Forestry Review* **12**(3), 256–269.
- Loxton EA, Schirmer J, Kanowski P (2011) Employment of Indigenous Australians in the forestry sector: a case study from North Queensland. *Australian Forestry* (in press).
- Mann AN, O'Reilly-Wapstra JM, Iason GR, Sanson G, Davies NW, Tilyard P, Williams D, Potts BM (2011) Mammalian herbivores reveal marked genetic divergence between populations of an endangered plant species. *Oikos* (in press).
- Mendham DS, White DA, Battaglia M, McGrath JF, Short TM, Ogden GN, Kinal J (2011) Soil water depletion and replenishment during first- and early second-rotation *Eucalyptus globulus* plantations with deep soil profiles. *Agricultural and Forest Meteorology* (in press).
- Miller AM, O'Reilly-Wapstra J, Potts BM, McArthur C (2011) Repellent and stocking guards reduce mammal browsing in eucalypt plantations. *New Forests* (in press).
- Miller AM, O'Reilly-Wapstra J, Potts BM, McArthur C (2011) Field screening for genetic-based susceptibility to mammalian browsing. *Forest Ecology and Management* (in press).
- Moroni, MT, Kelley TH, McLarin ML (2010) Carbon in trees in Tasmanian State forest. *International Journal of Forestry Research* 2010, Article ID 690462, 13 pp. doi:10.1155/2010/690462.
- Murphy G, Acuna M, Dumbrell I (2010) Tree value and log product yield determination in Radiata pine plantations in Australia: Comparisons of terrestrial laser scanning with a forest inventory system and manual measurements. *The Canadian Journal of Forest Research* **40**, 2223–2233.
- Nyman P, Sheridan GJ, Smith HG, Lane PNJ (2011) Evidence of debris flow occurrence after wildfire in upland catchments of south east Australia. *Geomorphology* **125**, 282–401.
- O'Grady AP, Eyles A, Worledge D, Battaglia M (2010) Seasonal patterns of foliage respiration in dominant and suppressed *E. globulus* canopies. *Tree Physiology* **30**, 957–968.
- O'Reilly-Wapstra JM, Freeman JS, Davies NW, Vaillancourt RE, Fitzgerald H, Potts BM (2011) Quantitative trait loci for foliar terpenes in a global eucalypt species. *Tree Genetics and Genomes* **7**, 485–498.
- Othman RJA, Jordan GJ, Worth JRP, Steane DA, Duretto MF (2010) Phylogeny and infrageneric classification of *Correa* Andrews (Rutaceae) based on nuclear and chloroplast DNA. *Plant Systematics and Evolution* **288**, 127–138.
- Pinkard E, Kriticos DJ, Wardlaw T, Carnegie A, Leriche A (2010) Estimating the spatio-temporal risk of disease epidemics using a bioclimatic niche model. *Ecological Modelling* **221**, 2828–2838.
- Pinkard E, Battaglia M, Roxburgh SH, O'Grady AP (2011) Estimating forest net primary production under changing climate: adding pests into the equation. *Tree Physiology* (in press).
- Pinkard E, Eyles A, O'Grady AP (2011) Gas exchange responses of *Eucalyptus globulus* to abiotic stress and defoliation linked to source-sink relationships. *Plant Cell Environment* (in press).
- Quentin AG, O'Grady AP, Beadle C, Worledge D, Pinkard E (2011) Responses of transpiration and canopy conductance to partial defoliation of *Eucalyptus globulus* trees. *Agricultural and Forest Meteorology* **151**, 356–364.

- Quentin AG, Beadle CL, O'Grady AP, Pinkard E (2011). Effects of partial defoliation on closed canopy *Eucalyptus globulus* Labillardiere: Growth, biomass allocation and carbohydrates. *Forest Ecology and Management* **261**, 695–702.
- Sanger JC, Davidson NJ, O'Grady AP, Close DC (2011) Are the patterns of regeneration in the endangered *Eucalyptus gunnii* sub sp *divaricata*, shifting in response to climate? *Austral Ecology* DOI: 10.1111/j.1442-9993.2010.02194.x (in press).
- Sansaloni CP, Petroli CD, Carling J, Hudson CJ, Steane DA, Myburg AA, Grattapaglia D, Vaillancourt RE, Kilian A (2010) A high-density Diversity Arrays Technology (DArT) microarray for genome-wide genotyping in *Eucalyptus*. *Plant Methods* **6**,16.
- Schirmer J (2011) Scaling up: Assessing social impacts at the macro-scale. *Environmental Impact Assessment Review* **31**, 382–391.
- Sexton T (2010) Genetic association studies in *Eucalyptus pilularis* Smith (Blackbutt). *Australian Forestry Journal* **73(4)**, 254–258.
- Shepherd M, Henson M, Lee DJ (2011) Revisiting genetic structuring in spotted gums (Genus *Corymbia* Section Politaria) focusing on *C. maculata*, an early diverged, insular lineage. *Tree Genetics and Genomes* (in press).
- Smith HG, Sheridan GJ, Lane PNJ, Bren LJ (2011) Wildfire and salvage harvesting effects on runoff generation and sediment exports from radiata pine and eucalypt forest catchments, south-eastern Australia. *Forest Ecology and Management* **261**, 570–581.
- Smith HG, Sheridan GJ, Lane PNJ, Noske PJ, Heijnis H (2011) Changing sediment sources following wildfire in a forested upland catchment, southeastern Australia. *Hydrological Processes* (in press).
- Smith HG, Sheridan GJ, Lane PNJ, Nyman P, Haydon SH (2011) Wildfire effects on water quality in forest catchments: a review with implications. *Journal of Hydrology* **396**, 170–192.
- Southerton SG, Macmillan CP, Bell JC, Bhuiyan N, Downes G, Ravenwood IC, Joyce KR, Williams D, Thumma BR (2011) Association of allelic variation in xylem genes with wood properties in *Eucalyptus globulus*. *Australian Forestry Journal* **73(4)**, 259–264.
- Stackpole DJ, Joyce K, Potts BM, Harwood CE (2010) Correlated response of pulpwood profit traits following differential fertilisation of a *Eucalyptus nitens* clonal trial. *New Zealand Journal of Forestry Science* **40**, 163–173.
- Stackpole D, Vaillancourt R, Alves A, Rodruiguez J, Potts B (2011) Genetic Variation in the Chemical Components of *Eucalyptus globulus* Wood. *Genes, Genomes, Genetics* **1(2)**, 151–159.
- Steane DA, Nicolle D, Sansaloni CP, Petroli CD, Carling J, Kilian A, Myburg AA, Grattapaglia D, Vaillancourt RE (2011) Population genetic analysis and phylogeny reconstruction in *Eucalyptus* (Myrtaceae) using high-throughput, genome-wide genotyping. *Molecular Phylogenetics and Evolution* **59**, 206–224.
- Steane DA, Myburg AA, Sansaloni C, Petroli C, Grattapaglia D, Kilian A, Vaillancourt RE (2011) DArT arrays for genetic mapping and diversity analysis of *Eucalyptus*. *Molecular Phylogenetics and Evolution* **59**, 206–224.
- Taylor K, Andjic V, Barber PA, Hardy GESJ, Burgess TI (2011) New species of *Teratosphaeria* associated with leaf diseases on *Corymbia calophylla* (Marri). *Mycological Progress* (in press) DOI: 10.1007/s11557-11011-10738-11551.
- Taylor KM, Barber PA, Hardy GES, Burgess TI (2010) Isolation and characterisation of polymorphic microsatellite loci in *Teratosphaeria cryptica*, a destructive foliar pathogen of *Eucalyptus* spp.. *Molecular Ecology Resources Primer Database*: biomath.trinity.edu/manuscripts/11-12/mer-10-0430.pdf.

- Thavamanikumar S, McManus LJ, Tibbits J, Bossinger G (2011) The significance of Single Nucleotide Polymorphisms (SNPs) in *Eucalyptus globulus* breeding programs. *Australian Forestry Journal* **74**(1), 23–29.
- Thumma B, Matheson BA, Zhang D, Meeske C, Meder R, Downes GM, Southerton SG (2009) Identification of a cis-acting regulatory polymorphism in eucalypt cobra-like gene affecting cellulose content. *Genetics* **183**, 1153–1164.
- Valencia J, Harwood C, Washusen R, Morrow A, Wood M, Volker P (2011) Longitudinal growth strain as a log and wood quality predictor for plantation-grown *Eucalyptus nitens* sawlogs. *Wood Science and Technology* **45**, 15–34.
- Walker PW, Allen GR (2010) Mating frequency and reproductive success in an income breeding moth: *Mnesampela privata* (Lepidoptera: Geometridae). *Entomologia Experimentalis et Applicata* **136**(3), 290–300.
- Walker PW, Allen GR (2011) Delayed mating and reproduction in the autumn gum moth, *Mnesampela privata*. *Agricultural and Forest Entomology* (in press).
- Wang Y, Lemay V, Baker T (2011) Modelling growth responses of individual trees to early-age thinning *Eucalyptus globulus*, *E. nitens* and *E. grandis* plantations in Victoria. *Australian Forestry Journal* **74**(1), 62–72.
- Watt M, Kriticos D, Potter K, Manning L, Tallent-Halsell N, Bourdôt G (2010) Using species niche models to inform strategic management of weeds in a changing climate. *Biological Invasions* **12**, 3711–3725.
- Whyte G, Howard K, Hardy GESJ, Burgess TI (2011) Foliar pests and pathogens of *Eucalyptus dunnii* plantations in southern Queensland. *Australian Forestry* (in press).
- Wiersma J, Koch AJ (2011) Examining nest characteristics to assess the success of Tasmanian wedge-tailed eagle nests. *Corella* (in press).
- Williams KJH (2011) Relative acceptance of traditional and non-traditional rural land uses: Views of residents in two regions, southern Australia. *Landscape and Urban Planning* (in press).

#### *Full written conference papers – refereed proceedings*

- Acuna M (2010) Wood properties and use of NIR spectroscopy and terrestrial LiDAR to improve optimal bucking and wood value recovery. XXIII IUFRO World Congress, Seoul, South Korea, 23–28 August 2010.
- Baxter M, Brown M, Gan H-S (2010) A decision-support tool for equipment replacement in forestry harvesting operations. 45th Annual ORSNZ Conference, University of Auckland, New Zealand, 28–30 November 2010.
- Baral H, Kasel S, Keenan R, Fox J, Stork N (2009) GIS-based classification, mapping and valuation of ecosystem services in production landscapes: A case study of the Green Triangle region of south-eastern Australia. In: 'Forestry: a climate of change' (eds R Thistlethwaite, D Lamb, R Haines) pp. 64–71. Proceedings of 2009 IFA Conference, Caloundra, Australia, 6–10 September 2009.
- Brown M, Walsh D (2010) Potential economic impact of high productivity vehicles for woodchip transport in Australia. Institute of Road Transport Engineers New Zealand 2010 Conference, Rotorua, New Zealand, 27–29 July 2010.
- Pinkard E, Battaglia M, Roxburgh SH, Bruce J (2010) Estimating forest productivity under future climates: adding pests into the equation. In 'Canopy Processes in a Changing Climate', IUFRO Working Group 2.01.12, Falls Creek, Victoria and Tarraleah, Tasmania, 7–15 October 2010.

Pinkard E, Kriticos DJ (2010) Estimating the spatio-temporal risk of disease epidemics using a bioclimatic niche model. In International Pest Risk Workshop, CRC Plant Biosecurity, Port Douglas, Australia, 23–25 August 2010.

Stampfer K, Holzleitner F, Ghaffariyan MR, Visser R (2010) Economic and ecological variables of forest machinery based on long term recorded enterprise data. In Proceedings of 43rd International Symposium on Forestry Mechanization, Padua, Italy, 11–14 July 2010.

## Publications and reports for end users

---

### *Public reports*

#### *CRC for Forestry technical report series*

Blakemore P, Morrow A, Washusen R, Harwood C, Wood M, Ngo D (2010) Evaluation of thin-section quarter-sawn boards and rotary veneer from plantation-grown *Eucalyptus nitens*. CRC for Forestry Technical Report #202.

Churchill K, Beadle C (2011) Eucmix': An evaluation of the feasibility of using a selective residual herbicide to control weeds in direct-seeding revegetation trials CRC for Forestry Technical Report #192.

Downes GM (2011) Developing and assessing a woodmeal calibration for the Polychromix Phazir™. CRC for Forestry Technical Report #212.

Elek JA, Wardlaw T (2010) Review and evaluation of options for managing chrysomelid leaf beetles in Australian eucalypt plantations: reducing the chemical footprint. CRC for Forestry Technical Report #204.

Grimbacher P (in press) Biodiversity outcomes from eucalypt plantation expansion into agricultural landscapes of southern Australia: A review. CRC for Forestry Technical Report #215.

Kerr RJ, Thumma B, Southerton S, Tier B, Dutkowski GW, McRae TA, Harwood C (2011) Operational testing of molecular breeding to improve pulpwood value in *Eucalyptus nitens*. CRC for Forestry Technical Report #210.

Loxton E, Schirmer J, Dare M (2011) Structural adjustment assistance in the Australian forest industry: A review of recent experience and recommendations for best practice design of future structural adjustment packages. CRC for Forestry Technical Report #208.

Musk R (in press) Calibrating a growth and yield model for *Eucalyptus nitens* and *E. globulus* plantations in southern Australia. CRC for Forestry Technical Report #213.

Potts BM, Brooker C (2010) Seed germination on filtrates from soil sampled beneath trees of *Eucalyptus globulus*, *E. nitens* and their F1 hybrid. CRC for Forestry Technical Report #203.

Schirmer J (2010) Tasmania's forest industry: trends in forest industry employment and turnover, 2006 to 2010. CRC for Forestry Technical Report #206.

Schirmer J, Dunn C, Loxton E, Dare M (in press) Socioeconomic impacts of forest industry change: a baseline study. Interim Report. CRC for Forestry Technical Report #214.

Smith H, Sheridan G, Lane P, Bren L (2010) Best management practice guidelines for mitigating impacts on erosion and water quality from post-fire salvage harvesting of plantation forests. CRC for Forestry Technical Report #207.

Washusen R (2011) Processing plantation-grown *Eucalyptus globulus* and *E. nitens* for solid-wood products—Is it viable? CRC for Forestry Technical Report #209.



Washusen R, Harwood C (2011) Processing plantation-grown eucalypt sawlogs: modelling costs and log prices for mills optimised for the Tasmanian plantation resource. CRC for Forestry Technical Report #211.

White D, Mendham D, Battaglia M, Crombie S, Kinal J, McGrath J (in press) Estimating the optimum leaf area index of *E. globulus* plantations in southern Australia. CRC for Forestry Technical Report #205.

#### *Other public reports*

Dare M, Schirmer J, Vanclay F (2011) Handbook for operational community engagement within Australian plantation forest management (Cooperative Research Centre for Forestry: Hobart).

Forest Practices Authority (2010) Interim species habitat planning guideline for the conservation management of *Lathamus discolor* (Swift Parrot) in areas regulated under the Tasmanian Forest Practices System. Internal report to the Forest Practices Authority (Forest Practices Authority: Hobart).

Jarman SJ, Kantvilas G (2010) Lichen and bryophyte studies in the Warra silvicultural systems trial, 1997-2010. Division of Forest Research and Development, Technical Report 16/2010 (Forestry Tasmania: Hobart).

Moroni MT (2011) The role of forest management in greenhouse-gas mitigation: a contextual framework for Australia. 71pp. (Forest and Wood Products Australia Limited: Melbourne).

Neyland MG, Edwards LG (2011) Monitoring and control of browsing mammal damage to the eucalypt regeneration at the Warra silvicultural systems trial. Division of Forest Research and Development, Technical Report 03/2011. (Forestry Tasmania: Hobart).

Smethurst P, Petrone K (2010) Streamside management zones for protection of water quality. Fact sheet for managers and policy-makers #13 (Landscape Logic Commonwealth Environmental Research Facilities Hub: Hobart).

(<http://www.landscapelogicproducts.org.au/site/products/51-streamsode-management-zones-for-water-quality-protection>)

Smethurst P, Neary D (2010) Farm-scale sediment sources: tree harvesting, cattle and roads. Fact sheet for managers and policy-makers #4 (Landscape Logic Commonwealth Environmental Research Facilities Hub: Hobart).

(<http://www.landscapelogicproducts.org.au/site/products/50-farm-scale-sediment-sources-tree-harvesting-cattle-and-roads>)

Smethurst PJ, Petrone KC, Baillie CC, Worledge D, Langergraber G (2011) Streamside management zones for buffering streams on farms: Observations and nitrate modelling. Landscape Logic Commonwealth Environmental Research Facility Technical Report No. 28, 31pp. (University of Tasmania: Hobart).

([http://www.landscapelogicproducts.org.au/site/system/files/57/original/Tech\\_report\\_28\\_Streamside\\_management\\_zones.pdf?1300224477](http://www.landscapelogicproducts.org.au/site/system/files/57/original/Tech_report_28_Streamside_management_zones.pdf?1300224477))

Strandgard M (2011) Enhancing forest machine efficiency: onboard computer selection and implementation guide (Cooperative Research Centre for Forestry: Hobart).

Thauvin G, Libis E, Grove S, Wardlaw T (2010) Comparison of coarse woody debris volumes between mature and silviculturally regenerated eucalypt forest along a disturbance gradient. DFRD Technical Report 14/2010 (Forestry Tasmania: Hobart).

Wiersma J (2010) Eagle Nest Monitoring Project—Year 2 2008–2009. Nest site use and timing of breeding events. Report to Roaring 40s and the Forest Practices Authority, Forest Practices Authority Scientific Report 9 (Forest Practices Authority: Hobart).

### *Confidential reports*

- Abasolo M, Lee DJ, Shepherd M (2010) Genetic control of flowering season in *Corymbia citriodora* subsp. *variegata*. Interim report to partners from CRC Forestry PhD student.
- Elek J, Patel V, Allen G (2011) Lethal trap tree trials 2009–10: Treated trap trees attract and kill the target leaf beetle, *Paropsisterna bimaculata*. Confidential report for Forestry Tasmania and CRC for Forestry. Forestry Tasmania Technical Report 02/2011, 37pp. (Forestry Tasmania: Hobart).
- Kerr RJ, Thumma B, Southerton S, Tier B, Dutkowski GW, McRae TA, Harwood C (2011) Operational testing of molecular breeding to improve pulpwood value in *Eucalyptus nitens*. CRC for Forestry Technical Report #210.
- Wardlaw T, Jordan L, Wotherspoon K (2010) Integrated Pest Management of leaf beetles by Forestry Tasmania: costs, benefits, and future improvements. DFRD Technical Report 18/2010. 30 pp. (Forestry Tasmania: Hobart).
- Wardlaw T, Jordan L, Wotherspoon K (2011) A synthesis of the key issues in the current management of leaf beetles and proposed enhancements to the leaf beetle IPM. DFRD Technical Report 12/2011.16 pp. (Forestry Tasmania: Hobart).

### *Industry bulletins*

- Acuna M, Ghaffariyan M, Brown M (2010) Using FastTruck to assess the factors that affect transport efficiency in in-field chipping operations, CRC Forestry Bulletin 11, September 2010.
- Acuna M, Skinnell J, Mitchell R, Evanson T (2011) Bunching stems in steep slopes for efficient yarder extraction. CRC for Forestry Bulletin 17. May 2011.
- Ghaffariyan M (2010) European biomass harvesting systems and their application in Australia, CRC Forestry Bulletin 10, September 2010.
- Ghaffariyan M, Acuna M, Wiedemann J, Mitchell R (2011) Productivity of the Bruks chipper when harvesting forest biomass in pine plantations. CRC Forestry Bulletin 16. April 2011.
- Ghaffariyan M, Andorovski V (2011) Bundling harvest residues in shining plantations. CRC Forestry Bulletin 15, February 2011 (also online at: <http://journal.forestenergy.org>).
- Harwood C (2010) Sawn timber from native forests and plantations in Tasmania. CRC Forestry Bulletin 13, November 2010.
- Smith H, Sheridan G, Lane P, Bren L (2010) Guidelines for mitigating impacts on erosion and water quality from post-fire salvage harvesting. CRC Forestry Bulletin 14, December 2010.
- Strandgard M, Mitchell R (2010) Feller-buncher operator performance benchmark. CRC Forestry Bulletin 12, October 2010.
- Wiedemann J, Ghaffariyan M (2010) Preliminary results: volume recovery comparison of different harvesting systems in short-rotation hardwood plantations. CRC Forestry Bulletin 9, August 2010.

### *Technical notes*

- Baker S (2010) The evolution of variable retention: western Canada, the USA and Tasmania. BC Forest Professional 17, 12–13.
- Baker S, Neyland M, Grove S (2010) Using aggregated retention to maintain and restore mature forest values in managed forest landscapes. Project summary. Ecological Management and Restoration 11(1), 82.
- Harding K, Zbonak A, Lee D, Brown T, Innes T, Davies M, Copley T (2011) Producing elite trees for high value sawlogs from the tropics. Australian Forest Grower Summer 2011, 30–31.

### *CD-ROMs/DVDs*

Davidson CD (2009) Beta Version 1 Tree decline toolbox: Science behind the toolbox.

### *Unrefereed conference and other presentations*

Acuna M, Ghaffariyan, M (2011) Fast Truck: A truck scheduling system to improve efficiency in the Australian forest industry. In Proceedings of the 34th COFE Annual Meeting, Quebec City, Canada, 12–15 June 2011.

Acuna M (2011) Analysis of factors that affect the transport efficiency of in-field chipping operations. 4th Forest Engineering Conference, White River, South Africa, 5–7 April 2011.

Almeida A, Siggins A, Smethurst P, Silva CVJ, Baillie C (2010) Establishment of experimental catchments to quantify water use by different vegetation types. Oral presentation to IUFRO Conference on Remote Sensing and GIS Applied to Forestry, 19-21 October 2010, Curitiba, Brazil.

Baker S, Wardlaw T, McElwee D, Read S (2010) Adaptive management through research-directed monitoring of the operational roll-out of variable retention silviculture in Tasmania. Ecological Society of Australia Annual Conference, Canberra, Australia, 6–10 December 2010.

Baker S, Grove S, Jones N (2010) Using beetles as a monitoring tool for aggregated retention silviculture in Tasmania, Australia. 24th International Congress for Conservation Biology, Edmonton, Canada, 3–7 July 2010.

Bialkowski K, Archibald R, Hardy G, Burgess T (2010) Chemical and biochemical properties of the soil as potential tools for monitoring woodland restoration in south-western Western Australia. Oral presentation at the Seventh European Conference on Ecological Restoration, Avignon, France, 23–27 August 2010.

Bialkowski K, Archibald R, Hardy G, Burgess T (2010) Substrates used in SIR assays can inhibit basal respiration in rewetted soils. Poster presentation at 19th World Congress of Soil Science, Brisbane, Australia, 1–7 August 2010.

Bialkowski K, Archibald R, Hardy G, Burgess T (2010) Chemical and biochemical properties of the soil as potential tools for monitoring woodland restoration in south-western Western Australia. Oral presentation at the Eight National Conference of the Australian Network for Plant Conservation Inc, Perth, Australia, 28 September – 1 October 2010 .

Brown M (2010) Biomass supply chains down under: An emerging opportunity and challenge, International Conference 'Harvesting Forest Biomass: A Global State of the Art', COST Forest Energy Action, Trento, Italy, 8 October 2010.

Brown M, Ghaffariyan M (2010) Forest Biomass Harvesting in Australia: Building on International Experience, FFIC Biomass Energy Public Forum, Hobart, Australia, 20 October 2010.

Brown M (2011) Sustainable Biomass Supply Chains: A new era of forest biomass use in Australia, Joensuu Forestry Networking Week 2011: Forests and Energy, Joensuu , Finland, 22–27 May 2011.

Cawthen L, Nichol S, Munks S, McCallum H, Law B (2010) Whose calling? Developing a Tasmanian state-wide bat call identification key. Poster presentation at 14th Australasian Bat Society Conference, Darwin, Australia, 12–14 July 2010.

Dare M, Schirmer J (2011) The effects of spatial proximity to land use change on individual and community wellbeing: Experiences from plantation establishment in South-West Western Australia. The International Symposium on Society and Resource Management, Madison, USA, 4-8 June 2011.

- Forrester DI, Collopy J, Beadle C, Warren C and Baker T (2010) Growth and water-use efficiency in a *Eucalyptus nitens* plantation following thinning, pruning and fertilising. In 'Canopy Processes in a Changing Climate', IUFRO Working Group 2.01.12, Falls Creek, Victoria and Tarraleah, Tasmania, 7–15 October 2010.
- Freeman J, Potts B, Downes G, Thavamanikumar S, Pilbeam D, Hudson C, Vaillancourt R (2011) QTL analysis for growth and wood properties across multiple pedigrees and sites in *Eucalyptus globulus*. IUFRO Conference on Forest Biotechnology, Salvador, Brazil, 27 June 2011.
- Ghaffariyan MR, Andorovsk, V, Brown, M (2011) Slash-bundler in clear felled Eucalyptus plantations of Australia. 4th Forest Engineering Conference, White River, South Africa, 5–7 April 2011.
- Ghaffariyan MR, Brown M, Wiemann M (2011) Efficiency of biomass harvesting in poor quality stands of Eucalyptus in Western Australia. Proceedings of the 34th COFE Annual Meeting, Quebec City, Canada, 12–15 June 2011.
- Ghaffariyan MR (2011) Case studies & trial results of waste wood chipping for energy wood. Residue to Revenue Conference, Melbourne, Australia, 4–5 April 2011.
- Ghaffariyan MR (2011) Biomass harvesting in Australia. Proceedings of the 34th COFE Annual Meeting, Quebec City, Canada, 12–15 June 2011.
- Ghaffariyan MR (2011) FastTRUCK optimized truck scheduling. Proceedings of the 34th COFE Annual Meeting, Quebec City, Canada, 12–15 June 2011.
- Grove S (2011) A deadwoodologist's digest: an A-to-Z of learnings from a decade of research in Tasmania. Oral presentation at the International Symposium on Dynamics and Ecological Services of Deadwood in Forest Ecosystems, Quebec, Canada, 15-19 May 2011.
- Grove S, Baker S (2010) Keeping arthropod conservation relevant in sustainable forest management: tips from Tasmania, Australia. 24th International Congress for Conservation Biology, Edmonton, Canada, 3-7 July 2010.
- Grove S, Forster L (2011) A decade of change in the saproxylic beetle fauna of eucalypt logs in the Warra long-term log-decay experiment, Tasmania. Oral presentation at the International Symposium on Dynamics and Ecological Services of Deadwood in Forest Ecosystems, Quebec, Canada, 15–19 May 2011.
- Grove S, Wardlaw T, Read S (2010) Measuring the contribution of CAR reserves to mature-forest biodiversity in production forest landscapes. Ecological Society of Australia Annual Conference, Canberra, Australia, 6–10 December 2010.
- Harwood C (2010) What happens when you process plantation-grown blue gum and shining gum logs? Invited presentation to NAFI/FIAT Industry Forum, Hobart, Australia, 1 December 2010.
- Harwood C (2011). CSIRO submission and spoken evidence to House of Representatives Inquiry into the Australian Forestry Industry.
- Hudson CJ, Kumar KAR, Freeman JS, Faria DA, Grattapaglia D, Kilian A, Potts BM, Myburg AA, Vaillancourt RE (2010) Comparative mapping with high marker density reveals high synteny and colinearity among Eucalyptus genomes. Oral presentation at Genetics Society of Australasia (GSA) Conference, Canberra, Australia, 4–8 July 2010.
- Kanowski P, Duff G, Bossinger G (2011). Submission and spoken evidence to House of Representatives Inquiry into the Australian Forestry Industry, Hansard, 24 June 2011.
- Knight M, Loyn R, Hamilton A (2010) Bird communities and biodiversity conservation in complex landscapes of farmland, tree plantations and embedded remnant forest. Oral presentation at the Fifth International Ornithological Congress, Campos do Jordao, Brazil, 22–28 August 2010.

- Loxton EA, Schirmer J and Kanowski P (2011) Cumulative socio-economic effects of natural resource policy change: learning from Social Impact Assessment. The International Symposium on Society and Resource Management, Madison, USA, 4–8 June 2011
- Moroni M, Riley I, Mannes D, Grove S (2011) Debris down under: coarse woody debris loads in the cool temperate forests of Tasmania, Australia. Oral presentation at the International Symposium on Dynamics and Ecological Services of Deadwood in Forest Ecosystems, Quebec, Canada, 15–19 May 2011.
- Murphy G, Acuna M (2011) Ranking of four contributions to error in stand level log supply and value recovery estimation. 14th Symposium for Systems Analysis in Forest Resources, Reñaca Chile, 8–11 March 2011.
- Potts BM, O'Reilly-Wapstra JM, Hamilton M, Gosney B, Freeman F, Miller A, Bailey J, Schweitzer J, Whitham T, Dutkowski G, Costa e Silva J, Gauli A, Bailey T, Davidson N, Vaillancourt R (2011). Quantitative genetics of foundation eucalypts and their community consequences. Invited talk at the European Union FoResTTraC Workshop: 'The Genetics of Foundation Species as Drivers of Ecological Processes', Flagstaff, Arizona, USA, 16–18 February 2011.
- Read S, Baker S, Grove S, Neyland M, Wardlaw T (2011) Silviculture guided by natural disturbance: variable retention in wet eucalypt forests. Oral presentation at the 7th International Conference on Disturbance Dynamics in Boreal Forests, Saguenay, Canada, 29 May – 3 June 2011.
- Read S, Baker S (2011) Contrasting social and ecological drivers for management change in Tasmanian forests. Resilience2011 Conference, Arizona, USA, 11–16 March 2011.
- Schirmer J, Bull L (2010) Adapting to new economic opportunities arising from climate change. Paper presented to the Climate change adaptation and governance workshop, Institute of Environmental Studies, University of New South Wales, Sydney. Australia, 16–18 November 2010.
- Schirmer J (2011) What are the critical information gaps/research needs necessary to guide policy and implementation? Panel discussion held for IUCN symposium 'The role of biodiversity and ecosystems in climate change mitigation'. IUCN Australian Committee, Australian National University, Canberra, 2–3 June 2011.
- Sexton T, Henry R, Harwood C, Thomas D, McManus L, Raymond C, Henson M, Shepherd M (2011). SNP discovery and association mapping in *Eucalyptus pilularis* (blackbutt). IUFRO Conference on Forest Biotechnology, Salvador, Brazil, 27 June 2011.
- Smethurst PJ, Petrone KC, Baillie CC, Worledge D, Langergraber G (2011) Rain-soil-stream connectivity simulation for water and solutes using the HYDRUS model. Poster presentation to International Union of Geodesy and Geophysics (IUGG) General Assembly, Melbourne 28 June – 7 July 2011.
- Smethurst PJ, Neary DG, Petrone KC, Baillie CC, Worledge D (2011) Paired-Catchment and Stream Reach Studies of Effects of Streamside-Management-Zone Plantations on Water Quality. Oral Presentation to International Union of Geodesy and Geophysics (IUGG) General Assembly, Melbourne 28 June – 7 July 2011.
- Smith RGB, Harding KJ, Zbonak A, Thomas DS (2010) Wood properties and knot occlusion of plantation grown *Eucalyptus dunnii* and *Corymbia citriodora* subsp. *variegata* in a pruning and thinning experiment. In Proceedings of Wood Structure and Properties 2010 (eds J Kúdela, R Lagaa) pp. 41–47 (Arbora Publishers: Zvolen, Slovakia).
- Strandgard M (2011) Onboard Computing Selection and Implementation Guide. 4th Forest Engineering Conference, White River, South Africa, 5–7 April 2011.

Thavamanikumar S, Tibbits J, McManus L, Ades P, Stackpole D, Hadjigol S (2011) Candidate gene-based association mapping of growth and wood quality. IUFRO Conference on Forest Biotechnology, Salvador, Brazil, 27 June 2011.

Williams, KJH (2010) Understanding opposition to plantations. In 'Integrating Our Resources', Australian Forest Growers National Conference, Mount Gambier , South Australia, 10–13 October 2010.