

Catia Arcangeli

Publications List from 2000

Peer-reviewed journal articles

Arcangeli, C., Klopff, M., Hale, S. E., Jenkins, T.A.R. and Hasenauer, H. (2014). The uniform height curve method for height-diameter modelling: an application to Sitka spruce in Britain. *Forestry*, 87, 177-186.

Monastra, S., Manghi, F., Rozzi, C., Arcangeli, C., Wetli, E., Neff, H.-J., Greber, T. and Osterwalder, J. (2002). Quenching of majority-channel quasiparticle excitation in Cobalt. *Phys. Rev. Lett.* 88.

Tank, R.W. and Arcangeli, C. (2000). An introduction to third-generation LMTO method. *Physica Status Solidi (B)*, 217 89-130.

Springborg, M. and Arcangeli, C. (2000). Charged trans-polyacetylene: a density-functional study. *J. Mol. Struct. (TheoChem)* 531 211-222.

Project Reports

Matthews R. and Arcangeli C. (2016). Strategic review of tree and stand modelling research. Report to the Research Strategy Management Board, Forest Research, February 2016.

Arcangeli C., Matthews R. and Mackie E. (2015) Strategic review of tree and stand modelling research. Interim report to the Research Strategy Management Board, Forest Research, October 2015.

Mackie E., Arcangeli C. and Matthews R. (2015). Strategic review of mensuration sample plot data acquisition. Interim report to the Research Strategy Management Board, Forest Research, October 2015.

Lafont S., Arcangeli C., Hale S. and McKay H. (2008) Selection of an uneven-aged/ mixed species model for use in British forestry. Report to the Steering Group of the Modelling mixed aged and mixed species stands project, Forest Research.

Brewer A., Arcangeli C. and Baldwin M. (2007) Evaluation of the M1 growth and yield forestry model. Summary Report, Forest Research.

Arcangeli C., Wilkinson M., Williams M., Morgan G. and Taylor P. (2006) [Modelling Canopy rainfall interception](#), Final Report Programme No. FF0304UK01 "Forest Focus – UK 2003-2004" Request No. UK7 – An evaluation of the benefit of increased sampling of trees and forest canopy rainfall interception to improve modelling of catchment water dynamics.

Evans S.P., Randle T., Henshall P., Arcangeli C., Pellenq J., Lafont S. and Vials C. (2004). Recent advances in mechanistic modelling of forest stands and catchments. Forest Research Annual Report 2003-2004.

Arcangeli, C. and Matthews, R. (2002). Report on thinning models. Summary report, Forest Research.

Books and Books Chapters

Arcangeli C., Matthews R.W., Knowles L. and Kimberley M. (2006). Modelling changes in stand stocking and production from thinnings under different silvicultural regimes. Proceeding of the Edinburgh 2005 IUFRO conference on "Sustainable forestry in theory and practice" Edinburgh, 6-8 April 2005.

Software and associated manuals

Hale, S., Jenkins, T. and Arcangeli, C. (2014) MOSES_GB v 1.0 – User Guide. Forest Research.

Jenkins, T., Arcangeli, C., Henshall, P. and Matthews, R. (2010) M1 Yield Model, Research Interface User Guide. Forest Research.

Jenkins, T., Arcangeli, C., Henshall, P. and Matthews, R. (2010) M1 Yield Model. Forest Research.

Scientific conferences

Bianchi, S., Hale, S., Arcangeli, C., Cahalan, C., Henshall, P., Kerr, G. and Jenkins, T. (2015), Preliminary Sitka spruce (*Picea Sitchensis*) early growth model for MOSES_GB. Poster presented at the 2015 IUFRO Conference on "Ecology, silviculture and management of spruce species in mixed forests" Alberta, Canada, 11-13 August 2015.

Hale, S., Arcangeli, C., Jenkins, T., Klopff, M., Thurnher, C. and Hasenauer, H. (2012). MOSES_GB: a growth simulator for mixed age and mixed species forest stands in Britain. Poster presented at the Edinburgh 2012 IUFRO International Conference on "Managing forests for ecosystem services: can spruce forests show the way?" Edinburgh, Scotland, 8-11 October 2012.

Arcangeli, C., Matthews, R., Knowles, L., and Kimberley, M. (2005) New models to support new silviculture. Poster presented at the IUFRO conference on "Sustainable Forestry in Theory and Practice", Edinburgh, 5 -8 April 2005.

Arcangeli, C. and Evans, S. P. (2004) Modelling canopy rainfall interception at the daily time step using the Gash analytical model. Poster presented at the International Conference on Modelling Forest Production, Vienna, Austria, 19-21 April 2004.

Other oral presentations

Arcangeli, C. (2011). M1 growth and yield model. Forest Research Modellers meeting, Northern Research Station, 17th May 2011.

Arcangeli, C. (2010) Modelling Mixed Aged and Mixed Species Stand in GB. Steering Group of the Modelling Mixed Age and Mixed Species Stands project, Alice Holt, 4th May 2010.

Arcangeli, C. (2007) Modelling Rainfall Interception. Forest Research Update seminar, Alice Holt, 20th April 2007.

Arcangeli, C. (2006) M1 growth and yield model: example of model prediction for a Douglas fir stand. ICF mensuration day, Hayes Wood, Clinton Devon Estate, 12th July 2006

Arcangeli, C. (2004) Thinning models. Operational Support Unit meeting, Silvan House, 23rd September 2004.