

**REFEREED PUBLICATIONS**

- [2009] Silins, U., Stone, M., Emelko, M.B., and Bladon, K.D. Sediment production following severe wildfire and post-fire salvage logging in the Rocky Mountain headwaters of the Oldman River Basin, Alberta. Catena. In press.
- [2009] Emelko, M.B., Silins, U., Bladon, K.D., and Stone, M. Drinking water treatability implications of wildfire in a changing climate. *Journal American Water Works Association*. In press.
2009. Silins, U., Bladon, K.D., Anderson, A., Diiwu, J. Emelko, M.B., Stone, M., and Boon, S. Southern Rockies Watershed Project: How wildfire and salvage logging affect water quality and aquatic ecology. *Streamline*. 12(2):1-7.
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2008. Silins, U., Stone, M., Emelko, M., and Bladon, K. Impacts of wildfire and post-fire salvage logging on sediment transfer in headwater regions of the Oldman Watershed, Alberta. *Sediment Dynamics in Changing Environments*. IAHS Red Book Series. 325: 510–515.
2008. Bladon, K.D., Silins, U., Wagner, M.J., Stone, M., Emelko, M.B., Devito, K.J., Mendoza, C.A., and Boon, S. Wildfire impacts on nitrogen export and production from headwater streams in southern Alberta's Rocky Mountains. *Canadian Journal of Forest Research*. 38:2359–2371.
2008. Bladon, K.D., Lieffers, V.J., Silins, U., Landhäusser, S.M., and Blenis, P.V. Elevated mortality of residual trees following variable retention harvesting of mixedwood forest. *The Forestry Chronicle*. 84:70–75.
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2006. Bladon, K.D., Silins, U., Landhäusser, S.M., and Lieffers, V.J. Differential transpiration by three boreal tree species in response to increased evaporative demand after variable retention harvesting. *Agricultural and Forest Meteorology*. 138:104–119.

**MANUSCRIPTS SUBMITTED FOR REFEREED PUBLICATION**

- Silins, U., Bladon, K.D., Wagner, M.J., Esche, E., Spence, J., Stone, M., Emelko, M.B., Williams, C., and Tichkowsky, I. Linked water quality and biological responses in plant and macroinvertebrate communities in oligotrophic Rocky Mountain streams after severe wildfire and salvage logging. (Submitted to *Journal of Hydrology*).
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## NON-REFEREED PUBLICATIONS

2009. Vyse, A., Bendickson, D., Hannam, K., Cuzner, D., and Bladon, K.D. Chapter 6 – Hydrologic and Geomorphic Effects of Forest Practices. *In* Compendium of Forest Hydrology and Geomorphology in British Columbia. R.G. Pike et al. (editors). B.C. Ministry of Forests and Range Research Branch, Victoria, B.C. and FORREX Forum for Research and Extension in Natural Resources, Kamloops, B.C. In Press.
2009. Bladon, K.D. One Watershed – One Water Conference Summary. LINK. In Press.
2008. Bladon, K.D., and Silins, U. Linking silviculture to watershed management. Canadian Silviculture. August 2008:6–10.
2008. Bladon, K.D., Rothwell, R., and Spillios, L. Chapter 12: Hydrologic concerns of cold climate harvesting. *In* Handbook of Control and Mitigation Measures for Silvicultural Operations. National Council for Air and Stream Improvement, Inc. (NCASI). Montreal, QC.
2008. Bladon, K.D., Rothwell, R., and Spillios, L. Chapter 9: Control and mitigation measures for fire: Hydrologic considerations. *In* Handbook of Control and Mitigation Measures for Silvicultural Operations. National Council for Air and Stream Improvement, Inc. (NCASI). Montreal, QC.
2008. Bladon, K.D., and Liefers, V.J. What happens to structure trees that are left in variable retention cutovers? Sustainable Forest Management Network. Research Note No. 28.
2008. Bladon, K.D., Silins, U., Liefers, V.J., and Landhäusser, S.M. Lessons learned from observations of mortality of residual trees following variable retention in west-central Alberta. *In* Overcoming Obstacles to Variable Retention in Forest Management: Science to Management Forum Proceedings, September 25–27, 2007. BC Journal of Ecosystems and Management 8(3): 73-76
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2006. Bladon, K.D., Liefers, V.J., Silins, U., Landhäusser, S. Residual trees are under water stress in variable retention stands. Centre for Enhanced Forest Management. Advances in Forestry Research. Research Note 08/06.
2004. Bladon, K.D. Brown trees in green-tree retention. Environmental Research News in Alberta. 5(1): 7-8.

## MANUSCRIPTS IN PREPARATION

- Bladon, K.D., and Silins, U. Post wildfire flooding risk in urban-wildland interfaces: case study of the 2003 Lost Creek Fire. (In preparation for Canadian Water Resources Journal).
- Bladon, K.D., and Silins, U. Effects of large scale natural disturbance by wildfire on runoff production and peakflows in high yielding Rocky Mountain watersheds. (In preparation for Hydrological Processes).
- Bladon, K.D., Emelko, M.B., Stone, M., and Silins U. Linking potential climate change impacts on headwater quality to downstream utilities. (In preparation for Environmental Science & Technology).

## INVITED ORAL PRESENTATIONS

2009. Bladon, K.D. Wildfire effects on water quality. Science, Sustainability, and Innovation – Disturbance Effects on Watershed Function. Canadian Institute of Forestry National Electronic Lecture Series.
2008. Bladon, K.D., and Silins, U. Cascading ecohydrological effects of wildfire and post-fire salvage logging in the Eastern Slopes, Alberta. North American Lake Management Society. Lake Louise, AB.
2007. Bladon, K.D., Silins, U., Landhäusser, S.M., and Lieffers, V.J. Lessons learned from observations of mortality of residual trees following partial harvesting in west-central Alberta. Overcoming Obstacles to Variable Retention in Forest Management. FORREX Annual General Meeting & Science Forum. Prince George, BC.
2007. Silins, U. and Bladon, K.D. Integrated forest-watershed planning tools: case studies with ECA–Alberta. Sustainable Forest Management Network. Management of Aquatic Systems in Forested Landscapes Workshop. Winnipeg, MB.

## ORAL PRESENTATIONS

2007. Silins, U., Lieffers, V., Reid D., Brabender, B., Bladon, K., and Piña, P. Stand water balance of lodgepole pine forests in the absence of Mountain Pine Beetle: characterizing the processes of the water balance. FORREX: Mountain Pine Beetle and Watershed Hydrology Workshop. Kelowna, BC.
2006. Bladon, K.D., Lieffers, V.J., Silins, U., and Landhäusser, S. A health check-up for three tree species following variable retention harvesting in boreal mixedwoods. SFMN Conference – Sustaining Canada's Forests: Building Momentum. Edmonton, AB.
2006. Bladon, K.D., Silins, U., Landhäusser, S., and Lieffers, V.J. Differential ecophysiological responses of three boreal trees species following variable retention harvesting. IUFRO Uneven-aged Silviculture Research Group 1.14.00 5th Conference and Field Tour. Rouyn-Noranda, QC.
2006. Bladon, K.D., Lieffers, V.J., Silins, U., and Landhäusser, S. Status report: Mortality of residual in mixedwood cutovers. SFMN Partners Working Group. Edmonton, AB.
2006. Bladon, K.D., Silins, U., Landhäusser, S., and Lieffers, V.J. Differential atmospheric and autecological controls of transpiration in three boreal tree species. 5th CGU Hydrology Section Student Conference. Edmonton, AB.
2005. Bladon, K.D., Silins, U., and Lieffers, V.J. Residual tree water use in response to microclimate change in boreal mixedwood green-tree retention strategies. 5th North American Forest Ecology Workshop. Aylmer, QC.
2005. Bladon, K.D., Silins, U., and Lieffers, V.J. Increased atmospheric moisture demand and variable transpiration rates following green-tree retention harvesting in boreal mixedwood forest. Canadian Geophysical Union Annual Meeting. Banff, AB.
2004. Bladon, K.D., Silins, U., and Lieffers, V.J. Differential atmospheric controls on transpiration of boreal trees: A potential factor in pre-mature tree mortality in green-tree retention strategies. Canadian Geophysical Union / American Geophysical Union 2004 Joint Assembly. Montreal, QC.

## POSTER PRESENTATIONS

2008. Bladon, K.D., Silins, U., Wagner, M.J., Stone, M., Emelko, M.B., Devito, K.J., Mendoza, C.A., and Boon, S. Wildfire and salvage logging impacts on stream water nitrogen in southern Alberta's Rocky Mountains. American Geophysical Union Fall Meeting. San Francisco, CA.
2007. Bladon, K.D., Silins, U., Wagner, M.J., Schindler, D.W., Kelly, E.N., Stone, M., and Emelko, M.B. Natural disturbance effects from severe wildfire on watershed function in high water yielding Rocky Mountain catchments in southern Alberta. Hydrologic Implications of Mountain Pine Beetle: Learning from the B.C. Experience. Edmonton, AB.
2007. Bladon, K.D., Silins, U., Lieffers, V.J., and Landhäusser, S. Effect of an abrupt change in microclimate on boreal tree species water use. Hydrologic Implications of Mountain Pine Beetle: Learning from the B.C. Experience. Edmonton, AB.
2006. Bladon, K.D., Landhäusser, S., Lieffers, V.J., and Silins, U. Fate of residual tree species following harvesting in the boreal forest. IUFRO Uneven-aged Silviculture Research Group 1.14.00 5th Conference and Field Tour. Rouyn-Noranda, QC.
2006. Bladon, K.D., Landhäusser, S., Lieffers, V.J., and Silins, U. Post-harvest fate of residual trees in boreal mixedwood partial cutovers. Forest Industry Lecture Series No. 54. University of Alberta, Edmonton, AB. Awarded 1st Prize - Best Poster.
2004. Bladon, K.D., Silins, U., and Lieffers, V.J. Pre-mature tree mortality as a limit to success of green-tree retention harvest strategies. Forest Industry Lecture Series No. 51. University of Alberta, Edmonton, AB.