

# Canadian Journal of Forest Research

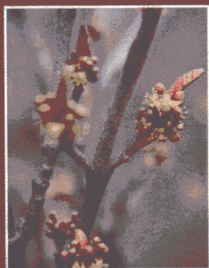
Volume 41, Number 2, February 2011

# Revue canadienne de recherche forestière

Volume 41 numéro 2, février 2011

- |  | ARTICLES | ARTICLES   |
|--|----------|--|
| Ingrid G. Van Herk, Stith T. Gower,<br>Dustin R. Bronson, and<br>Myron S. Tanner                           | 217–227  | Effects of climate warming on canopy water dynamics of a boreal black spruce plantation  |
| Pengfei Wu, Xiangqing Ma,<br>Muluaem Tigabu, Chen Wang,<br>Aiqin Liu, and Per Christer Odén                | 228–234  | Root morphological plasticity and biomass production of two Chinese fir clones with high phosphorus efficiency under low phosphorus stress                                       |
| Natalie L. Cleavitt,<br>Timothy J. Fahey, and John J. Battles  | 235–244  | Regeneration ecology of sugar maple ( <i>Acer saccharum</i> ): seedling survival in relation to nutrition, site factors, and damage by insects and pathogens                     |
| Birte Pakull, Katrin Groppe,<br>Federica Mecucci, Muriel Gaudet,<br>Maurizio Sabatti, and Matthias Fladung | 245–253  | Genetic mapping of linkage group XIX and identification of sex-linked SSR markers in a <i>Populus tremula</i> × <i>Populus tremuloides</i> cross                                 |
| Rodrigo J. Mercader,<br>Nathan W. Siegert,<br>Andrew M. Liebhold, and<br>Deborah G. McCullough             | 254–264  | Simulating the effectiveness of three potential management options to slow the spread of emerald ash borer ( <i>Agrilus planipennis</i> ) populations in localized outlier sites |
| Niall Farrelly, Áine Ní Dhubháin, and<br>Maarten Nieuwenhuis   | 265–278  | Site index of Sitka spruce ( <i>Picea sitchensis</i> ) in relation to different measures of site quality in Ireland  |
| Eva Ring, Staffan Jacobson, and<br>Lars Högbom   | 279–288  | Long-term effects of nitrogen fertilization on soil chemistry in three Scots pine stands in Sweden   |
| Eric K. Zenner, Erkki Lähde, and<br>Olavi Laiho  | 289–299  | Contrasting the temporal dynamics of stand structure in even- and uneven-sized <i>Picea abies</i> dominated stands   |

Continued on inside back cover / Suite au verso



Front cover: "Spring bud burst." Photo by Mélanie Desrochers, 2009.

Page couverture: « Bourgeonnement printanier ». Photo par Mélanie Desrochers, 2009.

<b>Alexa K. Michel, Susanne Winter, and Andreas Linde</b>	<b>300–308</b>	The effect of tree dimension on the diversity of bark microhabitat structures and bark use in Douglas-fir ( <i>Pseudotsuga menziesii</i> var. <i>menziesii</i> )
<b>David W. Savage, David L. Martell, and B. Mike Wotton</b>	<b>309–320</b>	Forest management strategies for dealing with fire-related uncertainty when managing two forest seral stages
<b>Brian Kane and Kenneth R. James</b>	<b>321–330</b>	Dynamic properties of open-grown deciduous trees
<b>Christof Bigler and Thomas T. Veblen</b>	<b>331–340</b>	Changes in litter and dead wood loads following tree death beneath subalpine conifer species in northern Colorado
<b>Ignacio Barbeito, Valerie LeMay, Rafael Calama, and Isabel Cañellas</b>	<b>341–351</b>	Regeneration of Mediterranean <i>Pinus sylvestris</i> under two alternative shelterwood systems within a multiscale framework
<b>Qinghua Xu, Menghua Qin, Yonghao Ni, Maurice Defo, Barbara Dalpke, and Gail Sherson</b>	<b>352–358</b>	Predictions of wood density and module of elasticity of balsam fir ( <i>Abies balsamea</i> ) and black spruce ( <i>Picea mariana</i> ) from near infrared spectral analyses
<b>Paul G. Schaberg, Brynne E. Lazarus, Gary J. Hawley, Joshua M. Halman, Catherine H. Borer, and Christopher F. Hansen</b>	<b>359–369</b>	Assessment of weather-associated causes of red spruce winter injury and consequences to aboveground carbon sequestration
<b>Yan Boulanger, Luc Sirois, and Christian Hébert</b>	<b>370–379</b>	Fire severity as a determinant factor of the decomposition rate of fire-killed black spruce in the northern boreal forest
<b>Tomas Funda, Cherdsak Liewlaksaneeyanawin, Irena Fundova, Ben S.K. Lai, Chris Walsh, Annette Van Niejenhuis, Cathy Cook, Hilary Graham, Jack Woods, and Yousry A. El-Kassaby</b>	<b>380–389</b>	Congruence between parental reproductive investment and success determined by DNA-based pedigree reconstruction in conifer seed orchards
<b>Chris Knowles, Christine Theodoropoulos, Corey Griffin, and Jennifer Allen</b>	<b>390–400</b>	Oregon design professionals views on structural building products in green buildings: implications for wood
<b>Posy E. Busby and Charles D. Canham</b>	<b>401–411</b>	An exotic insect and pathogen disease complex reduces aboveground tree biomass in temperate forests of eastern North America
<b>Michael S. Watt, Rebecca J. Ganley, Darren J. Kriticos, and Lucy K. Manning</b>	<b>412–424</b>	Dothistroma needle blight and pitch canker: the current and future potential distribution of two important diseases of <i>Pinus</i> species
	DISCUSSION	DISCUSSION
<b>Michael B. Gracz</b>	<b>425–428</b>	Comment on “Wetland drying and succession across the Kenai Peninsula Lowlands, south-central Alaska”
<b>Eric S. Klein, Edward E. Berg, and Roman Dial</b>	<b>429–433</b>	Reply to comment by Gracz on “Wetland drying and succession across the Kenai Peninsula Lowlands, south-central Alaska”