



International Conference  
MANAGING FORESTS  
FOR ECOSYSTEM SERVICES:  
**CAN SPRUCE FORESTS SHOW THE WAY?**

8-11 October 2012 - Edinburgh, Scotland

*Hosted by IUFRO Working Party 1.01.08 - Ecology and Silviculture of Spruces;  
co-hosted by the EU Interreg Project ForestClim*

CONFERENCE PROGRAMME

Monday 8<sup>th</sup> October 2012

0900-1200 hrs	Registration
1200-1300	Lunch
1300-1330	Conference Opening
1330-1720	Scientific Session 1
1800-1900	Poster Session & Icebreaker

Tuesday 9<sup>th</sup> October 2012

0830-1700	Scientific Sessions 2 & 3
1745-2030	Official Reception at Edinburgh Castle

Wednesday 10<sup>th</sup> October 2012

0845-1730 hrs	Field Trip
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Thursday 11<sup>th</sup> October 2012

0900-1240 hrs	Scientific Session 4
1330-1430	Plenary Discussion
1430-1500	Closing Address
1500	Conference Close

DELIVERED IN PARTNERSHIP WITH:



Monday 8 <sup>th</sup> October 2012 - SCIENTIFIC SESSION 1		
0900-1200 hrs	Registration	
1200-1300	Lunch	
1300-1305	Conference Opening & Welcome speeches	
1305-1310	Welcome by Chair of IUFRO Group 1.01.08	<i>Ulf Johansson, SLU, Sweden</i>
1310-1325	Opening Address	<i>David Howat, Deputy Director, Forestry Commission Scotland</i>
	Session Chair	<i>Maurizio Mencuccini, Edinburgh University, UK</i>
1330-1400	(Keynote) - Atlantic spruce forests: an assessment within an ecosystem services framework.	<i>Chris Quine, Forest Research, UK</i>
1400-1420	Linking multi-functional forestry goals with the legacy of spruce plantations in Scotland.	<i>Maria Nijnik, The James Hutton Institute, UK</i>
1420-1440	The challenges of sustainability delivering multiple ecosystem services in a private sector commercial forest plantation.	<i>Andrew Heald, UPM, Finland</i>
1440-1500	Innovation and learning for adaptive management of planted spruce forests	<i>Anna Lawrence, Forest Research, UK</i>
1500-1530	Tea/Coffee	
	Session Chair	<i>Peter Freer-Smith, Forest Research UK</i>
1530-1600	(Keynote) - Sitka spruce as a sink for carbon dioxide	<i>John Grace, University of Edinburgh, UK</i>
1600-1620	Early thinning of energy wood in dense mixtures of Norway spruce and birch in Northern Sweden.	<i>Nils Fahlvik, Southern Swedish Forest Research Centre, Sweden</i>
1620-1640	Stump harvesting and carbon sequestration in Norway spruce stand: life cycle perspective	<i>Ashrafal Alam, University of Eastern Finland, Finland</i>
1640-1700	Long term effect of silviculture measures on forest-floor under Norway spruce stands.	<i>Jiri Novak, Forestry &amp; Game Management Research Institute, Czech Republic</i>
1700-1720	Sitka spruce plantation response to thinning.	<i>Robert Clement, University of Edinburgh, UK</i>

1800-1900	Poster Session and Icebreaker		
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Tuesday 9 <sup>th</sup> October 2012 - SCIENTIFIC SESSIONS 2 & 3			
	Session Chair		<i>Helen McKay, Forest Research, UK</i>
0830-0900 hrs	(Keynote) - Ecological role of white spruce in the boreal forest of western Canada and potential impacts of spruce management on ecological services		<i>Phil Comeau, University of Alberta, Canada</i>
0900-0920	Transforming even-aged spruce stands to multi-layered forest - A strategy for boreal forests		<i>Lars Drössler, Southern Swedish Forest Research Centre, Sweden</i>
0920-0940	The Gisburn mixtures experiment after 55 years: lessons in diversifying spruce forests to help multifunctional forest management.		<i>Bill Mason, Forest Research, UK</i>
0940-1000	Knowing one, knowing all? Comparing the diversity responses of plants, spiders and birds in first and second rotation Sitka spruce ( <i>Picea sitchensis</i> ) plantations across the commercial forest cycle.		<i>Anke C. Dietzsch, Trinity College, Ireland</i>
1000-1030	Tea/Coffee		
	Session Chair		<i>Pat Snowdon, Forestry Commission</i>
1030-1100	(Keynote) - Biotic threats to gymnosperm forest integrity; why spruce is a good option.		<i>Steve Woodward, University of Aberdeen, UK</i>
1100-1120	Influence of butt rot occurrence on windthrow in Norway spruce stands.		<i>Martin Ahlström, SLU, Sweden</i>
1120-1140	Reduced growth and dieback in Norway spruce trees in south-east Norway - possible causes and future management.		<i>Kjell Andreassen, Norwegian Forest &amp; Landscape Institute, Norway</i>
1140-1200	Climate change, forestry and New Zealand's Emissions Trading Scheme		<i>Euan Mason, School of Forestry, University of Canterbury</i>
1200-1230	(Keynote) - Economic analysis of ecosystem services.		<i>Ian Bateman, University of East Anglia, UK</i>
1230-1330	Lunch		
	Session Chair		<i>James Pendlebury, Forest Research, UK</i>

1330-1350	Integrating ecological and empirical models for forest resource management planning and delivery of ecosystem services in the wake of climate change.	<i>Elspeth Macdonald, Forest Research, UK</i>
1350-1410	Estimation of stem volume with volume functions in Norway spruce and Scots pine thinning experiments.	<i>Ulf Johansson, SLU, Sweden</i>
1410-1430	Characteristics and distribution of deadwood in Norway spruce stands in Latvia.	<i>Toms Zalitis, Latvia State Forestry Research Institute, Latvia</i>
1430-1500	Tea/Coffee	
	Session Chair	<i>Phil Comeau, University of Alberta, Canada</i>
1500-1530	(Keynote) - Perception of risks and adaptive management of forests.	<i>Kristina Blennow, SLU, Sweden</i>
1530-1550	Can the drought resistance of Norway spruce stands lastingly be improved by thinning?	<i>Christian Ammer, University of Göttingen, Germany</i>
1550-1610	Storm- and snow-damage in a Norway spruce thinning experiment in southern Sweden.	<i>Cristofer Wallentin, Holmen Skog, District Norrköping, Sweden</i>
1610-1630	Effects of selection strategies in thinnings on growth and quality in even-age Norway spruce ( <i>Picea abies</i> (L.) Karst) stands in southern Sweden.	<i>Mateusz Liziniewicz, Southern Sweden Forest Research Centre, Sweden</i>
1630-1700	(Keynote) - Management of spruce forests for timber and other services with an acceptable level of wind risk.	<i>Barry Gardiner, INRA, France</i>
1745	Buses depart for official Reception at Edinburgh Castle (approx. 1800-2030 hrs)	

Wednesday 10<sup>th</sup> October 2012 - FIELD TRIP

0845-1730 hrs	All day field trip to spruce dominated forests in the Loch Lomond & The Trossachs National Park to the north-west of Edinburgh
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Thursday 11 <sup>th</sup> October 2012 - SCIENTIFIC SESSION 4			
	Session Chair		<i>Barry Gardiner, INRA, France</i>
0900-0930 hrs	(Keynote) - The role of decision support tools in improving management strategies for ecosystem services in spruce forests.		<i>Manfred Lexer, BOKU, Austria</i>
0930-0950	Wild Forest, Wilder Valley.		<i>Gareth Browning, Forestry Commission, UK</i>
0950-1010	Site productivity models as a tool in conversion of Norway spruce monocultures in the Polish Western Carpathians.		<i>Jaroslav Socha &amp; Jerzy Lesiński, University of Agriculture in Krakow, Poland</i>
1010-1030	Transformation of spruce forests to continuous cover: how does this affect the delivery of ecosystem services?		<i>Gary Kerr &amp; Victoria Stokes, Forest Research, UK</i>
1030-1100	Tea/Coffee		
1100-1130	(Keynote) - Mixture and structure: managing Norway spruce forests for diversity.		<i>Uli Kohnle &amp; Konstantin von Teuffel, Forest Research Institute, Germany</i>
1130-1150	Bundling of ecosystem services to increase forestland value.		<i>Robert Deal, USDA Forest Service, USA</i>
1150-1210	The effect of different forest management approaches upon the delivery of ecosystem services from planted Sitka spruce forests: a case study in southern Scotland		<i>Bruce Nicoll, Forest Research, UK</i>
1210-1240	(Keynote) - Practical experiences of managing a spruce forest to sustain ecosystem services.		<i>Graham Gill, Forestry Commission, UK</i>
1240-1330	Lunch		
1330-1430	Plenary Discussion		
1430-1500	Closing Address		<i>Stuart Goodall, Chief Executive, Confederation of Forest Industries of Great Britain (CONFOR)</i>
1500	Conference Close		