

# Decisions for Sustainability: Forest Estate Models for the Future

June 11 – June 14, 2007

## AGENDA

Monday June 11

7:00 to 9:00 pm Registration and Opening Reception

## AGENDA – DAY ONE

Tuesday June 12

6:45-10:00 am Registration

6:30-8:00 am Continental Breakfast

7:55 am Welcoming Remarks  
Melanie Boyce, BC Ministry of Forests and Range

8:05 am Plenary Session A  
GLOBAL GLIMPSES  
Moderator – John Nelson

Wood Supply Modelling in New Zealand – Dealing with the challenges  
Bruce Manley, University of Canterbury, Christchurch, New Zealand

Past, Present and Future Challenges for the Office of the Chief Forester (Québec)  
Pierre Levac, Chief Forester, Province of Quebec, Quebec, Canada

National/regional wood supply issues in Sweden  
Ola Eriksson, Swedish University of Agricultural Sciences (SLU), Umea, Sweden

### COFFEE BREAK

10:30 am

**Concurrent Session A  
WOOD SUPPLY**  
Moderator – Dave Maclean

**Concurrent Session B  
SUSTAINABILITY AND MULTIPLE VALUES**  
Moderator – Don Gosnell

10:30 GETTING BEYOND THE NUMBERS – A LOOK AT WOOD SUPPLY IN CANADA  
Joe Maure<sup>s</sup>, Dirk Kloss, <sup>s</sup>Ministry of Natural Resources, Sault Ste. Marie, ON, Canada

SUSTAINABILITY OF FOREST RESOURCES: ASSESSING THE VARIOUS MEASURES  
Pam Overhulser<sup>s</sup>, Eric Cox, John Sessions, Pete Bettinger, <sup>s</sup>Oregon Department of Forestry, Salem, OR, USA

11:00 INTEGRATING STRATEGIC FOREST ESTATE MODELLING WITH TACTICAL SCENARIO DEVELOPMENT IN TASMANIA, AUSTRALIA  
Thomas Kelley<sup>s</sup>, L. Bennett, R. Hamilton, <sup>s</sup>Forestry Tasmania, Hobart, TAS, Australia

SCENARIOS OF TRIAD ZONING ON A CROWN LICENSE IN NEW BRUNSWICK  
Chris Ward<sup>s</sup>, Tom Beckley, Thom Erdle, Dave Maclean <sup>s</sup>Univ. of New Brunswick, Fredericton, NB, Canada

11:30 PNWPRIVATE: A NESTED SYSTEM OF REGIONAL PRIVATE TIMBER SUPPLY MODELS FOR OREGON AND WASHINGTON WITH EXTENSIVE MILL AND RESOURCE DETAIL  
Darius Adams, Gregory Latta<sup>s</sup>  
<sup>s</sup>Oregon State University, Corvallis, OR, USA

MAINTAINING DIVERSE FOREST VALUES ACROSS MULTIPLE STANDS – THE NEED FOR LANDSCAPE PLANNING  
Walt Klenner<sup>s</sup>, Russ Walton  
<sup>s</sup>Ministry of Forests and Range, Kamloops, BC, Canada

11:35 Rm 205 Demo Remsoft Doug Jones

12:00 pm

BUFFET LUNCH

1:00 pm

| <b>Concurrent Session C<br/>MODEL DESIGN AND USE</b><br>Moderator – Albert Nussbaum |  | <b>Concurrent Session D<br/>MULTIPLE VALUES AND WATER</b><br>Moderator – Ian Graeme |  |
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| 1:00  | <b>DESIGNING MODELS FOR DESIGNING THE FOREST ESTATE</b><br>Eldon Gunn, Dalhousie University, Halifax, NS, Canada   |   | <b>MANAGEMENT OF TIMBER UNDER A HABITAT CONSERVATION PLAN (HCP) IN THE PACIFIC NORTHWEST</b><br>Karl Walters <sup>s</sup> , Gene McCaul<br><sup>s</sup> FORSight Resources LLC, Vancouver, WA, USA   |
| 1:30  | <b>DECENTRALIZED PLANNING FOR THE EVALUATION OF SPATIAL AND INTER-TEMPORAL TRADEOFFS IN FOREST MANAGEMENT</b><br>Anne-Helene Mathey, University of British Columbia, Vancouver, BC, Canada |   | <b>MODELLING CUMULATIVE IMPACTS FOR DEVELOPMENT OF SUSTAINABLE RESOURCE MANAGEMENT PLANS</b><br>Dan O'Brien, Cortex Consultants Inc., Victoria, BC, Canada   |
| 2:00  | <b>PARALLEL PROCESSING AS A TECHNICAL SOLUTION TO LARGE HARVEST SCHEDULING PROBLEMS</b><br>Dave Waddell, Ministry of Forests and Range, Victoria, BC, Canada                               |   | <b>MODELING BIODIVERSITY, WATER, AND CARBON USING PATCHWORKS</b><br>Tom Moore <sup>s</sup> , Margaret Donnelly, Donna Grassia, Steven Hills, Paul LeBlanc, Rob Rempel, Arnold Rudy, Laird Van Damme, <sup>s</sup> Spatial Planning Systems Ltd, Deep River, ON, Canada |
| 2:30  | <b>A SYSTEM FOR RAPID DEVELOPMENT OF ESTATE MODELS FOR APPRAISALS</b><br>Roger Lord, Mark Rasmussen <sup>s</sup> , <sup>s</sup> Mason, Bruce & Girard, Inc., Portland, OR, USA             |   | <b>DETERMINING HYDROLOGIC HAZARDS IN BC USING BAYESIAN BELIEF NETWORKS TO SUPPORT DECISION-MAKING IN MOUNTAIN-PINE-BEETLE RESPONSES</b><br>Martin Carver <sup>s</sup> , Greg Utzig, Randy Sulyma<br><sup>s</sup> Ministry of Environment, Victoria, BC, Canada         |

**COFFEE BREAK**

3:30 pm

| <b>Concurrent Session E<br/>DATA AND PARAMETER CHOICE</b><br>Moderator – Dirk Kloss |   | <b>Concurrent Session F<br/>FIRST NATIONS AND TRADITIONAL USE</b><br>Moderator – Shirley Mah |  |
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| 3:30  | <b>EXAMINING THE LENGTH OF THE PLANNING HORIZON IN THE MIDST OF CATASTROPHIC NATURAL DISTURBANCE AND UNCERTAINTY</b><br>Tim Bogle, Ministry of Forests and Range, Victoria, BC  |  | <b>MULTI-SCALE CROSS-CULTURAL RESOURCE MODELING</b><br>Andrew Fall, Gowlland Technologies Ltd, Victoria, BC, Canada  |
| 4:00  | <b>HANDLING DATA ERRORS IN FOREST PLANNING</b><br>Antti Mäkinen <sup>s</sup> , Jouni Kalliovirta, Jussi Rasinmäki<br><sup>s</sup> University of Helsinki, Helsinki, Finland   |  | <b>CO-OPERATIVE LAND MANAGEMENT: THE PROCESS, THE PLAYERS, THE SUCCESSES</b><br>Jim Adams, Nicola Similkameen Innovative Forestry Society, Merritt, BC, Canada   |
| 4:30  | <b>COMPLEXITY VERSUS ACCURACY: INCLUSION, EXCLUSION AND AGGREGATION OF DATA ELEMENTS AND THE EFFECTS ON STRATEGIC HARVEST SCHEDULING PROBLEMS</b><br>Dave Waddell <sup>s</sup> , Tim Bogle, Christine Fletcher, Atmo Prasad, <sup>s</sup> Ministry of Forests and Range, Victoria, BC, Canada |  | <b>HAIsla PERSPECTIVES ON TIMBER SUPPLY IN HAIsla TRADITIONAL TERRITORY</b><br>Whitney Lukuku <sup>s1</sup> , Michael Buell <sup>s2</sup><br><sup>s1</sup> Kitamaat Village Council, Kitamaat Village, BC, Canada, <sup>s2</sup> Cortex Consultants Inc., Victoria, BC, Canada |

6:00 pm

**BUFFET DINNER**

# AGENDA – DAY TWO

Wednesday June 13

8:00 am

Plenary Session B  
ENVIRONMENTAL CONSIDERATIONS  
Moderator – Greg Lawrance

Environmental Services Market in Forestry  
**Gary Bull, Associate Professor, University of British Columbia, Vancouver, BC, Canada**

Looking back and thinking forward  
**Jim Snetsinger, Chief Forester, Province of British Columbia, Victoria, BC, Canada**

Spruce Budworm and management planning  
**Dave MacLean, Dean, University of New Brunswick, Fredericton, NB, Canada**

10:30 am to 9:00 pm

FIELD TRIP AND EVENING BARBEQUE

## ***Field trip***

*A bus tour of the Cowichan Municipal Forest on southeastern Vancouver Island has been arranged. Stops will include sites within the forest as well as stop at the BC Forest Discovery Centre.*

*The tour will proceed from the Harbour Towers Conference Centre at 10:30 and travel to a lunch spot where a boxed lunch will be provided. The tour will end at the Quw'utsun' Cultural and Conference Centre for an evening salmon barbeque and First Nations cultural performance. We will return to the hotel about 10:00 pm.*

*The primary objective of the tour is to provide you with an opportunity to get know your fellow conference delegates.*

*If you have any dietary considerations please ensure that they are indicated on your registration.*

# AGENDA – DAY THREE

Thursday June 14

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| <b>6:30-8:00 am</b> | <b>Continental Breakfast</b> |
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| <b>8:00 am</b> | <b>Plenary Session C<br/>STAKEHOLDERS<br/>Moderator – Erik Wang</b> |
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Exploration of Forest Management Alternatives for Public Forest in New Brunswick  
**Thom Erdle, University of New Brunswick, Fredericton, NB, Canada**

British Columbia Central Coast planning project – managing clients and expectations  
**Doug Williams, Cortex Consultants Inc., Victoria, BC, Canada**

Modeling needs of a private timberland owner  
**Hamish Kerr, Vice President Strategic Planning and Forest Policy,  
TimberWest Forest Corp., Vancouver, BC, Canada**

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| <b>Adjournment of Plenary</b> |
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| <b>COFFEE BREAK</b> |
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| <b>10:00 Rm 205 Interactive Poster OMNR Dirk Kloss</b> |
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| <b>10:30 am</b> | <b>Concurrent Session G<br/>ECONOMICS<br/>Moderator – Dave Waddell</b> | <b>Concurrent Session H<br/>HABITAT<br/>Moderator – Atmo Prasad</b> |
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10:30 "WHAT HAPPENED TO ECONOMICS?" INCORPORATING FOREST BUSINESS ECONOMIC ATTRIBUTES INTO TACTICAL ANALYSIS AND PLANNING.  
Jonathan Armstrong<sup>s</sup>, Chris Niziolowski, <sup>s</sup>Forest Ecosystem Solutions Ltd., North Vancouver, BC, Canada

MANAGING FOR STRUCTURAL ATTRIBUTES CRITICAL TO MAINTAINING WILDLIFE HABITAT IN MANAGED STANDS AND LINKAGES TO FOREST ESTATE MODELLING  
Walt Klenner<sup>s</sup>, Ian Cameron, Dave Huggard, Russ Walton<sup>r</sup>  
<sup>s</sup>Ministry of Forests and Range, Kamloops, BC, Canada

11:00 INCORPORATING DEMAND CRITERIA INTO TRADITIONAL SUPPLY-BASED FOREST MODELS  
Douglas Jones<sup>s</sup>, Ugo Feunekes, <sup>s</sup>Remsoft Inc., Fredericton, NB, Canada

USING GOAL PROGRAMMING TO EVALUATE MPB AND WOODLANDS CARIBOU MANAGEMENT TRADEOFFS  
Janis Braze, Timberline Natural Resource Group Ltd., Edmonton, AB, Canada

11:30 A STUDY OF THE INCREMENTAL COSTS RELATED TO APPLICATION OF ECOSYSTEM-BASED MANAGEMENT  
Mihai Pavel, Forest Engineering Research Institute of Canada (FERIC), Vancouver, BC, Canada

HABITAT SUPPLY MODELLING IN BRITISH COLUMBIA  
Don Morgan, Ministry of Forests and Range, Smithers, BC, Canada

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| <b>11:35 Rm 205 Demo Seles Andrew Fall</b> |
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| <b>12:00 pm</b> | <b>BUFFET LUNCH</b> |
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1:00 pm

**Concurrent Session I  
SEEKING SOLUTIONS**  
Moderator – Tim Bogel

**Concurrent Session J  
DISTURBANCE**

Moderator –Christine Fletcher

1:00

**TARGET-ORIENTED MULTIPLE-PERIOD  
SIMULTANEOUS FOREST PLANNING USING SIMULATED  
ANNEALING ALGORITHMS**

Guoliang Liu, Forest Ecosystem Solutions Ltd, North  
Vancouver, BC, Canada

**INFLUENCE OF WINDSTORMS ON MARBLED MURRELET  
HABITAT DEVELOPMENT IN MANAGED COASTAL  
FORESTS OF WASHINGTON STATE; A SCENARIO-BASED  
ANALYSIS**

Weikko Jaross<sup>s</sup>, Scott Horton, Mark Teply <sup>s</sup>Washington  
State Dept. of Natural Resources, Olympia, WA, USA

1:30

**LINKING LP MODELS WITH SPATIALLY-EXPLICIT  
MODELS FOR FOREST PLANNING**

Michael Buell, Cortex Consultants Inc., Victoria, BC,  
Canada

**SUSTAINABILITY OF TIMBER SUPPLY CONSIDERING THE  
RISK OF WILDFIRE**

Glen W. Armstrong, University of Alberta, Edmonton,  
AB, Canada

2:00

**RECURSIVE GRAPH OPTIMIZATION FOR ACHIEVING  
SPATIAL STRUCTURE GOALS IN ESTATE MODELS**

Stephen Dewhurst, Northern Arizona University,  
Flagstaff, AZ, USA

**MID-TERM TIMBER SUPPLY IN THE WAKE OF THE  
MOUNTAIN PINE BEETLE**

Atmo Prasad<sup>s</sup>, Andrew Fall, Barry Snowdon, <sup>s</sup>Ministry of  
Forests and Range, Victoria, BC, Canada

2:30

**TO OPTIMIZE OR NOT TO OPTIMIZE: A  
PRACTITIONER'S PERSPECTIVE**

Cam Brown, Forsite Consultants, Salmon Arm, BC,  
Canada

**SCHEDULING HARVESTS IN AN ENVIRONMENT OF  
INSECT DISTURBANCE**

Jason McLelland, Kevin Crowe, Lakehead University,  
Thunder Bay, ON, Canada

3:00 Rm 205 Demo Patchworks Tom Moore

COFFEE BREAK

3:30 pm

**Concurrent Session K  
DECISION CHOICES**  
Moderator – John Nelson

**Concurrent Session L  
CLIMATE CHANGE AND CARBON**

Moderator – Doug Beckett

3:30

**ASSESSING HABITAT CONDITIONS FOR DISPERSING  
OWLS ACROSS SPACE AND TIME: COMBINING EXPERT  
OPINION WITH EMPIRICAL DATA TO ASSESS  
ALTERNATIVES IN WASHINGTON STATE'S FOREST LAND  
PLANNING PROCESS**

Angus Brodie, Sean Gordon, Heather McPherson<sup>s</sup>,  
Lowell Dickson<sup>s</sup>, <sup>s</sup>Washington State Department of  
Natural Resources, Olympia, WA, USA

**SPRUCE BUDWORM EFFECTS ON OPTIMUM TIMBER  
SUPPLY AND CARBON SEQUESTERED FOR AN  
INDUSTRIAL FOREST IN NEW BRUNSWICK**

Chris Hennigar<sup>s</sup>, David Maclean, <sup>s</sup>Univ. of New  
Brunswick, Fredericton, NB, Canada

4:00

**UNCOVERING SOCIAL AND ANALYTICAL FACTORS  
CONTRIBUTING TO THE SUCCESSFUL APPLICATION OF  
DECISION SUPPORT SYSTEMS FOR FOREST  
BIODIVERSITY MANAGEMENT**

Sean Gordon, USDA Forest Service, PNW Research  
Station, Portland, OR, USA

**FOREST AND NATURAL RESOURCES MANAGEMENT AND  
CLIMATE CHANGE: COMMUNICATING TO RESOURCE  
MANAGERS THROUGH COOPERATIVE EXTENSION.**

Chris Jones<sup>s</sup>, Michael Crimmins, and George Zaims.  
<sup>s</sup>University of Arizona, Globe, AZ, USA

4:30

**COST EFFECTIVE PLANNING APPROACHES TO  
SUSTAINING BIODIVERSITY AT THE LANDSCAPE LEVEL  
IN THE MANAGED FORESTS OF SOUTHEASTERN BRITISH  
COLUMBIA**

Ralph Wells, University of British Columbia, Vancouver,  
BC, Canada

**STAND LEVEL ANALYSIS OF THE IMPACT OF CARBON  
CREDIT TRADING ON THE BEHAVIOUR OF A FORESTRY  
FIRM**

Patrick Asante<sup>s</sup>, Glen W. Armstrong, <sup>s</sup>University of  
Alberta, Edmonton, AB, Canada

Safe Travels