

# BENEFITING FROM SILVICULTURE TODAY AND TOMORROW!



#### **Benefiting from Silviculture Today and Tomorrow**

Silviculturaly, British Columbia has come of age. Over the past 30 years we have made tremendous strides; we have seen unparalleled improvements in reforestation through improved seedling production and planting stock quality. BC's tree improvement program has produced genetic material that has demonstrated gains in volume and growth exceeding 25% of material from natural stand seed. Improved cost effective silviculture practices have resulted in greatly reduced regeneration delay periods and our stands are achieving free-to-grow status earlier. Tree breeding has reduced losses to pest problems and has made diseases such as White pine blister rust, and White pine weevil in Sitka spruce manageable. Other silvicultural activities, such as improved site preparation techniques and late rotation fertilization, have demonstrated increased yields.

It is not time, however, to sit back on past achievements, uncertainty about product demand, markets, and climate change, can impact our species selection, stocking standards and silvicultural practices. Competition for fibre for pulp and bio-energy is not far down the road and may significantly influence how we manage, and harvest our forests – let's not wait until it's too late to react – now is the time!

Progressive and innovative techniques and approaches are out there to be brought to light and used to strengthen the future of our sector. This workshop is intended to look at some of the ongoing work in silviculture and forest management that could have further significant impacts on the future silviculture in coastal BC.

Cover images: Courtesy of Michel Vallee

## **Coastal Silviculture Committee Winter Workshop**

## "BENEFITING FROM SILVICULTURE TODAY AND TOMORROW"

## February 25, 2010

## Vancouver Island University - Nanaimo Campus

Registration		7:30
Coffee and Re	efreshments	8:00
Welcome and	d Introduction - Jack Sweeten, R.P.F., MFR – CSC Chair	8:35
	• Safety	
	CSC committee thank-you	
	Introduction of the four themes	
Theme #1	Regeneration- creating options	8:50
	Don Pigott - Yellow Point Propagation	
	Elk impacts on regeneration	8:55
	- Graham Hues, R.P.F., Area Forester, WFP	
	Multi-block stocking standards	9:20
	- Allan Powelson R.P.F., MFR - Forest Establishment Initiatives Officer	
	<u>High genetic gain seedlots</u>	9:45
	- Brian Saunders, R.P.F., Operational Forester, Island Timberlands	
Coffee/Refre	shment Break	10:05
Theme #2	Increasing productivity through silviculture activities &	
	managing for diversity	10:40
	Lauchlan Glen, R.P.F. – MFR, BCTS	
	<u>Fertilization</u>	10:45
	- Jeff McWilliams, R.P.F, B.A. Blackwell and Associates Ltd.	
	Mount Benson woodlot site prep trials	11:10
	- Brian D'Anjou, BSF, R.P.F., Research Silviculturalist, MFR	
	<u>Update on SIBEC research to improve site index estimates.</u>	11:35
	- Shirley Mah, BSF, M.Sc., MFR – Research Branch	
Lunch Break	(Hot Lunch Provided – Building 300 – Administration/Cafeteria)	12:10
	CSC Annual General Meeting – Lisa Meyer, MFR	12:30

Keynote Speaker 12:45

#### Introduction by Dave Weaver, R.P.F. - MFR

Diane Medves, R.P.F. Director, Forest Practices Branch, MFR - Victoria

Over the years, Diane worked in a variety of forestry positions on the coast such as a silviculture forester, manager of a nursery and tree improvement operation, and operational researcher. Diane has also been involved in a number of specialized forest management activities including First Nations consultation and Forest Certification; more recently, Diane spent one year with the Roundtable on Forestry Secretariat and, for the past two years, has worked as the Director of Forest Practices Branch with the Ministry of Forests & Range

Diane will give her perspective on issues related to the Minister's Silviculture Discussion Paper

#### Theme #3 Reducing risk – forest health, climate change Craig Wickland, R.P.F. - MFR Resistant White Pine / Sitka Spruce material 13:15 John King, PhD, R.P.F., Research Scientist, MFR – Research Branch Strategic Gypsy Moth control 13:40 Jennifer Burleigh, RPBio, R.P.F, MFR- Forest Practices Branch <u>Silviculture and wildfire – Making the link</u> 14:05 Ed Korpela, PhD, FIT, MFR - Fire Management Specialist **Coffee/Refreshment Break** 14:30 Theme #4 Adding value – wood quality, & reduce waste Michel Vallee, R.P.F. - VIU Using Acoustic Velocity to predict hemlock wood quality 14:55 Jeff Sandford, J.S. Sandford & Associates Ltd Modeling Bioenergy for the Clean Power Sector > 10 MW 15:20 Paul Liddy, President, Suncurrent Group Inc. Conclusion, closing remarks and wrap-up 15:50

Jack Sweeten, R.P.F., MFR - CSC Chair



## Coastal Silvicultural Committee Board of Directors – 2010

Bancroft, Bryce
Dunn, Scott
Elder, Ron
Lasuta, Bill
Lauchlan, Glen
Meyer, Lisa FOR:EX
Mitchell, Al
Negrave, Roderick FOR:EX
Pigott, Don
Scott, Mel
Stewart, Dean R FOR:EX
Sweeten, Jack R FOR:EX
Vallee, Michel
Weaver, David W FOR:EX
Wickland, Craig M FOR:EX

Scott.Dunn@gov.bc.ca
rjfe@telus.net
blasuta@dccnet.com
Lauchlan.Glen@gov.bc.ca
Lisa.Meyer@gov.bc.ca
amitchel@pfc.cfs.nrcan.gc.ca
Roderick.Negrave@gov.bc.ca
ypprop@shaw.ca
melscott@shaw.ca
Dean.Stewart@gov.bc.ca
Jack.Sweeten@gov.bc.ca
Michel.Vallee@viu.ca
David.Weaver@gov.bc.ca
Craig.Wickland@gov.bc.ca

BryceB@telus.net

## **2010 Winter Workshop Planning Committee**

Jack Sweeten - Chair
Craig Wickland
Lauchlan Glen
Don Pigott
Lisa Meyer
Dave Weaver
Al Mitchell
Michel Vallee

## BUSINESS MEETING AGENDA FEBRUARY 25, 2010

## Coastal Silviculture Committee

- Call to order
- Additions to the agenda
- Adoption of the agenda
  - 1. Discussion on Distribution of Bursaries

•	UBC	2@\$ 500.00
•	VIU	2@\$ 500.00
	Total	\$2000.00

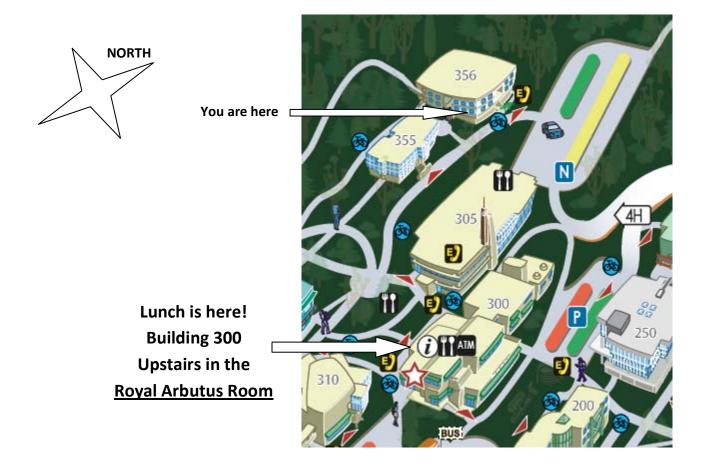
- 2. Bursary Presentation to Vancouver Island University recipients
- 3. Financial Statement January 2009 December 2009
- 4. Confirmation of Status of Current Directors, and Election of New Directors
- 5. Discussion on Summer workshop fees, location, ideas
- 6. Adjourn

## Financial Report January 1 to December 31 2009 **Coastal Silviculture Committee**

January	1 2009	BALANCE				12,476.57
CSC BUS	post office I Society ann	oox		131.25 25.00		
BURSAR	IES		_	2,000.00	(156.25)	(156.25)
WINTED	WORKSHO	n p	-	,	(2,000.00)	(2,000.00)
Income	WORKSH	JF				
	Registration cash gift	ns	-	10,242.00 2,000.00	40.040.00	
Expenses					12,242.00	
·	Printing Co	V rental, gratuities sts Services/ MC VISA		2,290.00 451.00 975.00		
	presenters	gifts	<u>-</u>			
SUMMER	WORKSH	IOP			(3,716.00)	8,526.00
Income						
	Registration	าร	_	9,760.00	0.700.00	
Expenses					9,760.00	
				1,890.00 877.50 467.55 3,066.66		
	snacks for b			215.79 1,500.00		
	Speakers for Souvenirs	ees/ gifts		550.08 925.53	(0.400.44)	000.00
OTHER					(9,493.11)	266.89
Income	bank intere	st	<u>-</u>	104.27	404.07	404.07
Expenses	setting up v Silviculturis USB storag water pump	t of the year award e card		262.50 85.55 39.19 79.90	104.27	104.27
			-		(467.14)	(467.14)
DECEM	BER 31,	2009 BALANCE				18,750.34
SUMMAR	Υ					
	Bank accou	ints chequing high interest/no fee short term GIC	10146.49 3802.45 4801.40			

**TOTAL** 

18,750.34



#### **Biography:**

Name: <u>Graham J. Hues RPF</u>.

**Affiliation:** Western Forest Products Inc – Mid Island Forest Operations

**Position:** Area Forester

**Responsibilities:** Most aspects of basic forest management. **Academic training:** BCIT Grad. 1975 – RPF 1994– Pupil Program.

**Previous employment:** 1999 – Present, WFP - various positions in Gold River and

Campbell River; pre 1991-1999 – IFP Campbell River, 1975-

1990 - FC/BCFP - various operations.

#### **Presentation Abstract:**

Topic and/or Title: Forest Management Issues with Elk.

Many parts of the Coast Region have experienced an increase in Elk populations, either through the introduction of Elk herds into new areas or through favorable local habitat conditions.

This presentation will review the reforestation issues with Elk and some of the mitigation strategies that WFP MIFO (TFL 39) has experienced. Also it will review the overall costs and question the need to implement a reduced stocking standard for Heavy Elk use areas.


## Biography:

Name:	Allan Powelson, R.P.F.
Affiliation:	Ministry of Forests and Range
Position:	Forest Establishment Initiatives Officer
Responsibilities:	Reforestation policy and legislation
Academic training:	M.Sc. (Forest Science), SIBC
Previous employment:	Forest Industry Consulting
resentation Abstract:	
Topic and/or Title:	
•	on Strategies (Multi-block stocking standards)
Landscape level Reforestati A description of the opports strategies and multi-block s	on Strategies (Multi-block stocking standards) unities and challenges of utilizing landscape level reforestation tocking standards in BC. Examples of multi-block stocking standards using on commonalities and innovative approaches.
Landscape level Reforestati A description of the opports strategies and multi-block s	unities and challenges of utilizing landscape level reforestation tocking standards in BC. Examples of multi-block stocking standards
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#### Biography:

Name: <u>Brian Saunders</u>
Affiliation: Island Timberlands

**Position:** Area Forester

**Responsibilities:** Planting, Brushing, Seed Supply, Contract Administration **Academic training:** Bachelor of Science in Forestry – UBC 1985 Graduation

**Previous employment:** MacMillan Bloedel/Weyerhaeuser

**Biography:** Brian has worked in the Forest Industry for a little over 20 years. Six of

those years were spent in a sawmill. The remainder of his career has been spent working as a Silvicultural Forester; first for MacMillan Bloedel in the Queen Charlottes and later for Weyerhaeuser's South Island Operation. He

currently works for Island Timberlands.

#### **Presentation Abstract:**

Topic and/or Title: <u>Deployment of Improved Seed</u>

The Chief Forester's Standards requires the use of improved seed on crown land. There is no such requirement on private lands in BC. However, the two major private land owners in BC deploy higher genetic gain seed than what is typically deployed on crown land. This disparity exists mainly because the benefits of deploying improved seed accrue primarily to the land owner when the trees are harvested. However, there are benefits that can be realized early in the rotation - shorter time to achieve "Free Growing", lower brushing costs, and disease resistance. In order to make the best use of this improved seed it is important to match the seed to the site. After ensuring that the transfer limits are not exceeded the next most important consideration is to ensure the highest genetic gain seed is deployed on the best growing sites. This will maximize the improvement in Net Present Value (NPV) for the forest estate. Further improvement in NPV can be realized through the deployment of Single Families instead of mixed lots of seed. Realizing the benefits of single family deployment is very challenging. The deployment of single families site can make the management of planting projects exceptionally challenging as it is necessary to maintain sufficient genetic diversity across the landscape and match the family to the site.


#### **Biography:**

Name: <u>Jeff McWilliams, RPF</u>

Affiliation: B.A. Blackwell and Associates Ltd.

Position: Senior Associate

Responsibilities: Strategic Forest Management

Academic training: BSF, 1985 UBC

Previous employment: Interfor (1985 to 1993)

#### **Presentation Abstract:**

#### **Topic and/or Title:**

**Fertilization Opportunities and Challenges** 

- Research Results; what we know and don't know
- Key Issues for Fertilization Planning
- Opportunities for Manual Treatments
- Opportunities for Cw on non-SCHIRP sites
- Fertilization and Carbon Sequestration; is there a business case?
- Recommendations


#### Biography:

Name: <u>Brian D'Anjou</u>

Affiliation: Ministry of Forest, Coast Forest Region - Nanaimo

**Position:** Research Silviculturist

**Responsibilities:** Research

**Academic training:** BSF, UBC (1979)

**Previous employment:** Joined the Research Section in the Vancouver Forest Region of the B.C. Ministry of Forests in 1979 and began conducting independent and co-operative reforestation research, shifting to vegetation management research in the mid to late 1980's. In the 1990's collaborated in Silviculture Systems Research in Boston Bar, Roberts Creek (Sunshine Coast), Queen Charlotte Islands and west coast of Vancouver Island.

#### **Presentation Abstract:**

**Topic and/or Title**: Enhancing Early Douglas-fir Seedling Growth on a Dry, Salal-dominated Site

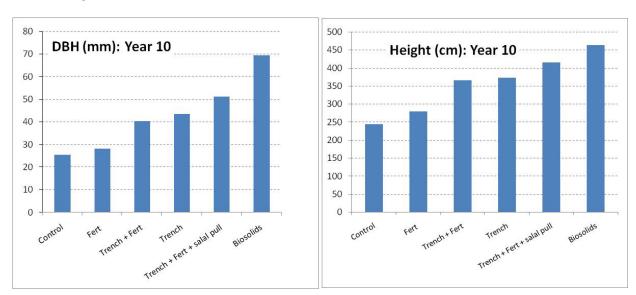
Douglas-fir seedling growth response to disc trenching site preparation and fertilization at planting (FAP), applied separately and combined, was monitored on a site in the CWHxm. A control prescribed seedling planting only. A skidder pulled a TTS Disc trencher. FAP prescribed one Gromax teabag (21-6-2, 1.9 g N) placed in the planting hole. Biosolids were broadcast applied operationally in year 7, growth of seedlings receiving biosolid was compared to earlier treatments.

- 1st year seedling survival lagged in the FAP treatment (77%); mortality was attributed to premature nutrient release. Survival in other treatment (between 95 and 100%) changed little during the measurement period (up year 12); fertilized seedlings in trenches (Trench +FAP) did not show negative effect of fertilizer.
- The FAP treatment provided a single year of growth benefit. Subsequent growth paralleled the control seedlings.
- Height and stem calliper growth was initially highest in the Trench+FAP treatment (reaching free-growing height two years sooner than control) but stem calliper growth in the trenched-only treatment increased and is now similar to the combined Trench+FAP treatment. 5th year foliar N and K were below adequate levels in all treatments.
- Biosolid application (700-800 kg N / ha) enhanced both height and stem caliper growth over the earlier treatments. By year 12 stem height in biosoild treatment averaged 650 cm, more than twice the height of control seedlings (312cm). Site index estimates (Douglas-fir meters @50 yr) based on 12<sup>th</sup> measurements include: Control: 21.8 m , Trench+FAP: 22.8 m and biosolid: 31.4 m. Results suggest a type 2 growth response where the benefits of treatment are sustained and differences between treatments are increasing.

On drier and nutrient poor sites, salal typically has little effect on Douglas-fir survival but may reduce growth, a result of competition for moisture and/or nutrients. Site preparation aimed at reducing salal abundance and fertilization at planting have potential to improve Douglas-fir short and long-term growth rates. Malaspina College (Paul Lucas and David Smith) and MoF researchers collaborated to establish a demonstration block in the CWHxm (very dry maritime), site series 03 (FdHw – Salal) to quantify Douglas-fir seedling development following disc trenching (Trench) and fertilization at planting (FAP) applied separately and combined. A fourth treatment prescribed repeated manual pulling all salal around the seedling after the Trench + FAP to document Douglas-fir growth with a minimum of salal influence. A planting only treatment, the fifth treatment in the original design acted as the Control. A John Deere 748E skidder pulling a TTS Disc trencher to create trenches while FAP prescribed one Gromax teabag (Gromax Starter Paks: Forestry Dry Site with polymer gel 21-6-2 supplying 1.9 g N) placed in the planting hole.

First year seedling survival was lowest in the FAP treatment (77%) with mortality attributed to premature release of nutrients, burning seedling roots. First-year survival in other treatment ranged between 95 and 100%; fertilized seedlings in trenches (Trench +FAP) did not demonstrate negative effects of the fertilizer. By year 7, ranking of treatments by from highest to lowest stem calliper and total height were identical: 1) Trench + FAP + repeated salal pulling, 2) Trench + FAP, 3) Trench, 4) FAP and 5) Control. Biosolids applied operationally in year 7 surrounding the trial increased both height and stem calliper growth over the Trench+ FAP + repeated salal pulling. Initial review of 12<sup>th</sup> year height and stem calliper growth trends suggest the most successful treatments demonstrate a type 2 growth response where the benefits of treatment are sustained and differences between treatments are increasing. Enhanced Douglas-fir growth may hasten crown closure and the shading out of remaining salal.

Figure 1. Tenth-year average dbh (mm) and total stem height (cm); treatments ranked by increasing dbh and height.




#### **Biography:**

Name: <u>Shirley Mah</u>

Affiliation: MFR Research Branch

**Position:** A/Team leader Ecology program and Interpretations

**Ecologist** 

**Responsibilities:** BEC/Ecology unit, research and development of ecologically-

based management interpretations; current areas include

climate-based tree species selection, ecosystem-site

productivity relationships, and ethno-ecology

**Academic training:** BSF, M.Sc.

**Previous employment:** Has worked for the Forest Service for over 17 years, involved

with ecological classification and interpretations research,

FREP, First Nations and TSR

#### **Presentation Abstract:**

#### Topic and/or Title:

"Update on SIBEC research to improve site index estimates".

- Overview of the SIBEC project (EP1215)
- Methodology for first and second generation SIBEC site index estimates
- Use of SIBEC estimates, examples of application strategic and operational
- Where to find info on SIBEC and the latest set of estimates:

www.for.gov.bc.ca\hre\sibec


#### **Biography:**

Name: <u>John N. King</u>

Affiliation: BC Forest Service, Research Branch
Position: Research Scientist / Tree Breeder

**Responsibilities:** Research into Genetic Resistance for Sitka spruce against tip

weevil and white pine against blister rust

**Academic training:** PhD

**Previous employment:** Over 30 years in the field of tree breeding and forest

genetics research

**Presentation Abstract:** (Please limit your abstract to this box size)

Topic and/or Title: Resistant White Pine / Sitka Spruce: Results, Where We Are and Missing Opportunities.

Over 30 years of Research in both these programs (by the BCFS Research Branch, CFS, Forest Industry and Universities): one with a serious insect pest and another with an imported pathogen produced some pleasing results. We have used natural resistance found in both these host species to aggressively pursue a program of selective breeding to restore these species. This has not at all eliminated pest and pathogen but we have learnt a lot about them and now can deliver seed that at a conservative estimate can reduce damage by one half. With knowledge of sites and suitability foresters can now safely plant both Sitka spruce and white pine with confidence. The bad news is that local foresters are still staying away from these species. This is not the case with U.S. foresters on both public and private land in Oregon and Washington. Why this is the case is open to speculation. But but it is a shame that we are not reaping the benefit ourselves of this important research and are missing valuable opportunities.


## Biography:

Name:	Jennifer Burleigh, RPF, RPBio	
Affiliation:	BC Ministry of Forests and Range, Forest Practices Branch	
Position:	Provincial Forest Entomologist	
Responsibilities:	All things related to tree-impacting bugs	
Academic training:	BSc, (Biology), Masters (Forest Entomology)	
Previous employment:	Research Branch – MPB Research Coordinator	
	Consulting companies throughout western Canada (SK, AB,	
	BC)	
1		
Presentation Abstract:		
Topic and/or Title:		
British Columbia's Gypsy Mo	th Fradication Program	
Bitusii Columbia's Gypsy Wo	til Eldulcation Flogram.	

#### **Biography:**

Name: <u>Ed Korpela</u>

Affiliation: Ministry of Forests & Range
Position: Fire Management Specialist

**Responsibilities:** Various aspects surrounding Fire management – planning,

research, policy, etc for the Coast Forest Region

**Academic training:** BSc Deg Humboldt State University – Forest Management

and Range Management; MSc Deg Humboldt State

University – Natural Resources; PhD Oregon State University

- Rangeland Resources

**Previous employment:** Bureau of Land Management in the US, Forestry Intensified

Research Program at Oregon State University, Alberta Research Council as a Research Scientist and some

Consulting before joining the Ministry of Forests and Range

#### **Presentation Abstract:**

**Topic and/or Title: Silviculture and Wildfire - Making the Link** 

Linkages between silviculture and wildfire are based upon an understanding of the effect of stand structure upon wildfire behavior. This presentation provides a brief review of fire behavior and principles of forest fuel reduction linked with silviculture and subsequent impacts upon wildfire behavior. Related fire and silviculture concerns in the coast forest region environment are also addressed

#### **Biography:**

Name: <u>Jeff Sandford</u>

Affiliation: J.S. Sandford & Associates Ltd

**Position:** Principle

**Responsibilities:** Project Manager, Software Development, Research **Academic training:** College diploma in Arboriculture, continuing studies

**Previous employment:** 1987 – 2009 MacMillan Bloedel Limited – Land Use Planning

Advisory Team (LUPAT), Weyerhaeuser, Cascadia Forest Products, Western Forest Products as researcher, technical

coordinator, contract manager, and FIA Land Base

Investment Program coordinator.

#### **Presentation Abstract:**

Topic and/or Title: Using Acoustic Velocity to Predict Hemlock Wood Quality

Two acoustic velocity (AV) devices are currently available to assist foresters and forest land managers in predicting characteristics of wood quality of standing trees and cut logs. One of these devices can be used to sample standing trees, the other can be used to sample cut logs. The latter can be built into mill processes and machinery to help sort and direct logs towards different mill processes and final products. The devices are relatively inexpensive and easy to use and provide information by using sound waves and resonance data. Predicting wood quality has the potential to increase the profit margin of raw logs and wood products.

Acoustic velocity data was collected from standing western hemlock trees at sites near Jordan River, Port Alberni, and Campbell River in the fall and winter of 2009/10. Additional information was recorded at each sample site including stand density, age, site index, height, BEC variant, slope, aspect, and elevation. It is hoped that this data will contribute towards a better understanding of the variability and range of acoustic velocity readings within western hemlock and how site factors effect differences in AV values.

#### **Biography:**

Name: <u>Paul Liddy</u>

Affiliation: Cedar Road LGF Inc

Position: Managing Director

**Responsibilities:** Strategic planning, administration, leadership

Academic training: C.E.T,

**Previous employment:** None, Started Suncurrent Group of Companies in 1981

#### **Presentation Abstract:**

Topic and/or Title:
Modeling Bioenergy for the Clean Power Sector > 10 MW
Present the key components and challenges to economic viability for small wood fiber producers.  Outline the steps to apply and reach an energy purchase agreement with BC Hydro Standing  Offer Program.

## **Participants**

First Name	Last Name	Organization
Geoff	Annandale	
Kevin	Astridge	Ministry of Forests and Range - FPB
Bryce	Bancroft	Symmetree Consultants
Bill	Beese	Western Forest Products
Jerry	Benner	Benner Forestry Ltd.
Tom	Bown	Canadian Wood Fibre Centre
Russell	Brewer	B.C. Timber Sales
Jennifer	Burleigh	Ministry of Forests and Range - FPB
Trevor	Campbell	Student
Charlie	Cartwright	MFR - Research Branch
Ryan	Clark	Capacity Forest Management
Tim	Crowder	TimberWest
Marilyn	Curtis	PRT
Brian	Danjou	MFR
Louise	de Montigny	Research Branch
Bill	Dumont	<b>Dumont and Associates Forestry Consultants</b>
Heather	Dunn	MFR- South Island District
Iola	Elder	Sylvan Vale Nursery
Ron	Elder	Sylvan Vale Nursery
Claire	Errico	Student
Peter	Fielder	MFR
Bryan	Gander	Student - VIU, Forestry
Laura	Gilbert	Pro For Consulting Ltd
Lauchlan	Glen	B.C. Timber Sales – HQ, Nursery Services
Graeme	Goodmanson	Canadian Wood Fibre Centre
Lisa	Hayton	Ministry of Forests and Range
Don	Herriott	Capital Regional District - Watershed Protection
Rolf	Kellerhals	Discovery Forestry
John	King	BCFS, Research Branch
Dan	Kohlen	Student
Jodie	Krakowski	BC MFR research branch
Marty	Kranabetter	British Columbia Ministry of Forests and Range
Paul	Kutz	Western Forest Products

Megan Laing BCTS

Chris Laing Results Based Forest Management

Matthew LeRoy MFR-Victoria

Cameron Linklater Pro For Consulting Ltd.
Shirley Mah MoFR Research Branch

Jeff McWilliams B.A.Blackwell and Associates Ltd.

Lisa Meyer MOFR- TIB

Alan Mitchell CFS/CWFC

Eric Phillips FPInnovations - Feric Div.

Loni Pierce Student - VIU, Forestry

Don Pigott YELLOW POINT PROPAGATION

Allan Powelson Ministry of Forests and Range - FPB

Paul Rehsler Ministry of Forests & Range/FPB

Marie Robertson Capital Regional District

John Russell BC MFR research branch

Jeff Sandford J.S. Sandford and associates

Brian Saunders Island Timberlands

Beverley Schulte Island Pacific Research and Technical Services

Dean Stewart Ministry of Forests and Range

Nathanial Stoffelsma Arbutus Grove Nursery

Vladimir Strimbu fp innovations

Jack Sweeten MFR - Chilliwack Forest District

Michel Vallee Vancouver Island University

Rob Van Buskirk Student

Bodo von Schilling von Schilling Forest Management Ltd

George von Westarp Retired

Dave Weaver Ministry of Forests and Range - FPB

Craig Wickland Silviculture Forester - MFR, Coast Region

Marise Wickman Vancouver Island University

Bevin Wigmore TimberWest
Susan Zedel MFR-Victoria

Stefan Zeglen MFR-Coast Region