



# **“Managing for Multiple Resource Values through Silviculture”**

***2016 Winter Workshop  
Vancouver Island University  
February 23<sup>rd</sup> 2016***



Photo Courtesy of Don Pigott

## **Acknowledgements**

The Coastal Silviculture Committee (CSC) wishes to thank the following people for contributing their time and efforts in organizing the 2016 Winter Workshop...

- |                              |                                |
|------------------------------|--------------------------------|
| - Bryce Bancroft             | - Paul Barolet                 |
| - Shaun Mason - <b>chair</b> | - Ron Elder                    |
| - Cosmin Filipescu           | - Lauchlan Glen                |
| - Lisa Meyer                 | - Don Pigott - <b>co-chair</b> |
| - Jack Sweeten               | - Michel Vallee                |
| - Dave Weaver                | - Craig Wickland               |

The CSC would also like to thank Vancouver Island University for the venue.

On behalf of the CSC, the organizing committee would like to thank all the presenters for taking the time out of their very demanding schedules and lives to share their experience and knowledge with the rest of us.

## ***“Managing for Multiple Resource Values through Silviculture”***

“Because it’s 2015” Prime Minister Trudeau replied when asked about gender parity in his cabinet to reflect societal change of values. In its 2016 Winter Workshop, the Coastal Silviculture Committee proposes to explore how the practice of silviculture has evolved, along with public expectations, to manage for changing and multiple resource values.

In many parts of the world, silviculture strategies are currently being developed to manage forests differently. While silviculture practices and systems were originally developed to manage forests for the production of timber, in more recent times we have experienced a shift in needs and expectations from the wider public. In this regard, we are asking how silviculture can be used to achieve multiple forest values based on evolving society expectations. Our expert presenters will use several case studies to illustrate management for multiple resource values and support us to better understand how these values can be integrated in the silviculture of Coastal BC forests.

## 2016 CSC Winter Workshop – Feb. 23, 2016

### Vancouver Island University – Building 355 Room 203

#### *“Managing for Multiple Resource Values through Silviculture”*

Times	Topic Theme	Specific Topic Details	Speakers
8:50 am	<b>Workshop Chair Welcome</b>	Introductions / Safety	<b>Chair: Shaun Mason Co-Chair: Don Pigott</b>
9:00 am	<b>A Chief Forester's perspective</b>	WFPs Chief Forester's point of view on how silviculture is being used and /or impacted to manage for multiple values – such as visuals and recreational, relative to the public's expectations.	<b>Shannon Janzen Chief Forester Western Forest Products</b>
9:45 am	<b>Vegetation Management <i>Past Elimination to Present Integrated Approach</i></b>	An overview of Vegetation Management over the years to present practice – what is being achieved regarding other values?	<b>Russell Brewer Chris Runnals BCTS</b>
10:30 am	<b>Coffee</b>		
11:00 am	<b>Wildlife management <i>A case study with current Goshawk habitat project in treated stands</i></b>	A review of the Northern Goshawk habitat management project involving assessment of structural attributes from spaced/thinned treated stands and their potential in protecting this species at risk.	<b>Jeff Shatford South Island District MFLNRO</b>
11:45 am	<b>CSC Business Meeting</b>	Annual meeting required items	<b>Lisa Meyer, Director CSC</b>
12:00	<b>Lunch</b>		
1:00 pm	<b>Various rotation lengths for non-timber values</b>	An exploration of various rotation lengths primarily for non-timber values and their impact on silviculture practices moving forward.	<b>Ray Travers Consultant Ray Travers Forestry</b>
1:45 pm	<b>Silviculture And Watersheds Management</b>	Water and watershed management implications for operational forestry and the future role of silviculture on these coastal drainages.	<b>Kelly Cameron City of Mission</b>
2:30 pm	<b>Coffee</b>		
2:50 pm	<b>Integrated Silviculture Strategy (ISS) Initiative on the Coast</b>	A presentation of the ISS projects on the coast (specifically an update on the Port Alberni area Arrowsmith TSA) and how all values – including intensive silviculture zones – are being addressed or considered.	<b>Paul Rehsler Resource Practices Branch MFLNRO</b>
3:35 pm	<b>Summer Workshop Introduction – proposed June 8 &amp; 9, 2016</b>	A quick primer for the Summer 2016 CSC Workshop planned for the Duncan and Cowichan Valley area and the surrounding managed forest landscapes.	<b>Darrel Frank Municipal Forester North Cowichan Municipality</b>
3:45 to 4:00 pm	<b>Workshop Summary</b>		<b>Cosmin Filipescu</b>

## **Presenter Biography and Abstract**

### **Biography:**

**Shannon Janzen**, Vice President and Chief Forester  
Shannon Janzen was appointed Chief Forester in 2013. In her previous role as Manager, Strategic Planning, Ms. Janzen established strategic relationships with First Nations, environmental groups and various levels of government on the coast of B.C. Ms. Janzen now oversees Western's strategic business investments on crown lands and ensures the company continues to demonstrate sustainability throughout its operations and through the safe management of its forest tenures. Ms. Janzen is a Registered Professional Forester and holds a Bachelor of Science in Natural Resource Management from the University of Northern B.C.



### **Presentation Abstract:**

From her position of Chief Forester and VP with Western Forest Products, the largest Crown licensee on the Coast, will present a high-level perspective on how to manage successfully for multiple resource values in Coastal BC forests. Shannon will use a range of examples to illustrate land use policies and practices for multiple goals, such as visual and recreation values, First Nations objectives, and public expectations, while managing for timber. In addition, Shannon will provide an overview of current issues relevant to Coastal forestry.

[illegible]



## Presenter Biography and Abstract

### Presenter:

**Name:** Chris Runnals RFT

**Affiliation:** BCTS – Chinook BA

**Position:** Operations Tech

**Responsibilities:** Silviculture

**Academic Training:** BCIT grad 1985

**Employment:** Over 30 years of Silviculture experience primarily on the coast for the past 25 years. Based out of the Sea To Sky District office and responsible for delivery of the silviculture program in both the Chilliwack and Sea To Sky Forest Districts. Currently a member of the BCTS Provincial Silviculture Working Group, the Contract Efficiencies Working Group and a member of the BCIT Forest and Natural Areas Management Program Advisory Committee. Provides technical advice to many other local and provincial working groups and task teams on matters related to silviculture and data management.



### Co-Presenter:

**Name:** Russell Brewer, RPF

**Affiliation:** B.C. Timber Sales

**Position:** Practices Forester

**Responsibilities:** Silviculture, Site Plans, Appraisals

**Academic Training:** UM, UBC

**Previous employment:** GFC Forest Management

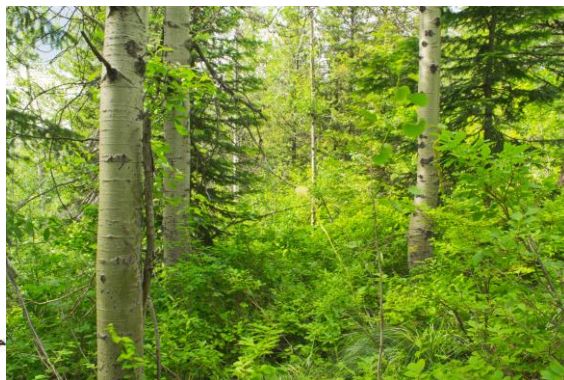


**Topic and/or Title:** Vegetation Management Past Elimination to Present Integrated Approach.

- An overview of Vegetation Management over the years to present practice – what is being achieved regarding other values.



The Past



The Future

[illegible]



## Presenter Biography and Abstract

### Biography:

**Name:** Jeff Shatford  
**Affiliation:** BC MFLNRO  
**Position:** Ecosystem Biologist  
**Responsibilities:** Wildlife Habitat Areas, Stewardship  
**Academic training:** MSc Forest Science, UBC  
**Previous employment:** Senior Research Assistant,  
2000-2007 Forest Science, Oregon State University,  
Corvallis OR.  
2007-2013 Ecologist, Wood Buffalo National Park, Parks Canada



### Presentation Abstract:

## Assessing the Impact of Silvicultural Treatments on Goshawk Habitat in 2<sup>nd</sup> growth forests.

Historically, forest managers were interested in density management from a practical and economic perspective. Changing values has led to an interest in the potential use of stand management on wildlife and wildlife habitat, e.g. the availability of space, cover, food, microclimate and other features.

Since the 1970's, thousands of hectares of 2<sup>nd</sup> growth forests on Vancouver Island have been subject to silvicultural treatments; spacing of naturally regenerated stands, fertilization trials and commercial thinning at various ages and intensities. To date, only limited monitoring and assessments have been undertaken to determine the impacts of these treatments on wildlife habitat. In our region Northern Goshawks (*Accipiter gentilis laingi*) are of concern due to the loss and fragmentation of suitable habitat related to intense forest harvest practices. This project aims to investigate the relationship between stand density management and goshawk habitat features in 2<sup>nd</sup> growth forests. It will review the impacts of stand management on stand structural characteristics with a focus on those features that are relevant to goshawk habitat selection. We propose to quantify the structural characteristics in young forests where goshawks have been observed, attempt to discriminate between goshawk and non-goshawk stand types in young 2<sup>nd</sup> growth, and understand the development of crown characteristics over time.

## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

# BUSINESS MEETING AGENDA

## FEBRUARY 23, 2016

### Coastal Silviculture Committee

Call to order

Additions to the agenda

1. Financial Statement – January 2014 – December 2014
2. Discussion Items :
  - Clarification of directors roll in the distribution of CSC funds – Jack Sweeten
  - Open discussion
  - Jason Coates – VIU endowment
3. Bursary Presentation to Vancouver Island University recipients
4. Confirmation of Status of Current Directors, and Election of New Directors
5. Adjourn

# COASTAL SILVICULTURE COMMITTEE

## FINANCIAL REPORT

### JANUARY 1 - DECEMBER 31, 2015

<b>Balance – January 1 2014</b>				<b>15,663.90</b>
<b>CSC Administrative Expenses</b>				
Post Office Box	163.80			
Courier for BCIT/UBC Bursaries	27.20			
Ministry of Finance	25.00			
		216.00		
<b>Donations</b>				
CIF - National Forest Week	500.00			
		500.00		
<b>Bursaries</b>				
VIU	0.00 <sup>1</sup>			
UBC	2,200.00			
BCIT	1,200.00			
		3,400.00		
<b>Winter Workshop</b>				
Registrations	9,465.41			
			9,465.41	
<b>Expenses</b>				
Catering, audio-visual, gratuities, extension services, CC charges	3,465.30			
Printing	578.78			
Presenters' expenses and gifts	443.99			
		4,488.07		
<b>Summer Workshop</b>				
Registrations	18,835.00			
			18,835.00	
<b>Expenses</b>				
Catering, audio visuals, presenters' gifts	8,373.74			
Coffee break snacks	336.14			
Transportation	4,530.00			
Printing	665.42			
Extension Services and CC charges	432.34			
		14,337.64		
<b>Other Revenues</b>				
Bank Interest	9.19			
GST recovery	266.81			
			276.00	
		22,941.71	28,576.41	
<b>Balance – December 31 2015</b>				<b>21,298.60<sup>2</sup></b>

- 1 The VIU Bursaries are generated through an endowment
- 2 VIU Account \$17,118.01/ Coast Capital account \$4,180.46

## Presenter Biography and Abstract

### Biography:

**Name:** Ray Travers R.P.F. (Ret.)  
**Affiliation:** ORTravers Forestry Consultants Inc.  
**Position:** President  
**Responsibilities:** Consultant  
**Academic training:** B.Sc. F. (UBC), M.F. (OSU)  
**Previous employment:** BC Forest Products 1966-1971, Indian and Northern Affairs 1972-1973, ELUC Secretariat 1974-1980, Ministry of Environment, Fish and Wildlife 1981-1990, Private Forestry Consultant 1990-present



### Abstract:

Want a strong forest future. Managing for multiple resource values provides an opportunity to accomplish this goal. To realize this opportunity, alignment of three critical factors will be required:

1. Knowledge of the forest's ecological potential at all spatial and temporal scales (age class distribution) to optimize all resource values;
2. Utilization of the skills, knowledge and technology inherent in the third reset (i.e. R. Florida concept) in the global forest economy to spatially realize the gains in forest productivity and the generation of new wealth;
3. Tenure reform that ensures unearned increases in wealth accrue to the forest landowner (the Province) and the value of increased benefits are shared with the licensee and managers of non-timber resource values.

The silvicultural regime with the best capacity to optimize all resource values has high initial stocking, extended rotations, with or without frequent light commercial thinning. These benefits will include:

- Reduced land area in regeneration stages (reduced visual impact; lower regeneration costs; less need for herbicides and slash burning; reduced frequency of ecological gaps);
- Larger trees and higher quality wood;
- Opportunity to improve present unbalanced age distributions;
- Improved habitat for some wildlife (in addition to riparian, wildlife winter ranges etc.);
- Hydrological and long-term site productivity benefits; and
- Increased carbon storage associated with larger growing stock.

All organizations perform in two time periods – today and tomorrow. The kind of tomorrow we will have depends on the knowledge, foresight and commitment of decisions made today.

The most resilient forests will be one with a wide ecological margin between the demand for human benefits and the forests capacity to generate those benefits. Ongoing issues to address will be scale, balance, diversity and quality.

[illegible]



## Presenter Biography and Abstract

### Biography:

**Name:** Kelly Cameron, RFT  
**Affiliation:** Mission Tree Farm Licence 26 (1996 to present)  
**Position:** Forest Technologist  
**Responsibilities:** Silviculture Program, Site Plans, Cutting Permit applications, forest education, forest recreation planning, Forest Stewardship plans  
**Academic training:** Diploma of Technology, BCIT  
**Previous employment:** 1991-1996 – Chilliwack Forest District – Woodlot licence program



### **Development and Silviculture planning and implementation in Community Watersheds.**

Kelly will discuss the unique challenges faced when developing timber and the subsequent reforestation obligations within community watersheds.

Tree Farm Licence 26 is located on the rural interface with the community of Mission, BC.

At 10,500 ha in size, with rural residential properties intermixed between TFL private and crown lands, active consultation and protection of individual and community water licences is key to maintaining good relationships and community trust in carrying out forest management.

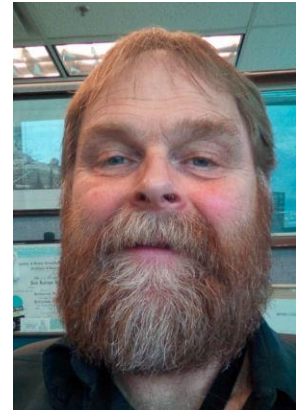
From this presentation, you will be able to apply how you can scale the TFL practices and procedures to apply on your own interface small drainages with water licences.

[illegible]

## **Presenter Biography and Abstract**

### **Biography:**

**Name:** Paul Rehsler, RPF  
**Affiliation:** Resource Practices Branch, FLNR  
**Position:** Silviculture Reporting and Strategic Planning Officer  
**Responsibilities:** Silviculture Strategies, Integrated Silviculture Strategies, RP Branch IT Working Group  
**Academic training:** BCIT 1978, UBC 1986, SIBC 1997  
**Previous employment:**  
1992-current: Resource Practices Branch  
1986 – 1992: Forestry Consultant



### **Presentation Abstract:**

#### **Integrated Silviculture Strategy – Arrowsmith TSA**

Silviculture strategies provide context for management decisions necessary to achieve forest level (TSA or TFL) objectives. Since their inception, silviculture strategies are always improving, and creating solutions for an increasing number of forest management issues.

Today, resource professionals are looking at enhancing strategies to take into account all local values. The process is collaborative and iterative. The process may also put a value other than fibre supply as a priority for management consideration. The process brings together practitioners to assess the situation within an administrative unit and decide upon key questions, risks to values, and solutions.

The Integrated Silviculture Strategy (ISS) process is flexible as it uses local plans, timber supply and stewardship issues to derive opportunities through scenario analysis. In some cases, the shift to second growth may suggest an acceleration of late rotation fertilization, while in other areas it may be the need for greater understanding of the population of a species considered threatened or of special concern. Planting to achieve long term resilience from climate change is another objective that can be explored. To reduce long term risk, both ecologically and financially, fire and its potential impacts are brought into the decision process. The issues and solutions can drive funding priorities as well as management actions.

In 2014/15, the Arrowsmith TSA began the ISS process in concert with its TSR, and is exploring added direction on co-location of reserves as directed by the Acting Chief Forester. The ISS provides an active venue for local First Nations to provide their objectives and key values into the planning process.

[illegible]

## Presenter Biography and Abstract

### Biography:

**Name:** Darrell Frank, RPF

**Affiliation:** Municipality of North Cowichan

**Position:** Municipal Forester

**Responsibilities:** Manages 5,000 hectares of Municipally-owned forest, with a mission to “maintain and enhance North Cowichan's valuable municipal forest resources for all users through sustainable forestry, ecological stewardship, & sound fiscal management”.

**Academic training:** Graduated from BCIT in 1975 in Forest Resource Management and went on to obtain a Bachelor's degree in Forestry from UBC in 1980.

**Previous employment:** Forestry Assistant with BC Forest Products at the Renfrew Division, as a contractor for various companies, including North Cowichan and the Federal and Provincial Government Forestry Job Creations program, and as a log buyer and manager for a hardwood sawmill in Vancouver.

Darrell has taken a leadership role in numerous local organizations and events, including the Canadian Institute of Forestry; the 1988 Forestry Capital of BC, Duncan, North Cowichan (co-chair); the 1994 Annual General Meeting of the Professional Foresters (co-chair); and the Lake Cowichan Combined Fire Organization and the South Island Fire Management Organization (treasurer). He is also an active member of the Ceevacs Roadrunners Club.

In terms of thing to see at North Cowichan for the summer work shop - North Cowichan Municipal

#### **Forest Maple Mt Area:**

1. Cowichan Valley Trail Stewards Society 20 km of Single track mountain biking and hiking trails on the 980ha Municipal Forest reserve. Trails managed and maintained by the Society working jointly with North Cowichan
2. Recent cut block and new plantation M-500 area planted and trees caged to help deal with the heavy browsing by deer Synocast cages
3. Pw plantation and aggressive pruning to deal with blister rust.

#### **Mount Richards Area:**

1. We have a plantation next to a subdivision with an invasion of scotch broom, heavy deer browsing and we applies a foliar application of the Herbicide vision in the fall of 2015 to slow down the broom. Oh yes the block has a well on our property to accommodate one of our neighbors.

#### **Mount Tzouhalaem or Stoney Hill:**

- 1 Lots of options here we could go visit the new road and hike out to the bluffs over sansum narrows or go to Mt Tzouhalem and look at the interface between the Residential subdivision and the Municipal Forest Reserve, new out house and trail head

Darrell's thoughts in terms of other things we can talk about like sawmills, lunch at Averill Creek vineyard overlooking the Cowichan valley from the south face of Mount Prevost. Maridale Cider tour Cobble Hill.

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2016 CSC Winter Workshop  
Registrants

First Name	Last Name	Organization	Email
Sandy	Allen	NRCan	<a href="mailto:sandra.allen@canada.ca">sandra.allen@canada.ca</a> ;
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2016 CSC Winter Workshop  
Registrants

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Jarret	Lontayao	VIU - Student	<a href="mailto:jarret.lontayao15@gmail.com">jarret.lontayao15@gmail.com;</a>
Amanda	Mackenzie	VIU - Student	<a href="mailto:winterblossom@hotmail.com">winterblossom@hotmail.com;</a>
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