



Coastal Silviculture Committee

2024 Winter Workshop

February 21st, 2024

Resilience

Adapting to Change



Acknowledgements

The Coastal Silviculture Committee (CSC) wishes to thank the following people for contributing their time and efforts in organizing the 2024 Summer Workshop:

- Craig Wickland (President)
- Neil Hughes
- Laura Gilbert
- Paul Kutz
- Kwadwo Omari
- Ritchard LaBoucane
- Jack Sweeten (Vice President)
- Margaret Symon (Secretary)
- Don Pigott
- Daniel Oxland
- Cole Schneider

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



And finally, 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.

“Resilience – Adapting to Change”

Welcome to the 2024 Winter workshop, and hopefully one that runs smoothly and unaffected by a sudden winter storm such as we experienced last year. You would need to have had your head in the sand over the last few years not to have heard over and over again the word “resilience”. It has permeated our society from the experience that was Covid-19 and has flowed all around the forestry realm whether in relation to old growth management, wildfire hazard reduction or just climate change. So, no surprises then that the CSC committee thought it necessary to bring forward a series of talks and discussions revolving around that theme. And of course, once we start thinking about resilience then almost immediately, we are forced to consider “change” and adapting to it. Now those of us who have been around a little longer than average will be saying “nothing new about change” when it comes to forestry in BC, but within the climate change paradigm we are talking change that is not about politics or social responsibility, but simply about doing what we can to maintain our forests in a healthy and productive state – Resilient to whatever climate change is going to lay on us.

And so today we have a broad range of topics ranging from a new approach to landscape level planning under the FRPA amendments, to considerations of climate change impacts on ecology and more specifically drought to considerations on forest health and seed and species selection. And of course, we will never really improve our practices to meet the challenge if we are not monitoring effectively and so we will be talking silviculture surveys!

Paul Kutz and **Ritchard LaBoucane** will be your CSC co-chairs for this workshop. On behalf of the entire workshop organizing committee and the CSC directors we hope you all find the day enjoyable and take the opportunity to re-engage with your fellow foresters. Refreshments, snacks, and a hot lunch will be provided.



Paul Kutz



Ritchard LaBoucane

**2024 Coastal Silviculture Committee (CSC) Winter Workshop – February 21st, 2024
Vancouver Island University – Room B356**

“Resilience – Adapting to Change”		
Times	Topic Theme	Speakers
8:00 – 9:00 (1 hour)	Registration	
9:00 (15 min)	Workshop Introduction Territorial Acknowledgment Safety	Co-Chairs Ritchard LaBoucane Paul Kutz
09:15 (45 minutes)	Resilience from a landscape to stand level planning perspective - Hišuk ma ćawak Integrated Resource Management Plan (HIRMP) example	Stuart Glen Marina Rayner (Intro Paul)
10:00 (30 minutes)	Coffee Break	
10:30 (45 min)	Climate change and ecological effects	Colin Mahony/Heather Klassen (Intro Craig)
11:15 (45 min)	Forest Health Overview – current condition and future predictions	David Rusch/Babita Bains (Intro Ritchard)
12:00 (15 min)	Business Meeting / Student Bursaries	Jack Sweeten Margaret Symon
12:15 (60 min)	Lunch	
13:15 (45 min)	Drought/Heat – Tools for assessment, management considerations	Vanessa Foord (Intro Neil)
14:00 (45 min)	What's new in silviculture surveys and free growing	Taisa Brown (Intro Craig)
14:45 (15 min)	Coffee Break	
1500 (45 min)	Seed and species selection from a private forest land perspective	Dan Oxland/Florian Diesenhofer (Intro Laura)
15:45 – 16:00 (15 min)	Intro to Summer CSC 2024 and wrap-up	Jack Sweeten

Presenter Biography and Abstract

Biography:

Name: Marina Rayner, RFT

Affiliation: MR Indigenous Resource Consulting

Position: Consultant

Responsibilities: Indigenous Resource Management, Policy, Relationships

Academic training: Forestry Resources Tech Diploma



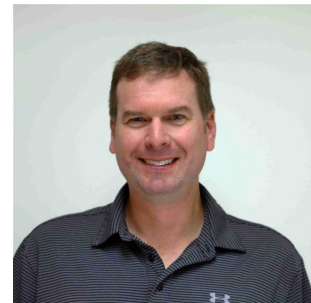
Name: Stuart Glen, RPF

Affiliation: Western Forest Products

Position: Chief Forester

Responsibilities: Stewardship, Analysis, and Inventory

Academic training: BSF



Resilience from a Landscape to Stand Level Planning Perspective -Hišuk ma ćawak Integrated Resource Management Plan (HIRMP)

The Huu-ay-aht led Hišuk ma ćawak Integrated Resource Management Plan (HIRMP) is a collaborative planning approach to land and resource management. In partnership with HFN Forestry Limited Partnership, C awak ʔqin Forestry, and Mosaic Forest Management (Mosaic), the HIRMP integrates a full range of values and stewardship measures across the entire ʔahuuʔi. The HIRMP is anchored in the connectivity of values and balances the ecological, cultural, and economic benefits aligned with the Sacred Principles of:

- ʔiisaak - utmost respect
- ʔuuʔaʔuk - taking care of
- Hišukma ćawak - everything is one.

Hišukma ćawak is foundational to sustaining ecological resilience and requires embracing a very connected approach to planning. Connected planning builds up from the natural landscape respecting local ecological characteristics to simultaneously connect all values, their stewardship, and the resulting pattern of blocks and roads. This approach leads to increased certainty of stewardship outcomes and enables the transformative shift needed to respect the dynamic nature of ecosystems and the associated principles of ecosystem health and biodiversity including ecological resilience.

In this session, we will explore how the HIRMP has embraced a very connected approach to planning to sustain resilience from the landscape to stand level.

Presenter Biography and Abstract

Biography:

Name: Colin Mahony, PhD RPF

Position: FOR Research Climatologist and Team Lead of the Future Forest Ecosystems Centre

Responsibilities: Better climate data; climate change informed species selection; supporting the forest sector in climate change adaptation.

Academic training: PhD at UBC Forestry (Prof. Sally Aitken)



Name: Heather Klassen, PAg

Position: MOF Coast Area Research Ecologist

Responsibilities: Coast BEC, Climate Change Research

Academic training: MSc UNBC



Presentation Abstract:

Climate Change and Ecological Effects

Climate change is affecting the forest ecosystems of BC's coast, but in ways that are less obvious than the widespread drought and wildfires experienced in BC's interior. This session will draw on the experiences and insights of the workshop participants to identify how climate disruptions are affecting coastal forest ecosystems, and what we can do about it. Key questions are:

- **Red Flags** – What ecological changes have you observed that you attribute to climate change?
- **In the Pipeline** – What are the potential future ecological disruptions that you are concerned about?
- **Current practices** – What is the coastal forest industry currently doing well, in terms of promoting forest resilience? What needs to change?
- **Innovation** – What are some novel or underutilized forest management practices that can improve the resilience of coastal forest ecosystems and the forest sector?

We will conclude the session by highlighting some resources and initiatives that coastal silviculture practitioners can use to respond to climate disruptions.

Bring your ideas and experiences to share with the group!

Forest Health Overview – current condition and future predictions

Presenter Biography and Abstract

Biography:

Name: Babita Bains

Affiliation: Ministry of Forests

Position: Provincial Forest Health Officer

Academic training: BSc in Biology, UVic and MSc in Forest Health, UBC

Babita Bains, MSc., RPF, realized she wanted to be a forester after completing her undergraduate degree in biology from the University of Victoria and several seasons of tree planting. In 2005, Babita enrolled at UBC to complete her RPF requirements but was side-tracked and ended up completing her MSc in forest health. In 2010, she started her “professional” career as a consultant with B.A. Blackwell & Associates Ltd. where she had the opportunity to work on a broad range of projects, but in 2015 Babita decided she needed a change of pace and joined BCTS as the Seed and Seed Planning Officer. In 2017 Babita was provided with the exciting opportunity to join the Ministry of Forests, Forest Health Team and after six years as the Provincial Forest Entomologist she has moved into the Provincial Forest Health Officer position in September 2023.

Name: David Rusch

Affiliation: Ministry of Forests

Position: Regional Pathologist

Academic training: MSc in Forest Science from UBC

I graduated with a M.Sc. in Forest Science from UBC in 1993, where I studied laminated root rot. After that I ran a small consulting company, Rot Rooters Forest Consulting, based out of Parksville. In 2007, I joined the Ministry of Forests as a forest health technician in the Chilcotin. I served a brief stint as regional entomologist for the Cariboo in 2013 and then became the regional pathologist for the Cariboo and Thompson Okanagan from 2013 to 2021. In 2021, I became the regional pathologist for the coast area. I have 2 adult daughters and live with my wife of 29 years in Nanaimo.

Topic: Forest Health Overview – current condition and future predictions.

Presenter Biography and Abstract

Biography:

Name: Vanessa Foord

Affiliation: Ministry of Forests

Position: Research Climatologist for the North Area, Professional Agrologist

Academic training: MSc in Earth Science from SFU

Vanessa Foord is the Research Climatologist for the North Area, B.C. Ministry of Forests. She has been studying climate change and its impacts to northern B.C. ecosystems, primarily in relation to natural disturbances such as the mountain pine beetle, rusts of lodgepole pine, drought, landslides, and more recently wildfire. She was part of a team of researchers that created a forest drought risk assessment tool and currently runs several projects on understanding drought trends in the province and how recent drought events have related to tree mortality.

Presentation Abstract:

Drought/Heat – Tools for assessment, management considerations

Drought is complicated and not common in British Columbia historically. This presentation will cover some of the recent research to understand drought trends, recent drought events, how climate change relates to drought, and attempts at short- and long-term projections of drought. Examples of where observations have been made on recent drought impacts on trees and how they relate to climate conditions, including the impact of the 2021 heat dome, will also be shown.

Presenter Biography and Abstract

Biography:

Name: Taisa Brown

Affiliation: Ministry of Forests

Position: Silviculture Performance Assessment Specialist

Responsibilities: FG framework, monitoring, silv surveys

Education: BScF

Previous employment: Area Forester



Presentation Abstract:

What's New in Silviculture Surveys and Free Growing

- Swiss needle data collection procedures
- Ocular assessment suitability matrix and BMPs

- Free Growing Working Group:
 - Current limitations
 - Planned short and midterm changes
 - Possible long-term changes
 - Future engagement opportunities

Presenter Biography and Abstract

Biography:

Name: Daniel Oxland, RPF

Affiliation: Manulife Investment Management

Position: Senior Forester

Responsibilities: Silviculture, harvest supervision, fire hazard abatement, engineering.

Academic training: Honours Bachelor of Science in Forestry – Lakehead University class of 2011

Previous employment:

Team Lead – Strategic Natural Resource Consultants (2012-2019)

Silviculture Forester – Green Forest Management (2011-2012)



Presentation Abstract:

Seed and species selection from a private forest land perspective

Four different seed lots from Washington and Oregon were transferred to Vancouver Island for a seed movement test in 2017. Seedlings were grown at a nursery on Vancouver Island and out-planted on three different test sites. We will share height and survival data from two of the three sites after seven growing seasons.

We will discuss the motivations behind this study, the objectives and provide some background on the differences in tree improvement and seed production approaches between BC and the states of Oregon and Washington.

We will end the presentation with some early take-aways from this project and how it has shaped Manulife's reforestation program on Vancouver Island.

Presenter Biography and Abstract

Biography:

Name: Florian Deisenhofer

Affiliation: Washington State Dept. of Natural Resources

Position: Silviculture Scientist

Responsibilities: Coordinate Silviculture Research, Monitoring

Academic training: M.S. Silviculture (OSU & Munich, Germany)

Previous employment:

Silviculture Manager – Hancock Forest Management (2013-2021)

Region Silviculturist - WA State Dept. of Natural Resources (2000-2013)



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CSC Financials 2023

01 Jan 2023 Balance Forward \$42,667.62

CSC Spring Workshop June 13,14 2023 Nanaimo

Expenses:

VIU (Feb. 2023)	\$1,050.00
Event Insurance (Feb)	\$ 205.00
Speaker Gifts (June)	\$ 726.05
VIU Catering (June)	\$ 549.15
Bus Transport (Forest Coach Tours) (June)	\$3,729.00 (incl. tip)
Event Insurance (June)	\$ 205.00
Workshop PPE (June)	\$ 59.95
Cottonwood Golf Course (dinner, June 13)	\$4,000.00
VIU (June catering)	\$5,795.40
(bagged lunches June 13,14, refreshments indoor June 13)	
CSC Silv. Award	<u>\$ 80.00</u>
	<u>\$ 16,339.60</u>

Workshop Revenues:

SIFMO (Donation – SIFMO sponsored coffee break Spring workshop)	\$ 500.00
Eventbrite \$19,750 - Eventbrite processing (573.20) & service fees (\$863.27)	\$18,008.34

Workshop Balance: +\$ 1,668.74

Other Expenditures:

UBC Ron Elder Scholarship 2 x \$1000	\$2,000.00
BCIT 3 scholarships x \$1000	\$3,000.00
NFW BC Coalition	<u>\$200.00</u>

Total Expenditures: Workshop, Scholarships, NFW \$21,935.96

Total Revenues: \$18,508.34

Term Deposit 2,031.28

31 Dec 2023 Balance Forward \$45,405.28