65th Western International Forest Disease Work Conference
Tigh-na-mara Resort, Parksville, British Columbia
October 2 – 6, 2017

Monday, October 2, 2017

Time	Event	Moderator	Location/Description
3:30 – 6:00	Registration		LOWER FOYER
5:00 – 8:00	Social, No-Host bar		GRAND STRATHCONA ROOM

Tuesday, October 3, 2017

Time	Event	Moderator	Location/Description
7:00 - 8:30	Registration		LOWER FOYER
7:00 - 8:30	**BREAKFAST** - Rust Committee Meeting	Paul Zambino	GRAND STRATHCONA ROOM
8:30 – 8:40	**WELCOME TO WIFDWC #65**	Harry Kope	WALBRAN ROOM
8:40 - 9:00	BC and its Forests - **Diane Nicholls, BC Chief Forester**	Harry Kope	WALBRAN ROOM
9:05 – 10:00	**FLASH and DASH** (see list of presentations on Page 5)	Betsy Goodrich	WALBRAN ROOM
10:00 - 10:30	**BREAK**		
10:30 - 12:00	**PANEL – ASSISTED MIGRATION**	Alex Woods	WALBRAN ROOM

10:30 – 10:55 **Nick Ukrainetz, British Columbia MFLNRORD**
Genetic Variation, Adaptation and Climate Change: Implementing Assisted Gene Flow to Keep Trees Healthy

10:55 - 11:20 **David Shaw, Oregon State University**
Native forests and assisted migration, some cautions

11:20 - 12:00 **Dean Meason, SCION, New Zealand**
Climate change impacts & assisted migration – looking beyond the doomsday scenario

12:00 – 1:30	**LUNCH** - Twig and Foliage Committee Meeting	Harry Kope	GRAND STRATHCONA ROOM
1:30 - 3:00	**PANEL – EMERGING DOUGLAS-FIR ISSUES**	Jared LeBoldus John Browning	WALBRAN ROOM

1:30 – 1:50 **Kelsy Søndreli, Oregon State University**
Comparing virulence and sporulation of *Phytophthora ramorum* EU1 and NA1 isolates on Oregon conifer species

1:50 - 2:10 **Jared LeBoldus, Oregon State University**
Population genetics, epidemiology, and phylogenetics of two widely distributed needle diseases in the PNW

2:10 – 2:30 **David Shaw, Oregon State University**
An epic tale of pathogen, host, and climate in coastal PNW

2:30 – 2:50 **Richard Hamelin, University of British Columbia**
The genomics of adaptation to climate change in the Douglas fir-Swiss needle cast pathosystem

Time	Event	Moderator	Location/Description
3:00 - 3:30	**BREAK**		
3:30 - 5:00	**SPECIAL PAPERS #1**	Dave Shaw	WALBRAN ROOM

3:30 – 4:00 **Robert Mathiasen, Northern Arizona University**
Contemporary Treatments of *Arceuthobium* Series Campylopoda: To be a species, a subspecies, a race, a form, or unrecognized - that is the question!

4:00 – 4:20 **Cynthia Ross-Friedman, Thompson Rivers University**
The Little Bang Theory: Explosive Seed Discharge in Dwarf Mistletoe

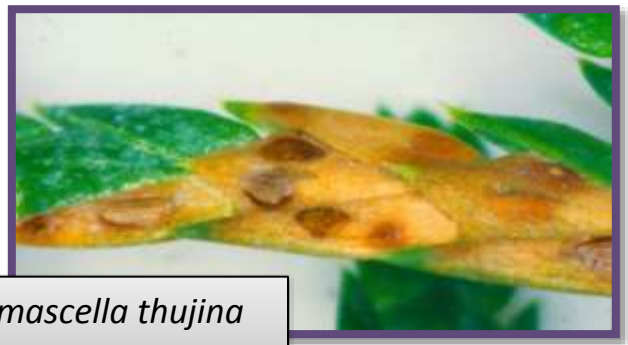
4:20 – 4:40 **Jennifer Klutsch, University of Alberta**
Using jack pine-dwarf mistletoe interactions to investigate the success of mountain pine beetle

4:40 – 5:00 **Andrea Garfinkel, Washington State University**
Botrytis in Alaska comes from the forest and attacks Peony!

5:00 – 7:00	**DINNER** on your own		
7:00 - 9:00	ICE CREAM SOCIAL Poster Session (see list of posters on Page 6 & 7) Silent Auction, Photo Contest	Betsy Goodrich, Sarah Navarro,	GRAND STRATHCONA ROOM

Wednesday, October 4, 2017

Time	Event	Moderator	Location/Description
7:00 - 8:30	**BREAKFAST** - Nursery Committee Meeting	Anna Leon	GRAND STRATHCONA ROOM
8:45 - 5:00	**FIELD TRIP** • Root disease management • Alder and poplar diseases • Dwarf mistletoe on shore pine • Managing for white pine blister rust • Sampling for *Phytophthora* • Decays, wildlife, mushrooms and big trees	Stefan Zeglen	**BUS** Bring sturdy shoes/boots (lots of walking in the field) and outer wear in case of rain. Snacks and a lunch will be provided.
6:00 - 8:00	**DINNER** - on your own OR Climate Change Committee Meeting	Alex Woods Susan Frankel Terry Shaw	GRAND STRATHCONA ROOM



Didymascella thujina on *Thuja plicata*

Rodent damage to a *Cronartium ribicola* branch canker on *Pinus monticola*

Thursday, October 5, 2017

Time	Event	Moderator	Location/Description
7:00 - 8:30	**BREAKFAST** - Root Rot Committee Meeting	Blakey Lockman	GRAND STRATHCONA ROOM
8:30 – 10:00	**PANEL – DROUGHT AND PATHOGENS**	Jane Stewart	WALBRAN ROOM
8:30 – 8:50	**Robbie Hember, University of British Columbia** Environmental impacts on forest productivity: Evidence from statistical models of tree growth and mortality		
8:50 – 9:10	**Janice Cooke, University of Alberta** Impacts of drought on the molecular and biochemical responses of pine to *Grosmannia clavigera*		
9:10 – 9:30	**Mike Cruikshank, Natural Resources Canada** Is host resistance to root disease connected with water balance and wood properties in Douglas-fir?		
9:30 – 9:50	**Brad Lalande, Colorado State University** Climate variables associated with components of Subalpine fir decline in Colorado		
10:00 - 10:30	**BREAK**		
10:30 - 11:15	**Business Meeting**	Harry Kope	WALBRAN ROOM
11:15 – 12:00	**SPECIAL PAPERS #2**	Dave Shaw	WALBRAN ROOM
11:15 – 11:30	**Ryan Lenz, PhD Student, Oregon State University** Agrobacterium-mediated insertional mutagenesis of the stem canker pathogen, *Septoria musiva*		
11:30 – 11:45	**K.A. Leddy, PhD Student, Colorado State University** Limber Pine Survey, Molecular Detection, and Effector Evolution of *Cronartium ribicola*		
11:45 – 12:00	**Grace Sumampong, PhD Student, Université Laval and Natural Resources Canada** Detection and monitoring the infection of *Heterobasidion occidentale* in western red cedar (*Thuja plicata*) seedlings		
12:00 - 1:30	**LUNCH** – Hazard Tree Committee Meeting	Kristen Chadwick	GRAND STRATHCONA ROOM
1:30 - 3:00	**PANEL – MADRONE DISEASES**	Marianne Elliott	WALBRAN ROOM
1:30 – 1:50	**Brenda Callan, Natural Resources Canada** Common diseases of Arbutus menziesii		
1:50 - 2:10	**Monique Sakalidis, Michigan State University** Madrone health survey results and discussion of endemic pathogens in a changing ecosystem		
2:10 – 2:30	**Gary Chastagner, Washington State University** Madrone common garden trials		
2:30-3:00	**BREAK**		
3:00 – 5:00	**WALKING FIELD TRIP** • Madrone Diseases • *Cryptococcus*: the fungus that kills • BC Parks danger tree assessment protocol • Drought: it happened here too		**WALKING** (see details on page8) 2 minutes each way. Wear proper footwear and outer wear in case of rain. Snacks and beverages will be provided.

Time	Event	Moderator	Location/Description
5:30 – 9:00	**DINNER** 5:30 – Social 6:30 – Banquet 7:30 – Guest Speaker = Shannon Berch, BC Ministry of Environment Cultivating and wild-harvesting truffles in British Columbia		WALBRAN ROOM

Friday, October 6, 2017

Time	Event	Moderator	Location/Description
7:00 - 8:30	**BREAKFAST** - Dwarf Mistletoe Committee Meeting	Dave Shaw	GRAND STRATHCONA ROOM
8:30 – 12:00	**FIELD TRIP** • Old growth and danger trees • Resistance testing western white pine • Swiss needle cast	Stefan Zeglen	**BUS** Bring sturdy shoes/boots (lots of walking in the field) and outer wear in case of rain. Snacks and beverages will be provided.
12:00	**CLOSE AND HAPPY TRAILS**	Harry Kope	

Meria sp. on *Larix occidentale*

Leptographium sp on *Pinus monticola*

Graduate Students 2017- FLASH and DASH

Juan A. Aldana, PhD Student
Centre for Forest Biology, University of Victoria
Defense mechanisms to Cedar Leaf Blight in Western Redcedar

Kiah Allen, MSc Student
Forest and Conservation Sciences, University of British Columbia
Investigation and characterization of *Cronartium* x *flexilis*, a hybrid pine stem rust

Patrick Bennett, PhD Student
Department of Botany and Plant Pathology, Oregon State University
An examination of factors influencing the genetic structure of the global Phaeocryptopus gaeumannii population

Vanessa Comeau, MSc Student
Tree-Ring Lab at UBC, Forest and Conservation Sciences, University of British Columbia
Is climate driving yellow-cedar decline in Haida Gwaii?

Yung-Hsiang "Sky" Lan 藍永翔, PhD Student
Forest Ecosystems and Society, Oregon State University
Relationship between canopy structure, microclimate, and SNC severity among different ages of Douglas-fir forests

Bradley Lalande, MSc Student
Bioagricultural Sciences and Pest Management, Colorado State University
Metagenomic approaches to determine soil microbial communities associated with Armillaria root disease

K.A. Leddy, PhD Student
Colorado State University
Limber Pine Survey, Molecular Detection, and Effector Evolution of *Cronartium ribicola*

Ryan R. Lenz, PhD Student
Department of Botany and Plant Pathology, Oregon State University
Septoria musiva and its economic, ecological, and scientific importance

Grace Sumampong, PhD Student
Université Laval and Natural Resources Canada
Detection and monitoring the infection of *Heterobasidion occidentale* in western red cedar (*Thuja plicata*) seedlings

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Posters 2017

Juan A. Aldana (jaldana@uvic.ca)
Center for Forest Biology, University of Victoria, Victoria, BC

Resistance mechanisms to *Didymascella thujina* in *Thuja* sp.: a histological, chemical and gene expression approach

Patrick Bennett (bennetpa@science.oregonstate.edu)
Dept. of Botany and Plant Pathology Oregon State University, Corvallis, OR

Evidence for Climate as a Driver of Genetic Divergence in Native Populations of the Douglas-fir Swiss Needle Cast Fungus, *Phaeocryptopus gaeumannii*

Jake Betzen (jakebetzen@gmail.com)
School of Environmental and Forest Sciences University of Washington, Seattle, WA

Bigleaf Maple Decline in Western Washington

James T. Blodgett (jblodgett@fs.fed.us)
USDA Forest Service, Rocky Mountain Region, Forest Health Protection, Rapid City, SD

Aspen in the Rocky Mountain Region

Vanessa Comeau (vmcomeau@gmail.com)
Forest and Conservation Sciences, Forestry, University of British Columbia, Vancouver, BC

Is Climate Change Driving Yellow-cedar Decline in Haida Gwaii?

Susanna Keriö (kerios@oregonstate.edu)
Dept. of Botany and Plant Pathology Oregon State University, Corvallis, OR

Virulence testing of *Sphaerulina musiva* isolates on *Populus trichocarpa* indicates genotype-by-genotype (GxG) interaction

Jennifer Klutsch (klutsch@ualberta.ca)
Department of Renewable Resources University of Alberta, Edmonton, AB

Overview of Resilient Forests Project: Integrating genomic, metabolic, and phenotypic data for tree improvement and the role of defense chemistry in pest resistance screening

Brent Oblinger (boblinger@fs.fed.us)
Forest Service, Forest Health Protection, Central OR Service Area, Bend, OR

Landscape-level planning to implement blister rust pruning in young western white pine on the Warm Springs Reservation, Oregon

Posters 2017

Simon Francis Shamoun (Simon.Shamoun@Canada.Ca)
Natural Resources Canada, Canadian Forest Service, Pacific Forestry Centre, Victoria, BC

Development of Species-Specific PCR Primers for Rapid Detection and Identification of North American *Heterobasidion* spp.

Simon Francis Shamoun (Simon.Shamoun@Canada.Ca)
Natural Resources Canada, Canadian Forest Service, Pacific Forestry Centre, Victoria, BC

Biological control of bay laurel re-sprouts using the fungus *Chondrostereum purpureum*

Rachael Sitz (Rachael.Sitz@colostate.edu)
Dept. of Bioagricultural Sciences and Pest Management, Colorado State University, Fort Collins, CO

Screening range-wide black walnut families for resistance to thousand cankers disease

Rachael Sitz (Rachael.Sitz@colostate.edu)
Dept. of Bioagricultural Sciences and Pest Management, Colorado State University, Fort Collins, CO

Thousand cankers disease severity is not determined by *Geosmithia morbida* genetic grouping nor a synergistic relationship with *Fusarium solani*

Kelsey L. Søndreli (Kelsey.Sondreli@oregonstate.edu)
Dept. of Botany and Plant Pathology Oregon State University, Corvallis, OR

Variation in susceptibility to *Phytophthora ramorum* among Southern Oregon tanoak families

Jewel Yurkewich (Jewel.Yurkewich@gov.bc.ca)
Ministry of Forests, Lands, Natural Resource Operations and Rural Development, Prince George, BC

Chestnut Red Stain: Identification of the fungi associated with the costly discolouration of *Castanea sativa*