2021 Western Mensurationists Meeting Agenda

Sunday, June 20, 2021		
16:00 – 18:00	Happy Hour Drop-in on Zoom	Meet old friends and
Pacific Daylight Time		make new ones – zoom
		breakout rooms will be
		available for small groups
Monday, June 21, 2021	MORNING	
9:00 – 9:05	Meeting opening and overview	Bianca Eskelson
9:05 – 10:30	IUFRO session: Linking growth models	Moderator: Woongsoon
	with remote sensing data	Jang
9:05 – 9:25	CanopyShotNoise – An individual-based	Arne Pommerening
	tree canopy modelling framework for	
	projecting remote-sensing data and	
	ecological sensitivity analysis	
9:25 – 9:45	The effects of thinning on crown structure	Ninni Saarinen
	of Scots pine trees	
9:45 – 10:00	Empirical growth models based on	Peter Surovy
	repeated laser scans in non managed area	
10:00 – 10:15	Regeneration survey using inexpensive	Adam Conrad
	unmanned aerial systems	
10:15 – 10:30	Simulating the growth of Larix olgensis and	Yu Bai
	predicting the future change using 3-PGS	
	Model	
10:30 - 10:45	Coffee break	
10:45 - 12:00	IUFRO session continued: Linking growth	Moderator: Mathieu
	models with remote sensing data	Fortin
10:45 – 11:05	LiDAR, Stands, FVS, and Woodstock. Happy	Clara Clark
	Together.	
11:05 – 11:25	Tree-Level monitoring of open canopy	Neal Swayze
	forests from UAS structure from motion	
	data	
11:25 – 11:40	Coupling LiDAR systems analysis with	John Kershaw
	growth and yield models and diameter	
	distribution models for spatially explicit	
	projections of standing timber in fast	
	growing Eucalyptus plantations	
11:40	Closing remarks for the IUFRO session &	
	quick overview for the networking sessions	
12:05 – 12:55	Networking sessions during lunch – Bring	See details on pages 4-6
	your own lunch!	

Monday, June 21, 2021	AFTERNOON	
13:00 – 14:30		Moderator: Lara Melo
13:00 – 13:20	Estimating Douglas-fir site index using a Lidar canopy height model and stand age in western Oregon and western Washington	Donald Gagliasso
13:20 – 13:40	Drivers of productivity differences between Douglas-fir planted within its native range in Oregon and on exotic sites in New Zealand	Liam Gilson
13:40 – 13:55	Crown ratio models for loblolly pine	Krishna Poudel
13:55 – 14:10	Development and testing an algorithm for estimating top height in TASS simulations	lan Cameron
14:10 – 14:30	Hierarchical Gaussian processes for modeling stand diameter distributions from forest inventory data	Brian Clough
14:30 – 14:45	Coffee break - Surprise! - DO NOT MISS!	
14:45 – 16:00		Moderator: Andrea Cameron
14:45 – 15:00	Thinning from above or below? Maximizing financial value in Douglas-fir rotations.	Todd West
15:00 – 15:20	How good is the data?	Fred Martin
15:20 – 15:40	Regional modeling of an invasive annual grass in the intermountain Pacific Northwest	Ty Nietupski
15:40 – 15:55	Importance of image pre-processing on the analysis of the imagery acquired with small unmanned aerial systems	Sudeera Wickramarathna
15:55 – 16:00	Closing remarks first day	
16:00 – 18:00	Happy Hour Drop-in on Zoom	Meet old friends and make new ones – zoom breakout rooms will be available for small groups

Tuesday, June 22, 2021		
9:00 – 10:30		Moderator: Peter Marshall
9:00 - 9:15	Bridging sampling with covariate designs and rapid biodiversity assessment to estimate local plant species richness	Tzeng Yih Lam
9:15 – 9:35	Decision Space for Field Application of Sector Sampling	Martin Ritchie
9:35 – 9:50	Biomass estimates derived from sector subsampling of 360° spherical images	John Kershaw
9:50 – 10:10	Big trees matter most: Plot optimization for ground-based tropical forest carbon inventories at both country and project scales	Bryan Foster
10:10 – 10:30	Seeing the forest for the clumps: characterizing clumpy regeneration and ladder fuels	Justin Crotteau
10:30 – 10:45	Coffee break	
10:45 – 11:55		Moderator: Celine Boisvenue
10:45 – 11:05	Post-stratified estimation: Realized and potential efficiency in a national forest inventory	James Westfall
11:05 – 11:20	Improving Forest Sample Estimation through UAS Canopy Structure Stratification	Logan Wimme
11:20 -11:40	Enhanced Forest Inventory using LiDAR data – a hybrid approach	Kat Gunion
11:40 – 11:55	Small area estimation in operational western forest inventories	Corey Green
11:55 – 12:05	Picture taking	
12:05 – 12:15	Plans for future years Announcements & Closing Remarks	Bogdan Strimbu Bianca Eskelson

Networking sessions for the Monday lunch hour: 12:05 - 12:55

The idea of the networking sessions is to give students and young professionals the opportunity to meet some of the other attendees, which may not be as easy in this year's virtual format as it used to be during in-person meetings. The hope is that folks show up in the sessions they are interested in, ask questions, and then move to other breakout rooms for small group or one-on-one discussions.

There are 5 networking sessions set up in the following breakout rooms (see more details on each session below):

- Provincial Government Session
- Natural Resources Canada Session
- United States Agency Session
- Industry & Consultants Session
- University Session

While we organized for some folks to specifically attend these sessions to be available for students and young professionals for discussions, please join the session that you fit in and participate. Once folks introduced themselves small groups can move into other breakout rooms as needed.

Provincial Government Session:

In this session, several employees from the British Columbia and Alberta provincial government introduce their groups within the government, talk about their job responsibilities, and discuss what skill sets they are looking for in new hires.

- **Woongsoon Jang**, Research Scientist, Forest Fertilization and Nutrition, Resource Practices Branch, BC FLNRORD *session moderator*
- **Catherine Bealle Statland**, Team Lead, Stand Development Modelling, Forest Analysis and Inventory Branch, BC FLNRORD
- Tim Salkeld, Manager, Forest Inventory, Forest Analysis and Inventory Branch, BC FLNRORD
- **Chris Butson**, Team Lead, Remote Sensing & Geospatial Applications, Forest Analysis and Inventory Branch, BC FLNRORD
- **Gary Johansen**, Team Lead, Productivity and Sample Data, Forest Analysis and Inventory Branch, BC FLNRORD
- **Katrina Froese**, Resource Analyst, Reforestation, Inventory and Biometrics Section, Forest Stewardship and Trade Branch, Government of Alberta
- **Chris Bater**, Forest Management Specialist (Remote Sensing), Reforestation, Inventory and Biometrics Section, Forest Stewardship and Trade Branch, Government of Alberta
- **Darren Aitkin**, Manager, Reforestation, Inventory and Biometrics Section, Forest Stewardship and Trade Branch, Government of Alberta

Natural Resources Canada Session:

In this session several research scientists from Natural Resources Canada introduce their group, what they do in their position, and how young researchers can prepare themselves to successfully apply for positions with Natural Resources Canada.

Celine Boisvenue, Research Scientist, Pacific Forestry Centre, Natural Resources Canada – *session moderator*

Joanne White, Research Scientist, Forest Inventory and Analysis, Natural Resources Canada

Jim Stewart, Research Scientist, Silviculture and Fibre Production, Natural Resources Canada

Mathieu Fortin, Research Scientist, Canadian Wood Fibre Centre, Natural Resources Canada

United States Agency Session:

Do you want to work for a US agency? In this session, several US agency employees introduce their group and provide tips on how to succeed in landing the agency job that you dream of!

Bianca Eskelson, University of British Columbia – session moderator

Martin Ritchie, Research Forester, Pacific Southwest Research Station, Ecosystem Function and Health

Andy Gray, Research Ecologist, Leader of the Inventory, Monitoring, & Analysis Team, Forest Service, Pacific Northwest Research Station

Erin Smith-Mateja, Forest Biometrician, Forest Vegetation Simulator, United States Forest Service **Peter Gould**, Data Scientist/Forest Biometrician, Washington State Department of Natural Resources

Industry & Consultants Session:

In this networking session, analysts working in industry or as consultants talk about their job responsibilities, their companies/groups, and the skill sets they are looking for in new hires.

Eleanor McWilliams, Forest Biometrics Analyst, J&E McWilliams & Associates Ltd. - session moderator

Cam Brown, Strategic Planning Forester / Manager, Forsite Consultants Ltd.

Sean Garber, Forest Biometrician, Rayonier

Donald Gagliasso, Forest Analyst, Mason Bruce & Girard Inc.

Theresa Marquardt, Forest Resource Analyst, Green Diamond Resource Company

Greg Johnson, Director, Advanced Forestry Systems, Weyerhaeuser NR Company

University Session:

In this networking session academics from different universities provide some insights about their careers. Join this session and ask questions about how to succeed in graduate school, land a tenure track job, or how to succeed once you landed that university job.

Peter Marshall, Professor, University of British Columbia – session moderator

Valerie LeMay, Professor, University of British Columbia

Temesgen, Professor, Oregon State University

Samantha Gill, Professor, Cal Poly

Leah Rathbun, Assistant Professor, North Carolina State University

John Kershaw, Professor, University of New Brunswick