

THE UNIVERSITY OF NORTHERN BRITISH COLUMBIA
Curriculum Vita for Faculty Members

Date: 14 June 2021

Initials:

1. **SURNAME:** Burton **FIRST NAME:** Philip
MIDDLE NAME: Joseph
2. **PROGRAM/LIBRARY/DEPARTMENT:** Ecosystem Science & Management Program,
and Regional Programs
3. **COLLEGE:** College of Science and Management
4. **PRESENT RANK:** Professor **SINCE:** 1 July 2015
5. **POST-SECONDARY EDUCATION** (most recent first)

University or Institution	Degree	Subject Area	Dates
University of Illinois	Ph.D.	Plant Biology	1983-1988
University of Hawaii	M.S.	Botanical Sciences	1978-1980
University of Saskatchewan	B.Sc.(Hon)	Biology (minor: Land Use & Environmental Studies)	1974-1978

Title of Dissertation and Name of Supervisor

“Constraints to Tree Invasion on a Nutrient-Rich Site During Old-Field Succession” (Supervisor: F.A. Bazzaz)

Special Professional Qualifications

Registered Professional Biologist (British Columbia), R.P.Bio. #839

6. **EMPLOYMENT RECORD** (most recent first)

(a) *Prior to coming to UNBC*

University, Company or Organization	Rank or Title	Dates
Natural Resources Canada, Canadian Forest Service	Manager of Northern Projects, Pacific Forestry Centre	2003-2012
Harvard University	Bullard Fellow in Forest Research	2002-2003
Symbios Research and Restoration	Partner	1995-2003
University of British Columbia	Assistant Professor	1989-1995
University of Virginia	Post-Doctoral Research Associate	1988-1989
Illinois Natural History Survey	Technical Research Biologist	1984-1988
Montreal Engineering Co. Ltd.	Plant Ecologist	1981-1983

(b) *At UNBC*

Rank or Title	Dates
Professor	July 2019 – present
Professor & Northwest Regional Chair	July 2015 – June 2019
Associate Professor & Northwest Regional Chair	Aug. 2012 – June 2015
Adjunct Associate Professor	July 2003 - Aug. 2012

(c) *Date of granting of tenure at UNBC:* 1 July 2015

7. LEAVES OF ABSENCE

University, Company or Organization at which Leave was taken	Type of Leave	Dates
University of Canterbury, Christchurch & Landcare Research, Lincoln, New Zealand; Laurentian Forestry Centre, Quebec City; University of Nevada Las Vegas	Sabbatical and Administrative Leave from UNBC	2017-07-01 to 2018-06-30
Canadian Forest Service, Natural Resources Canada	Devolvement (from Symbios Research & Restoration, to avoid potential conflict of interest)	2003-07-18 to 2012-08-27
Harvard Forest, Harvard University	Bullard Fellowship in Forest Research	Sept 2002 to June 2003

8. TEACHING (most recent activity listed first)

(a) *Areas of special interest and accomplishments*

- teaching and professional extension of concepts and applications in the disciplines of:
 - plant ecology, disturbance ecology, vegetation dynamics, ecological restoration, ecosystem management, forest regeneration, ecological silviculture, sustainable forest management, conservation biology and landscape ecology.
- graduate education;
- tutoring, one-on-one mentoring;
- field schools.

(b) *Courses taught at UNBC*

Session	Course Number†	Scheduled Hours	Class Size	Hours Taught*			Topic
				Lectures	Tutorials	Labs	
Wint 2021	NRES 422	24 <i>i.p.</i>	3**		12		Undergraduate Report
Wint 2021	ENVS/INTS 225	36 <i>i.p.</i>	25	36			Sustainability
Wint 2021	ENSC 452/652	36 <i>i.p.</i>	13	32			Reclamation & Remediation
Fall 2020	NRES 422	24	1**		12		Undergraduate Report
Fall 2020	BIOL 498 / NRES 730	36	8	36			Disturbance Ecology
Fall 2020	FSTY 408	36	29	36			Forest Policy
Sum 2020	NREM 333	36	26	6		30	Integrated Resource Mgmt.
Sum 2020	ENSC 499	36	1**		18		Ecological Restoration
Wint 2020	ENVS/INTS 225	36	26	36			Sustainability
Wint 2020	ENSC 452/652	36	25	33			Reclamation & Remediation
Wint 2020	NRES 422	24	2**		8		Undergraduate Report
Wint 2019	ENSC 452	36	4	33			Reclamation & Remediation
Wint 2019	NRES 422	24	1**		12		Professional Report
Fall 2018	NRES 730/ BIOL 498	36	13	33			Disturbance Ecology

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Session	Course Number†	Scheduled Hours	Class Size	Hours Taught*			Topic
				Lectures	Tutorials	Labs	
Wint 2017	NRES 422	36	3**		8		Professional Report
Wint 2017	ENSC 452/652	36	7	30			Reclamation & Remediation
Wint 2017	NRES 730	36	6	33			Disturbance Ecology
Fall 2016	NRES 422	24	1**		12		Professional Report
Wint 2015	NRES 422	24	1**		12		Professional Report
Wint 2014	BIOL 498 / NRES 730	36	11	36			Disturbance Ecology
Wint 2012 -Wint2013	NRES 799	36	1**		8		Vegetation Dynamics
Wint 2012	NRES 804	36	6		24		Graduate Seminar
Wint 2012	NRES 730	36	7	27			Disturbance Ecology
Fall 2011	NRES 801	36	6		33		Integrated Environ. Systems I (Biophysical Perspectives)
Fall 2010	NRES 801	36	10		33		Integrated Environ. Systems I (Biophysical Perspectives)
Wint 2010	NRES 730	36	7	27			Disturbance Ecology
Fall 2009	NRES 802	36	9		33		Integrated Environ. Systems II (Social Perspectives)
Wint 2009	BIOL 411	60	39	15*		11*	Conservation Biology
Fall 2008	FSTY 408	36	8	16*			Forest Practices & Mgmt. (Policy)
Sum 2008	NRES 799	36	1**		6		Classification and Regression Tree Analysis
Wint 2008	NRES 730	36	5	27			Disturbance Ecology
Wint 2008	BIOL 499**	36	1**		12		Population Viability Analysis in Plants
Wint 2008	BIOL 411	60	43	15*		11*	Conservation Biology
Wint 2007	NRES 703	36	5	18			Integrated Resource Mgmt.
Wint 2007	BIOL 411	60	44	15*		11*	Conservation Biology
Wint 2007	FSTY 206	60	15	12*		3*	Forest Biology
Wint 2006	BIOL 411	60	42	15*		11*	Conservation Biology
Wint 2006	FSTY 206	60	19	24		36	Forest Biology
Fall 2006	NRES 730	36	8	21			Disturbance Ecology
Wint 2005	NRES 730 / FSTY 498	36	7	27			Disturbance Ecology
Wint 2005	BIOL 411	60	48	15*		11*	Conservation Biology

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Fall 2004- Wint 2005	NRES 430	72	1**		24		Undergraduate Thesis
Wint 2004	NRES 703	36	10	18*			Integrated Resource Mgmt.

† courses numbered 499 and below are undergraduate courses; those above are graduate courses

i.p. course in progress

* hours split if co-taught, and exclude guest lecturers

** independent (directed) study or undergraduate thesis

(b) Courses taught at other universities

Session	Course Number†	Scheduled Hours	Class Size	Hours Taught			Topic
				Lectures	Tutorials	Labs	
Wint 2004	ER 328, U.Vic.	40	26	32		8	Forest Restoration
Fall 2001	ER 328, U.Vic.	40	~24	32		8	Forest Restoration
Wint 1995	FRST 505, UBC	36	~12	18			Forest Ecosystems: Restoration Ecology
Summers, 1992-'94	FRST 351, UBC	36	55-75	2		4	Interior Field School (coordinator)
Winters, 1990-'95	FRST 407, UBC	12	12-20	12			Vegetation Management
Falls, 1990-'93	FRST 307, UBC	52	60-90	32		12	Silviculture I
Winter 1991	FRST 505, UBC	36	~8	18	18		Forest Ecosystems: Biodiversity

† courses numbered 499 and below are undergraduate courses; those above are graduate courses

(c) Graduate Students Supervised (or Co-Supervised) – 25 (18 completed) over the last 30 years

Student Name	Program Type	Year		Principal Supervisor	Co-Supervisor(s)
		Start	Finish		
Andrew Boxwell	Master's Thesis	2019	2022	X	
Kimberly Lutz	Master's Thesis	2016	2021	X	
Nick Hamilton	Master's Thesis	2016	2020	X	
Victoria Kress	Doctorate	2015	2021		Marten Geertsema
Jose Haig	Master's Thesis	2014	2017	X	
Maxie Strohmeier	Master's Thesis, Aarhus University (Denmark)	2013	2014		Jørgen Olesen (Aarhus)
Alana Clason	Doctorate	2011	2017		Eliot McIntyre (CFS/Laval)
Benita Kaytor	Master's Thesis	2010	2016		Art Fredeen
Nancy Alexander	Doctorate	2013	Withdrew 2014	X	
Michelle Connolly	Master's Thesis	2011	2013	X	
Heather Klassen	Master's Thesis	2009	2012	X	
Darin Brooks	Master's Thesis	2006	2012		Roger Wheate
Bryan Pettit	Master's Thesis	2010	withdrew 2012		Roger Wheate
Allan Carson	Master's Thesis	2009	2012		Michael Rutherford
Sean Haughian	Master's Thesis	2007	2010	X	

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Student Name	Program Type	Year		Principal Supervisor	Co-Supervisor(s)
		Start	Finish		
Nancy-Anne Rose	Master's Thesis	2007	2009	X	
Irene McKechnie	Master's Thesis	2006	2009		Hugues Massicotte
Rick Pelletier	Master's Thesis, UBC	1995	withdrew 1997	X	
Dave Coates	Doctorate, UBC	1993	1997	X	
Russell Brewer	Master's Thesis, UBC	1994	withdrew 1995	X	
Tom Duralia	Doctorate, UBC	1992	withdrew 1995	X	
Xiaojie Li	Doctorate, UBC	1991	withdrew 1994	X	
Al Balisky	MSc Thesis, UBC	1991	1994	X	
Steve Cumming	Doctorate, UBC	1990	1995	X	
Laura Coward	MSc Thesis, UBC	1990	1993	X	
Dan Kneeshaw	MSc Thesis, UBC	1990	1992	X	

(d) *Continuing Education Activities (as an instructor)*

- Burton, C.M., and P.J. Burton. 2018. Ethnobotany and Traditional Medicines Workshop. Two-day workshop for the David Douglas Botanical Garden Society, held at UNBC, 22-23 September 2018, Prince George, B.C.
- Burton, C.M., and P.J. Burton. 2017. Ethnobotany Workshop. Two-day workshop for the David Douglas Botanical Garden Society, held at UNBC, 21-22 October 2017, Prince George, B.C.
- Burton, P.J., and C.M. Burton. 2015. Native grasses for forage, restoration, and erosion control in northern B.C. Invited presentation to the Bulkley Valley Chapter of the B.C. Institute of Agrology, 3 June 2015, Smithers, BC.
- Burton, P., and C. Burton. 2004. How to develop a revegetation seeding prescription. Workshop presented at the 16th International Conference of the Society for Ecological Restoration, 24 August 2004, Victoria, B.C.
- Burton, P.J., C. DeLong, K.D. Coates, and M. Kranabetter. 2002. "Disturbance and recovery in northwestern forests." Northwest Field School, UNBC/Northwest Community College. 14-19 August 2002, Smithers, B.C.
- Burton, P.J., and J. Pojar. 2001. "Disturbance and recovery in northwestern forests." Northwest Field School, UNBC/Northwest Community College. 4-8 June 2001, Smithers, B.C.
- Module Leader, Professional Module 1, "Foundations," Silviculture Institute of British Columbia (later Forest Management Institute of British Columbia). UBC Faculty of Forestry Diploma in Advanced Silviculture. January-February 2000, Prince George, B.C., January-February 1999, Kamloops, B.C.
- Burton, P.J., and P. Daigle. 1997. "Landscape ecology and ecosystem management." Professional Refresher Module of the Silviculture Institute of British Columbia, UBC Faculty of Forestry Diploma in Advanced Silviculture. 1 December 1997, Kamloops, B.C.
- Module Leader, Professional Module 2, "Forest Regeneration," Silviculture Institute of British Columbia. UBC Faculty of Forestry Diploma in Advanced Silviculture. November 1997, Prince George, B.C.; November 1996, Surrey, B.C.

(e) *Visiting Lecturer* (university/organization and dates indicated)*

*does not include seminar presentations outside of scheduled classes; see 9(d) and 9(e).

- Burton, P. 2018. Plant identification and the use of plant keys. Field trip and lab exercise for BIOL 350, "Ethnobotany," Wilp Wilxo'oskwhl Nisga'a Institute / University of Northern British Columbia, 31 July 2018, Gitwinksihlkw, B.C.
- Walker, L., and P. Burton. 2017-2018. Post-fire regeneration of Great Basin bristlecone pine. Co-supervised undergraduate thesis of Jesy Simons, Department of Biological Sciences, University of Nevada Las Vegas, Las Vegas, Nevada.
- Burton, P. 2016. An overview of ecological restoration. Lecture presented to BIOL 411, "Conservation Biology," University of Northern British Columbia, 8 March 2016, Terrace & Prince George, B.C.

- Burton, P. 2016. Plant domestication and the origins of agriculture. Lecture presented to BIOL 350, "Ethnobotany," University of Northern British Columbia, 20 January 2016, Terrace, Smithers & Prince George, B.C.
- Burton, P. 2011. Promoting biodiversity conservation in forest management. Lecture presented to the Natural Resources Extension Program, College of New Caledonia, 30 November 2011, Prince George, B.C.
- Burton, P. 2009. Ecosystem Management. Lecture presented to NREM 210, "Integrated Resource Management," University of Northern British Columbia, 11 March 2009 and 24 September 2004, Prince George, B.C.
- Burton, P. 2007. Module on forest disturbance and recovery in NREM 333 "Field Applications in Resource Management," University of Northern British Columbia, August 2007, John Prince Research Forest, Fort St. James, B.C.
- Burton, P. 2006. Conservation and Management of Non-Timber Forest Products. Lecture presented to BIOL 350, "Ethnobotany," Wilp Wilxo'oskwhl Nisga'a / University of Northern British Columbia, 3 August 2006, Gitwinksihlkw, B.C.
- Burton, P. 2005. Disturbance Ecology. Lecture presented to NREM 101, "Introduction to Natural Resources Management and Conservation," University of Northern British Columbia, 25 January 2005, Prince George, B.C.
- Burton, P. 2004. Edge Effects. Lecture presented to BIOL 411, "Conservation Biology," University of Northern British Columbia, 17 March 2004, Prince George, B.C.

Individual lectures or lab exercises were contributed as a guest lecturer to the following courses in the Faculty of Forestry at the University of British Columbia, 1989-1995 [details not recorded]:

- FRST 204 "Forest Ecology"
- FRST 300 "Principles of Forestry and Wood Sciences" (for non-majors)
- FRST 306 "Silviculture II"
- FRST 403 "Sustainability of Productivity in Managed Forest Ecosystems"
- FRST 411 "Tree Physiology"
- FRST 451 "Field Work in Harvesting, Silviculture and Mensuration"
- FRST 511 "Advanced Topics in Forest Regeneration" (seminar course)

(f) *Other*

I have also sponsored and provided guidance to a number of interns and post-doctoral research associates. Office Interns (YMCA Public Service Partnership Program; co-supervised with Dr. Bryan Bogdanski): Nichole Espenhain (2011-12); Michaela Ewing (2010); Danielle Lerat (2010); Natasha Mineault (2009); Megan Penny (2006); Kaileen McCoy (2005-06). Research Interns: Amelie Göbel (University of Applied Sciences, Erfurt, Germany, 2013); Coralie Lenne (AgroParisTech-ENGREF, Nancy, France, 2011); Michael Sinner (Forestry University of Freiburg, Freiburg, Germany, 2006). Post-Docs: Sponsored three Post-Doctoral Research Associates (Dr. Sam Coggins, 2020; Dr. Carla Burton, 2018, 2019; Dr. Salim Silim, 1995), and co-hosted or co-supervised two Post-Doctoral Fellows (Dr. Yan Boulanger, 2010-2012; Dr. Andreas Brunner, 1994-1995).

9. SCHOLARLY AND PROFESSIONAL ACTIVITIES

(a) *Areas of special interest and accomplishments*

Research into all aspects of forest regeneration, forest stand development, plant succession and vegetation dynamics; plant community dynamics, especially following disturbance and ecological restoration; disturbance ecology and disturbance regimes; mechanisms and implications of plant competition, especially between trees and other plants; simulation modelling of forest stand development and succession; silvicultural systems and ecological approaches to sustainable forest management; ecosystem restoration; forest stand edge effects and landscape ecology; plant and vegetation conservation biology.

Policy Development and Reform in support of environmental protection, sustainable forest management, community-based land use planning, climate change adaptation, and bioregional economies.

(b) Research or equivalent **grants** (indicated under COMP whether grants were obtained competitively (C) or non-competitively (NC)*; **On teams awarded more than \$3,016,000 over the last 30 years.**

*does not include unrestricted or non-competitive operating funds provided by university or government agency

Granting Agency	Subject	COMP	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
Natural Resources Canada	Fuel Type Effects on Fire Behaviour in Recent Wildfires	NC	\$53,115	20-21	Phil Burton	Sam Coggins
Wildfire Canada	Retrospective Analysis of Fuel Type Differences in Burn Severity in Recent Mega-Fires	NC	\$49,642 (Burton component) \$108,000 total	20-21	Evelyn Hamilton	Phil Burton, Alana Clason, Kira Hoffman
BC Ministry of Environ.	Vegetation Change in the Nisga'a Lava Beds Park	C	\$22,460 \$17,430	19-20 18-19	Phil Burton	Carla Burton, Curtis Bjork
NSERC	Discovery Development Grant: Ecosystem Recovery After Severe Disturbance	C	\$10,000 \$10,000	17-18 18-19	Phil Burton	
UNBC	Research Support: Ecosystem Recovery After Severe Disturbance	C	\$7,000 \$5,000	17-18 18-19	Phil Burton	
Polar Knowledge Canada	Northern Scientific Training Program: Boreal Landslides as Agents of Diversity	C	\$2,750	18-19	Victoria Kress	Phil Burton, Marten Geertsema
UNBC	Research Project Award: Landslides as Agents of Vegetation and Microsite Diversity	C	\$5,000	2018	Victoria Kress	Phil Burton, Marten Geertsema
UNBC	Research Project Award: Vegetation Development on Abandoned Roads	C	\$5,000	2018	Kimberley Lutz	Phil Burton
Canadian Science Publishing	Research staff support in return for Can.J.For.Res. editorial duties	NC	\$5,000 \$5,000 \$5,000 \$5,980 \$6,210	2020 2019 2018 2017 2016	Phil Burton	
BC Ministry of Forests, Lands & Nat. Resource Operations	Ecosystem recovery after placer mining in the Atlin area	NC	\$36,000	15-16	Phil Burton	
Taku River Tlingit First Nation	Soil Sampling of a Chronosequence After Placer Mining	NC	\$4,200 \$1,000	14-15 13-14	Phil Burton	Rick Trowbridge
Alberta Conservation Association	Resilience and dynamics of whitebark pine at the northern end of its range under climate change	C	\$5,000 \$2,230 \$2,230	14-15 13-14 12-13	Alana Clason	Phil Burton
Aboriginal and Northern Affairs Canada	Range limits and regeneration dynamics of whitebark pine at its northern limits	C	\$1,200 \$3,500	13-14 12-13	Alana Clason	Phil Burton

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Granting Agency	Subject	COMP	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
UNBC	Dendrochronological analysis of tree release: Evaluating resilience of northern Interior Cedar-Hemlock forests to hemlock looper outbreaks	C	\$3,724	2013	Michelle Connolly	Phil Burton
Pacific Institute for Climate Solutions	Evaluating the resilience of northern interior cedar-hemlock forests to western hemlock looper outbreaks	C	\$25,000 \$25,000	12-13 11-12	Phil Burton	
Future Forest Ecosystems Science Council (BC)	Reducing vulnerabilities and promoting resilience of BC's natural and human systems through adaptation of post-disturbance land management options	C	\$20,000 \$20,000 (Burton component) \$169,575 per year total grant	11-12 10-11	Kevin Bladon / Al Wienscyk	Phil Burton and 16 others
NSERC (Strategic Projects)	Impact of the mountain pine beetle outbreak on the carbon and water balances of lodgepole pine stands	C	\$13,333 \$13,333 \$13,333 (UNBC component) \$158,950 /yr total	10-11 09-10 08-09	Andy Black	Phil Burton, Art Fredeen, and 5 others
BC Ministry of Forests and Range (Research Branch)	Towards a framework for the operational assessment of ecological resilience in temperate ecosystems	NC	\$9,000	09-10	Phil Burton	Heather Klassen
Sustainable Forest Management Network	Reducing uncertainty in forest sustainability caused by insect outbreaks: a national evaluation	C	\$23,200 \$23,200 (Burton component) \$140,000 /yr total	08-09 07-08	Dan Kneeshaw	David Maclean and Phil Burton
Finnish Forest Research Institute (METLA)	Changing fire regimes in northern coniferous forests	NC	2000 € = ca. \$3200 (Burton component)	2008	Tuomo Wallenius	Phil Burton
BC Forest Science Program	Predicting advance regeneration density in lodgepole pine stands in the Northern Interior of British Columbia	C	\$38,745 \$52,920 \$38,745	07-08 06-07 05-06	Phil Burton	
Science Council of BC	Development and testing of native grasses and legumes for seeding in the B.C. Interior	C	\$92,000 per year over 5 years	1996-2001	Phil Burton	Carla Burton

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Granting Agency	Subject	COMP	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
Science Council of BC	Inferring the response of berry-producing shrubs to partial cutting in the ICHmc	C	\$90,000 \$90,000	97-98 96-97	Phil Burton	
Science Council of BC	Effects of cutblock edges and patch retention on vegetation in the SBSmc	C	\$70,000 per year over 3 years	96-99	Phil Burton	
NSERC (Operating Grant)	Influence zones and edge effects in forest stand development	C	\$15,000 per year over 4 years	93-97	Phil Burton	
BC Ministry of Forests (Silviculture Branch)	Experimental investigation of conifer germination ecology	C	\$47,867 per year over 4 years	92-96	Phil Burton	Xiaojie Li
Canada/ Alberta Partnership Agreement in Forestry	A spatial simulation model of boreal mixedwood dynamics	C	\$37,000 per year over 4 years	92-96	Phil Burton	Steve Cumming, Brian Klinkenberg and Jamie Smith
BC Ministry of Forests (Silviculture Branch)	Interactive effects of soil moisture and light regime on conifer seedling shade tolerance & performance	C	\$24,750 per year over 4 years	91-95	Phil Burton	
Alberta-Pacific Forest Products, Inc.	Computer workstation	NC	\$22,330	1993	Steve Cumming	Phil Burton
BC Ministry of Forests (Research Branch)	A functional assessment of old-growth tree population structures in some sub-boreal spruce stands	NC?	\$25,000	91-92	Phil Burton	Dan Kneeshaw

(c) Research or equivalent **contracts** (indicated under COMP whether grants were obtained competitively (C) or non-competitively (NC)). **Approximately \$301,300 over the last 30 years.**

Granting Agency	Subject	COMP	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
BC Ministry of Forests, Lands, etc.	Remote Sensing Analysis to map Not Sufficiently Restocked (NSR) Forest	NC	\$8,016	2020	Phil Burton	Andrew Boxwell Luiz Terezan
BC Ministry of Forests, Lands, etc.	Evaluation and Restoration of Burned Old Growth Management Areas	NC	\$15,000	19-20	Phil Burton	Andrew Boxwell
BC Ministry of Forests, Lands, etc.	Protocols for Monitoring the Sustainability of Medicinal Plants	C	\$10,000	2017	Carla Burton	Phil Burton

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Granting Agency	Subject	COMP	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
Forest Products Association of Canada	Evaluation of Practical Guidance for Forest Management Adaptation to Climate Change	NC	\$5,000	15-16	Phil Burton	
BC Ministry of Forests, Lands & Nat. Resource Operations	Soil development and research site selection after placer mining in the Atlin area	NC	\$16,400	14-15	Rick Trowbridge	Phil Burton, Carla Burton, Jose Haig
BC Ministry of Forests, Lands & Nat. Resource Operations	Ecosystem recovery after placer mining in the Atlin area	NC	\$19,600	14-15	Phil Burton	Jose Haig
BC Hydro & Power Authority	Revegetation Strategy for Dust Control at Williston Lake Reservoir	NC	\$60,000	10-11	Carla Burton	Phil Burton
Forestry Innovation Investment	Continued monitoring of native plant seed production and revegetation trials	C	\$23,560	03-04	Phil Burton	Carla Burton
Terrestrial Ecosystem Restoration Program	Production of native plant seed for the Northern Interior	C	\$36,898	01-02	Phil Burton	Carla Burton
BC Ministry of Forests (Pr. George Region)	Refining an index to assess old growth features in the Robson Valley Forest District	NC	\$6,000	01-02	Phil Burton	
BC Ministry of Forests (Forest Practices Branch)	The strategic use of site preparation	NC	\$4,750	1999-2001	Phil Burton	
BC Ministry of Forests (Cariboo Region)	Influences on the density of natural regeneration in uniform shelterwoods dominated by Douglas-fir in the SBS zone	NC	\$32,725	98-99	Phil Burton	
BC Ministry of Forests (Silviculture Practices Branch)	Effects of disc trench orientation and planting spot selection on the ten-year performance of lodgepole pine	NC	approx. \$25,000	98-99	Phil Burton	
BC Ministry of Forests (Research Branch)	A comparative study employing different methods for the inventory of coarse woody debris	NC	\$5,900	1995	Joe Antos	Phil Burton, Dan Kneeshaw, Donald Clark
BC Min. For. (Cariboo Region)	Planting microsite selection and conifer performance	NC	\$10,000	94-95	Phil Burton	

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BC Ministry of Forests (Silviculture Branch)	Further Development of a Forest Succession Model for the Incorporation of Silvicultural Options in BC	NC	\$15,000	90-91	Phil Burton	Steve Cumming
BC Ministry of Forests (Silviculture Branch)	Forest Succession Model Development and Calibration for the Incorporation of Silvicultural Options in BC	NC	\$7,500	1990	Phil Burton	

(d) *Invited Presentations – 42 over the last 30 years:*

- Burton, P.J. 2018. Challenges to sustainability in northwestern British Columbia. Invited presentation to a delegation of U. Arctic visitors, University of Northern British Columbia, 25 September 2018, Prince Rupert, B.C.
- Burton, P. 2018. Can we manage forests for greater resilience? Invited presentation to the Annual General Meeting of the B.C. Timber Sales Prince George Business Area, 20 September 2018, Mackenzie, B.C.
- Burton, P.J. 2018. Researching the history of vegetation disturbance and recovery on the Nisga'a Lava Beds. Invited presentation at the Terrace Heritage Park Museum, 22 August 2018, Terrace, B.C.
- Burton, P.J. 2017. Contrasting trajectories of vegetation change after fire and insect outbreaks in sub-boreal lodgepole pine forests. Part of an organized oral session on "Harnessing succession research to understand a rapidly changing world" as part of the Ecological Society of America annual meeting, 9 August 2017, Portland, Oregon. Abstract OOS-20-9 available on-line at <https://eco.confex.com/eco/2017/webprogram/Paper62632.html>
- Burton, P. 2016. Why dead trees don't constitute fire-prone forests: lessons from recent mountain pine beetle outbreaks. Invited presentation to the School of Life Sciences, University of Nevada Las Vegas, 12 February 2016, Las Vegas, Nevada.
- Burton, P. 2015. Massive forest pest outbreaks in Western North America: some cautionary lessons. Invited presentation at ENERWOODS workshops on forest management for bioenergy sponsored by the Nordic Energy Ministers, 25 and 27 August 2015, Nødebo, Denmark, and Stockholm, Sweden.
- Burton, P. 2015. Information and education needs for a forestry of the future. Invited presentation to the Southern Interior Silviculture Committee (SISCO) 2015 Winter Workshop, 10-11 February 2015, Kamloops, B.C.
- Burton, P. 2015. Forests in a changing climate: some complexities and limitations. Invited presentation to the 10th Annual Professional Biology Conference and AGM, 23-24 April 2015, Prince George, B.C.
- Burton, P. 2014. Socio-economic drivers of landscape change in northwestern North America. Invited presentation to the Alaska Climate Center Conference, 4-7 November 2014, Anchorage, Alaska.
- Burton, P.J., G.A. O'Neill, and D.W. McKenney. 2014. Pushing the envelope: forest management strategies for adapting to a changing climate in Canada. Invited presentation to a symposium on Novel Ecosystems and Intervention: Adaptation to Climate Change, held as part of the International Union of Forest Research Organizations (IUFRO) 2014 World Congress, 5-11 October 2014, Salt Lake City, Utah.
- Burton, P. 2013. Do forests severely affected by insect outbreaks need to be restored? The case of the mountain pine beetle in western Canada. Invited presentation to a conference on Natural Disturbance – Post-modern Lessons for Land Managers About Some Important Ecological Processes. 1 May 2013, Bavarian Forest National Park, Neuschönau, Germany.
- Burton, P. 2013. Considerations for planning, monitoring and evaluating ecological restoration. Invited presentation to Science Considerations in Functional Restoration: A Workshop, sponsored by the U.S. Forest Service. 5 February 2013, Pittsburgh, Pennsylvania.
- Puettmann, K.J., and P.J. Burton. 2012. Viewing boreal forests as complex adaptive systems. Invited presentation to A Workshop: Placing Boreal Forests on the Policy Agenda, 4-6 June 2012, Norrbysskär, Sweden. Also presented at EcoSummit 2012: Ecological Sustainability; Restoring the Planet's Ecosystem Services, 4 October 2012, Columbus, Ohio.
- Burton, P., and B. Titus. 2012. Some sustainability considerations associated with forest biomass harvesting. Invited presentation to a delegation from RWE Group (European utility consortium) and Pacific BioEnergy Ltd., 8 February, 2012, Prince George, B.C.
- Burton, P., and D. McKenney. 2010. Progress in plant hardiness mapping: Going beyond the zones, now and in the future! Invited presentation to the David Douglas Botanical Society, 14 December 2010, Prince George, B.C.

- Burton, P.J. 2010. Salvage logging after natural disturbances: Impacts and implications. Invited presentation, Botany Department Seminar Series, University of Georgia, 6 December 2010, Athens, Georgia.
- Burton, P.J. 2010. The restorative imperative: Forest restoration objectives and approaches around the world. Invited keynote presentation to the Northern Primeval Forests: Ecology, Conservation and Management Conference, 12 August 2010, Sundsvall, Sweden.
- Burton, P.J. 2009. Disturbance ecology of the mountain pine beetle in British Columbia. Invited Presentation, Biology Department, Lakehead University, 9 November 2009, Thunder Bay, Ontario.
- Burton, P.J. 2009. Disturbance ecology of the mountain pine beetle outbreak. Invited Presentation to the Canadian Wildlife Service, Environment Canada, 7 April 2009, Delta, B.C.
- Burton, P.J. 2008. What Future for the Pine Forests of British Columbia? Invited Presentation to the Annual British Columbia Riversheds Forum, 18 May 2008, Francois Lake, B.C.
- Burton, P.J. 2008. Envisioning the Future Forests of Central British Columbia. Invited Presentation to the Board of Directors, Cariboo Regional District, 7 March 2008, Williams Lake, B.C.
- Burton, P.J. 2008. Envisioning the Future Ecosystems of Central British Columbia. Invited Presentation to the Conservation Strategy Forum, Cariboo-Chilcotin Beetle Action Committee, 26 January 2008, Williams Lake, B.C.
- Burton, P.J. 2007. Forest disturbance regimes and disturbance legacies in northern British Columbia. Invited keynote presentation at the 43rd Annual North American Moose Conference & Workshop, 6 June 2007, Prince George, B.C.
- Burton, P.J. 2007. Climate change and an uncertain future for the pine forests of British Columbia. Invited presentation to the Centre for Resource and Environmental Studies, Australian National University, 9 February 2007, Canberra, A.C.T., Australia.
- Burton, P.J. 2006. The future of British Columbia's pine forests. Invited Presentation at Stand Up For The North: What People and Communities Can Do to Renew Our Region in the Wake of the Pine Beetle. College of New Caledonia, 4 November 2006, Prince George, B.C.
- Burton, P.J. 2005. Managing for wild berries. Invited presentation a workshop on Incorporating Non-Timber Values into Sustainable Forest Management, sponsored by McGregor Model Forest and Royal Roads University Centre for Non-timber Resources, 7 November 2005, Prince George, B.C.
- Burton, P., S. Taylor, and G. Thandi. 2005. The disturbance ecology of northwestern Canada: Factors and consequences. Invited presentation at the 90th Annual Meeting of the Ecological Society of America and the 9th International Congress of Ecology, 7-12 August 2005, Montreal, Quebec.
- Burton, P.J., and A.K. Mitchell. 2005. Research networks as vehicles for large-scale ecological manipulations. Invited presentation as part of a workshop on lessons from large-scale manipulation of ecosystems and landscapes, at the 90th Annual Meeting of the Ecological Society of America and the 9th International Congress of Ecology, 7-12 August 2005, Montreal, Quebec.
- Burton, P.J. 2005. Canadian Forest Service activities in support of growth and yield research in north central British Columbia. Invited presentation at a Forest Growth & Yield Workshop for Researchers Working in Central and Northeastern B.C., organized by UBC & UNBC, 29 June 2005, Prince George, B.C.
- Burton, P.J., C. Messier, T. Kuuluvainen, and W.L. Adamowicz. 2004. Sustainable management of Canada's boreal forests: Progress and prospects. Invited keynote presentation at the 5th International Conference on Disturbance Dynamics in Boreal Forests, 1-5 August 2004, Dubna, Russia.
- Burton, P. 2004. Edge effects and interior forest condition: How big does an old growth patch need to be? Invited presentation at a workshop on Describing the Characteristics of Old-Growth Forests, sponsored by FORREX Research and Extension Partnership, 26 February 2004, Prince George, B.C.
- Burton, P. 2004. Diversifying silviculture: Some innovations from the Sustainable Forest Management Network. Invited presentation at Silviculture Realities: Are We Getting What We Want?, the annual winter meeting of the Northern Silviculture Committee and the Northern Interior Vegetation Management Association, 22 January 2004, Smithers, B.C.
- Burton, P.J. 2002. Some silvicultural effects on germination ecology and natural regeneration of Douglas-fir in central British Columbia. Invited presentation to the Groupe de recherche en écologie forestière interuniversitaire (GREFi), Université du Québec à Montréal, 28 October 2002. Montréal, Quebec.
- Burton, P., and C. DeLong. 2002. Windthrow patterns on cutblock edges and in wildlife tree patches in north-central B.C. Invited presentation to the Joint Northern Interior Vegetation Management Association & Northern Silviculture Committee Winter Meeting, 22-24 January 2002, Prince George, B.C.
- Burton, P.J. 2002. Vegetation responses to cutblock edges in the Sub-Boreal Spruce zone of northwest-central B.C. Invited presentation to the Department of Biology, University of Victoria, 17 January 2002. Victoria, B.C.

- Burton, P.J. 1997. Patterns of vegetation response to biotic disturbance in coniferous forests. Invited presentation to the Forty-fifth Annual Meeting of the Western International Forest Disease Work Conference. 16-19 September 1997, Prince George, B.C.
- Burton, P.J. 1996. Native plants: Their place in land reclamation. Invited presentation at the Second Annual Clearwater Forest District Reclamation-Revegetation Seminar, Sponsored by the B.C. Ministry of Forests, 19 April 1996, Clearwater, B.C.
- Burton, P.J. 1994. Meeting technical and scientific information needs. Invited presentation at a Conservation Leadership Workshop, The Whistler Centre for Business and the Arts, 19 November, 1994, Whistler, B.C.
- Burton, P.J. 1994. Some challenges of managing forests for sustainability. Invited presentation at a workshop on Environmental Law and Management for the Canadian Forest Industry, Sponsored by The Canadian Institute, 18 October 1994, Vancouver, B.C.
- Burton, P.J. 1993. Edge effects: A shared concern in silviculture and conservation biology. Invited presentation to the Silvicultural Systems Working Group of the B.C. Ministry of Forests. Workshop held 5-6 April 1993, Richmond, B.C.
- Burton, P.J. 1993. Components of forest stand development. Invited presentation to the Annual Winter Workshop of the Southern Interior Silviculture Committee, 22-24 March 1993, Penticton, B.C.
- Burton, P.J., and S.G. Cumming. 1992. ZELIG goes to Hawaii: gap model simulation of *Metrosideros - Cibotium* stand structure and displacement dieback. Invited presentation in a symposium on "Spatial Dynamics of Gap Formation and Canopy Dieback in Low- and High-Diversity Biomes." Presented at the 77th Annual Meeting of the Ecological Society of America, Honolulu, Hawaii, 12 August 1992. Abstract published in Bulletin of the Ecological Society of America 73(2):130.
- Burton, P.J. 1991. Ecosystem restoration versus reclamation: the value of managing for biodiversity. Invited presentation to the 15th Annual B.C. Mine Reclamation Symposium & 16th Annual Canadian Land Reclamation Association Meeting, 24-28 June 1991, Kamloops, B.C.

(f) *Other*

Volunteer Presentations and Published Abstracts – more than 100, including 32 in the last 10 years:

- Hamilton, E., K. Hoffman, A. Clason, S. Coggins, and P. Burton. 2021. Developing wildfire resilience in northern BC forests. Bulkley Valley Research Centre Seminar Series, 27 January 2021, Smithers, B.C. Recorded presentation available on-line at <https://www.youtube.com/watch?v=FS7yz1JKdTs> .
- Burton, P.J. 2020. The ecological diversity of pines: A research travelogue. UNBC-Northwest Public Presentation, 12 February 2020, Terrace, B.C. Recorded presentation available on-line at https://video.unbc.ca/playlist/dedicated/68403/0_onkzq4ls/0_08t0vtzs .
- Burton, P.J. 2019. Managing forests for resilience. Bulkley Valley Research Centre Seminar Series, 20 November 2020, Smithers, B.C. Presentation slides available on-line at https://bvcentre.ca/files/Misc/PJBurton_BVRC_Nov2019_--_managing_forests_for_resilience.pdf .
- Burton, P.J. 2019. The precautionary principle as a framework for resilience in forest planning and practice. International Union of Forest Research Organizations (IUFRO) Congress XXV, 2 October 2019, Curitiba, Brazil. Abstract published in Pesquisa Florestal Brasileira, Special Issue, 39: e201902043, p. 151. Available on-line at http://iufro2019.com/wp-content/uploads/2019/10/Anais_lufro_Final_reduzido-1.pdf .
- Donaldson, M.R., P.J. Burton, and S. Kettle. 2019. Developing a sustainable solution to funding open access publishing. International Union of Forest Research Organizations (IUFRO) Congress XXV, 1 October 2019, Curitiba, Brazil. Abstract published in Pesquisa Florestal Brasileira, Special Issue, 39: e201902043, pp. 697-698. Available on-line on http://iufro2019.com/wp-content/uploads/2019/10/Anais_lufro_Final_reduzido-1.pdf .
- Burton, P., C. Mahood, A. Boxwell, S. Taylor, L. McCulloch, and M. Dale. 2019. Why have recent mega-fires in British Columbia left some established plantations unburned? North American Forest Ecology Workshop, 24 June 2019, Flagstaff, Arizona. Abstract available on-line at <http://nafew.org/wp-content/uploads/2019/06/NAFEWAbstractBookFinal.pdf>, p. 14.
- Burton, C., and P. Burton. 2019. Efforts to incorporate sustainability of traditionally used medicinal plants into forest management of the upper Skeena River basin of northwestern British Columbia. North American Forest Ecology Workshop, 27 June 2019, Flagstaff, Arizona. Abstract available on-line at <http://nafew.org/wp-content/uploads/2019/06/NAFEWAbstractBookFinal.pdf>, pp. 13-14.

- Kress, V., M. Geertsema, and P.J. Burton. 2018. Landslides as agents of biophysical diversity in British Columbia's boreal forest. Presented at the joint regional conference of the Society for Ecological Restoration Northwest Chapter and the Society of Wetland Scientists Pacific Northwest Chapter, 17 October 2018, Spokane, Washington
- Burton, P. 2018. Opportunities and challenges in managing for forest resilience. Natural Resource and Environmental Studies Institute Colloquium, University of Northern British Columbia, 12 October 2018, Prince George & Terrace, B.C. Recorded presentation available on-line at <https://video.unbc.ca/channel/NRESI/> .
- Burton, C., and P. Burton. 2018. Comparing traditional plant use of the Maori of New Zealand and First Nations in Northwestern BC. Presented at the Terrace Heritage Park Museum, 25 July 2018, Terrace, B.C.
- Burton, P.J. 2018. Forest resilience: Concepts, comparisons, and challenges. Presented at University of Canterbury School of Forestry, 6 June 2018, Christchurch, New Zealand, and at Landcare Research, 8 June 2018, Lincoln, New Zealand.
- Daniels, L., R.W. Gray, and P.J. Burton. 2018. 2017 Wildfires in British Columbia: Urgent need to adapt management to improve forest resilience. Presented at The Fire Continuum Conference, 21-24 May 2018, Missoula, Montana. Abstract S10.10 available on-line at <http://firecontinuumconference.org/wp-content/uploads/2017/05/FINAL-Special-Session-Presentation-Abstracts-Fire-Continuum.pdf> .
- Burton, C., and P. Burton. 2016. Some interpretations and applications in ethnobiology. UNBC-Northwest Public Presentation, 2 March 2016, Terrace, B.C. Recorded presentation available on-line at https://video.unbc.ca/playlist/dedicated/68403/0_gtyi3zul/0_qs35cgxl .
- Burton, P.J., and C.M. Burton. 2015. Forest planning adjustments to protect traditional non-timber resources in northern British Columbia. Presented at the 38th Annual Conference of the Society of Ethnobiology, 6-9 May, Santa Barbara, California.
- Burton, C.M. and P.J. Burton. 2015. Trade of plant products in northwestern British Columbia – past, present, and future. Presented at the 38th Annual Conference of the Society of Ethnobiology, 6-9 May, Santa Barbara, California, U.S.A.
- Burton, P. 2015. Development of a food security program at the University of Northern British Columbia. UNBC-Northwest Public Presentation, 22 April 2015. Terrace, B.C. Recorded presentation available on-line at https://video.unbc.ca/playlist/dedicated/68403/0_z41f0xz5/0_ptmpqy9p .
- Burton, C.M., and P.J. Burton. 2014. Devil's club (*Oplomanax horridus*) can recover after clearcut logging. Poster presented at Forest Landscape Mosaics: Disturbance, Restoration and Management at Times of Global Change. 10-14 August 2014, Tartu, Estonia.
- Burton, P. 2014. Using polar ordination to evaluate ecosystem recovery and restoration progress. Presented at Forest Landscape Mosaics: Disturbance, Restoration and Management at Times of Global Change. 10-14 August 2014, Tartu, Estonia.
- Burton, P. 2013. Environmental ethics of ecological restoration. UNBC-Northwest Public Presentation, 14 December 2013. Terrace, B.C.
- Krawchuk, M., M. Edwards, and P. Burton. 2013. Plant communities in pine forests killed by mountain pine beetle and those subsequently burned: How disturbing? Poster presented at the 8th Annual Meeting of the Canadian Society for Ecology and Evolution, 12-15 May 2013, Kelowna, B.C.
- Smyth, D., M. McDiarmid, P. Burton, R. Saimoto, T. Glover. 2012. Balancing the benefits and effects of resource development: collaborative approaches to education in Northwest B.C. Adding It All Up conference, sponsored by the Bulkley Valley Research Centre, 14 November 2012, Smithers, B.C.
- Burton, P. 2012. Devastated but not dead – forest recovery after insect outbreaks. UNBC-Northwest Speaker Series, 18 October 2012, Terrace, B.C.
- Carson, A.W., P.M. Rutherford, and P.J. Burton. 2012. Effectiveness of soil amendments and revegetation treatments at Huckleberry Mine, Houston, British Columbia. Presented at the 36th Annual British Columbia Mine Reclamation Symposium, 17-20 September 2012, Kamloops, B.C.
- Taylor, A., P.J. Burton, M. Lorente, S. Gauthier, L. De Grandpré, E.H. Hogg, I. Aubin, L.L. Kremsater, C. Ste-Marie, and E.A. Nelson. 2012. Climate change indicators for forests and forestry in Canada. Poster presented at the 97th Annual Meeting of the Ecological Society of America, 5-10 August 2012, Portland, Oregon.
- Clason, A.J., P.J. Burton, and E.J.B. McIntire. 2012. Where will whitebark pine survive? Resilience and expansion of an endangered species at its northern edge under a changing climate. Poster presented at Climate Change Solutions: The Road Ahead, 13-14 June 2012, Pacific Institute for Climate Solutions, Victoria, B.C.
- Mathys, A., T.A. Black, Z. Nesic, G. Nishio, M. Brown, D.L. Spittlehouse, A.L. Fredeen, R. Bowler, P.J. Burton, J.A. Trofymow, and N.J. Grant. 2012. Can forest management responses increase the net ecosystem production of forests attacked by the mountain pine beetle? Presented at the 30th American Meteorological

- Society Conference on Agricultural and Forest Meteorology, 29 May – 1 June, 2012, Boston, Massachusetts. Abstract and recorded presentation available on-line at <https://ams.confex.com/ams/30AgFBioGeo/webprogram/Paper207444.html>
- Klassen, H., S.C.Saunders, P.J.Burton, A.MacKinnon, and J.M.Kranabetter. 2011. Assessing resilience to climate change across site types in dry coastal forest ecosystems of B.C. Poster presented at the BC Protected Areas Research Forum, University of British Columbia, 6 December 2011, Vancouver, B.C.
- Burton, P. 2011. Classifying and mapping forest disturbance regimes. Presented at the Natural Resources and Environmental Studies Institute (NRESI) Colloquium, University of Northern British Columbia, 21 October 2011, Prince George, B.C.
- Boulanger, Y., S. Gauthier, P.J. Burton, and M.-A. Vaillancourt. 2011. An alternative fire regime zonation for Canada. Poster presented at the 7th International Conference on Disturbance Dynamics in Boreal Forests, 29 May - 3 June 2011, Saguenay, Quebec.
- Burton, P., E. Doblas-Miranda, E. Campbell, B. Cooke, B. Sturtevant, M. Papaik, P. James, D. MacLean, M.-J. Fortin, J. Hughes, and D. Kneeshaw. 2011. Insect outbreaks in high-latitude North American forests: some common dimensions of complexity and resilience. Presented at the 7th International Conference on Disturbance Dynamics in Boreal Forests, 31 May 2011, Saguenay, Quebec.
- Burton, P., Y. Boulanger, B. Pettit, G. Thandi, and S. Taylor. 2011. Classifying and mapping the forest disturbance regimes of British Columbia. Presented the 7th International Conference on Disturbance Dynamics in Boreal Forests, 30 May 2011, Saguenay, Quebec.
- Mathys, A., T.A. Black, M. Brown, Z. Nestic., D. Lessard, N. Grant, G. Nishio, P. Burton, A. Fredeen, T. Trofymow, and R. Bowler. 2011. Effects of partial harvesting on the carbon balance of a mountain-pine-beetle-attacked forest in interior BC. Poster presented at the Canadian Geophysical Union Annual Scientific Meeting, 15-18 May 2011, Banff, Alberta.
- Burton, P., and R. Alfaro. 2010. Resilience of western forests to attack by mountain pine beetle. Presented to the Forest Ecology Working Group, Annual Meeting of the Canadian Institute of Forestry, 30 September 2010, Jasper, Alberta.
- Brown, M., A. Black, Z. Nestic, V. Egginton, A. Fredeen, P. Jackson, P. Burton, T. Trofymow, D. Spittlehouse, and N. Grant. 2009. Impact of the mountain pine beetle attack on the carbon balance of lodgepole pine stands in British Columbia. Presented at the American Geophysical Union Joint Assembly, 24-27 May 2009, Toronto, Ontario.
- Kneeshaw, D., E. Doblas-Miranda, B.R. Sturtevant, P. Burton, M.-J. Fortin, d. MacLean, B. Cooke, R. Man, P. James and J. Hughes. 2008. Synthesis of insect disturbance from a forest's perspective. Presented at the 93rd Annual Meeting of the Ecological Society of America, 4 August, 2008, Milwaukee, Wisconsin.
- Kneeshaw, D., B. Cooke, P. Burton, E. Doblas-Miranda, P. James, D. MacLean, R. Man, and B. Sturtevant. 2008. Reducing uncertainty in forest sustainability caused by insect outbreaks. Presented at "Envisioning Tomorrow's Forests," the Fifth National Conference of the Sustainable Forest Management Network, 22 April 2009, Gatineau, Quebec.
- Rose, N.-A., and P.J. Burton. 2008. Using bioclimatic envelopes to identify temporal corridors for conservation planning in the context of climate change. Presented at the BC Protected Areas Research Forum, University of Northern British Columbia, 2 December 2008, Prince George, B.C.
- Burton, P.J. 2008. The importance of protected areas to forest science and forest management research. Presented at the BC Protected Areas Research Forum, University of Northern British Columbia, 2 December 2008, Prince George, B.C.
- Haughian, S., and P.J. Burton. 2008. Microsite determinants of ground cover in lichen woodlands. Poster presented at the 12th North American Caribou Workshop, 2-5 November 2008, Goose Bay, Newfoundland & Labrador.
- Burton, P.J., and N.-A. Rose. 2008. Using bioclimatic envelopes to identify temporal corridors in support of conservation planning in a changing climate. Presented at the Biodiversity in Forest Ecosystems and Landscapes Conference, sponsored by IUFRO and Thompson Rivers University, 5-8 Aug., 2008, Kamloops, B.C. Also presented to the Metapopulation Research Group, University of Helsinki, 4 September 2008, Helsinki, Finland.
- Rose, N.-A., and P.J. Burton. 2008. The use of bioclimatic envelopes to identify temporal corridors for conservation planning in the context of climate change. Poster presented at the 22nd Annual Meeting of the Society for Conservation Biology, 13-17 July 2008, Chattanooga, Tennessee.
- Burton, P.J., and D.W. Brooks. 2008. Predicting the distribution of advance regeneration in pine-dominated forests of British Columbia's Sub-Boreal Spruce zone. Poster presented at the Mountain Pine Beetle: From

- Lessons Learned to Community-Based Solutions Conference, FORREX Forestry Research and Extension Partnership, 10-11 June 2008, Prince George, B.C.
- Burton, P.J. 2008. The mountain pine beetle as an agent of forest disturbance. Presented at the Mountain Pine Beetle: From Lessons Learned to Community-Based Solutions Conference, FORREX Forestry Research and Extension Partnership, 10-11 June 2008, Prince George, B.C.
- Rose, N.-A., and P.J. Burton. 2008. Identifying temporal corridors for conservation planning in the context of climate change. Poster presented at a Nature Conservancy of Canada workshop, 19 February, 2008, and at the Annual Natural Resources and Environmental Studies Institute Symposium, 28 February 2008, Prince George, B.C.
- Burton, P.J., and D. Brooks. 2008. Patterns of advance regeneration in pine-leading stands in the Sub-Boreal Spruce zone. Presented at the Timber Growth and Value Conference, Bulkley Valley Centre for Natural Resources and Management, 6 February 2008, Smithers, B.C.
- Burton, P.J., and M.R. Roberts. 2007. A multivariate characterization of natural and anthropogenic forest disturbances. Presented at the 6th North American Forest Ecology Workshop, 18 June, 2007, Vancouver, B.C.
- Brooks, D., and P.J. Burton. 2007. Patterns of advance regeneration in lodgepole pine stands. Presented at the 6th North American Forest Ecology Workshop, 18 June, 2007, Vancouver, B.C.
- Burton, P.J., and M.R. Roberts. 2007. Towards a unified classification of natural and anthropogenic forest disturbance. Presented at the 6th International Conference on Boreal Forest Disturbance Dynamics, 2 June, 2007, Fairbanks, Alaska.
- Burton, P.J. 2007. The global biodiversity crisis as context for forest stewardship. Biodiversity Planning Workshop in support of the Landscape Objectives Working Group for the Prince George Timber Supply Area, FORREX Research and Extension Partnership, 18 January 2007, Prince George, B.C.
- Burton, P.J. 2006. What future for the pine forests of British Columbia? Bulkley Valley Centre for Natural Resources Research and Management Seminar, Northwest Community College, 13 December 2006, Smithers, B.C.
- Burton, P.J., and A. Hamann. 2006. Rapid transformation of pine-dominated sub-boreal forests in British Columbia mediated by insects and pathogens. Poster presented at the 13th Scientific Conference of the International Boreal Forest Research Association (IBFRA), 28-30 August, 2006, Umeå, Sweden. Also presented at The Art and Science of Sustainable Resource Management Planning, 27-28 September, 2006, Kamloops, B.C. Abstract published in *Journal of Ecosystems and Management* 7(3): 76.
- Burton, C., P. Burton, A. Eastham, R. Robichaud, and M. Sinner. 2006. Testing the ability of four native plant species to grow on mine tailings. Poster presented at the 30th Annual British Columbia Mine Reclamation Symposium, 19-22 June 2006, Smithers, B.C.
- Burton, P.J. 2006. Advance regeneration in lodgepole pine stands: Synthesis, modelling, and implications." Presented at the "Forest Research in Northern British Columbia" panel discussion, Pacific Forestry Centre, 25 April 2006, Victoria, B.C.
- Allen, S., and P. Burton. 2006. Some trends in northern research by the Pacific Forestry Centre. Presented at the "Forest Research in Northern British Columbia" panel discussion, Pacific Forestry Centre, 25 April 2006, Victoria, B.C.
- Burton, P.J. 2005. Designing the future forest. Presented at a workshop on The Mountain Pine Beetle Epidemic and the Future of Communities and Ecosystems, co-sponsored by UBC and UNBC, 10 November 2005, Prince George, B.C.
- Burton, P., S. Taylor, and G. Thandi. 2005. Challenges in defining the disturbance regimes of northern British Columbia. Presented at the FORREX Annual General Meeting and Science Forum, 1 September 2005, Kamloops, B.C.
- Kayahara, G.J., and P.J. Burton. 2005. Using variable site-age rotations for the emulation of the natural disturbance pattern in the eastern Canadian boreal forest. Presented at the 5th North American Forest Ecology Conference, 14 June, 2005, Aylmer, Quebec.
- Burton, P.J. 2005. Alternative genetic models for seed propagation. Restoration planning workshop sponsored by University of British Columbia and Parks Canada, 19-20 May 2005, Sidney, B.C.
- Burton, P.J. 2005. Mountain pine beetle outbreak impacts: needs and contributions. Researchers' workshop on mountain pine beetle impacts, organized by B.C. Ministry of Forests and FORREX, 12 May 2005, Prince George, B.C.

- Burton, P., B. Schultz, C. Burton, and A. Simpson. 2004. Restoration of all-terrain vehicle (ATV) damage in the subalpine meadows of Seven Sisters Provincial Park, British Columbia. Presented at the 16th International Conference of the Society for Ecological Restoration, 26 August 2004, Victoria, B.C.
- Burton, C.M., and P.J. Burton. 2004. Long-term effects of seeding densities and fertilization treatments using seed from herbaceous species native to the northern interior of British Columbia. Poster presented at the 16th International Conference of the Society for Ecological Restoration, 24-26 Aug. 2004, Victoria, B.C., and at the 5th International Conference on Disturbance Dynamics in Boreal Forests, 1-5 August 2004, Dubna, Russia.
- Taylor, S.W., P.J. Burton, B.D. Amiro, and B.J. Stocks. 2004. The disturbance ecology of Canada's boreal cordillera. Presented at the 5th International Conference on Disturbance Dynamics in Boreal Forests, 1-5 Aug. 2004, Dubna, Russia.
- Burton, P. 2004. Diversifying silviculture: Innovative ideas and practices. Natural Resources and Environmental Studies Colloquium, University of Northern British Columbia, 6 February 2004, Prince George, B.C.
- Burton, P. 2004. Diversifying silviculture: Some innovations from the Sustainable Forest Management Network. Invited presentation at "Silviculture Realities: Are We Getting What We Want?," the annual winter meeting of the Northern Silviculture Committee and the Northern Interior Vegetation Management Association, 22 January 2004, Smithers, B.C.
- Burton, P.J. 2003. The search for laws in ecology. Presented at the Harvard Forest Seminar Series, Harvard University, 21 March 2003. Petersham, Massachusetts.
- Burton, P.J., C.M. Burton, T.W. Sipe, and D.E. Hibbs. 2003. Tree regeneration and understory vegetation in an eastern hardwood forest 20 years after creation of small forest openings. Pages 27 to 28 in A. Barker Plotkin, J.S. Pallant, and D. Recos-Smith, editors. Abstracts from the 14th Annual Harvard Forest Ecology Symposium, 12 February 2003. Long Term Ecological Research Program, Harvard Forest, Petersham, Massachusetts.
- Burton, P.J. 2002. Tree and vegetation responses to cutblock edges in the Sub-Boreal Spruce zone of northwest-central B.C. Presented at the Harvard Forest Seminar Series, Harvard University, 27 September 2002. Petersham, Massachusetts.
- Burton, P.J. 2001. Response of vascular vegetation to cutblock edges in the Sub-Boreal Spruce zone of northwest-central British Columbia. Presented at the Annual Meeting of the Canadian Botanical Association, 25-27 June 2001, Kelowna, B.C.
- Burton, P.J. 2001. Windthrow patterns on cutblock edges and in retention patches in the SBSmc. Presented at The Windthrow Researchers Workshop, Richmond, B.C., 31 January-1 February, 2001. B.C. Forestry Continuing Studies Network, Vancouver, B.C.
- DeLong, S.C., P. Burton, T. Mahon, P. Ott, and D. Steventon. 2001. Factors affecting windthrow in reserves in northern British Columbia. Presented at The Windthrow Researchers Workshop, Richmond, B.C., 31 January-1 February 2001. B.C. Forestry Continuing Studies Network, Vancouver, B.C.
- Burton, P.J. 2000. Towards sustainable management of the boreal forest: Emulating nature, minimizing impacts and supporting communities. Presented at the Natural Resources Research and Management Seminar Series, 16 November 2000, Smithers, B.C.
- Burton, P.J. 2000. Effects of clearcut edges on the sub-boreal vegetation of northwest-central British Columbia. Presented at the 3rd International Conference on Boreal Forest Disturbance Dynamics, 22 August 2000, Kuhmo, Finland.
- Burton, P.J., and C.M. Burton. 2000. The Wilp Sa Maa'y Harvesting Co-operative and wild berry research in Gitksan traditional territory. Presented at a Non-Timber Forest Products Workshop, 24 May 2000, Creston, B.C., sponsored by the Southern Interior Forest Extension and Research Partnership.
- Burton, P.J. 1998. Inferring the response of berry-producing shrubs to different light environments in the ICHmc. Presented at the Natural Resources Research and Management Seminar Series, November 1998, Smithers, B.C. Also presented at the Wilp Sa Maa'y Harvesting Cooperative Annual General Meeting, 7 December 1998, Hazelton, B.C.
- Burton, P.J. 1998. An assessment of silvicultural practices and forest policy in British Columbia from the perspective of restoration ecology. Presented at "Helping the Land Heal: Ecological Restoration in British Columbia," a conference held 5-7 November 1998, Victoria, B.C.
- Burton, C.M., and P.J. Burton. 1998. Making native plant seed available for revegetation of disturbed land in the northern Interior of British Columbia. Poster presented at Helping the Land Heal: Ecological Restoration in British Columbia, 5-7 November 1998, Victoria, B.C. and at the Eleventh Annual International Conference of the Society for Ecological Restoration, 23-25 September 1999, San Francisco, California.

- Burton, P.J., and B. Camenzind. 1998. Windthrow along clearcut block edges in the SBSmc: incorporation in timber supply analysis. Presented at the Third Annual Natural Disturbance Workshop, 24 February 1998, Prince George, B.C.
- Burton, P.J. 1997. Clearcut edge effects in the SBSmc: Searching for impacts on plant biodiversity and stand productivity. Presented at the Second Annual Natural Disturbance Workshop, 7 April 1997, Prince George, B.C. Also presented as part of the Natural Resources Research & Management Seminar Series, 20 November 1997, Smithers, B.C.
- Burton, P.J., and C.M. Burton. 1997. Interactive effects of substrate and canopy cover on conifer germination and first-year survivorship. Poster presented at the Annual Meeting of the Ecological Society of America, 10-14 August 1997. Albuquerque, New Mexico, U.S.A. Also presented at Silvicultural Systems Workshop, Sponsored by the B.C. Forestry Continuing Studies Network, 4-6 November 1997, Richmond, B.C.
- Burton, P.J., and C.M. Burton. 1995. A program to develop native grass and legume mixtures for forest road and landing revegetation. The Native Plant Forum, Sponsored by the B.C. Ministry of Forests, 25 November 1995, Vernon, B.C.
- Burton, P.J. 1994. Some differences in plant competition experienced by conifer seedlings: Implications to vegetation management and land stewardship. Forest Sciences Departmental Seminar, Faculty of Forestry, University of British Columbia, 12 October 1994, Vancouver, B.C.
- Burton, P.J. 1993. When is vegetation control necessary? Presented at "Integrated Forest Vegetation Management: Options and Applications," the Fifth B.C. Forest Vegetation Management Workshop, 29-30 November 1993, Richmond, B.C.
- Burton, P.J. 1993. Differential conifer establishment in pure and mixed neighbourhoods of early successional post-logging vegetation. Poster presented at "Integrated Forest Vegetation Management: Options and Applications," the Fifth B.C. Forest Vegetation Management Workshop, 29-30 Nov. 1993, Richmond, B.C.
- Schmiegelow, F.K.A., S.J. Hannon, J.B. Stelfox, S.G. Cumming, P.J. Burton, and F.L. Bunnell. 1993. Broad-scale harvesting and wildlife community dynamics in the boreal mixedwood forest. Presented at a conference on Forest, Environment and New Technology in Northern Europe, 20 September 1993, Petrozavodsk, Russia.
- Burton, P.J. 1993. Differential conifer establishment in pure and mixed neighborhoods of early successional post-logging vegetation. Abstract published in *Bulletin of the Ecological Society of America* 74(2)Supp.:181.
- Burton, P.J. 1993. Research in seed germination ecology and conifer seedling shade tolerance. Presented to the Silvicultural Systems Working Group of the B.C. Ministry of Forests. Workshop held 5-6 April 1993, Richmond, B.C.
- Cumming, S.G., and P.J. Burton. 1993. Stand distribution patterns in the boreal mixedwood of Alberta, Canada. Poster presented at the 8th Annual U.S. Landscape Ecology Symposium, 24-27 March 1993, Oak Ridge, TN.
- Balisky, A.C., and P.J. Burton. 1993. Cold soils: their effects, causes, and extent in high-elevation openings in Interior B.C. Poster presented at the Annual Winter Workshop of the Southern Interior Silviculture Committee, 22-24 March 1993, Penticton, B.C.
- Burton, P.J. 1993. The preliminary design of a landscape model of the boreal mixedwood: linking stand development, disturbance pattern, and wildlife habitat. Presented at a Workshop on Integrated Ecological Approaches to Boreal Mixedwood Management, 27-30 January 1993, Edmonton, Alberta.
- Camm, E., R. Guy, P. Burton, S. Salim, and D. Goetze. 1992. What are the effects of fast-thawing freezer-stored spruce? Poster presented at the 12th Annual Meeting of the Forest Nursery Association of B.C., 28 September-1 October 1992, Penticton, B.C.
- Burton, P.J., and R.J. Mitchell. 1992. Mechanistic approaches to the study of plant competition: applications to forest vegetation management research. Presented at an International Conference on Forest Vegetation Management, 27 April 27-1 May 1992, Auburn, Alabama.
- Burton, P.J., A.C. Balisky, L.P. Coward, S.G. Cumming, and D.D. Kneeshaw. 1991. Forest regeneration ecology in western Canada: Some problems, solutions and consequences. Poster presented at Forestry Research Day, University of British Columbia, 3 December 1991; also presented at an International Conference on Forest Vegetation Management, 27 April-1 May 1992, Auburn, Alabama, and at the Northern Silviculture Committee Annual General Meeting, 7-9 July 1992, Prince George, B.C.
- Burton, P.J. 1990. An overview of current research on tree/non-tree interactions. Presented at the 75th Annual meeting of the Ecological Society of America, 29 July-2 August 1990, Snowbird, Utah. Abstract published in *Bulletin of the Ecological Society of America* 71(2):109.
- Burton, P.J., and D.L. Urban. 1989. Enhanced simulation of early secondary succession by incorporating multiple growthform interaction and dispersal. Presented at the 33rd Annual Meeting of International Association for Vegetation Science, 20-27 August, 1989, Uppsala, Sweden.

- Burton, P.J. 1989. Spatial patterns of woody plant seed rain in an Illinois old-field. Presented at the 74th Annual Meeting of the Ecological Society of America, 6-10 August 1989, Toronto, Ontario. Abstract published in *Bulletin of the Ecological Society of America* 70(2)Supp.:74.
- Burton, P.J., and F.A. Bazzaz. 1988. Physiological responses of tree seedlings to interference from different old-field overstory patches. Presented at the 73rd Annual Meeting of the Ecological Society of America, 14-19 August 1988, Davis, California. Abstract published in *Bulletin of the Ecological Society of America* 69(2)Supp.:88.
- Iverson, L.R., P. Burton, D. Ketzner, and K. Robertson. 1987. Summarizing Illinois endangered plant species information with ILPIN and RPC. Presented at the 80th Annual Meeting of the Illinois State Academy of Science, 10-12 April 1987, Charleston, Illinois. Abstract published in *Transactions of the Illinois State Academy of Science* 80(Supp.):55.
- Burton, P.J., and F.A. Bazzaz. 1986. Establishment of tree seedlings in different old-field neighborhoods. Presented at the IVth International Congress of Ecology, 10-16 August 1986, Syracuse, New York.
- Burton, P.J., and F.A. Bazzaz. 1985. Biotic control of old-field tree invasion. Presented at the 70th Annual Meeting of the Ecological Society of America, 17-21 June 1985, Minneapolis, Minnesota.
- Johnson, R.L., P.J. Burton, V. Klassen, P.D. Lulman, and D.R. Doram. 1984. Reclamation monitoring: the elements of a reclamation monitoring program. Presented at the Ninth Annual Meeting of the Canadian Land Reclamation Association, 21-24 August 1984, Calgary, Alberta.
- Burton, P.J., D.M. Trotter, and H.J. Quan. 1984. An assessment of differential woody plant invasion onto a reclaimed surface coal mine in central Alberta. Presented at the 69th Annual Meeting of the Ecological Society of America, 5-9 August 1984, Fort Collins, Colorado. Abstract published in *Bulletin of the Ecological Society of America* 65(2)Supp.:178-179.
- Behie, S.W., and P.J. Burton. 1984. Biophysical terrain sensitivity mapping as an input to linear facility route selection. Presented at a Workshop on "Facility Siting and Routing: Energy and Environment," sponsored by Environment Canada, 15-18 April 1984, Banff, Alberta.
- Burton, P.J., J.C. Bateman, and P.R. Guy. 1983. Woodland establishment on coal mine spoils in central Alberta. Presented at the 1983 Winter Meeting of the American Society of Agricultural Engineers, 13-16 December 1983, Chicago, Illinois.
- Burton, P.J. 1983. Interrelationships of stand structure and light regime in a Hawaiian *Metrosideros - Cibotium* montane rain forest. Presented at the 68th Annual Meeting of the Ecological Society of America, 7-11 August 1983, Fargo, North Dakota. Abstract published in *Bulletin of the Ecological Society of America* 64(2)Supp.:162-163.
- Burton, P.J., R.L. Johnson, K.P. Kucera, and P.A. Neame. 1983. A terrain sensitivity rating system and its application to corridor development. Presented at a Symposium on Environmental Impact Assessment in Canada: An Ecological Evaluation. Sponsored by the Canadian Society of Environmental Biologists, 4-5 January 1983, Winnipeg, Manitoba.

(g) *Conference Participation (Organizer, session chair, etc.; see Section 9(d) for keynote speaker roles)*

- Organized a session on "Innovative Applications of Unmanned Aerial Vehicles (UAVs) in Forest Science and Management" at the 25th Congress of the International Union of Forest Research Organizations (IUFRO), 29 September – 5 October, 2019, Curitiba, Brazil.
- Chaired a session on "Primeval Forest and Natural Dynamics" at the Forest Landscape Mosaics: Disturbance, Restoration and Management at Times of Global Change conference, 14 August 2014, Tartu, Estonia.
- Co-organized a forum on "Overcoming Obstacles to Variable Retention in Forest Management" as part of the Science to Management Forum and FORREX Annual General Meeting, 25-27 September 2007, Kamloops, B.C.
- Organized and chaired a session on "Forest Recovery After Mountain Pine Beetle" at the Sixth North American Forest Ecology Workshop, 18-20 June 2007, Vancouver, B.C.
- Chaired sessions on "Evolutionary Ecology" (8 August 2005) and "Forest Understories" (9 August 2005) as part of the 90th Annual Meeting of the Ecological Society of America and the IXth International Congress of Ecology, August 2005, Montreal, Quebec.
- Organized and chaired a symposium and panel discussion on "The Value of Long-Term Research Installations" as part of the 5th North American Forest Ecology Workshop, 12-16 June 2005, Aylmer, Quebec.
- Panel discussion chair, "Forest Fires and Other Dramatic Forest Disturbances," 34th Annual Conference of the Canadian Science Writers Association, 20-21 June 2005, Jasper, Alberta.

Program Chair and member of the Organizing Committee (2002-2004), 16th Annual International Conference of the Society for Ecological Restoration (23-27 August 2004, Victoria, B.C.)

Excursion Chair, excursion leader, and member of the Organizing Committee (2000-2002), Fourth International Workshop on Disturbance Dynamics in Boreal Forests (10-14 August 2002, Prince George, B.C.)

Program Chair, Proceedings Editor, and member of the Organizing Committee (2002), Garry Oak Ecosystem Restoration Conference (27 April 2002, Victoria, B.C.), sponsored by the B.C. Chapter of the Society for Ecological Restoration, the Garry Oak Ecosystem Recovery Team, and the University of Victoria Restoration of Natural Systems Program, Victoria, B.C.

Chaired a session on "Disturbance Dynamics" at the 3rd International Conference on Boreal Forest Disturbance Dynamics, 21 August 2000, Kuhmo, Finland.

Member of the organizing committee (1998), Helping the Land Heal: Ecological Restoration in British Columbia, 5-7 November 1998, Victoria, B.C.

Member (1991-1992), Ecology Sub-Committee, International Vegetation Management Symposium (April-May 1992, Auburn University, Alabama) Steering Committee.

Organized and chaired a session on "Tree/Non-tree Interactions" as part of the 75th Annual Meeting of the Ecological Society of America, 2 August 1990, Snowbird, Utah.

[additional volunteer session chairing duties at international conferences not recorded]

(h) Professional Development Activities (as a student)

Geographic Information Systems (GIS) Certification, six modules, October to December 2013, Terrace, B.C. Continuing Studies, University of Northern British Columbia, Prince George, B.C. (84 hours)

University Management Course, 11-17 May 2013, Banff, Alberta. Centre for Higher Education, Research and Development (CHERD), University of Manitoba, Winnipeg, Manitoba. (35 hours)

Professional Ethics, British Columbia Association of Professional Biology, 21 February 2013, Smithers, B.C. (7 hours)

French as a Second Language (Modules 1-5), Canada School of Public Service, 2006-2007, Prince George, B.C.

Various other administrative, technical and skill-related certificates, 2004-2020: Speaking to the Media, Value-Based Hiring, WHMIS (Basic Level), Chain Saw Safety, Power Tool Safety, Staying Safe in Bear Country, First Aid, CPR, etc. [details not recorded]

10. SERVICE TO THE UNIVERSITY (most recent activities listed first)

(a) Memberships on university committees, including offices held and dates [see Section 11(c) also]

Coordinator for Terrace delivery (2012-present), B.Sc. (Integrated) Coast Mountain Degree Completion Program Rotating Member (June-November, 2018), College of Science and Management Promotion and Tenure Committee

Member (August-October, 2018), Senior Lab Instructor Promotion Committee

Regional Faculty Representative (October-December 2014, February-June, 2017), Provost Search Committee Participant (January 2014 to June 2017, July 2018 to June 2019), Chairs Council, College of Arts, Social and Health Sciences.

Participant (January 2013 to June 2017, July 2018 to June 2019), College Management Team, College of Science and Management.

M.A. thesis defense chair (14 April, 2015)

M.Ed. thesis defense chair (16 December, 2014)

Steering Committee Member (2007-2009), Natural Resources and Environmental Studies Institute, UNBC, Prince George, B.C.

UNBC Representative (2007 to 2017) on Board of Directors for the Bulkley Valley Research Centre, Smithers, B.C.

Member (1993-1995), University Research Forests Liaison Committee, UBC Faculty of Forestry. Vancouver, B.C.

Member (1992-1995), Forestry Graduate Student Liaison Committee, UBC Faculty of Forestry. Vancouver, B.C.

Coordinator (1994), Forest Nursery Review, UBC Department of Forest Sciences. Vancouver, B.C.

(b) Other service, including dates

Presentations on the B.Sc. (Integrated) program made to Coast Mountain College / Northwest Community College students (every fall and winter, 2014-2021); presentation on professional degree programs as part of an education panel, Partnerships 2020 Conference, 29 October 2014, Prince Rupert, B.C.. Also presented at Kitselas Post-Secondary Options Day, Gitau Band Office, 8 November 2018, and Nass Valley Career Day, New Aiyansh High School, 27 November 2014, New Aiyansh, B.C.

Participation in other UNBC recruitment activities, including organization of a UNBC float in the Terrace Riverboat Days Parade (2016), Terrace Chamber of Commerce Business Expo trade fair (2013, 2014, 2016, 2017), and Aboriginal Day Celebrations at George Little Park (2014)

Initiated and helped organize a Science and Technology Career and Job Fair, Terrace, B.C., February 2014.

Initiated and organized a bi-weekly series of public lectures, UNBC Terrace Campus, September 2012 to April 2017, September 2018 to March 2020.

- Over 50 public lectures arranged over five years.

Northwest Regional Chair (August 2012 to June 2019), Regional Programs

Organized a career panel ("Choose Your Future") as part of National Science & Technology Week in Canada, 21 October 2008, UNBC, Prince George, B.C.

11. SERVICE TO THE COMMUNITY*(a) Memberships in scholarly societies, including offices held and dates*

Member, Canadian Botanical Association (1991 - present)

- Member of ad-hoc Science Policy Committee, 2016

Member, International Association of Vegetation Science (1990 - present)

Member, American Institute of Biological Sciences (1988 - present)

Member, Ecological Society of America (1979 - present)

Member, British Ecological Society (1982 - 2018)

Member, Society for Conservation Biology (1992 - 2016)

(b) Memberships in professional and other societies, including offices held and dates

Board Member (2013-2017), Northwest Science and Innovation Society, Terrace, B.C.

Member (1993-present), B.C. Chapter founding director (1998-1999), B.C. Chapter President (1999-2001), and B.C. Chapter Board member (1999-2003), Society for Ecological Restoration

Member (1992-present), B.C. Association of Professional Biologists

Member (1991-present), Vancouver Section Executive Council Member (1994-1995), Cariboo Section Executive Council Member (2006-2012), Canadian Institute of Forestry

Member, Natural Areas Association (1989-2010)

(c) Memberships on scholarly committees, including offices held and dates

Member (September 2014 to June 2017, September 2018 to present) of the Forestry Curriculum Committee, Ecosystem Science and Management Program, UNBC

Member (September 2014 to April 2017) of an *ad hoc* curriculum committee developing a B.A. in First Nations Studies for delivery at UNBC's regional campuses.

Member and chair (September 2013 to June 2017) of a Food Systems Curriculum Development Committee, Ecosystem Science and Management Program, UNBC.

Member (2012) and chair (November 2012 to present) of the B.Sc. (Integrated) Curriculum Committee, UNBC.

Member (1994-1995), Task Force on the Undergraduate Professional Curriculum, UBC Faculty of Forestry, Vancouver, B.C.

Member (1991-1992), Curriculum Review Committee, UBC Department of Forest Sciences. Vancouver, B.C.

Member (1990-1991), Task Force on Development of a Professional Masters Program, UBC Faculty of Forestry. Vancouver, B.C.

(d) Memberships on other committees, including offices held and dates

Member (2014-2016), Advisory Panel on the Forest and Range Evaluation Program, B.C. Forest Practices Board, Victoria, B.C.

Member (2013-present), Kalum Land and Resource Management Plan Implementation Committee, Terrace, B.C.
- chaired Access Management and Ecosystem Management sub-committees.

Member (2013-2015), Northwest Labour Market Partnership Steering Committee, Terrace & Vancouver, B.C.

NRCan/CFS representative (2011-2012), UNBC representative (2012-present), Steering Committee Member, and Synthesis Report section editor and co-author, Northwest Boreal Landscape Conservation Co-operative (U.S. Fish & Wildlife Service), Anchorage, Alaska.

Member/CFS Representative (2004-2008), Sustainability Provincial Advisory Committee, B.C. Forest Sciences Board, Victoria, B.C.

Member/CFS Representative, Strategic Forestry Committee (2004-2007) and Climate Change Committee (2004-2005), McGregor Model Forest, Prince George, B.C.

Member/CFS Representative (2003-06), Northern Interior Vegetation Management Association, Prince George, B.C.

Member (2001-present), Public Advisory Group, Forest Renewal B.C – West Fraser Endowed Chair in Forest Growth and Yield, UNBC, Prince George, B.C.

Chair (2010) and member (2002-2012), Public Advisory Group, Forest Renewal B.C – Slocan Chair in Mixedwood Silviculture, UNBC, Prince George, B.C.

Member (2001-2002), Forest Growth and Yield Committee, Science Council of British Columbia, Burnaby, B.C.

Member of the Steering Committee (1999-2003), and Instructor (2001, 2002), Northwest Field School, Smithers, B.C.

Member (2000-2002), Technical Advisory Committee, Forest Renewal B.C. Terrestrial Ecosystem Restoration Program, Victoria, B.C.

Member (1995-1996, 2001-2002), Biodiversity Committee, Science Council of British Columbia, Burnaby, B.C.

Member (1998), Steering Committee, "Helping the Land Heal Conference." Victoria, B.C.

Member (1997-2000), Forest Ecosystems and Landscape Ecology Committee, Science Council of British Columbia, Burnaby, B.C. (some project monitoring roles continuing through 2002).

Member (1995-1996), Silvicultural Systems Committee, Science Council of British Columbia, Burnaby, B.C.

Member (1991-1996), Upper Carmanah Forest Management Advisory Committee, Victoria, B.C.
(representing the Outdoor Recreation Council and the Canadian Parks & Wilderness Society).

Member (1992-1995), Reclamation Code Review Committee, B.C. Ministry of Energy, Mines and Petroleum Resources. Victoria, B.C.

Member (1991-1995), Reforestation Information Bank (R.I.B.) Technical Support Committee, B.C. Ministry of Forests. Victoria, B.C.

Member (1990-1995), Forest Land Use Liaison Committee (sponsored by the Council of Forest Industries), Vancouver, B.C. (representing the Canadian Parks and Wilderness Society); Chair, Forest Road Access Subcommittee and Silvicultural Land Reserve Subcommittee.

(e) Editorships (listing journal and dates)

Co-Editor in Chief, Canadian Journal of Forest Research, 2016-2020; oversaw the review, evaluation, and publication decision on more than 250 manuscripts per year.

Associate Editor, Canadian Journal of Forest Research, 2011-2015; 2021-present; an average of 18 manuscripts per year managed, reviewed, and recommended.

Guest Associate Editor, Canadian Journal of Forest Research, special issue publishing proceedings of the Fifth North American Forest Ecology Workshop, 2005-2006; managed review and acceptance of 4 or 5 articles.

(f) Reviewer (journal, agency, etc. including dates)

Manuscripts for journal publication: [listed alphabetically; primarily since 2003; details not recorded before that]

Annals of Forest Science – February 2010, November 2008

American Midland Naturalist – July 2014

Applied Vegetation Science – December 2010

Biological Conservation – July 2012

BioScience – October 2019
 Botany / Canadian Journal of Botany – April 2009, April 2008, 2 in July 2005, May 2004, December 2003
 Canadian Journal of Forest Research – (in addition to those managed and reviewed as Associate Editor or Co-Editor in Chief) December 2017, July 2017, May 2016, December 2015, April 2015, January 2015, November 2014, October 2014, July 2014, January 2013, November 2011, May 2011, December 2010, January 2009, April 2008, January 2008, September 2007, July 2007, June 2007, March 2007, May 2006, November 2005, May 2005, March 2005, January 2004, November 2003, August 2003
 Canadian Silviculture – June 2008
 Cartographica – May 2006
 Climatic Change – January 2015
 Ecological Applications – September 2013, May 2012, April 2006
 Ecological Monographs – September 2012
 Ecology – April 2021, June 2004
 Ecoscience – January 2005
 Ecosphere – July 2020, October 2016
 Ecosystems – March 2015, July 2012, April 2010
 European Journal of Forest Research – May 2014
 Forest Ecology and Management – March 2019, December 2018, March 2016, September 2015, June 2015, May 2015, January 2015, October 2014, September 2014, 2 in June 2014, June 2013, November 2011, March 2010, January 2007, July 2006, October 2005, March 2005, May 2005, December 2004, April 2004, and several more
 Forestry – September 2017, October 2016, May 2016, January 2015, October 2007
 Forestry Chronicle – January 2008, May 2002, October 2001, August 2001, June 2001, April 1998
 Forest Ecosystems – January 2018 (x2)
 Forest Science – June 2007
 Forest Snow and Landscape Research – November 2005
 Forests – April 2020, January 2019, April 2014, June 2013, March 2013
 Frontiers in Ecology and the Environment – April 2019
 Global Change Biology – August 2016, June 2016
 Global Ecology and Biogeography – July 2019, February 2018
 International Journal of Wildland Fire – June 2012, December 2009, May 2004
 Journal of Applied Ecology – May 2017, October 2015, April 2011
 Journal of Ecology – December 2014.
 Journal of Ecosystems and Management – March 2012, November 2011, February 2008, October 2004,
 Journal of Mountain Science – March 2014, January 2014
 Journal of Vegetation Science – April 2016, July 2011, January 2008, September 2006, May 2005, January 2005
 Journal for Nature Conservation – February 2019, August 2013
 Landscape Ecology – August 2020
 Landslides – March 2018, January 2017, September 2016
 Northeastern Naturalist – February 2017
 Northwest Science – March 2004
 Plant Ecology – August 2015, September 2013, October 2004, January 2005, October 2004
 PLoS One Biology – October 2011
 Proceedings of the National Academy of Sciences (PNAS) – January 2021, September 2020
 Polar Biology – February 2015, June 2009
 Regional Environmental Change – March 2014
 Scientific Reports – June 2019
 Silva Fennica – March 2011, June 2005, May 2005
 Sustainability – January 2017, July 2016

Journals for which manuscripts were reviewed (primarily before 2004), dates not recorded:

Multiple reviews for each of: Canadian Journal of Botany (Botany), Canadian Journal of Forest Research, Ecological Applications, Ecology, Ecoscience, Forest Ecology and Management, Northwest Science, The Forestry Chronicle.

One or two reviews for each of: American Journal of Botany, Journal of Ecosystems and Management, Bulletin of the Torrey Botanical Club, Biotropica, Climate Research, Ecoforestry, Environmental Monitoring and

Assessment, Forest Science, International Journal of Wildland Fire, Journal of Wildlife Management, Ecological Modelling, Natural Areas Journal, New Forests, Plant Ecology, Scandinavian Journal of Forest Research, Water Air and Soil Pollution, Western Journal of Applied Forestry.

Manuscripts for publication as reports, books, or book chapters:

BC Forest Practices Board – report, September 2009
 BC Ministry of Forests, Lands, Natural Resources Operations & Rural Development – technical report, July 2020
 CRC Press – book chapter, August-September 2014
 Chapman & Hall – book chapters, x2, May 2012
 Earthscan – book chapter, September 2014
 Elsevier – book chapters, January 2008, April 2007
 Harvard Forest – special publications, December 2009, April 2004
 FORREX – report, February 2011
 Global Forest Watch – report, February 2008
 Government of Canada – Ecosystem Status and Trends Report, March 2010
 Natural Resources and Environmental Studies Institute (NRESI), UNBC – report, September 2009
 Natural Resources Canada, Canadian Forest Service – Information Reports, December 2011, September 2011, May 2011, October 2010, January 2010, December 2008 x2, April 2008, May 2007, September 2005, August 2005
 Omineca Beetle Action Committee – report, October 2008
 RAND Corporation and Edward Elgar Publishing – book chapter, August 2018
 Society for Ecological Restoration – report, May 2002
 Springer Nature – book chapter, January 2021
 University of Alberta Press – book, December 2011-January 2012
 Reports and Government Publications for which manuscripts were reviewed (primarily before 2004), dates not recorded: Canadian Forest Service Information Reports, Southern Interior Forest Extension and Research Partnership (SIFERP) publications, Forest Renewal B.C. (FRBC) Research Program Final Reports, Canada/British Columbia Forest Resource Development Agreement (FRDA) Reports, and various B.C. Ministry of Forests (MoF) publications.

Proposals for industrial development, policy development or reform, etc. (see also 11(d), Community Service):

Northern Gateway / Enbridge bitumen pipeline -- forest and forestry impacts, October 2011-July 2012
 BC Ministry of Forests and Range – Genetic Resource Conservation Management, May 2007
 Natural Resources Canada, Canadian Forest Service – Bioproducts Strategy, April 2007
 Natural Resources Canada, Canadian Forest Service – Climate Change Strategy, March 2007
 BC Ministry of Forests & Range, Prince George Forest District – Forest Stewardship Plan for TFL 53
 UNBC/UBC Aleza Lake Research Forest – Management Plan, September 2005
 Policy Research Initiative / Environ. Canada – Integrated Landscape Management Modelling, Feb.-March 2005
 Environment Canada – Canadian Biodiversity Strategy, 1994-1995
 BC Ministry of Forests, Timber Supply Branch -- Timber Supply Reviews, Cassiar Timber Supply Area and Fort Nelson Timber Supply Area, ~1993
 UBC Alex Fraser Research Forest – Management Plan, ~1992

Proposals for research funding:

Austrian Science Fund – December 2013, January 2012
 Alberta Conservation Association – January 2011
 Alberta Innovates – February 2016, January 2012
 BC Forest Science Program – 11 proposals in January 2004
 Canadian Foundation for Innovation – January 2014
 National Science and Engineering Research Council (NSERC) – August 2018, November 2017, January 2017, June 2016, January 2016, April 2015, January 2012, January 2010, April 2009, January 2007, November 2006, April 2006, January 2005, August 2004, January 2004
 MITACS – industry internship program, May 2010; Accelerate program, December 2018, April 2018, November 2015
 Quebec Ministère de ressources naturelles et faune (MRNF) – Programme de mise en valeur des ressources du milieu forestier, 5 proposals in April 2005 [and another year as well, not recorded]

Polish Ministry of Science and Higher Education – April 2020
 Research Council of Norway – July 2010
 Sustainable Forest Management Network Centres of Excellence – January 2002
 US Department of Agriculture, Ecosystem Science Competitive Grants Program – April 2000
 US Department of Agriculture, Small Business Program – January 2004

Agencies for which proposals were reviewed and/or site visits conducted (primarily before 2004), dates not recorded: Canadian National Science and Engineering Research Council (NSERC), U.S. National Science Foundation (NSF), Sustainable Forest Management Network (SFMN), U.S. Department of Agriculture (USDA) Small Business Innovation Research Program, Science Council of B.C. (SCBC), Forest Renewal B.C.'s Terrestrial Ecosystem Restoration Program (TERP), B.C. Ministry of Forests Research Branch, B.C. Forest Sciences Program, and Prince Albert Model Forest.

(g) *External examiner (universities and dates indicated)*

Université Laval, Quebec City, Quebec – May 2018
 Thompson Rivers University, Kamloops, B.C. – May 2018
 University of Eastern Finland, Joensuu, Finland – August 2017
 Université du Québec à Montréal, Montreal, Quebec – April 2015, February 2013
 University of British Columbia, Vancouver, British Columbia – May 2017, January 2013
 Lakehead University, Thunder Bay, Ontario -- November 2009
 Memorial University, St. John's, Newfoundland & Labrador -- October 2008
 University of Helsinki, Helsinki, Finland – February 2005
 University of Alberta, Edmonton, Alberta – [pre-2005; perhaps twice, date(s) not recorded]
 University of Victoria, Victoria, B.C. – August 2005
 University of Northern British Columbia, Prince George, B.C. – May 2011, August 2005

(h) *Consultant (organization and dates indicated)*

Sub-contracted (via Symbios Research & Restoration, see symbiosresearch.ca):

BC Ministry of Forests, Lands and Natural Resource Operations, 2017, "Gap Analysis and Monitoring Protocols for Sustainability of Medicinal Plants," February-March, 2017.
 EDI Environmental Dynamics Inc. (Prince George, B.C.), 2013, "Rare Plants and Ecosystems Along the Proposed Prince Rupert Gas Transmission Route;" July-August 2013.
 BC Hydro (Burnaby, B.C.), 2009, "Revegetation Strategy for Dust Control at Williston Lake Reservoir;" May-June 2009.

Selected Contracts as Symbios Research & Restoration:

B.C. Ministry of Water, Land and Air Protection, Biodiversity Branch (Victoria, B.C.), 2003, "Draft Standards for Using Native Plant Seed for Terrestrial Restoration".
 Sustainable Forest Management Network (Edmonton, Alberta), 2000-2003, Co-ordination (editing, indexing, writing one chapter, co-authoring three chapters) of a book to synthesize the first seven years of research conducted by the Sustainable Forest Management Network.
 Parks Canada (Vancouver, B.C.), 2002. "Floristic Inventory of Kitwanga Fort National Historic Site: Species at Risk, Ethnobotany, and Considerations for Historical Ecosystem Restoration".
 B.C. Ministry of Water, Land and Air Protection, B.C. Parks, Terrace Field Office (Terrace, B.C.), 2002, "Restoration of Degraded Subalpine Meadows in Seven Sisters Provincial Park: Implementing Alternative Treatments and a Monitoring Program".
 Tmix[®] Research (Merritt, B.C.), 2002. "Distribution, Site Suitability and Productivity of Black Huckleberry (*Vaccinium membranaceum*) within Nlekepmx Traditional Picking Grounds in the Merritt TSA".
 McMaster University, Department of Anthropology, Hamilton, Ontario, 2001-2002, "A Reference Collection of Northwestern Fruit Seeds".
 B.C. Ministry of Sustainable Resource Management (Skeena Region, Smithers, B.C.), 2001-2002, "Expert Panel on Landscape Planning in Mountain Pine Beetle Outbreak Areas".

- B.C. Ministry of Water, Land and Air Protection, B.C. Parks, Terrace Field Office (Terrace, B.C.), 2001, "Phase II Restoration Prescriptions for Exchamsiks River Provincial Park".
- B.C. Ministry of Water, Land and Air Protection, B.C. Parks, Terrace Field Office (Terrace, B.C.), 2001, "A Restoration Plan for Degraded Subalpine Meadows in Seven Sisters Provincial Park."
- Community Futures Development Corporation of Nadina (Houston, B.C.), 2000-2001, "Pilot Riparian Rehabilitation and Management Projects in the Upper Bulkley Drainage".
- Fort Nelson First Nation (Fort Nelson, B.C.), 2000, "Landscape Level Analysis of Forest Development Plans in the Fontas River Valley".
- B.C. Ministry of Environment, Lands and Parks, Terrace Field Office (Terrace, B.C.), 2000, "Phase I Restoration Prescriptions for Exchamsiks River Provincial Park".
- B.C. Ministry of Forests, Kispiox Forest District (Hazelton, B.C.), 1999-2000, "Exploring Options for the Management of Wild Berries: Phase One of a Pilot Project Focusing on the Suskwa River Area".
- B.C. Ministry of Environment, Lands and Parks, Terrace Field Office (Terrace, B.C.), 1999-2000, "Exchamsiks River Provincial Park Campground Impact Assessment".
- B.C. Ministry of Forests, Prince George Forest Region (Prince George, B.C.), 1999, "Compilation and Analysis of Windthrow in Wildlife Tree Patches in the Sub-Boreal Spruce Zone".
- Gitsegukla Band Council (Gitsegukla, B.C.), 1998, "Landing Rehabilitation and Road Deactivation Training Workshop"
- Inland Timber Management Ltd. (Williams Lake, B.C.), 1998, "Native Plant Seed Mix for Mt. Polley Mine Reclamation"
- B.C. Ministry of Environment, Lands and Parks, Skeena District, Terrace Field Office (Terrace, B.C.) 1997, "Assessment of Flora and Vegetation and Impact Significance, Lower Kitlope River."
- B.C. Ministry of Forests, Research Branch (Victoria, B.C.), 1995-1996, Contributions to "Methods for Studying Tree Seed Biology in the Field".

(i) *Other service to the community*

- Judge, August 2018, 2019, 2020, "Visualizing Science" image contest, sponsored by Canadian Science Publishing, Ottawa, Ontario.
- Member, 2014-present, Kalum Plan Implementation Committee, Terrace, B.C. (responsible for guiding and monitoring implementation of the Kalum Land and Resource Management Plan).
- Member, 2014-2017, B.C. Forest Practices Board Panel reviewing the Forest and Range Evaluation Program (FREP).
- Judge, 9 March 2013, Northern British Columbia Regional Science Fair, Terrace, B.C.
- Made a presentation ("Mid-Term Timber Supply and Forest-Based Resilience") and led discussion in a public forum on "Managing for Tomorrow: Resources and Community Development in Burns Lake." Sponsored by UNBC and the Village of Burns Lake. May 10th, 2012, Burns Lake, B.C.
- Director (2007-2017), Awards Committee Chair (2008-2010), Awards Nomination Committee (2013), and Member, Research Advisory Committee (2003-2007), Bulkley Valley Centre for Natural Resources Research and Management, Smithers, B.C.
- Director/CFS Representative on the Board of Directors, Finance & Audit Committee member (2005-2009), and Northern Advisory Committee member (2004-2012), FORREX Forum for Research and Extension in Natural Resources, Kamloops, B.C.
- Organized and chaired a one-day panel discussion on "Forest research in northern British Columbia" at the Pacific Forestry Centre, 28 April 2006, Victoria, B.C.
- Chaired a panel discussion entitled "Boring? Not This Beetle!" as part of Science & Technology Week in Canada. Exploration Place, 14 October, 2005, Prince George, B.C.
- Chaired a panel discussion on "Fire Ecology and Risk Management" at the 34th Annual Conference of the Canadian Science Writers Association, 20-24 June, 2005, Jasper, Alberta.
- Organized and chaired a symposium on "The Value of Long-Term Research Installations" at the Fifth North American Forest Ecology Workshop, 11-16 June 2005, Aylmer, Quebec.
- Member, 1999-2001, Bulkley Valley Community Resources Board, Smithers, B.C. (responsible for guiding and monitoring the implementation of the Bulkley Land and Resource Management Plan); Chair, Rieseter Special Management Area planning committee.
- Treasurer (1999-present) and Founding Director (1998), Wilp Sa Maa'y Harvesting Co-operative (a community-based non-timber forest products enterprise), Hazelton, B.C.

Founded (1998), and fundraised for (1998-2002) two “Bulkley Valley Renewable Resources Scholarships,” one for graduates of Smithers Secondary School and one for entrants to Northwest Community College’s Forest Ecosystem Technology program.

Founded (1997), and co-ordinated (1997-2000) a “Natural Resources Research and Management Seminar Series” for professional foresters, biologists and other environmental scientists and technicians in the Bulkley Valley, Smithers, B.C.

Director (1996-present), Northwest Institute for Bioregional Research, Smithers, B.C.

Organized and chaired a panel discussion on "First Nations Forest Management in British Columbia: Expectations and Experience," Vancouver Section of the Canadian Institute of Forestry, April 11, 1995, Vancouver, B.C.

Member (1991-1995), Multi-Agency Task Force on Experimental Forests, B.C. Ministry of Forests. Victoria, B.C.

12. AWARDS AND DISTINCTIONS

(a) *Awards for Teaching*

n/a

(b) *Awards for Scholarship*

NRESI (Natural Resources and Environmental Studies Institute) Distinguished Scholar Award, University of Northern British Columbia, May 2021

- In recognition of "...extraordinary contribution in the last 12 months... [having] demonstrated a profound influence on interdisciplinary and/or applied research or service relating to natural resources and/or environment in British Columbia."

University Excellence in Research Award, University of Northern British Columbia, May 2021

- "... to acknowledge Faculty Association Members who are deemed exceptional researchers and scholars."

Jim Pojar Award, Bulkley Valley Centre for Natural Resources Research & Management, February 2013

- Shared with David Lindenmayer and Jerry Franklin, for publication of the book *Salvage Logging and its Ecological Consequences*, awarded for "an outstanding recent publication ... that contributes to the understanding or sustainability of natural resources in northwest BC."

Charles Bullard Fellowship in Forest Research, Harvard University, 2002-2003

- Fully funded sabbatical year at Harvard Forest, Petersham, Massachusetts

Fellowship in Botany, University of Illinois, August 1983

- Entrance scholarship for graduate studies

Phi Kappa Phi Honor Society, University of Hawaii, May 1981

B.Sc. awarded *Magnis cum honoribus*, University of Saskatchewan, May 1978

Men of the Trees Prize in Plant Ecology, University of Saskatchewan, May 1978

D.S. Rawson Memorial Book Prize in Biology, University of Saskatchewan, May 1978

(c) *Awards for Service (indicate name of award, awarding organizations, date)*

Recognition Award, Canadian Forest Service, 2015.

- In recognition of dedication and exceptional achievements as part of the Boreal Synthesis Team

(d) *Other Awards*

Certificate for Highly Cited Research published in Journal for Nature Conservation, Elsevier, Dec. 2016

- Re: Conservation value of forests attacked by bark beetles.

Merit pay increment awarded, University of British Columbia, June 1994

- In recognition of exemplary teaching, research, and/or service

13. OTHER RELEVANT INFORMATION (Maximum One Page)

My career has consisted of efforts to build bridges: between forest management and conservation biology, between basic and applied research, and from local cases to global generalizations. With eclectic interests and a desire to be relevant and to reach many audiences, I have conducted research, teaching, writing and speaking on a wide range of topics and sub-disciplines, but all related to terrestrial plant ecology and environmental sustainability. I have also made a conscious effort to reach land managers and members of the general public through professional and popular publications and presentations.

From 2003 to mid-2019, I have held managerial and administrative positions that have placed a greater emphasis on synthesis and program planning than on the primary activities of research and teaching. A key goal in these roles has been to build cohesive teams, inspire cross-disciplinary considerations, and employ thoughtful analysis and creative thinking to address complex problems, whether those relate to ecosystem management or to post-secondary education.

THE UNIVERSITY OF NORTHERN BRITISH COLUMBIA
Publications Record

SURNAME: Burton

FIRST NAME: Philip
MIDDLE NAME(S): Joseph

Initials:
Date: 14 June 2021

1. REFEREED PUBLICATIONS

(a) *Journals*

73. Kneeshaw, D., B. Sturtevant, L. DeGrandpé, E. Doblás-Miranda, P.M.A. James, D. Tardif, and **P.J. Burton**. 2021. The vision of managing for pest-resistant landscapes: Realistic or utopic? *Current Forestry Reports* 7: <https://doi.org/10.1007/s40725-021-00140-z>, 17 p. Published online 16 April 2021.
72. Coogan, S.C.P., L.D. Daniels, D. Boychuk, **P.J. Burton**, M.D. Flannigan, S. Gauthier, V. Kafka, J.S. Park, and B.M. Wotton. 2021. Fifty years of wildland fire science in Canada. *Canadian Journal of Forest Research* 51: 283-302. DOI: 10.1139/cjfr-2020-0314
71. Cardoso, J.C., **P.J. Burton**, and C.M. Elkin. 2020. A disturbance ecology perspective on silvicultural site preparation. *Forests* 11, 1278. DOI:10.3390/f11121278.
70. Leverkus, A.B., B. Buma, J. Wagenbrenner, **P.J. Burton**, E. Lingua, R. Marzano, and S. Thorn. 2020. Tamm review: Does salvage logging mitigate subsequent forest disturbances? *Forest Ecology and Management* 481, 118721. DOI: 10.1016/j.foreco.2020.118721
69. **Burton, P.J.**, A. Jentsch, and L.R. Walker. 2020. The ecology of disturbance interactions. *BioScience* 70(10): 854-870. DOI: 10.1093/biosci/biaa088
68. **Burton, P.J.**, J. Simons, S. Brittingham, D.B. Thompson., D.W. Brooks, and L.R. Walker. 2020. Regeneration dynamics of Great Basin bristlecone pine in southern Nevada. *Canadian Journal of Forest Research* 50(6): 589-594. DOI: 10.1139/cjfr-2019-0404
67. Mansuy, N., **P.J. Burton**, J. Stanturf, J., C. Beatty, C. Mooney, P. Besseau, D. Dehenhardt, K. MacAfee, and R. Lapointe. 2020. Scaling up forest landscape restoration in Canada in an era of cumulative effects and climate change. *Forest Policy and Economics* 116(7): 102177. DOI: 10.1016/j.forpol.2020.102177.
66. Seidl, R., J. Honkaniemi, T. Aakala, A. Aleinikov, P. Angelstam, M. Bouchard, Y. Boulanger, **P.J. Burton**, L. De Grandpré, S. Gauthier, W.D. Hansen, J.U. Jepsen, K. Jögiste, D.D. Kneeshaw, T. Kuuluvainen, O. Lisitsyna, K. Makoto, A.S. Mori, D.S. Pureswaran, E. Shorohova, E. Shubnitsina, A.R. Taylor, N. Vladimirova, F. Vodde, and C. Senf. 2020. Globally consistent climate sensitivity of natural disturbances across boreal and temperate forest ecosystems. *Ecography* 43(7): 967-978. DOI: 10.1111/ecog.04995
65. Clason, A.J., **P.J. Burton**, and E.J.B. McIntire. 2020. Latitudinal limit not a cold limit: Cold temperatures do not constrain an endangered tree species at its northern edge. *Journal of Biogeography* 47(6): 1398-1412. DOI: 10.1111/jbi.13822.
64. **Burton, P.J.**, and Y. Boulanger. 2018. Characterizing the combined fire and insect outbreak disturbance regimes of British Columbia, Canada. *Landscape Ecology* 33(11): 1997-2011. DOI 10.1007/s10980-018-0710-4.
63. Haughian, S.R., and **P.J. Burton**. 2018. Microclimate differences above ground-layer vegetation in lichen-dominated pine forests of north-central British Columbia. *Agricultural and Forest Meteorology* 249: 100-106. DOI: 10.1016/j.agrformet.2017.11.029.
62. Thorn, S., C. Bässler, R. Brandl, **P.J. Burton**, R. Cahall, J.L. Campbell, J. Castro, C.Y. Choi, T. Cobb, T., D.C. Donato, E. Durska, J.B. Fontaine, S. Gauthier, C. Hebert, T. Hothorn, R.L. Hutto, E.-J. Lee, A.B. Leverkus, D.B. Lindenmayer, M.K. Obrist, J. Rost, S. Seibold, R. Seidl, D. Thom, K. Waldron, B. Wermelinger, M.-B. Winter, M. Zmihorski, and J. Müller. 2018. Impacts of salvage logging on biodiversity: a meta-analysis. *Journal of Applied Ecology* 55(1): 279-289. DOI: 10.1111/1365-2664.2945.
61. Aubin, I., A.D. Munson, F. Cardou, **P.J. Burton**, N. Isabel, J.H. Pedlar, A. Paquette, A.R. Taylor, S. Delagrangé, H. Kebli, C. Messier, B. Shipley, F. Valladares, J. Kattge, L. Boisvert-Marsh, and D. McKenney. 2016. Traits to stay, traits to move: a review of functional traits to assess sensitivity and adaptive capacity of temperate and boreal forests to climate change. *Environmental Reviews* 24(2): 164-186. DOI 10.1139/er-2015-0072.
60. Haughian, S.R, and **P.J. Burton**. 2015. Microhabitat associations of lichens, feathermosses, and vascular plants in a caribou winter range, and their implications for understory development. *Botany* 93(4): 221-231. DOI: 10.1139/cjb-2014-0238

59. Klassen, H.A., and **P.J. Burton**. 2015. Climatic characterization of forest zones across administrative boundaries improves conservation planning. *Applied Vegetation Science* 18(2): 343-356. DOI: 10.1111/avsc.12143
58. Burton, C.M., and **P.J. Burton**. 2015. Recovery of *Oplopanax horridus* (Sm.) Miq., an important ethnobotanical resource, after clearcut logging in northwestern British Columbia. *Ethnobotany Research & Applications* 14: 1-15. DOI: 10.17348/era.14.0.1-15
57. Edwards, M., M. Krawchuk, and **P.J. Burton**. 2015. Short-interval disturbance in lodgepole pine forests, British Columbia, Canada: Understory and overstory response to mountain pine beetle and fire. *Forest Ecology and Management* 338: 163-175. DOI: 10.1016/j.foreco.2014.11.011
56. Carson, A.W., P.M. Rutherford, and **P.J. Burton**. 2014. Desulphurized tailings serve as a useful soil supplement for mine reclamation. *Canadian Journal of Soil Science* 94: 529-541. DOI: 10.4141/cjss2013-116 [cover story]
55. Gauthier, S., P. Bernier, **P.J. Burton**, J. Edwards, K. Isaac, N. Isabel, K. Jayen, H. Le Goff, and E.A. Nelson. 2014. Climate change vulnerability and adaptation in the managed Canadian boreal forest. *Environmental Reviews* 22(3): 256-285. DOI: 10.1139/er-2013-0064
54. **Burton, P.J.** 2014. Considerations for monitoring and evaluating forest restoration. *Journal of Sustainable Forestry* 33(S1): S149-S160. DOI: 10.1080/10549811.2014.884001 [showcased by Taylor & Francis as one of 10 highly cited papers from 2013 and 2014]
53. Boulanger, Y., S. Gauthier, and **P.J. Burton**. 2014. A refinement of models projecting future Canadian fire regimes using homogeneous fire regime zones. *Canadian Journal of Forest Research* 44(4): 365-376. DOI: 10.1139/cjfr-2013-0372
52. Filotas, E., L. Parrott, **P.J. Burton**, R.L. Chazdon, K.D. Coates, L. Coll, S. Haeussler, K. Martin, S. Nocentini, K.J. Puettmann, F.E. Putz, S.W. Simard, and C. Messier. 2014. Viewing forests through the lens of complex systems science. *Ecosphere* 5(1): art. 1, 23 p. DOI: 10.1890/ES13-00182.1
51. Brown, M.G., T.A. Black, Z. Nestic, V.N. Foord, D.L. Spittlehouse, A. L. Fredeen, R. Bowler, N.J. Grant, **P.J. Burton**, J.A. Trofymow, and D. Lessard. 2014. Evapotranspiration and canopy characteristics of two lodgepole pine stands following mountain pine beetle attack. *Hydrological Processes* 28(8): 3326-3340. DOI: 10.1002/hyp.9870.
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49. Lehnert, L.W., C. Bässler, R. Brandl, **P.J. Burton**, and J. Müller. 2012. Conservation value of forests attacked by bark beetles: highest number of indicator species is found in early successional stages. *Journal for Nature Conservation* 21(2):97-104. DOI: 10.1016/j.jnc.2012.11.003.
48. McKechnie, I.M, **P.J. Burton**, and H.B. Massicotte. 2012. Propagation of *Vaccinium membranaceum* and *V. myrtilloides* by seeds, hardwood stem, and rhizome cutting methods. *Native Plants Journal* 13: 223-234.
47. Boulanger, Y, S. Gauthier, **P.J. Burton**, and M.-A. Vaillancourt. 2012. An alternative fire regime zonation for Canada. *International Journal of Wildland Fire* 21(8):1052-1064. DOI: 10.1071/WF11073.
46. Haughian, S.R., **P.J. Burton**, S.W. Taylor, and C.L. Curry. 2012. Expected effects of climate change on forest disturbance regimes in British Columbia. *Journal of Ecosystems and Management* 13(1):1-24. Available on-line at <https://jem-online.org/index.php/jem/article/viewFile/152/107>
45. Brown, M.G., T.A. Black, Z. Nestic, A.L. Fredeen, V.N. Foord, D.L. Spittlehouse, R. Bowler, **P.J. Burton**, J.A. Trofymow, N.J. Grant and D. Lessard. 2012. The carbon balance of two lodgepole pine stands recovering from mountain pine beetle attack in British Columbia. *Agricultural and Forest Meteorology* 153: 82-93. DOI: 10.1016/j.agrformet.2011.07.010.
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43. Rose, N.-A., and **P.J. Burton**. 2011. Persistent climate corridors: the identification of climate refugia in British Columbia's Central Interior for the selection of candidate areas for conservation. *BC Journal of Ecosystems and Management* 12(1): 101–117. Available on-line at <http://jem.forrex.org/index.php/jem/article/view/42/62>
42. Wallenius, T.H., J. Pennanen, and **P.J. Burton**. 2011. Long-term decreasing trend in forest fires in northwestern Canada. *Ecosphere* 2(5): art. 53, 16 p. DOI: 10.1890/ES11-00055.1
41. **Burton, P.J.** 2010. Striving for sustainability and resilience in the face of unprecedented change: the case of the mountain pine beetle outbreak in British Columbia. *Sustainability* 2: 2403-2423. DOI: 10.3390/su2082403.

40. Brown, M., T.A. Black, Z. Nestic, V.N. Foord, D.L. Spittlehouse, A.L. Fredeen, N.J. Grant, **P.J. Burton**, and J.A. Trofymow. 2010. Impact of mountain pine beetle on the net ecosystem production of lodgepole pine stands in British Columbia. *Agricultural and Forest Meteorology* 150(2): 254-264. DOI: 10.1016/j.agformet.2009.11.008.
39. Lindenmayer, D.B., M.L. Hunter, **P.J. Burton**, and P. Gibbons. 2009. Effects of logging on fire regimes in moist forests. *Conservation Letters* 2(6): 271-277. DOI: 10.1111/j.1755-263X.2009.00080.x.
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36. Burton, C.M., **P.J. Burton**, R. Hebda, and N.J. Turner. 2006. Determining the optimal sowing density for a mixture of native plants used for revegetation and ecosystem restoration. *Restoration Ecology* 14(3): 379-390. DOI: 10.1111/j.1526-100X.2006.00146.x
35. **Burton, P.J.**, C. Messier, W.L. Adamowicz, and T. Kuuluvainen. 2006. Sustainable management of Canada's boreal forests: Progress and prospects. *EcoScience* 13(2): 234-248. DOI: 10.2980/i1195-6860-13-2-234.1
34. **Burton, P.J.** 2006. Restoration of forests attacked by mountain pine beetle: Misnomer, misdirected, or must-do? *BC Journal of Ecosystems and Management* 7(2): 1-10. Available on-line at <https://jem-online.org/forrex/index.php/jem/article/download/537/444> .
33. Harper, K.A., S.E. Macdonald, **P.J. Burton**, J. Chen, K.D. Brosofske, S.C. Saunders, E.S. Euskirchen, D. Roberts, M.S. Jaiteh, and P.-A. Esseen. 2005. Edge influence on forest structure and composition in fragmented landscapes. *Conservation Biology* 19(3): 768-782. DOI: 10.1111/j.1523-1739.2005.00045 [cited **1346 times per Google Scholar™ as of 2021-04-08]**
32. DeLong, C., **P.J. Burton**, and M. Harrison. 2004. Assessing the relative quality of old-growth forest: an example from the Robson Valley, British Columbia. *Journal of Ecosystems and Management* 4(2): 71-86. Available on-line: http://www.forrex.org/JEM/ISS24/vol4_no2_art8.pdf
31. **Burton, P.J.**, and C.M. Burton. 2002. **Promoting** genetic diversity in the production of large quantities of native plant seed. *Ecological Restoration* 20(2): 116-122.
30. **Burton, P.J.** 2002. Effects of clearcut edges on trees in the Sub-Boreal Spruce zone of northwest-central British Columbia. *Silva Fennica* 36: 329-352. Available on-line at <http://www.silvafennica.fi/pdf/article566.pdf>
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23. Kneeshaw, D.D., and **P.J. Burton**. 1998. Assessment of functional old-growth status: a case study in the Sub-Boreal Spruce zone of British Columbia, Canada. *Natural Areas Journal* 18(4): 293-308. [cover story].
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21. Kneeshaw, D.D., and **P.J. Burton**. 1997. Canopy and age structures of some old sub-boreal *Picea* stands in British Columbia. *Journal of Vegetation Science* 8(5): 615-626. DOI: 10.2307/3237365
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(b) *Conference Proceedings, refereed*

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3. **BOOKS**

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2. Sesser, A.L., A.P. Rockhill, D.R. Magness, D. Reid, J. DeLapp, **P.J. Burton**, E. Schroff, V. Barber, and C. Markon, editors. 2019 *Drivers of Change in the Northwest Boreal Region*. University of Alaska Press, Fairbanks, Alaska. 326 p. [refereed]
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(c) *Chapters* – see 1(c)

4. PATENTS

n/a

5. SPECIAL COPYRIGHTS

n/a

6. ARTISTIC WORKS, PERFORMANCES, DESIGNS

n/a

7. OTHER WORKS (most recent listed first)

(a) *Published Reports*

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(b) *Selected project reports*

19. **Burton, P.J.** 2021. Understanding Wildfire Behaviour in Planted Stands. 2020-2021 Year-End Report to Natural Resources Canada, Victoria, B.C. 36 p.
18. Boxwell, A., L. Terezan, and **P.J. Burton**. 2020. Remote Sensing Analysis to Map Not Sufficiently Restocked (NSR) Forest a Decade After Mountain Pine Beetle Attack. Final Report to BC Ministry of Forests, Lands, Natural Resource Operations and Rural Development, Prince George Natural Resource District, Prince George, B.C. 15 p.

17. **Burton, P.J.** 2019. Investigations into Determinants of Vegetation Change at Nisga'a Memorial Lava Beds Park. Year 1 progress report on a Living Lab Project, submitted to BC Parks, British Columbia Ministry of Environment and Climate Change, Victoria, BC. Available on-line at <http://www.env.gov.bc.ca/bcparks/partnerships/living-labs/research-projects/2018-19/>
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