Curriculum Vitae
Darryl E. Carlyle-Moses, Ph.D.

Professor and Academic Advisor, Geography & Environmental Studies Program,
Interim Department Coordinator, Department of Environment, Culture and Society.
Full Graduate Faculty Member, Master of Science in Environmental Science;
Full Graduate Faculty Member, Master of Arts in Human Rights and Social Justice,
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I. ACADEMIC QUALIFICATIONS

2002 **Ph.D.** Physical Geography (Major Area = Physical Hydrology, Minors areas = Geomatics and Biogeography), Graduate Department of Geography, University of Toronto. Supervisor: Anthony G. Price.

1996 **M.Sc.** Environmental and Resource Geography, Graduate Department of Geography, University of Toronto. Supervisor: Anthony G. Price.

1994 **Hon. B.Sc.** Environmental Management (Major), Physical Geography and Environmental Science (Double Minor), Department of Geography, Faculty of Arts and Science, University of Toronto at Mississauga.

II. ACADEMIC APPOINTMENTS

2020 – **Professor** - Department of Environment, Culture and Society (2022 – present), Department of Geography and Environmental Studies (2020 – 2022), Thompson Rivers University.

2010 – 2020 **Associate Professor** - Department of Geography & Environmental Studies, Thompson Rivers University.

2004 – 2010 **Assistant Professor** - Department of Geography, Thompson Rivers University (formerly University College of the Cariboo).

2004 **Post-Doctoral Fellow –** NSERC PDF, Faculty of Forestry, University of British Columbia. Supervisor - Dr. Younes Alila. Declined to accept academic position with University College of the Cariboo (currently Thompson Rivers University).

2002 – 2004 **Sessional Lecturer** - Department of Geography, University of Toronto and University of Toronto at Mississauga.

1994 – 2002 **Teaching Assistant** - Department of Geography, University of Toronto, University of Toronto at Mississauga, and University of Toronto at Scarborough.

III. ADMINISTRATIVE APPOINTMENTS

2023 – 2024 **Interim Department Coordinator –** Department of Environment, Culture and Society, Thompson Rivers University. 10-month appointment

2021 – 2024 **Graduate Program Coordinator –** Master of Science in Environmental Science, Thompson Rivers University. 3-year term.

2011 – 2017 **Department Chair –** Department of Geography & Environmental Studies, Thompson Rivers University. Served two consecutive 3-year terms.

2014 – 2015 **Interim Chair –** Department of Sociology and Anthropology, Thompson Rivers University. Served one 6 -month term plus an additional 2-month extension.

IV. TEACHING, COURSE & PROGRAM DEVELOPMENT, AND STUDENT SUPERVISION

i. Summary of Student Course Evaluations

- Average scores based on 29 TRU paper-based course evaluations: Fall 2004 – Winter 2014

Presentation Skills:	4.51 / 5.00	
Organizational Skills:	4.48 / 5.00	
Interpersonal Skills:	4.65 / 5.00	Overall Mean: 4.55/ 5.00

- Average scores based on the 2 TRU Moodle-based course evaluations: Winter 2015

General Instruction	4.71 / 5.00	
Classroom Instruction	4.69 / 5.00	
Lab Instruction	4.62 / 5.00	Overall Mean: 4.67 / 5.00

- Average Scores based on 20 TRU web-based 0 - 3 point-scale course evaluations: Winter 2016 – Winter 2023*

Senate Questions	2.53 / 3.00	
Rating of Instruction	2.50 / 3.00	Overall Mean: 2.51 / 3.00

*Note: Strongly Disagree = 0; Disagree = 1; Agree = 2; Strongly Agree = 3

ii. Courses Taught and Developed at Thompson Rivers University

GEOG 1120 – Earth's Lands and Waters†
GEOG 1220 / 2020 – Climatology and Biogeography††
GEOG 2050 – Introduction to Hydrology*
GEOG 3040 – Environmental Climatology and Meteorology*
GEOG 3050 – Physical Hydrology*
GEOG 3070 – Biogeography*
GEOG 3700 – Geography Field School
GEOG 3990 / 3700 – Environmental Geoscience Field School
GEOG 4050 – Fluvial Geomorphology*

GEOG 4480 – Directed Studies
GEOG 4820 – Urban Biophysical Environments*
GEOG 4990 – Hydrology Field Course*
GEOG 4990 / 4060 – Advances in Hydrology*
ENVS 5480 – Directed Studies
ENVS 5020 – Advanced Topics in Ecology
SERV 4000 – Service Learning

* = Developed course; † = Currently GEOG 1000 – Planet Earth: An Introduction to Earth System Science; †† = Currently GEOG 2020 – Weather, Climate and Global Environmental Change.

iii. Guest Lectures at Thompson Rivers University

- "Streams" 1.5 h lecture for GEOG 1000, March 2017.
- "Water Vapour, Atmospheric Stability and Precipitation" – 3 h lecture - GEOG 2020, Oct. 2016.
- "Global Climate" 3 h lecture for GEOG 1220, November 2013.

iv. Graduate Committee and External Examiner Participation

John Van Stan II	M.Sc., Ph.D. (U. Delaware)	Committee Member	2008	2012
Ethan Frost	Ph.D. (U. Delaware)	External Examiner	2008	2011
Veronica McKelvey	M.Sc. (TRU	Committee Member	2021	In Progress
Patricia House	M.Sc. (TRU)	Committee Member	2014	2021
Cheryl Blair	M.Sc. (TRU)	Committee Member	2012	2019
Mandy Ross	M.Sc. (TRU)	Committee Member	2011	2016
Denise Clark	M.Sc. (TRU)	Committee Member	2007	2015
Andrew Pillar	M.Sc. (TRU)	Committee Member	2012	2014
Bevan Ernst	M.Sc. (TRU)	Committee Member	2010	2013
Stephan Symes	M.Sc. (TRU)	Committee Member	2009	2013
Lindsey Smith	M.Sc. (TRU)	Committee Member	2008	2012
Katharina Hübel	M.Sc. (TRU)	Committee Member	2008	2012
Ashleigh Gilbert	M.Sc. (TRU)	Committee Member	2008	2010
Gerald Hales	M.Sc. (TRU)	Committee Member	2007	2011

v. Undergraduate and Graduate Student Supervision

<u>Group Directed Studies (GEOG 4480)</u>

Urban Biophysical Environments – 7 students Fall 2018; 6 students B.A. (TRU), 1 student Hon. B.A. (TRU); Year Started 2018, Year Completed 2019.

Individual Student Supervision

Name of Student	Degree	Sole/Joint Supervision	Year Started	Year Completed
Brandon Maker	M.Sc.Env.Sc. (TRU)	(J)	2020	In progress
Alexis Carter	M.Sc.Env.Sc. (TRU)	(J)	2019	In progress
Brandon Turner	M.Sc.Env.Sc. (TRU)	(J)	2018	In progress
Chad Lishman	M.Sc.Env.Sci. (TRU)	(S)	2009	2015
Claudette Martin	M.Sc.Env.Sci. (TRU)	(S)	2008	2015
Julie Schooling[1]	M.Sc.Env.Sci. (TRU)[NIS]	(S)	2011	2014
Adam J. McKee	M.Sc.Env.Sci. (TRU)	(S)	2008	2010
Betty Traub	B.A. (TRU) *	(S)	2021	In Progress
Niels Raaijmakers	B.I.S. (TRU) *	(S)	2020	2020
Jordan Lodders	B.A. (TRU) *	(S)	2020	2020
Holly Antifay	B.A. (TRU) *	(S)	2020	2020
Scott Wood	B.A. (TRU) *	(S)	2020	2020
Narain Spolia	B.A. (TRU) *#	(S)	2019	2020
Breena Rusnell	Hon. B.A. (TRU) *	(S)	2019	2019
Brandon Turner	Hons. B.A. (TRU)*	(J)	2016	2017
Stacey Rowat	B.A. (TRU) *	(S)	2016	2016
Alexis Karakatsoulis	B.A. (TRU) *	(S)	2015	2016
Amber Gudmundson	B.A. (TRU) *	(S)	2015	2016
Kathryn Youwe	B.A. (TRU) *	(S)	2015	2015
Alicja Grzybowski	B.A. (TRU) *	(J)	2015	2015
Tyne Roberts	B.Sc. (TRU)*	(S)	2015	2015
Kyle Bondarchuk	B.A. (TRU) *	(S)	2012	2013
Jennifer Powers	B.A. (TRU) *¥	(S)	2012	2013
Samantha Probec	B.A. (TRU) *U	(S)	2011	2011
Andrew Pillar	B.A. (TRU) ***U	(S)	2009	2010
Pearce Sanders	B.A. (TRU) ***U	(S)	2009	2010
Sarah Ostoforoff	B.A. (TRU) ***	(S)	2009	2009
Anna-Marie Viaud	B.A. (TRU) *	(S)	2009	2009
Jennifer Golden	B.A. (TRU) *	(S)	2009	2009
Trevor Ford	B.A. (TRU) *	(J)	2008	2009
Chad Lishman	B.A. (TRU) *	(S)	2008	2009
Adam J. McKee	B.A. (TRU) **U	(S)	2008	2008
Maria Valana	B.N.R.S. (TRU) *	(J)	2008	2008
Warren Giesbrecht	B.A. (TRU) *	(S)	2007	2008
Vanessa J. McGivern	B.A. (TRU) *	(S)	2007	2007
Go Kono	Cert. Env. Studies (TRU)	(S)	2007	2007
Katherine A. Burles	B.A. (TRU) **	(S)	2006	2006
Mark Cliff-Phillips	B.A. (TRU) **	(S)	2005	2006
Graeme R. Schimpf	B.A. (TRU) *	(S)	2005	2005

[NIS]NSERC Industrial Scholarship ; * Directed Studies; **Research Learning Course; ***Directed Studies and Research Learning Courses; [U] NSERC USRA award holders; ¥ Service learning. [1]Julie Schooling was the recipient of the 2015 *Governor General's Gold Medal* for highest academic standing in a graduate program at TRU. #Supervisor for two Directed Studies courses.

vi Program Development and Revision

- Co-Developer (with D. Lawrence (Arts) and Darlene Sanderson (Nursing) of the outline for the elective graduate course HRSJ 5240 Water: A Case Study of Human Rights and Social Justice in the Age of Climate Change in support of the proposed M.A. in Human Rights and Social Justice.

- Revised Geography Major into the Geography and Environmental Studies Major B.A. and introduced a Geography and Environmental Studies – Physical Geography Major B.A. option and an Honours Geography and Environmental Studies Major Program B.A. (2012-13). Implemented September 2014.

- Revised Geography Minor (2012-13). Implemented September 2014.

vii Teaching Designations, Awards and Certifications

- Full Graduate Faculty Member, Master of Science in Environmental Science Program, Thompson Rivers University.

- Full Graduate Faculty Member, Master of Arts in Human Rights and Social Justice, Thompson Rivers University.

- Certified Wilderness & Remote First Aid AED/CPR Level C – 2018 – 2021 (for field school and field work supervision).

- Faculty of Arts Certificate of Recognition in Teaching Award – 2011 and 2012.

- Certificate of Appreciation – 2009 – Thompson Rivers University Career Education Department.

- Supplemental Learning Faculty – GEOG 112 & GEOG 122 (Initiated GEOG 122 Supplemental Learning Program) 2005 – 2011, GEOG 2020 & GEOG 2050: 2012-present.

V. SCHOLARSHIP

i. Citation Metrics: As of September 24, 2023:
Total Citations of Work = 2074
Citation Indices: H-Index = 21, i-10 Index = 31, G-Index = 38

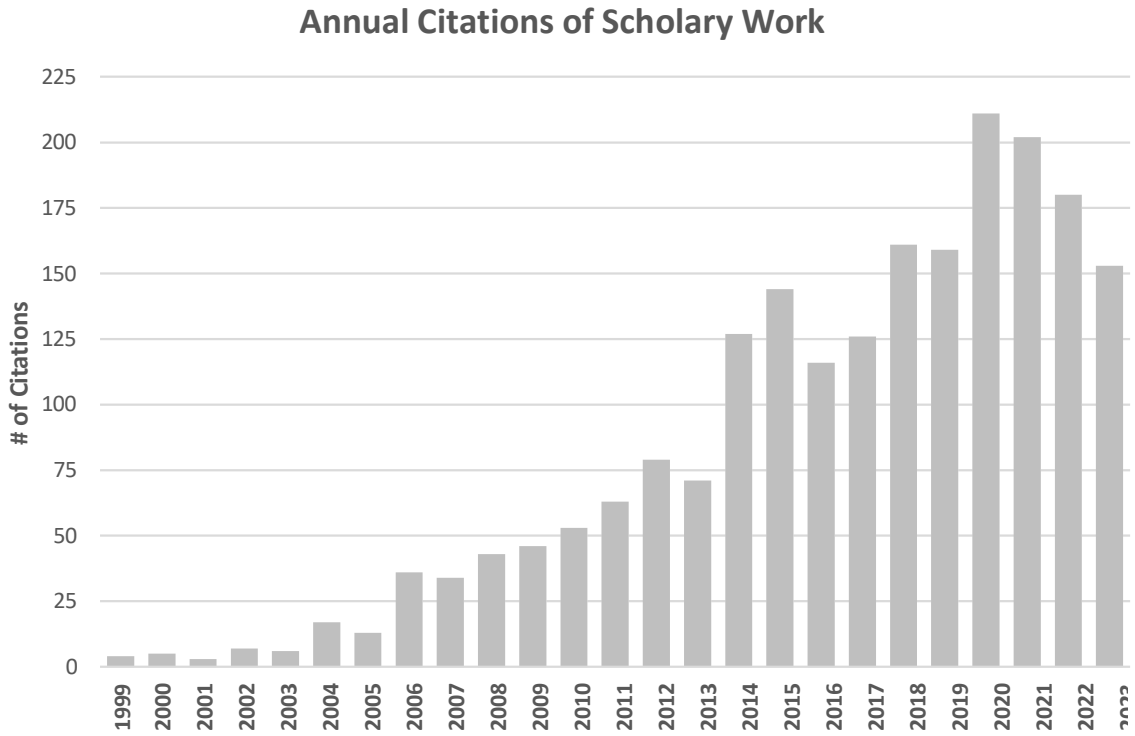

Figure 1: Incremental and accumulative growth in annual scholarly citations (1999 – 2023).
Further Information: http://scholar.google.ca/citations?user=MZ1vZu0AAAAJ&hl=en&oi=a

ii. Publications

* Directly Supervised Undergraduate Student, ** Directly Supervised Graduate Student

Peer Reviewed Journal Articles, Books, Book Chapters, Commentaries and Extension & Technical Notes

Published and Accepted

[1] Llorens P, Latron J, **Carlyle-Moses DE,** Näthe K, Chang JL, Nanko K, Iida S and DF Levia. (2021) Stemflow infiltration areas into forest soils around American beech (*Fagus grandifolia* Ehrh.) trees. *Ecohydrology* (accepted October 11, 2021). Manuscript ID ECO-21-0150.R2

[2] **Carlyle-Moses DE**, Iida S, Germer S, Llorens P, Michalznik B, Nanko K, Tanaka T, Tischer A and DF Levia (2020). Commentary: What we know about stemflow's infiltration area. *Frontiers in Forests and Global Change – Forest Hydrology* 3: Article 577247. https://www.frontiersin.org/articles/10.3389/ffgc.2020.577247

[3] **Carlyle-Moses DE**, Livesley S, Baptista M, Thom J, and C Szota (2020). Urban trees as green infrastructure for stormwater mitigation and use. In: Levia DF (ed), **Carlyle-Moses DE**, Iida S, Michalzik B, Nanko K and A Tischer (co-eds.) *Forest-Water Interactions*. Ecological Studies Volume 240, Springer Nature, Switzerland AG. pp. 397-432. https://link.springer.com/chapter/10.1007/978-3-030-26086-6_17

[4] Guswa AJ, Tetzlaff D, Selker JS, **Carlyle-Moses DE,** Boyer EW, Bruen M, Cayuela C, Creed IF, van de Giesen N, Grasso D, Hannah DM, Hudson JE, Hudson SA, Iida S, Jackson RB, Katui GG, Kumagai T, Llorens P, Lopes Ribeiro F, Michalzik B, Nanko K, Oster C, Pataki DE, Peters CA Rinaldo A, Sanchez-Carretero D, Trifunovic B, Zalewski M, and DF Levia (2020). A roadmap for ecohydrology in the 21st century. A convergence of opportunities. *Ecohydrology* 13, e2208. https://doi.org/10.1002/eco.2208

[5] Levia DF (ed), **Carlyle-Moses DE**, Iida S, Michalzik B, Nanko K and A Tischer (co-eds.) (2020). *Forest-Water Interactions*. Ecological Series Volume 240, Springer Nature, Switzerland AG, 624 p. ISBN 978-3-030-26085-9. https://www.springer.com/us/book/9783030260859

[6] Levia DF, Creed IF, Hannah DM, Nanko K, Boyer EW, **Carlyle-Moses DE,** van de Giesen N, Grasso D, Guswa AJ, Hudson JE, Hudson SA, Iida S, Kumagai T, Llorens P, Lopes Ribeiro F, Pataki DE, Peters CA, Sanchez-Carretero D, Selker JS, Tetzlaff D, Zalewski M and M Bruen (2020). Homogenization of the terrestrial water cycle. *Nature Geoscience* 13, 656-658. https://doi.org/10.1038/s41561-020-0641-y

[7] Mrad A , Katul GG , Levia DF, Guswa AJ, Boyer EW, Bruen M, **Carlyle-Moses DE**, Coyte R, Creed IF, van de Giesen N , Grasso D, Hannah DM , Hudson JE , Humphrey V, Iida S , Jackson RB, Kumagai T, Llorens P, Michalzik B, Nanko K , Peters CA , Selker JS , Tetzlaff D, Zalewski M and BR Scanlon (2020). Peak grain forecasts for the U.S. High Plains amid withering waters. *Proceedings of the National Academy of Sciences* 117, 26145-26150. https://www.pnas.org/content/117/42/26145

[8] Tamai K, Boyer EW, Iida S, **Carlyle-Moses DE** and DF Levia (2020). Forest influences on streamflow: Case studies from the Tatsunokuchi-Yami Experimental Watershed, Japan and the Leading Ridge Experimental Watershed, USA. In: Levia DF (ed), **Carlyle-Moses DE**, Iida S, Michalzik B, Nanko K and A Tischer (co-eds.) (2020). *Forest-Water Interactions*. Ecological Series Volume 240, Springer Nature, Switzerland AG. pp. 519-536. https://link.springer.com/chapter/10.1007/978-3-030-26086-6_21

[9] Zhang H, Levia DF, He B, Wu H, Liao A, **Carlyle-Moses DE**, Liu J, Wang N and J Li (2020). Interspecific variation in tee- and stand-scale stemflow funneling ratios in a subtropical deciduous forest in eastern China. *Journal of Hydrology* 590: 125455 https://doi.org/10.1016/j.jhydrol.2020.125455

[10] Turner B*, Hill DJ, **Carlyle-Moses DE** and M Rahman (2019). Low-cost, high-resolution stemflow sensing. *Journal of Hydrology* 570, 62-68 https://doi.org/10.1016/j.jhydrol.2018.12.072

[11] **Carlyle-Moses DE**, Iida S, Germer S, Llorens P, Michalzike B, Nanko K, Tischere A and D.F. Levia (2018). Expressing stemflow commensurate with its ecohydrological importance. *Advances in Water Resources* 121, 472-479 https://doi.org/10.1016/j.advwatres.2018.08.015

[12] McKee AJ[**] and **DE Carlyle-Moses** (2017). Modelling stemflow production by juvenile lodgepole pine (*Pinus contorta* var. *latifolia*) trees. *Journal of Forestry Research* 28, 565-576 https://doi.org/10.1007/s11676-016-0336-9

[13] Schooling JT[**], Levia DF, **Carlyle-Moses DE**, Dowtin AL, Brewer SE, Donker KK, Borden SA and AA Grzybowski[*] (2017). Stemflow chemistry in relation to tree size: a preliminary investigation of eleven urban park trees in British Columbia, Canada. *Urban Forestry and Urban Greening* 21, 129-133 https://doi.org/10.1016/j.ufug.2016.11.013

[14] **Carlyle-Moses DE** (2016). Rainfall interception, detention and depression storage. In: *Handbook of Applied Hydrology* (2nd Edition, ed. V. Singh). McGraw-Hill, Toronto. https://www.mheducation.ca/professional/products/9780071835091/handbook+of+applied+hydrology,+second+edition/

[15] **Carlyle-Moses DE** and CE Lishman[**] (2015). Temporal persistence of throughfall heterogeneity below and between the canopies of juvenile lodgepole pine (*Pinus contorta*). *Hydrological Processes* 29, 4051-4067 https://doi.org/10.1002/hyp.10494

[16] **Carlyle-Moses DE** and JT Schooling[**] (2015). Tree traits and meteorological factors influencing the initiation and rate of stemflow from isolated deciduous trees. *Hydrological Processes* 29, 4083-4099 https://doi.org/10.1002/hyp.10519

[17] Schooling JT[**] and **DE Carlyle-Moses** (2015). The influence of rainfall depth class and deciduous tree traits on stemflow production in an urban park. *Urban Ecosystems* 18, 1261-1284. https://doi.org/10.1007/s11252-015-0441-0

[18] **Carlyle-Moses DE**, Lishman CE[*] and AJ McKee[**] (2014). A preliminary evaluation of throughfall sampling techniques in a mature coniferous forest. *Journal of Forestry Research* 25, 407- 413 https://doi.org/10.1007/s11676-014-0468-8

[19] **Carlyle-Moses DE** and JHC Gash (2011). Rainfall interception loss by forest canopies. In: Levia DF, Carlyle-Moses DE and Tanaka T (Eds.), *Forest Hydrology and Biogeochemistry: Synthesis of Past Research and Future Directions*. Ecological Studies 216, Springer-Verlag, Heidelberg, Germany, pp 407 – 424 https://doi.org/10.1007/978-94-007-1363-5_2

[20] Levia DF, **Carlyle-Moses DE** and T Tanaka (2011). Reflections on the state of forest hydrology and biogeochemistry. In: Levia DF, Carlyle-Moses DE and T Tanaka (Eds.), *Forest Hydrology and Biogeochemistry: Synthesis of Past Research and Future Directions*. Ecological Studies 216, Springer-Verlag, Heidelberg, Germany, pp 729 – 734 https://doi.org/10.1007/978-94-007-1363-5_36

[21] Levia DF, **Carlyle-Moses DE** and T Tanaka (Eds.) (2011). *Forest Hydrology and Biogeochemistry: Synthesis of Past Research and Future Directions*. Ecological Studies 216, Springer-Verlag, Heidelberg, Germany. 740 p. https://doi.org/10.1007/978-94-007-1363-5

[22] Levia DF, Keim RF, **Carlyle-Moses DE** and EE Frost (2011). Throughfall and stemflow in wooded ecosystems. In: *Forest Hydrology and Biogeochemistry: Synthesis of Past Research and Future Directions*. (Levia DF, Carlyle-Moses DE and Tanaka T eds.) Ecological Series 216, Springer-Verlag, Heidelberg, Germany, pp 425-444 https://doi.org/10.1007/978-94-007-1363-5_21

[23] **Carlyle-Moses DE**, Park AD and JL Cameron (2010). Modeling interception loss fromforest restoration trails in Panama. *Ecohydrology* 3, 272-283 https://doi.org/10.1002/eco.105

[24] McKee AJ** and **DE Carlyle-Moses** (2010). Stemflow: A potentially important point source of water for growth. *LINK* 11, 11-12

[25] Weiler M, Spittlehouse DL, Winkler RD, **Carlyle-Moses DE**, Jost G, Hutchinson D, Hamilton S, Marquis P, Quilty E, Moore RD, Richardson J, Jordan P, Teti P and N Coops (2010). Watershed measurement methods and data limitations. In: (Pike RG, Redding TE, Moore RD, Winkler RD and Bladon KD eds.) *Compendium of Forest Hydrology and Geomorphology in British Columbia* B.C. Ministry of Forests and Range Research Branch, and FORREX Forum for Research and Extension in Natural Resources, Land Management Handbook 66, pp. 553-638 https://www.for.gov.bc.ca/hfd/pubs/Docs/Lmh/Lmh66/Lmh66_ch17.pdf

[26] Winkler RD, Moore RD, Redding TE, Spittlehouse DL, Smerdon B and **DE Carlyle-Moses** (2010). Effects of forest disturbance on hydrologic processes and watershed response. In: (Pike RG, Redding TE, Moore RD, Winkler RD and Bladon KD eds.) *Compendium of Forest Hydrology and Geomorphology in British Columbia*. B.C. Ministry of Forests and Range Research Branch, and FORREX Forum for Research and Extension in Natural Resources, Land Management Handbook 66, pp. 179-212 https://www.for.gov.bc.ca/hfd/pubs/Docs/Lmh/Lmh66/Lmh66_ch07.pdf

[27] Winkler RD, Moore RD, Redding TE, Spittlehouse DL, **Carlyle-Moses DE** and B Smerdon (2010). Hydrologic processes and watershed response. In: (Pike RG, Redding TE, Moore RD, Winkler RD and Bladon KD eds.) *Compendium of Forest Hydrology and Geomorphology in British Columbia* B.C. Ministry of Forests and Range Research Branch, and FORREX Forum for Research and Extension in Natural Resources, Land Management Handbook 66, pp. 133-178 https://www.for.gov.bc.ca/hfd/pubs/Docs/Lmh/Lmh66/Lmh66_ch06.pdf

[28] Moore RD, Winkler RD, **Carlyle-Moses DE**, Spittlehouse DL, Giles T, Phillips J, Leach J, Eaton B, Owens P, Petticrew E, Blake W, Heise B and TE Redding (2008). Watershed Response to the McLure Forest Fire: Presentation Summaries from the Fishtrap Creek Workshop, March 2008. *Streamline Watershed Management Bulletin* 12, 1-11

[29] **Carlyle-Moses DE** (2007). Preliminary findings on canopy and bryophyte forest floor interception loss of growing-season rainfall at Mayson Lake [online]. In: Proceedings of the Mountain Pine Beetle and Watershed Hydrology Workshop: Preliminary Results of Research from BC, Alberta and Colorado. Kelowna, BC, 10 July 2007.pp. 23–24.

[30] **Carlyle-Moses DE** and AG Price (2007). Modelling canopy interception loss from a Madrean pine-oak stand, northeastern Mexico *Hydrological Processes* 21, 2572-2580 https://doi.org/10.1002/hyp.6790

[31] Redding TE, Winkler RD, **Carlyle-Moses DE** and DL Spittlehouse (2007). Mayson Lake study examines hydrological processes. *LINK* 9, 10-11

[32] **Carlyle-Moses DE** and AG Price (2006). Growing-season stemflow production withina deciduous forest of southern Ontario. *Hydrological Processes* 20, 3651-3663 https://doi.org/10.1002/hyp.6790

[33] **Carlyle-Moses DE** (2004). Throughfall, stemflow, and canopy interception loss fluxes in a semi-arid Sierra Madre Oriental matorral community. *Journal of Arid Environments* 58, 180 - 201 https://doi.org/10.1016/S0140-1963(03)00125-3

[34] **Carlyle-Moses DE** (2004). A reply to the comment by R. Keim on "Measurement and modelling of growing season canopy water fluxes within a mature mixed deciduous forest stand, southern Ontario, Canada". *Agricultural and Forest Meteorology* 124, 281-284 https://doi.org/10.1016/S0168-1923(03)00117-5

[35] **Carlyle-Moses DE**, Flores-Laureano JS and AG Price (2004). Throughfall and throughfall spatial variability in Madrean oak forest communities of northeastern Mexico. *Journal of Hydrology* 297, 124 -135 https://doi.org/10.1016/j.jhydrol.2004.04.007

[36] Price AG and **DE Carlyle-Moses** (2003). Measurement and modelling of growing season canopy water fluxes within a mature mixed deciduous forest stand, southern Ontario, Canada. *Agricultural and Forest Meteorology* 119, 65-85 https://doi.org/10.1016/S0168-1923(03)00117-5

[37] **Carlyle-Moses DE** and AG Price (1999). An evaluation of the Gash interception model in a northern hardwood stand. *Journal of Hydrology* 214, 103-110 https://doi.org/10.1016/S0022- 1694(98)00274-1

[38] Návar J, **Carlyle-Moses DE** and A Martinez M (1999). Interception loss from the Tamaulipan matorral thornscrub of north-eastern Mexico: an application of the Gash analytical interception loss model. *Journal of Arid Environments* 41, 1-10 https://doi.org/10.1006/jare.1998.0460

Published Conference Abstracts and Proceedings

[1] Llorens P, Latron J, **Carlyle-Moses DE**, Näthe, K, Chang, J L, Nanko K, Iida S., and DF Levia (2020). Stemflow infiltration areas into forest soils around American beech trees, EGU General Assembly 2020, Online, 4–8 May 2020, EGU2020-8813, https://meetingorganizer.copernicus.org/EGU2020/EGU2020-8813.html

[2] Levia DF, Guswa AJ, Tetzlaff D, Selker JS, **Carlyle-Moses DE,** Boyer EW, Bruen M, Cayuela C, Creed IF, van de Giesen N, Grasso D, Hannah DM, Hudson JE, Hudson SA, Iida S, Jackson RB, Katui GG, Kumagai T, Llorens P, Lopes Ribeiro F, Michalzik B, Nanko K, Oster C, Pataki DE, Peters CA Rinaldo A, Sanchez-Carretero D, Trifunovic B, and M Zalewski (2019). "Ecohydrology in the 21st century. A convergence of opportunities for global sustainability and social justice and equity" AGU Fall Meeting Abstracts. https://agu.confex.com/agu/fm19/meetingapp.cgi/Person/20603

[3] **Carlyle-Moses DE,** S Iida, Germer S, Llorens P, Nanko K, Michalzik B, Tischer A and DF Levia (2018) "Stand-scale metrics for expressing stemflow commensurate with its ecohydrological importance" Geophysical Research Abstracts Vol. 2. EGU 2019-1855. https://meetingorganizer.copernicus.org/EGU2019/EGU2019-1855.pdf

[4] Nanko K, **Carlyle-Moses DE**, S Iida, Germer S, Llorens P, Michalzik B, Tischer A and DF Levia (2018) "Righting a wrong: Expressing stemflow commensurate with its ecohydrological importance". *AGU Fall Meeting Abstracts*. http://adsabs.harvard.edu/abs/2018AGUFM.H21L1831N

[5] **Carlyle-Moses DE**, Turner B and DJ Hill (2016). "Applications of hobbyist electronics in monitoring stemflow processes: Preliminary insights and results". *AGU Fall Meeting Abstracts*. https://agu.confex.com/agu/fm16/meetingapp.cgi/Paper/125793

[6] **Carlyle-Moses DE** and CE Lishman[**] (2015). "Analytical modelling of canopy interception loss from a juvenile lodgepole pine (*Pinus contorta* var. *latifolia*) stand". *AGU Fall Meeting Abstracts*. https://agu.confex.com/agu/fm15/webprogram/Paper69757.html

[7] Pypker TG, **Carlyle-Moses DE**, Grzybowski A[*], Brewer S and D Hill (2015). "Spatial variability of throughfall under three Sage Bush" *AGU Fall Meeting Abstracts*. https://agu.confex.com/agu/fm15/webprogram/Paper73578.html

[8] **Carlyle-Moses DE** and JT Schooling[**] (2014). "The influence of rainfall depth class and deciduous tree traits on stemflow production in an urban park". *AGU Fall Abstracts 2014*, Vol. 1, Page 782. https://agu.confex.com/agu/fm14/meetingapp.cgi/Paper/28432

[9] Schooling JT[**] and **DE Carlyle-Moses** (2013). "Meteorological factors and tree characteristics influencing the initiation and rate of stemflow from deciduous trees in an urban park". *AGU Fall Meeting Abstracts 2013*, Vol. 1 Page 1289

[10] **Carlyle-Moses DE** and AJ[**] McKee (2012). "The quantitative importance of stemflow: A synthesis and evaluation of past research". *AGU Fall Meeting Abstracts 2012*, Vol. 1 Page 1367

[11] **Carlyle-Moses DE** (2011). "Temporal persistence of point throughfall in a deciduous forest". *AGU Fall Meeting Abstracts 2011*, Vol. 1 Page 1368

[12] **Carlyle-Moses DE**, McKee AJ[**], Lishman CE[*], Giesbrecht WJ[*] and SM Kinniburgh[*] (2009). "Results from the Mayson Lake Hydrological Processes Study 2008 Summer Field Season". *Eos Trans. American Geophysical Union,* 90 (22), Jt. Assem. Suppl., Abstract CG21A-21

[13] **Carlyle-Moses DE**, Kinniburgh SM[*], Giesbrecht WJ[*], McKee AJ[**] and CE[*] Lishman (2009). "Comparing Three Methods of Sampling Throughfall in a Declining Coniferous Forest at a low Rainfall Site". *Eos Trans. American Geophysical Union,* 90 (22), Jt. Assem. Suppl., Abstract H23B-01

Theses

[1] **Carlyle-Moses DE** (2002). "Measurement and Modelling of Canopy Water Fluxes within Representative Forest Stands and a Matorral Community of a Small Sierra Madre Oriental Watershed, Northeastern Mexico". PhD dissertation, Graduate Department of Geography, University of Toronto. 217 pp. ISBN: 0612746569 Supervisor Dr. A.G. Price. http://www.bac-lac.gc.ca/eng/services/theses/Pages/item.aspx?idNumber=55682047

[2] **Carlyle-Moses DE** (1996). "Precipitation partitioning by a northern hardwood stand, southern Ontario, Canada: Processes and variability." M.Sc. thesis, Graduate Department of Geography, University of Toronto. ISBN: 0612515559. Supervisor: Dr. A.G. Price. http://www.bac-lac.gc.ca/eng/services/theses/Pages/item.aspx?idNumber=1006915925

Professional Publications

[1] Schooling JT** and **DE Carlyle-Moses** (2014). Resource or hazard: Stemflow from urban trees. *Deep Root – Green Infrastructure for Your Community*. http://www.deeproot.com/blog/blog-entries/design-implications-for-stemflow-from-urban-tree

Ancillary Resource Publications

[1] **Carlyle-Moses, D.E**. 2017. Revised *Instructor's Manual* (M. Moscicki, author of 1st Edition) for *Weather and Climate: An Introduction* (2nd Edition) by S.L. Ross, Oxford University Press.

[2] **Carlyle-Moses, D.E.** 2017. Revised *Sample Syllabus* for *Weather and Climate: An Introduction* (2nd Edition) by S.L. Ross, Oxford University Press.

iii. Unpublished Reports

[1] **Carlyle-Moses DE** (2009). Annual maximum daily rainfall depth frequency analysis for the Southern Interior Forest Region of British Columbia: Final report. 353 p. Prepared for the BC Ministry of Forests and Range.

[2] Martin C** and **DE Carlyle-Moses** (2009). The impact of urban heat islands on maximum daily rainfall depth frequencies for the Southern Interior of British Columbia. British Columbian Ministry of Labour and Citizens' Services – Social Policy Research Award Final Report. 141 p.

[3] McKee AJ** and **DE Carlyle-Moses** (2009). Hydrologic recovery and tree size within post-disturbance landscapes in British Columbia. British Columbian Ministry of Labour and Citizens' Services – Social Policy Research Award Final Report. 8 p.

[4] **Carlyle-Moses DE** (2008). Final Report: FSP – FIA Project # M086035 Measurement and Modelling of Mountain Pine Beetle Impacts on the Annual Forest Water Balance. 26 p. Forest Investment Account – Forest Science Program Depository: www.for.gov.bc.ca/hfd/library/FIA/2008/FSP_M086035.pdf

[5] **Carlyle-Moses DE** (2007). Executive Summary: FSP – FIA Project # M075035 Measurement and Modelling of Mountain Pine Beetle Impacts on the Annual Forest Water Balance. 5 p. Forest Investment Account – Forest Science Program Depository: www.for.gov.bc.ca/hfd/library/FIA/2007/FSP_M075035a.pdf

iv. Conference and Workshop Presentations

[1] Makar B, Pypker P, and **D Carlyle-Moses** (2023). Stemflow and stemflow infiltration areas for isolated ponderosa pine in a semi-arid setting, AAG Annual Meeting, Denver, Colorado, USA, 23-27 March,

[2] **Carlyle-Moses DE**, Llorens P, Latron J, Näthe K, Chang JL, Nanko K, Iida S and DF Levia. Investigation the stemflow infiltration areas and infiltration funneling ratios of

American beech trees. American Geophysical Union 2020 Fall Meeting, 1-17 December. https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/733200

[3] Levia DF, Creed IF, Hannah DM, Nanko K, Boyer EW, **Carlyle-Moses DE,** van de Giesen N, Grasso D, Guswa AJ, Hudson JE, Hudson SA, Iida S, Kumagai T, Llorens P, Lopes Ribeiro F, Pataki DE, Peters CA, Sanchez-Carretero D, Selker JS, Tetzlaff D, Zalewski M and M Bruen (2020). Homogenization of the terrestrial water cycle. American Geophysical Union 2020 Fall Meeting, 1-17 December. https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/714541

[4] Mrad A, Katul GG, Levia DF, Guswa AJ, Boyer EW, Bruen M, **Carlyle-Moses DE**, Coyte R, Creed IF, van de Giesen N , Grasso D, Hannah DM , Hudson JE , Humphrey V, Iida S , Jackson RB, Kumagai T, Llorens P, Michalzik B, Nanko K , Peters CA , Selker JS , Tetzlaff D, Zalewski M and BR Scanlon (2020). Peak grain forecasts for the U.S. High Plains amid withering waters. American Geophysical Union 2020 Fall Meeting, 1-17 December. https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/672960

[5] Llorens P, Latron J, **Carlyle-Moses DE**, Näthe, K, Chang, J L, Nanko K, Iida S., and DF Levia (2020). Stemflow infiltration areas into forest soils around American beech trees, EGU General Assembly 2020, Online, 4–8 May 2020, EGU2020-8813, https://doi.org/10.5194/egusphereegu2020-8813

[6] Levia, DF, Guswa AJ, Tetzlaff D, Selker JS, **Carlyle-Moses DE,** Boyer EW, Bruen M, Cayuela C, Creed IF, van de Giesen N, Grasso D, Hannah DM, Hudson JE, Hudson SA, Iida S, Jackson RB, Katui GG, Kumagai T, Llorens P, Lopes Ribeiro F, Michalzik B, Nanko K, Oster C, Pataki DE, Peters CA, Rinaldo A, Sanchez-Carretero D, Trifunovic B, and M Zalewski (2019). A roadmap for ecohydrology in the 21st century. A convergence of opportunities for global sustainability and social justice and equity. Presented as an oral presentation at the Centennial Session: Current Advances and Future Challenges in Hydrologic Science of the American Geophysical Union 2019 Fall Meeting, San Francisco, California, USA, 9 – 13 December.

[7] **Carlyle-Moses DE** (2019). "Plant-rainfall interactions: Processes and scaling issues". Presented as an **Invited Speaker Presentation** to the Department of Disaster Prevention, Meteorology and Hydrology, Forestry and Forest Products Research Institute (FFPRI), National Research and Development Agency, Tsukuba, Japan, 30 September – 4 October.

[8] Iida S, **Carlyle-Moses DE**, Germer S, Llorens P, Michalzike B, Nanko K, Tischere A and D.F. Levia (2019). Quantifying stemflow to better express its ecohydrological importance. Presented at the Japan Geoscience Union Meeting, Makuhari Messe, Japan 28-30 May.

[9] **Carlyle-Moses DE,** S Iida, Germer S, Llorens P, Michalzik B, Nanko K, Tischer A and DF Levia (2019) "Stand-scale metrics for expressing stemflow commensurate with its ecohydrological importance" Presented as an **Invited Speaker Presentation** for Session HS10.5/BG6.8/SSS8.6 of the European Geophysical Union General Assembly, Vienna, Austria 7-12 April.

[10] Rusnell B*, Spolia N* and **DE Carlyle-Moses** (2019). Size matters: A story of stemflow, soil- water recharge and spatial-scaling. Presented as a poster at the 61st Annual Meeting of the Western Division of the Canadian Association of Geographers (WDCAG), University of Victoria, Victoria, British Columbia, 8-9 March.

[11] **Carlyle-Moses DE** (2019). Trees as green Infrastructure in our cities. Presented at the Urban Forestry in Municipalities and Interface Areas of Interior British Columbia Networking Event - Canadian Urban Forest Network – Pacific Region / Association of BC Forest Practitioners / Tree Canada, Kamloops, British Columbia, 5 February.

[12] Nanko K, **Carlyle-Moses DE**, Iida S, Germer S, Llorens P, Michalzike B, Tischere A and D.F. Levia (2018). Righting a wrong: Expressing stemflow commensurate with its ecohydrological importance. Presented as a poster at the American Geophysical Union Fall Meeting, Washington, DC, USA, 10-14 December.

[13] Turner B*, Rahman M, Hill D and **DE Carlyle-Moses** (2018). Internet of trees: Secure and affordable internet of things for environmental monitoring. Presented as a poster at the 60th Annual Meeting of the Western Division of the Canadian Association of Geographers (WDCAG), University of Alberta, Edmonton, Alberta, 9-10 March.

[14] Turner B*, Hill DJ and **DE Carlyle-Moses** (2017). "Hobbyist electronics offer a low-cost alternative for the study of key stemflow processes". Presented as a poster at the Association of American Geographers Annual Meeting, Boston, Massachusetts, USA, 5 – 9 April.

[15] **Carlyle-Moses DE** (2017). "Rainfall partitioning by tree canopies: throughfall, stemflow and canopy interception loss". Oral presentation in Panel 2: Stand Establishment and Timber Supply. 2017 Southern Interior Silviculture Committee Winter Workshop, Kamloops, British Columbia, 31 January – 1 February.

[16] **Carlyle-Moses DE,** Turner B* and DJ Hill (2016). "Applications of hobbyist electronics in monitoring stemflow processes: preliminary insights and results". Presented as a poster at the American Geophysical Union Fall Meeting, San Francisco, California, USA, 14-18 December.

[17] **Carlyle-Moses DE** and CE Lishman** (2016). "Rainfall partitioning by juvenile lodgepole pine (*Pinus contorta* var. *latifolia*)". Presented as a poster at the Association of American Geographers Annual Meeting, San Francisco, California, USA, 29 March – 2 April.

[18] **Carlyle-Moses DE** and CE Lishman** (2015). "Analytical modelling of canopy interception loss from a juvenile lodgepole pine (*Pinus contorta* var. *latifolia*) stand". Presented as a poster at the American Geophysical Union Fall Meeting, San Francisco, California, USA, 14-18 December.

[19] Pypker TG, **Carlyle-Moses DE**, Grzybowski A*, Brewer S and D Hill (2015). "Spatial variability of throughfall under three sage brush (*Artemesia tridentate*). Presented as a poster at the American Geophysical Union Fall Meeting, San Francisco, California, USA, 14-18 December.

[20] **Carlyle-Moses DE** and D Spittlehouse (2015). "Influence of rainfall event separation time on the analytical modelling of canopy interception loss from a mature lodgepole pine (*Pinus contorta* var. *latifolia*) forest". Presented as a poster at the 4th International Conference on Forests and Water in a Changing Environment, Kelowna, British Columbia, 6-9 July.

[21] **Carlyle-Moses DE** and CE Lishman** (2015). "Temporal persistence of throughfall heterogeneity below and between the canopies of juvenile lodgepole pine (*Pinus contorta*).

Presented as a poster at the Association of American Geographer's Annual Meeting, Chicago, Illinois, USA, 21-25, April.

[22] **Carlyle-Moses DE** and JT Schooling[**] (2014). "The influence of tree traits and storm event characteristics on stemflow production from isolated deciduous trees in an urban park". Presented as a poster at the American Geophysical Union Fall Meeting, San Francisco, California, USA, 15-19 December.

[23] **Carlyle-Moses DE** (2014) "Interception Loss, Throughfall and Stemflow: A Trilogy of Cool Things about Water and Trees" University of Delaware Geography Speaker Series, September 12th.

[24] **Carlyle-Moses DE** and CE Lishman[**] (2014). "Temporal persistence of throughfall in a juvenile lodgepole pine (*Pinus contorta* var. *latifolia*) dominated stand". Presented at the Joint Annual Meeting of the Canadian Geophysical Union and the Canadian Society of Soil Science, Banff Park Lodge, Banff, Alberta, Canada, 4 – 7 May.

[25] **Carlyle-Moses DE** and JT Schooling [**] (2014). "Stemflow production by deciduous trees in an urban park". Presented as a poster at the Association of American Geographers' Meeting, Tampa, Florida, USA, 8 - 12 April.

[26] Schooling JT[**] and **DE Carlyle-Moses** (2013). "Meteorological factors and tree characteristics influencing the initiation and rate of stemflow from deciduous trees in an urban park". Presented as a poster at the American Geophysical Union Fall Meeting, San Francisco, California, USA, 9-13 December.

[27] Schooling JT[**] and **DE Carlyle-Moses** (2013). "Stemflow production from 40 urban trees: Factors contributing to stormwater runoff generation and mitigation in Kamloops, British Columbia". Presented at the Joint Scientific Congress of the Canadian Meteorological and Oceanographic Society/ Canadian Geophysical Union / Canadian Water Resources Association, Saskatoon, Saskatchewan, 26-30 May.

[28] **Carlyle-Moses DE** and JT Schooling[**] (2013). "Factors influencing stemflow production by trees in an urban park". Presented at the Association of American Geographers' Meeting, Los Angeles, California, USA, 9-13 April.

[29] **Carlyle-Moses DE** (2013). "During rainfall evaporation rates from tree canopies: Processes, theories and some results". Presented at the 55th Annual meeting of the Western Division of Canadian Association of Geographers, University of Lethbridge, Lethbridge, Alberta, 7-9 March.

[30] **Carlyle-Moses DE** and AJ McKee[**] (2012). "The quantitative importance of stemflow: A synthesis and evaluation of past research". Presented as a poster at the American Geophysical Union Fall meeting, San Francisco, California, USA, 3–7 December.

[31] Lishman CE[**] and **DE Carlyle-Moses** (2012). "Throughfall, stemflow and canopy interception loss in a juvenile lodgepole pine (*Pinus contorta* var. *latifolia*) stand". Presented as a poster at the Canadian Water Resources Association - Canadian Geophysical Union National Meeting, Banff Centre, Banff, Alberta, Canada, 5-7 June.

[32] **Carlyle-Moses DE**, Powers J[*], Bondarchuk K[*], S Parobec [*] (2012). "Magnitude and variability of throughfall and stemflow in a *Populus tremuloides* Michx. dominated stand

under full-leaf conditions". Presented as a poster at the 54th Annual Meeting of the Western Division of the Canadian Association of Geographers, University of British Columbia – Okanagan, Kelowna, British Columbia, 8-10 March.

[33] **Carlyle-Moses DE** (2011). "Temporal persistence of point throughfall in a deciduous forest". Presented as a poster at the American Geophysical Union Fall Meeting, San Francisco, California, USA, 5-9 December.

[34] Golden JL* and **DE Carlyle-Moses** (2011). "Spatiotemporal behaviour of rainfall over a 20 km^2 area of the Thompson-Bonaparte Plateau, British Columbia". Presented as a poster at the 53rd Meeting of the Western Division of the Canadian Association of Geographers, Simon Fraser University, Burnaby, British Columbia, Canada, 10-12 March.

[35] Lishman CE** and **DE Carlyle-Moses** (2011). "Spatial and temporal variability of throughfall and stemflow inputs to the floor of a juvenile lodgepole pine (*Pinus contorta* var. *latifolia*) stand on the Bonaparte Plateau, British Columbia". Presented as a poster at the 37th Annual Meeting of the Canadian Geophysical Union, Banff Park Lodge, Banff, Alberta, Canada, 15-18 May.

[36] McKee AJ** and **DE Carlyle-Moses** (2011). "Stemflow production by juvenile lodgepole pine (*Pinus contorta* var. *latifolia*) at the tree and plot scale on the Bonaparte Plateau, British Columbia". Presented as a poster at the 37th Annual Meeting of the Canadian Geophysical Union, Banff Park Lodge, Banff, Alberta, Canada, 15-18 May.

[37] Pillar A* and **DE Carlyle-Moses** (2010). "Throughfall variability modeling and forest characteristics". Presented at the 52nd Meeting of the Western Division of the Canadian Association of Geographers, University of Alberta, Edmonton, Alberta, Canada, 25-27 March.

[38] Sanders PW* and **DE Carlyle-Moses (**2010). "Throughfall in three contrasting coniferous forests on British Columbia's Thompson-Bonaparte plateau". Presented as a poster at the 52nd Meeting of the Western Division of the Canadian Association of Geographers, University of Alberta, Edmonton, Alberta, Canada, 25-27 March. Note: "Honourable Mention" (2nd place) in Undergraduate Poster Presentation category.

[39] Viaud A-M* and **DE Carlyle-Moses (**2010). "Extreme temperature frequency analysis for British Columbia: 1951-1995". Presented at the 52nd Meeting of the Western Division of the Canadian Association of Geographers, University of Alberta, Edmonton, Alberta, Canada, 25-27 March.

[40] **Carlyle-Moses DE**, McKee AJ**, Lishman CE*, Giesbrecht WJ* and SM Kinniburgh * (2009). "Results from the Mayson Lake Hydrological Processes Study 2008 Summer Field Season". *Eos Trans. American Geophysical Union, 90* (22), Jt. Assem. Suppl., Abstract CG21A-21. Presented as a poster at the American Geophysical Union Joint Assembly, Metro Toronto Convention Centre, Toronto, Canada, 24-27 May.

[41] **Carlyle-Moses DE**, Kinniburgh SM*, Giesbrecht WJ*, McKee AJ** and CE Lishman* (2009). "Comparing Three Methods of Sampling Throughfall in a Declining Coniferous Forest at a low Rainfall Site". *Eos Trans. American Geophysical Union, 90* (22), Jt. Assem. Suppl., Abstract H23B-01. Presented as a poster at the American Geophysical Union Joint Assembly, Metro Toronto Convention Centre, Toronto, Canada, 24-27 May.

[42] **Carlyle-Moses DE** (2009). "Mayson Lake: Hydrological processes research in British Columbia's Southern Interior". Presented at the 51st Meeting of the Western Division of the Canadian Association of Geographers, Vancouver Island University, Nanaimo, British Columbia, Canada, 5-7 March.

[43] Giesbrecht WJ* and **DE Carlyle-Moses** (2009). "Mayson Lake: Throughfall, stemflow and interception loss from a mature declining pine – spruce – fir stand". Presented at the 51st Meeting of the Western Division of the Canadian Association of Geographers, Vancouver Island University, Nanaimo, British Columbia, Canada, 5-7 March.

[44] Lishman CE* and **DE Carlyle-Moses** (2009). "Mayson Lake: Growing-season near-surface soil moisture dynamics within conifer forests under different stand conditions". Presented at the 51st Meeting of the Western Division of the Canadian Association of Geographers, Vancouver Island University, Nanaimo, British Columbia, Canada, 5-7 March.

[45] McKee AJ** and **DE Carlyle-Moses** (2009). "Mayson Lake: Preliminary study of the relationship between tree size and stemflow funnelling Ratios". Presented at the 51st Meeting of the Western Division of the Canadian Association of Geographers, Vancouver Island University, Nanaimo, British Columbia, Canada, 5-7 March.

[46] Winkler RD and **DE Carlyle-Moses** (2009). "Mayson Lake: The effects of tree growth and mortality on snow accumulation and ablation". Presented at the 51st Meeting of the Western Division of the Canadian Association of Geographers, Vancouver Island University, Nanaimo, British Columbia, Canada, 5-7 March.

[47] **Carlyle-Moses DE** (2008). "Interception loss". Presented at the Fishtrap Creek Workshop, Thompson Rivers University, Kamloops, British Columbia, Canada. 6 March.

[48] **Carlyle-Moses DE** (2008). "Throughfall spatiotemporal variability within two conifer stands of the Mayson Lake Hydrological Processes Study Area". Presented at the 50th Meeting of the Western Division of the Canadian Association of Geographers, Huxley College of the Environment, Western Washington University, Bellingham, Washington, USA, 6-8 March.

[49] **Carlyle-Moses DE**, McGivern VJ*, Kono G* and Winkler RD (2008). "Throughfall spatiotemporal variability within two conifer stands of the Mayson Lake Hydrological Processes Study Area". Presented at the 34th Annual Meeting of the Canadian Geophysical Union, The Banff Park Lodge, Banff, Alberta, Canada. 11-14 May.

[50] McKee AJ* and **Carlyle-Moses DE** (2008). "Deriving stemflow funnelling ratios for vegetation communities around the world based on the available literature". Presented at the 50th Meeting of the Western Division of the Canadian Association of Geographers, Huxley College of the Environment, Western Washington University, Bellingham, Washington, USA, 6-8 March.

[51] Burles KA* and **Carlyle-Moses DE** (2007). "Preliminary investigation of the hydrologic importance of bryophyte dominated forest floors in three stands of the Montane Spruce Biogeoclimatic Zone of British Columbia". Presented as a poster at the Joint Canadian Meteorological and Oceanographic Society, the Canadian Geophysical Union, and the American Meteorological Society Annual Meetings, St. John's, Newfoundland, Canada, May 28 – June 1.

[52] Burles KA* and **Carlyle-Moses DE** (2007). "Water storage capacities of bryophyte floor cover in three forest stands on the Bonaparte Plateau of British Columbia". Presented at the 49th Western Division of the Canadian Association of Geographers Annual Meeting, University College of the Fraser Valley, Abbotsford, British Columbia, Canada, 8-11 March.

[53] **Carlyle-Moses DE** (2007). "Interception" In: Workshop Program of The Upper Penticton Creek Watershed Experiment: Results of a Paired Watershed Study into the Effects of Forest Management on Water Resources, Ramada Inn, Kelowna, British Columbia, Canada,11 July.

[54] **Carlyle-Moses DE** (2007). "Preliminary findings on canopy and bryophyte forest floor interception loss of growing-season rainfall at Mayson Lake". In: Workshop Program of the Mountain Pine Beetle and Watershed Hydrology Workshop: Preliminary results of research from BC, Alberta and Colorado, Ramada Inn, Kelowna, British Columbia, Canada, 10 July.

[55] **Carlyle-Moses DE** (2007). "Hydrology-hydrologic implications resulting from Mountain Pine Beetle" In: Program of the Society for Range Management Southern Interior Pine Beetle Seminar, Thompson Rivers University, Kamloops, British Columbia, Canada, 19 April.

[56] **Carlyle-Moses DE** (2007). "Annual maximum daily rainfall depth analysis for British Columbia's southern interior" In: Conference Program and Abstracts of the Western Division of the Canadian Association of Geographers Annual Meeting, University College of the Fraser Valley, Abbotsford, British Columbia, Canada, 8-11 March.

[57] **Carlyle-Moses DE** (2007). "Magnitude and variability of growing-season throughfall beneath the canopies of three forest stands of the headwaters of the Bonaparte River, British Columbia" (Presented as a poster). In: Program and Abstracts of the Riparian Management in Headwater Catchments: Translating Science into Management Conference, University of British Columbia, Vancouver, British Columbia, Canada, 19 – 21 February.

[58] **Carlyle-Moses DE**, Schimpf GR* and DL Spittlehouse (2007). "Influence of rainfall event separation time on the analytical modelling of canopy interception loss from a mature lodgepole pine (*Pinus contorta* var. *latifolia*) stand" In: Program and Abstracts of the Joint Canadian Meteorological and Oceanographic Society, the Canadian Geophysical Union, and the American Meteorological Society Annual Meetings, St. John's, Newfoundland, Canada, 28 May –1 June.

[59] Cliffe-Phillips MA* and **DE Carlyle-Moses** (2006). "Modelling canopy interception loss from a soft-fruit orchard, Kamloops, British Columbia, Canada". In: Program and Abstracts of the Canadian Geophysical Union 32nd Annual Meeting, Banff, Alberta, Canada, 13 – 17 May.

[60] Cliffe-Phillips MA* and **DE Carlyle-Moses** (2006). "Modelling and measuring of canopy interception losses in a soft fruit orchard at Kamloops, British Columbia, Canada". In: Conference Program and Abstracts of the Western Division of the Canadian Association of Geographers Annual Meeting, Thompson Rivers University, Kamloops, British Columbia, Canada, 10-11 March.

[61] Schimpf GR*, **DE Carlyle-Moses** and DL Spittlehouse (2006). "Modelling rainfall

interception loss from a mature lodgepole (*Pinus contorta* var. *latifolia* Dougl.) stand of the south-central interior of British Columbia". In: Conference Program and Abstracts of the Western Division of the Canadian Association of Geographers Annual Meeting, Thompson Rivers University, Kamloops, British Columbia, Canada, 10-11 March.

[62] **Carlyle-Moses DE** and AG Price (2005). "Growing-season stemflow production within a deciduous forest of southern Ontario". In: Program and Abstracts of the Canadian Geophysical Union 31st Annual Meeting, Banff, Alberta, Canada, 8–11 May.

[63] Flores-Laureano JS, **Carlyle-Moses DE**, Price AG and J Návar (2003). "Throughfall fluxes in subtropical montane forests of the Sierra Madre Oriental (Nuevo León, México)". In: Proceedings of the VI Mexican Forest Resources Conference, Society of Mexican Forest Resources, Faculty of Agronomy, University of San Luis Potosi, San Luis Potosi, S.L.P., Mexico, 5 – 7 November.

[64] Flores-Laureano JS, **Carlyle-Moses DE**, Price AG and J Návar (2003). "Flujos de precipitación penetrante en los bosques subtropicales de la Sierra Madre Oriental (Nuevo León)". In: Proceedings of the XIV National Conference of Agricultural Research and Technology, Institute of Forest Technology and Institute of Agricultural Technology, Durango, Dgo., Mexico, 14 November.

v. Professional Role in Research Groups and Projects

[1] 2018 – 2019	*Co-Lead* – "Ecohydrology Road-Map manuscript working group, Ettersburg Ecohydrology Workshop.
[2] 2018 – present	*Member* – Ecohydrology Group, Department of Geography, University of Delaware.
[3] 2017 – present	*Member* – GeoX Lab, Department of Geography and Environmental Studies, Thompson Rivers University.
[4] 2007 - present	*Co-Investigator* – "Upper Penticton Creek Watershed Experiment". Principle investigator: R.D. Winkler (BC Ministry of Forests, Lands and Resource Operations, Kamloops). Web site: http://www.for.gov.bc.ca/rsi/research/penticton/index.htm
[5] 2016 – present	*Member* – "Alliance for Mountain Environments Research Group" Principal Directors John Hull and Harold Richardson (TRU)
[6] 2012 – 2014	*Co-Investigator* – "Stormwater Tree Project" with M.Sc. Env. Sci. Student Julie Schooling.
[7] 2009	*Co- Investigator* – "Fishtrap Creek Project" Principle investigators B Eaton (University of British Columbia), RD Moore (University of British Columbia) and T Gilles (BC Ministry of Forests and Range, Kamloops).
[8] 2006-2009	*Principal Investigator* – "Measurement and Modelling of Disturbance Impacts on Site Hydrology and Productivity in British Columbia's Southern Interior". British Columbia Forest Investment Account - Forest Science Program Sponsored project.

[9] 2006-2008	*Principal Investigator* – "Mountain Pine Beetle Impacts on the Annual Water Balance". British Columbia Forest Investment Account - Forest Science Program Sponsored project.
[10] 1996	*Hydrologist* – "HYD-8 Science Team, Boreal Ecosystem Atmosphere Study (BOREAS) – 1996 Summer Filed Campaign" (Principal Investigator: Larry E. Band – University of North Carolina – Chapel Hill). Project title: "Simulation of Carbon and Water Budgets: Scaling from Local to Regional Extents".

vi. Grants

External Grants

[1] 2018	NSERC (National Science and Engineering Research Council) Advancing Climate Change Science in Canada Grant. *Trees as green infrastructure in our cities: Mitigating the impacts of climate change on infrastructure, communities and local waterways*. PI, Co-PI's Dr. David Hill and Dr. Tom Pypker. $385,120 over 3 years – Not Funded.
[2] 2008 – 2013	NSERC (National Science and Engineering Research Council) Discovery Grant. *Rainfall partitioning by forest canopies and floors: Processes, linkages and scaling issues.* $75,000 + Delivery Allowance.
[3] 2011 – 2013	Real Estate Foundation of British Columbia – Foundation Small Grant. $12,000*.
[4] 2011 – 2013	TD Friends of the Environment Foundation TD-FEF Grant. $8,000*.
[5] 2008 – 2010	BC Forest Investment Account - Forest Science Program Grant. *Measurement and modelling of disturbance impacts on site hydrology and productivity in British Columbia's Southern Interior*. $88, 502 + Delivery Allowance.
[6] 2006 – 2008	BC Forest Investment Account -Forest Science Program Grant. *Measurement and modelling of mountain pine beetle impacts on the annual water balance.* $82,404 + Delivery Allowance.
[7] 2006	BC Ministry of Forests and Range – Transfer Agreement. *Annual maximum daily rainfall depth frequency analysis for the Southern Interior Forest Region of British Columbia*. $12,600 + Delivery Allowance.

*Grants Awarded in Conjunction with Graduate Student Julie T Schooling.

Internal Grants (Thompson Rivers University)

2016 – 20	Total of eight Faculty of Arts Unspent PD Awards ($750 each)
2015 – 16	Internal Research Fund with Dr. Sharon Brewer ($5000)
2015	Two Faculty of Arts Unspent PD Awards ($1500)
2014	Faculty of Arts Unspent PD Award ($750)
2013	Faculty of Arts Research and Project Award ($2,126)
2012	Two Faculty of Arts Unspent PD Awards ($750 each)

2011	Faculty of Arts Research Award ($1,570)
2008	Faculty of Arts Research Award ($5,000)
2006 – 07	Scholarly Activity Committee Grant ($1,400)
2006	Assisted Leave Grant ($1,200)
2005 – 06	Scholarly Activity Committee Grant ($1,164)
2005 – 06	Scholarly Activity New NSERC Faculty Grant ($4,500)
2004	Assisted Leave Grant ($2,000)

vii. External Reviews of Scholarly Activity

[1] The Levia et al. (2020) *Nature Geoscience* article has been featured in no fewer than 13 online and print news venues including *Environmental Technology, EurekAlert!, Environmental News Network,* and *Yorkton This Week.* https://www.nature.com/articles/s41561-020-0641-y/metrics

[2] The Mrad et al. (2020) Proceedings of the National Academy of Sciences article has been featured in no fewer than 11 online and print news venues including *Earth and Space News, SeedQuest*, and *Phys.Org*

[3] Partnership for Water Sustainability in British Columbia (2015). Stormwater trees in Kamloops, BC: A research project based at Thompson Rivers University. Partnership for Water Sustainability in British Columbia E-Newsletter. http://us3.campaign-archive2.com/?u=a2d55d4f7409eb55318f3cfdf&id=2f017342d7

[4] Mitchell MJ (2012). Research Resource Review: Forest Hydrology and Biogeochemistry: Synthesis of Past Research and Future Directions. *Progress in Physical Geography* 36: 451-453. https://doi.org/10.1177/0309133312440216

viii. Institutional Coverage of Scholarly Activity

[1] "Rain research: floods, examining climate change" by Kim Anderson, In: Inside TRU: TRU Newsroom, April 15, 2019.

https://inside.tru.ca/2019/04/15/rain-research-mitigating-floods-examining-climate-change/

[2] "When it Rains: Opportunity pours in from graduate research" by Larkin Schmiedl, In: TRU's *Bridges Magazine*, Spring 2015 Issue 13, page 16.

[3] "Governor General's Gold Medal a team effort" by D. Bach, In: TRU Research and Graduate Studies – Research News, Posted June 9th, 2015. http://research.inside.tru.ca/2015/06/09/schooling/

[4] "Stormwater trees". In: *Thompson Rivers University Research and Graduate Studies Annual Report 2012* – Research Excellence at TRU: Selected Activities – Regional Impact. Page 9.

ix. Media Interviews and Reviews of Scholarly Work

[1] "Bark lends bite to research" *Kamloops This Week*, July 8, 2014. http://www.kamloopsthisweek.com/bark-lends-bite-to-research/

[2] Graduate Student Julie Schooling was interviewed about the Urban Stormwater Trees project on the Midday Show of CFJC TV, July 12, 2013. http://www.youtube.com/watch?v=fWtHrdYqi28
Follow-up interview at conclusion of project on Midday Show of CFJC TV, October 3, 2014. https://www.youtube.com/watch?v=5hdYD8Y5lyY

[3] "The Importance of Urban Trees". *Kamloops Daily News*, June 22, 2013.

[4] "Warm weather woes" The Omega: Thompson River's Independent Student Newspaper, February 12, 2010.

[5] "Pine Beetle and Flooding: Importance of the Forest Floor" *CBC Daybreak – South* Radio Interview, Fall 2007.

[6] "Will almanac peg our winter?" *Kamloops This Week*, September 14, 2007, pg.3.

[7] "Hot topic, sizzling debate: Global warming…" *Kamloops This Week*, January 17, 2007, pg. B1.

[8] "TRU prof part of pine-beetle research" *Kamloops This Week*, October 13, 2006, pg. 12.

[9] "Wither weather: Not a TRU" *Kamloops This Week*, December 9, 2005, pg. 1.

[10] Photo Caption Only – "Talking weather: TRU assistant geography professor Darryl Carlyle-Moses…". *Kamloops Daily News*, December 8, 2005, pg. A5.

x. Scholarly Activity Awards and Recognition

[1] Faculty of Arts Certificate of Recognition in Scholarship – 2011 & 2012

[2] Faculty of Arts Certificate of Recognition for Publishing a Book – 2012

[3] "Geographer of the Week – Darryl Carlyle-Moses" – GeogNews No 29, April 30, 2009. Canadian Association of Geographers.

II. SERVICE

i. Institution

Department

- Interim Department Coordinator (2023-24)
- Department Chair – Geography and Environmental Studies (2011 – 2017)

- Geography and Environmental Studies Program Academic Advisor (2011 – present)
- Articulation / Transfer Credit – Subject Matter Expert (2011 – present)
- Acting Chair (various weeks during summer 2005 – 2011, 2018 – 2023)
- Department Performance Review Committee (Member 2009 – 2011, 2018 – present, Chair 2012 – 2018)
- Department Appointments Committee (Member 2006 – 2011, 2018 – present, Chair 2012 - 2018)
- Department Workload Committee (Member 2006 – 2011, 2018 – present, Chair 2012 - 2018)
- Department Scholarships Committee (Member 2004 -2011, Chair 2012 – 2018)
- Department Review Committee (Chair, 2011 – 2014)
- Work Study Supervisor: 2004 – 2009, 2015 – 2017
- High School Liaison: 2006 – 2008.
- Service Learning 3000 – "Physical Geography of the Big Island of Hawaii Field School" Instructional Support for course leader Crystal Huscroft – 2011.
- GEOG 3700 Geography Field Course (Voluntary Instructor): 2007 – 2009.
- "A Guide to Graduate School" Presentation to TRU Geography Society: 2008 and 2009.
- Course Reviewer for TRU OL GEOG 111 – Introduction to Physical Geography II.

Faculty of Arts

- Faculty of Arts' Nominations Committee (Chair 2014-2017, Departmental representative member 2018-present).
- Co-Speaker – ArtsPrep roundtable talk entitled "Everything your prof wishes they could tell you". August 27, 2019.
- Faculty of Arts Open House – Geography & Environmental Studies Representative Provided 10-minute talk regarding the Department's programs to prospective high school students, October 2015, October 2016, and October 2018.
- Art's Explorer Theme and Course selection Committee member (Geography & Environmental Studies representative). 2016-17.
- Acting Chair, Department of Sociology and Anthropology 2014 – 2015.
- Chair, Department of Sociology and Anthropology Appointments Committee Sociology Tenure-Track Hire 2015.

- Faculty of Arts Promotion and Tenure Committee (Member) 2012 – 2014, 2018.
- Nominations Committee of the Faculty of Arts Council (Member) 2009 – 2010, 2011 – 2012, (Chair) 2013 - present.
- Faculty of Arts Graduate Program Committee - Curriculum Subcommittee (Chair and Department Representative) 2013 – 2014.
- Faculty of Arts Dean Search Committee (Member) 2013
- Bachelor of Arts Review Committee (Member) 2008 – 2010.
- Faculty of Arts 5-Year Plan Working Group on Programming and Themes (Co-Chair) 2011.
- Faculty of Arts Curriculum Committee (Member) 2005 – 2007.
- Scholarly Activity Committee (Member) 2004 – 2006.

University

- Program Coordinator - Master of Science in Environmental Science (2021-24)
- Academic Integrity Committee of Senate - Faculty of Arts Representative (2019 – 2021, two-year term).
- Chair, M.Sc. Env. Sci. Thesis Defense for Steven Kega, February 2021.
- Chair, M.Sc. Env. Sci. Thesis Defense for Jared Maida, December 7, 2018.
- Association of Professional Engineers and Geoscientists: TRU Environmental Geoscience Curriculum Articulation Coordinator: 2011 – present.
- TRU / TRUFA Chair - Coordinator Release Allocation Committee (Member): 2014 – 2018.
- Co-Host – Environmental Science Seminar Series Presenter Dinner: February 15, 2017: - Dr. Meghna Babbar-Sebens (Oregon State University) – primary host Dr. David Hill; February 11, 2016: - Dr. Troy Ocheltree (Colorado State University) - primary host: Dr. Tom Pypker
- Student Poster Judge - Master of Science in Environmental Science Showcase, March 3rd 2016.
- TRU Science Fair presenter – Four 25-minute sessions on the *science of geography* to 10 to 14-year old students. April 9th 2015 with Dr. David Hill and on April 7th 2016 with Dr. David Hill and Brandon Turner (student).
- Faculty Host – Environmental Science Seminar Series – Dr. Delphis F. Levia Jr., Departmentof Geography, University of Delaware. Talk Title: "Effects of Forests on Water and Biogeochemical Cycles". March 26th, 2015.
- TRU-OL Hiring Committee for GEOG 2221 Developer and Consultant positions (Member) – 2015.

- TRU NSERC Undergraduate Student Research Award Adjudication Committee (Member): 2012 – 2014.
- TRU Articulation Committee (Member) 2012- 2014.
- Master of Environmental Science Program Committee (Member): 2005 – 2013.
- Tier I Canada Research Chair in Sustainability Search Committee (Member) – 2009.
- Environmental Advisory Committee - Research Working Group: 2008 – 2009.
- TRUFA – Salary and Working Conditions Committee (Tripartite Rep.): 2007 – 2009.

ii. Profession

Journal Editorships and Editorial Board Membership

- Review Editor of *Frontiers in Forests and Global Change – Forest Hydrology Section* Frontiers Media S.A., Lausanne Switzerland. 2018 – present.
- Editor (Physical Geography Division) of the *Western Geographer*, a journal of the Western Division of the Canadian Association of Geographers: 2011 – 2013.

Professional Committees

- Member of the Canadian Water Resources Association Committee on the State of Professional Hydrology in Canada: 2009 – 2010.

Conference and Workshop Service

- Judge – 2019 European Geophysical Union General Assembly Outstanding Student Paper Award.
- Judge – Student Oral and Poster Presentations. Western Division of the Canadian Association of Geographers' 59th Annual Meeting, University of the Fraser Valley, Abbotsford, British Columbia, Canada, March 2-4, 2017.
- Chair – "Environmental Processes" – Oral Session M1-D. Western Division of the Canadian Association of Geographers' 59th Annual Meeting, University of the Fraser Valley, Abbotsford, British Columbia, Canada, March 2-4, 2017.
- Judge – 2015 + 2016 American Geophysical Union Fall Meeting Outstanding Student Paper Award.
- Primary Convener and Co-Chair with C. Siegert – "Precipitation – Vegetation Interactions: Advances in Interception Loss, Throughfall and Stemflow Research II – Oral Session", American Geophysical Union Fall Meeting, December 14 – 18, 2015.
- Primary Convener – "Precipitation – Vegetation Interactions: Advances in Interception Loss, Throughfall and Stemflow Research I – Poster Session", American Geophysical Union Fall Meeting, December 14 – 18, 2015.

- Conference Co-Organizer – Western Division of the Canadian Association of Geographers' 57th Annual Meeting, Thompson Rivers University, Kamloops, British Columbia, Canada, March 13-14, 2015.

- Convener – "Biogeography and Rivers" Western Division of the Canadian Association of Geographers' 57th Annual Meeting, Thompson Rivers University, Kamloops, British Columbia, Canada, March 13-14, 2015.

- Co-Convener with J. Van Stan and D. Levia – "Precipitation Partitioning by Vegetation: Methods, Measurement, and Modeling of Hydrologic and Biogeochemical Dimension I (Poster Session H21E) and II (Speaker Session H23S). American Geophysical Union Fall meeting, San Francisco, California, December 15-19, 2014.

- Convener – Two oral sessions: "Hydrological Cycle" and "Earth, Wind and no Fire", Western Division of the Canadian Association of Geographers' 56th Annual Meeting, University of Victoria, Victoria, British Columbia, Canada, March 7-9, 2014.

- Co-Convener with D. Levia and R. Keim – "Interactions of Precipitation with Forest Canopies across Spatial and Temporal Scales: Measurement and Modelling" – Posters. American Geophysical Union Fall Meeting, San Francisco, California, USA, 3–7 December 2012.

- Convener – "Hydrology and Fluvial Environments", Western Division of the Canadian Association of Geographers' 55th Annual Meeting, University of Lethbridge, Lethbridge, Alberta, Canada, March 7-9, 2013.

- Co-convener with graduate student Julie Schooling – Three sessions (HW5A, HW5B and HW5C) on "Hydrology and the Urban Biophysical Environment" at the Canadian Water Resources Association - Canadian Geophysical Union National Meeting, Banff Centre, Banff, Alberta, Canada, 5-7 June 2012.

- Convener – "Environmental Systems and Proxy Data Methods" at the 54th Annual Meeting of the Canadian Association of Geographers, University of British Columbia – Okanagan, Kelowna, British Columbia, 8-9 March 2012.

- Co-Convener – "H23F: Biosphere-Atmosphere Interactions: Empirical Modeling, and Simulation Studies I" session, Joint Assembly, American Geophysical Union Meeting, Toronto, Ontario, 26 May 2009.

- Convener – "Mayson Lake: Hydrological Processes in British Columbia's Southern Interior" session, 51st Meeting of the Western Division of the Canadian Association of Geographers, Vancouver Island University, Nanaimo, British Columbia, 5-7 March 2009.

- Convener – "Watershed Studies in British Columbia" session of the Joint Canadian Meteorological and Oceanographic Society, the Canadian Geophysical Union, and the American Meteorological Society Annual Meetings, St. John's, Newfoundland, May 28 – June 1, 2007.

- Conference Co-organizer with Department of Geography and Environmental Studies faculty and TRUGS student group for the 48th Western Division of the Canadian Association of Geographers Annual Conference held at Thompson Rivers University, March 10-11, 2006.

Reviewer

Book Chapters:

[1] David, JS, Valente, F and JHC Gash. 2005. *Evaporation of Intercepted Rainfall*. In: Part 4: Hydrometeorology, Encyclopedia of Hydrological Sciences. John Wiley & Sons Inc.

Textbooks:

[1] Ross, SL. *Weather and Climate: An introduction* (2nd Ed). 2018. Oxford Uni. Press.

[2] Ladson, A. *Hydrology: An Australian introduction* – review for Canadian adaptation. 2009. Oxford University Press.

[3] Ahrens, CD. 2008. *Meteorology Today: An introduction to weather, climate and the Environment*. Thompson Brooks/Cole.

[4] Christopherson, RW and M-L Byrne. 2008. *Geosystems: An Introduction to Physical Geography* (2nd Edition). Pearson – Prentice Hall, Toronto. 707 pp.+.

Manuscripts for Publication in Academic Journals:

Journal, publisher, number of reviews (total = 79) and years in which reviews were undertaken.

Journal Title	*Publisher*	*# of Reviews*	*Year(s) Review(s) Undertaken*
Journal of Hydrology	Elsevier	21 + 4R	2003, 2008 - 2010, 2012 – 2014, 2016, 2018 - 2019
Agricul. For. Meteorology	Elsevier	7 + 2R	2007, 2008, 2015, 2018
J. of Arid Environments	Elsevier	1	2011
Forest Ecol. Management	Elsevier	1	2018
*Hydrological Processes**	Wiley-Blackwell	17 + 3R	2009, 2011 – 2016, 2018
Ecohydrology	Wiley-Blackwell	11 + 3R	2009, 2011 – 2016, 2018
Water Resources Research	American Geophysical Union	1	2019
Canadian J. Water Resources	Taylor and Francis	1	2017
Hydrological Sciences Journal	Taylor and Francis	3 + 1R	2011, 2013, 2020
Hydrology Research	IWA Publishing	2	2015
Hydrol. Earth Syst. Process.	European Geophysical Union	2	2018 - 2019
J. of Hydrometeorology	Amer. Meteorology Soc.	1	2016
J. of Water Resources Planning	Amer. Soc. Civ. Eng.	1	2016
Plant Ecology	Springer	2	2011, 2016
Boundary Layer Meteorology	Springer	1	2016
Biotropica	Springer	1	2014
Int. J. of Biometeorology	Springer	2	2013, 2016
Int. J. of Wildland Fire	CSIRO	1 +1R	2018 - 2019
Forests	MDPI	1	2016
Global Ecol. Biogeog.	John Wiley and Sons	1	2020
Western Geography	WDCAG	1	2014

R = Re-Review completed after major revision requested. *Received a *Reviewer Certificate* in 2015, 2016 and 2019 for *Hydrological Processes* reviews and 2021 for *Global Ecology and Biogeography* review.

Other Professional Service

- External Referee for a Tenure and Promotion file, Faculty of Forestry, Mississippi State University – 2018.
- Assembled and Submitted an American Geophysical Union *Paul A. Witherspoon Award* nomination – 2018.
- Assembled and Submitted an American Geophysical Union *Hydrological Sciences Award* nomination – 2016.
- External Referee for a Tenure and Promotion file with the Department of Geology and Geography, Georgia Southern University – 2016.
- Reviewer – United States National Science Foundation: Earth Sciences Division Proposal – 2013.

iii. Community

Seminar Series, Colloquium Presentations and Invited Talks

[1] "Stormwater Trees at McArthur Island: Research tackles knowledge gap" Big Little Science Centre Speakers Forum, June 17th, 2015.

[2] "Interception Loss, Throughfall and Stemflow: A Trilogy of Cool Things about Water and Trees" University of Delaware Geography Speaker Series, September 12th, 2014.

[3] "Evaporation during Rainfall or Getting Wet while the Sun Don't Shine" TRU Faculty of Science Environmental Seminar Series, March 14th, 2013.

[4] "Stemflow: The Remarkable Journey of Rainfall within a Tree's Canopy" TRU Faculty of Arts Colloquium Series with Julie Schooling, November 26th, 2012.

[5] "Interception Loss" – TRU Supplemental Learning Leaders Workshop, Organized by Elizabeth Templeman, September 2009.

[6] "Watershed Management" - McQueen Lake Forestry and Environmental Studies Camp, TRU and Selkirk College. October 2008.

[7] "Mayson Lake Hydrological Process Field Tour for Washington State University Graduate Forestry Class Tour" – with RD Winkler, BC Ministry of Forests and Range. September 2007.

[8] "Weather and Climate Talk and Tour" for a grade 3/4 class of George Hilliard Elementary, Kamloops, BC. Fall 2006 and 2007.

[9] "Hydrologic Impacts of Large-Scale Forest Disturbance – Interception Loss". Friends of

Forest Hydrology 2006, Tour – Organizer RD Winkler, BC Ministry of Forests and Range. Fall 2006.

Panelist

[1] "Lost Rivers" - REEL Change Sustainability Film Festival – Kamloops Art Gallery. October 17th 2013.

iv. Service Awards and Recognition

[1] Faculty of Arts Certificate of Recognition in Service – 2011 & 2012

III. ASSOCIATION MEMBERSHIP

- Association of American Geographers (AAG) 2012 – present.
- American Geophysical Union (AGU) 2009 – present.
- Canadian Geophysical Union (CGU) 2004 – present.
- European Geophysical Union (EGU) 2018 – present.
- International Association of Hydrological Sciences (IAHS) 2002 – present.

IV. GENERAL PROFESSIONAL DEVELOPMENT

- Completed TRU's Respectful Workplace and Harassment Prevention Training Course, July 6, 2021.
- Completed TRU's COVID-19 Workplace Hazardous Materials Information System (WHMIS-2015) Training Module, August 27, 2020.
- Completed TRU's COVID-19 Exposure Control Plan (ECP) Awareness Training Module, August 27, 2020.
- Completed TRU's COVID-19 PPE (Personal Protective Equipment) Training Module, August 27, 2020.
- Attended the Promotion and Tenure Workshop, Center for Excellence in Learning and Teaching, TRU, June 3, 2019.
- Attended the Evidencing Your Teaching Workshop, Center for Excellence in Learning and Teaching, TRU, June 3, 2019.