

Curriculum Vita Current to 2021

Lee Foote, PhD.

Work and current mailing Address:

404 9150 University High Street
Burnaby, BC V5A 0C5
Canada
Ph 780 803 8062
Lee.foote@ualberta.ca

Emeritus Affiliation Address (not for mail):

GSB 7-51
University of Alberta
Edmonton, AB T6G 2H1
CANADA

Most Recent University Position (Through 30 June 2020), Director, University of Alberta Botanic Garden, and Professor, Department of Renewable Resources.

Current Activities: Contract writer and policy analyst, Emeritus Professor. Graduate advisor and continue to publish peer reviewed and popular articles.

Statement of Capabilities

My research and writing history has established me as a qualified evaluator, adjudicator, mediator and organizer in many capacities. Several examples include:

Board of Directors, Alberta Emerald Foundation
Board of Directors, Alberta Conservation Association (17 years)
Expert Witness, US Senate Committee on Environment
Registered Wetland Expert, Yukon Territorial Government (on retainer)
Wetland expert (Ducks Unlimited, Delta Waterfowl, Pembina Institute)
Wetland consultant Tr'ondek Hwech'in First Nations Yukon
Creative writer published 33 articles on *Medium* digital media platform.
Contract writer for monthly scientific outdoors column for *Alberta Outdoorsmen* Magazine
Columnist for Alberta Conservation Association magazine *Conservation* (2017-2020)
I have also written for Canada Outdoors, Edmonton Journal, Calgary Herald, and Toronto Star

The gist of my writing focuses on issue analysis, marshaling of scientific evidence and producing contrasts for reasoned consideration. On matters of evidence and fact, I will occasionally produce a recommended option amongst various propositions along with the rationale for that choice, however, largely I find my role as one of circumspection, novel perspectives, and of broadening the discussion initially and tapering the discussion subsequently.

I have published scientific peer reviewed articles on the role of advocacy in the mission of science and public policy. I have also written on the policy process in education, employment and management.

My scientific training is as a wildlife biologist (MSc. and some of my PhD work) and habitat ecologist with an emphasis on wetland habitats. The researchers, students and Post Doctoral Fellows I have led in research projects span the gamut from desert wildlife ecology to whole lake experiments, to arctic falcons, to endangered species, to reclamation management. The list of peer reviewed articles below capture some of the reach of my career thus far but the much longer list of seminars, presentations, evaluations, collaboration with government and industry would tell a much longer and more nuanced story.

Contributions to Peer Reviewed Literature

Books

1. Freeman, Milton, Bob Hudson, and **Lee Foote** (eds). 2005. *Conservation hunting: people and wildlife in Canada's North*. Canadian Circumpolar Institute, Occasional Publication No. 56. 112 pp.
2. **Foote, A.L** 2015 *Oral Exams: Preparing for and passing candidacy, qualifying and graduate defenses*. Elsevier Press 215 pp
3. Freeman, MMR and **A. L. Foote** (eds). 2009. *Inuit, polar bears and sustainable use* CCI Press, University of Alberta, Edmonton. 252 pp.

Peer Reviewed Articles and Chapters

1. Hawkshaw, K, A. Franke and **L. Foote**. 2020. Ecological determinants of avian distribution and abundance at Rankin Inlet, Nunavut in the Canadian Arctic Polar Biology (In press, 16 Oct 2020).
2. J MacLean, SG. Clark, **L Foote**, TS. Jung, DS. Lee & DA. Clark. 2020. Polar Bears and the Politics of Climate Change: A Response to Simpson, Journal of International Wildlife Law & Policy, 23(2):141-150 150. DOI: 10.1080/13880292.2020.1818962
3. MacLean, J. SG Clark, **L Foote**, TS Jung, DS Lee & DA Clark. 2020, Polar bears and the politics of climate change: a response to Simpson. International Journal of Wildlife Law and Policy <https://doi.org/10.1080/13880292.2020.1818962>
4. Watkins, OB, AJ Paul, SC Spencer, MG Sullivan and **AL Foote**. 2019. Dude, Where's my transmitter? Probability of radio transmitter detections and locational

- error for tracking river fish. North American Journal of Fisheries Management. <https://doi.org/10.1002/nafm.10307>
5. Keeping, D, J Burger, A Keitsile, MC Gielen, E Mudongo, M Wallgren, C Skarpe and **L Foote**. 2018. Can trackers count free-ranging wildlife as effectively and efficiently as conventional aerial survey and distance sampling? Implications for citizen science in the Kalahari, Botswana. *Biological Conservation* 223:156-169.
 6. **Foote, A. L.** 2018 The Knife, the Deer and the Student. *In* Bruzina, D, and Higbee Hunting and Academic Identity. University of South Carolina Press.
 7. Rooney, RC. **L Foote**, NT Krogman, J Pattison, M Wilson and S Bayley. 2017. Replacing natural wetlands with stormwater management facilities: Biophysical and perceived social values. *Water Research* 73(15)17-28.
 8. Weber, M, N Krogman and **L Foote**. 2017. Natural capital and the political economy of wetland governance in Alberta. *Journal of Environmental Policy & Planning*. 19 (3):279-292.
 9. Moghimehfar, F, H Harshaw and **L Foote**. 2017. Hunting tourism: The case of Canadian prairie waterfowl hunters. Pps 273-286 (in) I Borges de Lima and RJ Green (Eds) *Wildlife tourism, environmental learning and ethical encounters*. Springer Nature, Switzerland.
 10. Roy, MC, **Lee Foote**, and Jan JH Ciborowski. 2016. Vegetation Community composition in wetlands created following oil sand mining in Alberta, Canada. *Journal of Environmental Management* 172:18-28.
 11. Shuninia, A, TJ Osko, **L Foote** and E Bork. 2016. Comparison of site preparation and revegetation strategies within a Sphagnum-dominated peatland following removal of an oil well pad. *Ecological restoration*. 34(3):225-235.
 12. Mollard, FPO, MC Roy, and **AL Foote**. 2015. Performance of wetland forbs transplanted into marshes amended with oil sands processed water *Environmental Monitoring and Assessment* 187: 125
 13. Mc Gregor, AM, CL Davis, C.J Walter and **L Foote** 2015 Fisheries restoration potential for a large lake ecosystem: using ecosystem models to examine dynamic relationships between walleye, cormorant, and perch. *Ecology and Society* 20(2):29 . [http://dx. doi.org/10.5751/ES-07350-200229](http://dx.doi.org/10.5751/ES-07350-200229)
 14. Roy, MC, FPO Mollard and **AL Foote**. 2014. Do peat amendments to oil sands wet sediments affect *Carex aquatilis* biomass for reclamation success? *Environmental management*. 139:154-163.

15. Samuel, W., B. Stelfox, L. Foote 2014. In memoriam Robert John “Bob” Hudson. *Rangifer* 33:21.
16. K.E. Kovalenko, J.J.H. Ciborowski, C. Daly, D.G. Dixon, A.J. Farwell, **A.L. Foote**, K.R. Frederick, J.M. Gardner Costa, K. Kennedy, K. Liber, M.C. Roy, C.A. Slama, J.E.G. Smits. 2014. Food web structure in oil sands reclaimed wetlands. *Ecological Applications*.23:1048-1060.
17. Mollard, FPO, **AL Foote**, MJ Wilson, V Crisfield, and SE Bayley 2013. Monitoring and assessment of wetland condition using plant morphologic and physiologic indicators. *Wetlands*. DOI 10.1007/s13157-013-0454-5
18. Mollard, F, MC Roy and **ALFoote** 2013. *Typha latifolia* plant performance and stand biomass in wetlands affected by surface oil sands mining. *Ecological Engineering*. 58:26-34.
19. Clark, D.A., C. Meek, J. Cheechoo, S. Clark, **A.L Foote**, D. Lee, G. York. 2013. Polar bears and CITES: a rejoinder to Parsons and Cornick. *Marine Policy*. 38:365-368
20. Mollard, F, Roy, MC, Frederick, K. and **A. L. Foote**. 2012. Growth of the dominant macrophyte *Carex aquatilis* is inhibited in oil sands affected wetlands in Northern Alberta, Canada. *Ecological Engineering*. 38(1):11-19.
21. MacPherson, LM. MG, Sullivan, **AL Foote** and CE Stevens. 2012. Effects of culverts on stream fish assemblages in the Alberta foothills. *North American Journal of Fisheries Management*. 32(3):480-490.
22. MacPherson, LM. MG Sullivan, **AL Foote** and CE Stevens. 2012. Evaluating sampling techniques for low-density populations of Arctic Grayling (*Thymallus arcticus*). *Northwestern Naturalist* 93(2):120-132.
23. Foote, A.L. 2012. Threshold considerations and wetland reclamation in Alberta’s mineable oil sands. *Ecology and Society* 17(1):35-46.
24. Clare, S, N. Krogman, L. Foote and N. Lemphers. 2011. Where is the avoidance in the implementation of wetland law and policy? *Ecology and Society*. DOI: 10.1007/s11273-011-9209-3.
25. Clark, S.G., M. B. Rutherford • M. R. Auer • D. N. Cherney R. L. Wallace, D. J. Mattson , D. A. Clark, L. Foote, N. Krogman, P. Wilshusen, T. Steelman. 2011. College and University Environmental Programs as a s Policy Problem (Part 1): Integrating Knowledge, Education, and Action for a Better World? *Environmental Management*. DOI 10.1007/s00267-011-9635-2

26. Clark, S.G., M. B. Rutherford • M. R. Auer • D. N. Cherney R. L. Wallace, D. J. Mattson , D. A. Clark, L. Foote , N. Krogman, P. Wilshusen, T. Steelman. 2011. College and University Environmental Programs as a s Policy Problem (Part 2): Strategies for Improvement. Environmental Management. DOI 10.1007/s00267-011-9635-2.
27. Krogman, Naomi and **Lee Foote**. 2011. "Global Citizenship and the Environment: Embracing Life in All its Forms" Pp. 107-118 in Shultz, L., Abdi, A., Richardson, G. (Eds.) *Global citizenship education in post-secondary institutions: Theories, practices, policies*. New York: Peter Lang
28. D. Clark, SG Clark, M Dowsley, **L Foote**, TS Jung, and RH Lemlin. 2010. It's not just about bears: A problem-solving workshop on Aboriginal peoples, polar bears and human dignity. *Arctic* 63(1)124-127.
29. Brown, CL, CA Paszkowski, **AL Foote** A Moenting and SM Boss. 2009. The relationship of amphibian abundance to habitat features across spatial scales in the Boreal plains. *Ecoscience* 16(2): 209-223.
30. **Foote, AL**. and GW Wenzel. 2009 Polar bear conservation hunting in Canada: Economics, culture and unintended consequences. Pp 13-24 in MMR Freeman and AL Foote (Eds) *Inuit, polar bears and sustainable use*. CCI Press, University of Alberta, Edmonton.
31. **Foote, AL**, N Krogman, DA Clark and L Johnston 2009. Polar bears in the media: The ways in which we know the icon. Pp 187-198 in MMR Freeman and AL Foote (Eds) *Inuit, polar bears and sustainable use*. CCI Press, University of Alberta, Edmonton.
32. Clark, DA, M Tyrrell, M Dowsley, **L Foote**, MMR Freeman and SG Clark. 2009. Polar bears, climate change and human dignity; seeking integrative conservation policies. Pp 233-242 in MMR Freeman and AL Foote (Eds) *Inuit, polar bears and sustainable use*. CCI Press, University of Alberta, Edmonton.
33. **Foote, AL**, NT Krogman, and J. Spence. 2009 Should academics advocate on environmental issues? *Society and Natural Resources*. 22: 579-589.
34. Clark, D, M. Tyrell, M Dowsley, **AL Foote**, M Freeman and SG Clark. 2008. Polar bears, climate change and human dignity: disentangling symbolic politics and seeking integrative conservation policies. *Meridian*, Canadian Polar Commission, pg 1-6. Fall/Winter.
35. **Foote, AL**. 2008. Nurturing the land for food, flora and fauna. *Conservation* 10:5-7.

36. **Foote, AL** and G Wenzel. 2008. Conservation Hunting Concepts, Canada's Inuit and polar bear hunting. Pp 115-128 (in) B. Lovelock (Ed) Tourism and the consumption of wildlife. Rowledge Press. 320 p.
37. Walker, JR, **AL Foote**, and MG Sullivan. 2007. Effectiveness of enforcement to deter illegal angling harvest of northern pike in Alberta. *North American Journal of Fisheries Management* 27:1369-1377.
38. Hornung, JP and **AL Foote** 2007. Comparing dietary preferences of Bufflehead ducklings in Western Canada through gut content and stable isotope analysis. *Aquatic Ecology* 42(1):61-70 .
39. Stevens, C, C Paszkowski, and **AL Foote** 2007. Beaver (Castor canadensis) as a surrogate species for conserving anuran amphibians on boreal streams. *Biological Conservation*. 134(1):1-13
40. JR Walker, **AL Foote**, and MG Sullivan. 2006. The effects of an enhanced fisheries enforcement strategy on deterring illegal harvest by anglers on Northern Pike. *North American Journal of Fisheries Management* 27(4): 1369–1377 .
41. **Foote, AL** and NT Krogman. 2006. Boreal wetlands in Alberta: State of our knowledge and agents of change. *Forestry Chronicle* 825-836
42. Hornung, JP and **AL Foote** Hornung 2006. Aquatic invertebrate responses to fish presence and vegetation complexity in western boreal wetlands with implications for waterbird productivity. *Wetlands* (26)2:1-12
43. Martell, KA., **AL Foote**, and SG Cumming. 2006. Riparian disturbance due to beavers (*Castor canadensis*) in Alberta's boreal mixedwood forests: Implications for forest management. *Ecoscience* 13 (2):164-171.
44. **Foote, A. L.** and C. L. Rice. 2005. Odonates as biological indicators of grazed and ungrazed Canadian prairie wetlands. *Ecological Entomology*. 30:1-11.
45. **Foote, A. L.** 2005. Principles, Perspectives and Ethics of Conservation-hunting. Pp 65-68 (In) Conservation Hunting: People and Wildlife in Canada's North. Milton Freeman, Bob Hudson and Lee Foote (Eds). Canadian Circumpolar Institute Occasional Publication No. 56.
46. **Foote A. L.** and M. G. Sullivan. 2005 The future of wildlife and fisheries management in Alberta: The promise in our young biologists. *Book Chapter in Fur and Feathers: a history of wildlife management in Alberta*. Petra Rowell (Ed) Pp 365-368. Alberta Historical Society Publishers, Edmonton, Alberta
47. Randall, L. A. and **A. L. Foote**. 2005 Effects of impoundment management and herbivory on wetland plant production and stand structure. *Wetlands* 25(1):38-50.

48. **Foote, A. L.**, N. T. Krogman, I. M. Grundy, N. Nemarundwe, B. M. Campbell, J. Gambiza, and L. Gibbs. 2003. Ilala palm (*Hyphane petersiana*) use in southern Zimbabwe: social and ecological factors influencing sustainability. *Forests, trees and livelihoods* 13(4):275-296.
49. **Foote, A. L.** 2001. The irreducibility of hunting. *Fair Chase* 16(2):26-31.
50. Albano, G., B. Campbell, **L. Foote**, J. Gambiza, I. Grundy, C. N'gonu and C. Tafangenyasha. 2000. The ecological impacts of Ilala Palm utilisation (Chapter 4, pp 30-41) in The ecology, control and economics of Ilala Palm in Sengwe Communal Area, Zimbabwe. Institute of Environmental Studies Working Paper No. 15. Harare, Zimbabwe.
51. Carter, J., **A. L. Foote**, and L. A. Johnson-Randall. 1999. Modeling the effects of nutria (*Myocastor coypus*) on wetland loss. *Wetlands* 19(1):209-219.
52. Johnson, L.A., and **A. L. Foote**. 1997. Vertebrate herbivory on managed coastal wetlands: a manipulative experiment. *Aquatic Botany* 59(1):17-32.
53. **Foote, A. L.** and K. A. Reynolds. 1997. Salt meadow cordgrass (*Spartina patens*) decomposition and its importance in Louisiana coastal marshes. *Estuaries* 20(3):579-588.
54. Reed, D. J., N. DeLuca, and **A. L. Foote**. 1997. The effect of hydrologic management on marsh surface sediment deposition in coastal Louisiana. *Estuaries* 20(2):301-311.
55. **Foote, A. L.** 1996. Coastal wetlands: A question of management. (In) J. A. Ratti (ed.) Seventh International Ducks Unlimited, Waterfowl and Wetlands Symposium (reviewed). Allen Press Inc. Lawrence Kansas.
56. **Foote, A. L.**, S. Pandey, and N. T. Krogman. 1996. Processes of wetland loss in India. *Environmental Conservation* 23(1):45-54.
57. **Foote, A. L.** 1995. Book Review: Rivers of the United States, Volume I, Estuaries. *Wetlands* 16(1):99
58. **Foote, A. L.** and K. A. Reynolds. 1995. Manual of safe airboat operation. National Biological Service, Southern Science Center Open File Report 95-04 (peer reviewed). 58 pp.
59. **Foote, A. L.** 1995. Conservation of coastal marshes in *Encyclopedia of Conservation and Environmentalism* (Ed) Robert Paehlke. Garland Publishing Inc., New York, New York.

60. Dingler, J. R., S. A. Hsu, and **A. L. Foote**. 1995. Wind shear stress measurements in a coastal marsh during Hurricane Andrew. *Journal of Coastal Research* 21:295-305.
61. Jackson, L. L., **A. L. Foote**, and L. S. Balistrieri. 1995. Hydrological, geomorphological, and chemical effects of Hurricane Andrew on coastal marshes of Louisiana. *Journal of Coastal Research* 21:306-323.
62. G. R. Guntenspergen, D. R. Cahoon, J. Grace, G. D. Steyer, S. Fournet, M. A. Townsend, and **A. L. Foote**. 1995. Disturbance and recovery of the Louisiana coastal marsh landscape from the impacts of Hurricane Andrew. *Journal of Coastal Research* 21:324-339.
63. Guntenspergen, G. R., **A. L. Foote**, and E. C. Pendelton. 1993. Experiment to determine value of impoundments and hydrologic manipulation in restoration of Louisiana coastal wetlands. *Restoration & Management Notes*. 11(1):64-65.
64. Taylor, K. L., J. B. Grace, G. R. Guntenspergen, and **A. L. Foote**. 1994. The interactive effects of herbivory and fire on an oligohaline marsh, Little Lake, Louisiana, USA. *Wetlands* 14(2):82-87.
65. **Foote, A. L.**, V. Burkett, and S. J. Williams. 1993. Natural resource problem solving: an interdisciplinary approach in coastal Louisiana. Proceedings of paper presented 22 July 1993 at Coastal Zone 93, New Orleans, LA.
66. Jackson, L. L., **A. L. Foote**, L. S. Balistrieri, and K. S. Smith. 1993. The effects of Hurricane Andrew on coastal marshes in Terrebonne basin, Louisiana. *American Chemical Society*, Denver, CO, Division of Geochemistry Paper #4.
67. Pendleton, E. C., **A. L. Foote**, and G. R. Guntenspergen. 1991. Managing Louisiana marshes -- an experimental approach. pp 235-246 (in) H. Suzanne Bolton and O. T. Magoon (Eds) 1991. *Coastal Wetlands*. American Society of Civil Engineers New York, NY.
68. Cramer, K. C., **A. L. Foote**, and J. A. Chapman. 1990. Small mammal records from Dolphin Island, The Great Salt Lake, and other localities in the Bonneville Basin, Utah. *Great Basin Naturalist* 50(3):283-289.
69. **Foote, A. L.** 1989. Response of nesting waterfowl to flooding in Great Salt Lake wetlands. *Great Basin Naturalist* 49(4):614-617.
70. **Foote, A. L.** 1988. Plants important to birds in Great Salt Lake Wetlands. *Utah Birds* 4(1):21-30.
71. **Foote, A. L.**, J. A. Kadlec, and B. K. Campbell. 1988. Insect herbivory on an inland brackish wetland. *Wetlands* 8:67-74.

72. **Foote, A. L.** and J. A. Kadlec. 1988. Effects of wave energy on plant establishment in shallow lacustrine wetlands. *Journal of freshwater ecology* 4(4):523-532.
73. **Foote, A. L.** 1988. Effects of wave energy on plant establishment in shallow lacustrine wetlands. Proceedings of a symposium, Restoration, creation and management of wetland and riparian ecosystems in the American West. Denver, Colorado. pp 115-119. (refereed).

Examples of Other Contributions to non-peer reviewed publications

Since 2016 authored a quarterly scientific column called “Footenotes” for the magazine “*Conservation*” Published by the Alberta Conservation Association.

Since 2017 authored a monthly 1200-word column on wildlife and habitat issues in the *Alberta Outdoorsmen* magazine to bring scientific principles to laypersons.

Frequent media contributor through op-ed articles, interviews and panelist on a variety of topics from grizzly bear management, to garden interpretation.

Teaching Responsibilities

In 2019 I taught one undergraduate U of A course – *Urban Plants, Gardening and Sustainability*.

1997-2011 I taught 4 courses per year (Utilization of Wildlife Resources; Graduate Wetland Ecology; Graduate Professionalism and Ethics Seminar; Environmental Conservation Science & Forestry Field School)

I am a frequent guest lecturer for universities in the Edmonton Area

Book tour lectureship 2015 – three countries 14 University presentations.

I have supervised and graduated 34 MSc and PhD students and served on over 130 graduate committees as chair, committee member or external examiner.

Administrative Duties and Service

Director University of Alberta Botanic Garden (2011-Present) Admin. Unit of 75 employees, financial responsibility for \$3.2 million operating budget annually.

Design, Bid and Construction Committees for 2017 Aga Khan Garden (\$25 million); 2016 Alberta Infrastructure Garden Development Grant (\$13.1 million); 2019 Diwan (\$5.2 million); 2019 Visitor's Centre (\$2.25 million).

Dean's Cabinet in Agriculture Life and Environmental Sciences (5 years)

Director of the University of Alberta Botanic Garden (since 2011).

On the Alberta expert panel for the creation and writing of the 2013 Alberta Wetland Policy

Advisor for the Tr'ondek Hwech'in First Nations band in Dawson City, Yukon, concerning gold mining activities in the Indian River wetlands. (2017-present)

Expert advisor for Yukon Territorial Government on wetland policy advice.(2018- present)

Member of the Downtown Edmonton Rotary Club (4 years)

Board of Director, Alberta Emerald Foundation (2 years)

Board of Directors of the Alberta Conservation Association (17 years).

Director of the ACA Grants in Biodiversity Program (\$525,000 per year) (10 years)

Adjudicator the Minister's \$600,000 Special License Fund (4 years).

Regional Chair of Rotary Integrity Award (2018-2020)

Member Alberta Game Policy Advisory Committee (2017-2020)