

## CURRICULUM VITAE - CAMERON P. GOATER

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- Highlights:** **Chair** – Dept Biological Sciences (2006-2009); **Co-author** – Goater, T. M., Goater, C.P., & G. W. Esch. (2014) *Parasitism: The diversity and ecology of animal parasites, 2<sup>nd</sup> Edition*, Cambridge University Press; **Associate Editor** – 1) Journal of Parasitology, 2) Parasites and Wildlife, 3) EcoScience; **Adjudication** - NSERC GSC (Ecology and Evolution, 2007-2010), NSERC – MFG (2009-10); **Invited Seminar** – 31<sup>st</sup> Annual Fugelstadt Lecture in Biological Sciences, 2012, Concordia University
- Personal:** Date of birth: 14 July, 1962  
Place of birth: Moose Factory, Ontario, Canada  
Nationality: Canadian  
Family: Married (Lori), 2 children (Benjamin, Allison)
- Degrees:** 1985 B.Sc., Brandon University, Manitoba  
1990 Ph.D., Exeter University, UK
- Education:** 1977-1980 Chippewa Secondary School, North Bay, Ontario  
1981-1985 Brandon University, Brandon, Manitoba  
Major - Zoology; Minor - Mathematics  
Honours thesis: *Intestinal helminths of long-billed curlews* - supervised by Dr. A.O. Bush  
1985-1989 Exeter University, UK  
Ph.D. - *Patterns of helminth infection in Oystercatchers from the Exe estuary, England* - supervised by Professor C.R. Kennedy and Dr. J.D. Goss-Custard
- Appointments:** 1989-1993 Zoology Museum, U of Zurich, Switzerland - Post-doctoral assistant with Professor P.I. Ward  
1993-95 Research Associate, Dept. Biological Sciences, U of Alberta with Professor J.C. Holmes  
1996 Sessional Lecturer, Dept. Biological Sciences, U of Alberta  
1996 Ecology Research Coordinator. National Centre of Excellence in Sustainable Forest Management, U of Alberta with Professor E. Prepas  
1996 Assistant Professor, Dept. Biological Sciences, U of Lethbridge

2001 Associate Professor, Dept. Biological Sciences, U of Lethbridge  
2002 Coordinator, Environmental Sciences, U of L  
2006-9 Chair, Dept. Biological Sciences, U of L

## TEACHING

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### 1993-1996 (University of Alberta)

ZOO620 Graduate Core Course in Biology (2X)  
ZOO657 Graduate seminar course in Parasite Ecology (2X)  
ZOO402 Marine Parasite Ecology (Bamfield Marine Station)  
ZOO332 Community Ecology  
ZOO260 Humanity and the Biosphere

### 1996-present

ZOOL 3800 Invertebrate Zoology with lab (8X)  
ZOOL 3500 Seminars in Biological Sciences (1X)  
BIOL 4820 Symbiosis and Parasitism with lab (8X)  
BIOL 4500 Conservation Biology (1X)  
BIOL 1020 Diversity of Life (8X)  
BIOL 3630 Field Biology (8X)  
ENVS 3000 Detecting Ecological Impacts (1X)  
BIOL 5/7500 Current Topics in Biological Sciences (6X)

## RESEARCH

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### INTERESTS

Biology and ecology of host/parasite interactions, wildlife epidemiology, ecological epidemiology, ecology of emerging diseases, disease dynamics, conservation biology, aquatic biology, prairie biodiversity. The conceptual component of my research program has been funded by an NSERC Discovery Grant since 1997. The applied component has been continually funded by various Agricultural research initiatives since 2005.

### GRADUATE STUDENTS

Sandland, G. (1999). Interactions between a brain-encysting trematode and its intermediate host, the fathead minnow. M. Sc. University of Lethbridge, Alberta. (Associate Professor, University of Wisconsin)

Baldwin, R. (2000). Parasite community structure in Lake Whitefish from the Caribou Mountains, Alberta. M. Sc. University of Lethbridge, Alberta. (Sustainable Resource Development – Fisheries, Fort McMurray).

Shirakashi, S. (2001). Behaviour of trematode-infected minnows. M. Sc. University of Lethbridge, Alberta. (Assistant Professor, Kinki University, Japan).

Schleppe, J. (2002). Ecology of 2 species of larval parasites in fathead minnows. M. Sc. University of Lethbridge, Alberta. (Owner, Cottonwood Environmental Consulting, Kelowna).

Pearson, K. (2004). Effects of introduced trout on the demography, life-history and behaviour of long-toed salamanders. M. Sc. University of Lethbridge, Alberta. (Land Manager, Nature Conservancy Council, Waterton Lakes District).

James, C. (2008). Behavioural and immunological response of fish to a skin-penetrating parasite. M. Sc. U of Lethbridge, Alberta (Fisheries Biologist, Alberta Conservation Association, Edmonton).

Skotarek, S. (2008). Transmission biology of a common cestode of horses in Alberta. M. Sc. University of Lethbridge (Academic Assistant, U Calgary School of Veterinary Medicine).

Matisz, C (2009). Tissue and cellular responses of fish to brain-inhabiting parasites. M. Sc. U of Lethbridge. **Awarded 2010 Medal of Merit for top U of Lethbridge Graduate Student. Awarded 2011 Ashton Cuckler Award for top graduate student, American Society Parasitology** (Ph.D. candidate, Dept. Biological Sciences, U of Calgary).

Stumbo, A. (2012) Avoidance behaviours of fish exposed to parasites. M.Sc. U of Lethbridge, Alberta. (Ph.D. candidate, Dept. Biology, University of Otago, Dunedin, NZ)

Thomson, M. (transferred to Ph.D. in October, 2011). Ecological epidemiology of the lancet liver fluke in grazing mammals in southern Alberta (ongoing)

van Paridon, Bradley (transfer to Ph.D. in January, 2012). Population genetics and pathway of emergence of an introduced parasite: the little liver fluke in southern Alberta wildlife and cattle. (ongoing)

Crowshoe, Stephanie (2015) Ecological epidemiology of an emerging virus in western tiger salamanders in Alberta. M.Sc. U of Lethbridge.

Hein, Natalia (M.Sc.) Development of copro-antigen detection tool for an emerging parasite of livestock (co-supervised with D. Colwell - ongoing)

Dempsey, Zach (M.Sc.) Phylogeography and parasitology of *Oreohelix* spp. landsnails in southern Alberta (co-supervised with T. Burg – ongoing)

## PUBLICATIONS

### Books

1. Goater, TM., **Goater**, CP & GW Esch. (2014). *Parasitism: The Diversity and ecology of animal parasites*, 2<sup>nd</sup> Edition. Cambridge University Press, Cambridge. (**currently a top international textbook for senior undergraduate courses in Parasitology**)

### Journals (graduate students underlined)

49. Beck, MA, Goater, CP, Colwell, DD. (2015) Comparative recruitment, morphology, and

reproduction of a generalist trematode, *Dicrocoelium dendriticum*, in three species of host.

**Parasitology** (in Press)

48. Beck, MA, Colwell, DD, Kienzle, S. (2015) Where's the risk? Landscape epidemiology of gastrointestinal parasitism in Alberta beef cattle. **Parasites and Vectors** (In Press)

47. Colwell DD, Beck MA, **Goater** CP, Abbas RZ. (2014) Annual variation in serum antibody concentrations against gastro-intestinal nematodes in beef calves from semi-arid rangelands of western Canada. **Veterinary Parasitology** 205: 169-174.

46. Beck MA, **Goater** CP, Colwell DD, vanParidon B. (2014). Fluke abundance versus host age for an invasive trematode (*Dicrocoelium dendriticum*) of sympatric wild elk and domestic cattle in southeastern Alberta, Canada. **International Journal of Parasitology: Parasites and Wildlife** 3: 263-268.

45. Stumbo, AD, James, CT, **Goater**, CP, and B Wisenden. 2012. Shoaling as an anti-parasite defense in minnows (*Pimephales promelas*) exposed to trematode cercariae. **Journal of Animal Ecology** 81: 1319-1326.

44. Stumbo, AD, **Goater**, CP & A Hontela. 2012. Parasite-induced oxidative stress in liver tissue of fathead minnows exposed to trematode cercariae. **Parasitology** 139: 1666-1671.

43. Colwell, DD and CP **Goater**. 2010. *Dicrocoelium dendriticum* in cattle from Cypress Hills, Canada: humoral response and evaluation of an ELISA for diagnosis. **Veterinary Parasitology** 174: 162-165.

42. Skotarek, SL, Colwell, DD and CP **Goater**. 2010. Evaluation of diagnostic techniques for *Anoplocephala perfoliata* in horses. **Veterinary Parasitology** 172: 249-255.

41. Matisz, CE, and CP **Goater**. 2010. Migration, site selection, and development of *Ornithodiplostomum* sp. (Trematoda: Digenea) metacercariae in fathead minnows (*Pimephales promelas*). **International Journal of Parasitology** 40: 1489-1496.

40. Matisz, CE, CP **Goater** and D. Bray. 2010. Migration and site selection of *Ornithodiplostomum ptychocheilus* (Trematoda: Digenea) metacercariae in the brain of fathead minnows (*Pimephales promelas*). **Parasitology** 137: 719-731.

39. Matisz, CE, CP **Goater** and D. Bray. 2010. Density and development of rodlet cells in brain tissue of fathead minnows exposed to trematode cercariae. **International Journal of Parasitology** 40: 307-312.

38. Pearson, K.J. and C.P. Goater. 2009. Effects of predaceous and non-predaceous introduced fish on the survival, growth, and anti-predation behaviours of long-toed salamanders. **Canadian Journal of Zoology** 87:948-955.

37. James, CT, Wisenden, BD and CP **Goater**. 2009. Epidermal club cells do not protect fathead minnows against trematode cercariae: a test of the anti-parasite hypothesis. **Biological Journal of the Linnean Society** 98: 884-890.

36. James, CT, Wisenden, BD and CP **Goater**. 2008. Cost of exposure to trematode cercariae and learned recognition and avoidance of parasite risk by fathead minnows. **Journal of Fish Biology** 73: 2238-2248.
35. Conn, DB, CP **Goater** and D Bray. 2008. Developmental and functional ultrastructure of *Ornithodiplostomum ptychocheilus* diplostomula (Trematoda: Strigeoidea) during invasion of the brain of the fish intermediate host, *Pimephales promelas*. **Journal of Parasitology** 94: 635-642.
34. Pearson, K and CP **Goater**. 2008. Distribution of long-toed salamanders relative to introduced trout in high and low-elevation wetlands in southwestern Alberta, Canada. **EcoScience** 15: 453-459.
33. **Goater**, CP and DD Colwell. 2007. Epidemiological characteristics of an invading parasite: *Dicrocoelium dendriticum* in sympatric wapiti and beef cattle in southern Alberta, Canada. **Journal of Parasitology**, 93: 491-494.
32. Chivers, D. P., Wisenden, B. D., Hindman, C. J., Michalak, T. A., Kusch, R. C., Kaminskyj, S. G. W., Jack, K. L., Ferrari, M. C. O., Pollock, R. J., Halbgewachs, C. F., Pollock, M. S., Alemadi, S., James, C. T., Savaloja, R. K., **Goater**, C. P., Corwin, A., Mirza, R. S., Kiesecker, J. M., Brown, G. E., Jr., J. C. A., Krone, P. H., Blaustein, A. R. & Mathis, A. 2007. Epidermal 'alarm substance' cells of fishes maintained by non-alarm functions: possible defence against pathogens, parasites and UVB radiation. **Proceedings of the Royal Society of London**, 274, 2611-2619.
31. **Goater**, CP, D Bray and BD Conn. 2005. Cellular aspects of early development of *Ornithodiplostomum ptychocheilus* metacercariae in the brain of fathead minnows, *Pimephales promelas*. **Journal of Parasitology** 91: 814-821.
30. Pietrock, M and CP **Goater**. 2005. Infectivity of *Ornithodiplostomum ptychocheilus* and *Posthodiplostomum minimum* (Trematoda: Diplostomidae) cercariae following exposure to cadmium. **Journal of Parasitology** 91: 854-856.
29. **Goater**, CP, RE Baldwin, and G Scrimgeour . 2005. Physico-chemical determinants of helminth community structure in whitefish (*Coregonus clupeoformis*) from adjacent lakes in northern Alberta, Canada. **Parasitology** 131: 713-722.
28. Shirakashi, S and CP **Goater**. 2005. Chronology of parasite-induced alteration of minnow behaviour: effects of parasite maturation and host experience. **Parasitology** 130: 177-183.
27. Schleppe, J and CP **Goater**. 2004. Comparative life-histories of two diplostomid trematodes, *Ornithodiplostomum ptychocheilus* and *Posthodiplostomum minimum*. **Journal of Parasitology** 90: 1387-1390.
26. Baldwin, R and CP **Goater**. 2003. Circulation of helminths among sympatric fishes in Northern Alberta. **Journal of Parasitology** 89: 215-225.
24. Shirakashi, S and CP **Goater**. 2002. Intensity-dependent alteration of minnow behaviour by a

brain-encysting trematode. **Journal of Parasitology** 83: 1071-1074.

24. Colwell, DD, CP **Goater** and KM **Jacobson**. 2002. Prevalence and intensity of gastrointestinal parasites in slaughter lambs from central Alberta. **Canadian Veterinary Journal** 43: 775-777.

23. **Shirakashi**, S and CP **Goater**. 2001. Brain-encysting parasites affect visually-mediated behaviours of fathead minnows. **EcoScience** 8: 289-293.

22. Scrimgeour, GJ, WM Tonn, CA Paszkowski and CP **Goater**. 2001. Benthic macroinvertebrate biomass and wildfires: evidence for short and long-term enrichment of boreal subarctic lakes. **Freshwater Biology** 46: 367-378.

21. **Sandland** GJ and CP **Goater**. 2001. Parasite-induced variation in host morphology: brain-encysting worms in fathead minnows. **Journal of Parasitology** 87: 267-272.

20. **Sandland**, GJ, **Goater**, CP and AJ Danylchuk. 2001. Population dynamics of *Ornithodiplostomum ptychocheilus* metacercariae in fathead minnows (*Pimephales promelas*) from 4 northern-Alberta lakes. **Journal of Parasitology** 87: 744-748.

19. Goater, TM and CP **Goater**. 2001. Ecological monitoring and assessment network (EMAN) protocols for measuring biodiversity: Parasites of amphibians and reptiles.  
<http://www.ec.gc.ca/faunescience-wildlifescience/default.asp?lang=En&n=B15A9FC2-1>

18. **Sandland**, GJ and CP **Goater**. 2000. Intensity-dependent development of *Ornithodiplostomum ptychocheilus* metacercariae in fathead minnows. **Journal of Parasitology** 86: 1056-1060.

17. **Goater**, CP & RE Vandenboos. 1998. Effects of larval history and lungworm infection on the growth and survival of wood frogs. **Herpetologica** 53: 331-338.

16. Ward, PI, CP **Goater** & M Mikos. 1997. Shell variation in sympatric *Lymnaea pergera* and *L. ovata* (Gastropoda: Lymnaeidae) **Biological Journal of the Linnean Society** 61: 139-149.

15. **Goater**, CP & AE Weber. 1996. Factors affecting the distribution and abundance of *Mytilicola intestinalis* in mussels from Vancouver Island, BC. **The Journal of Shellfish Research** 15: 681-684

14. Goater, CP, Goss-Custard JD & CR Kennedy. 1995. Population biology of two species of helminth in oystercatchers, *Haematopus ostralegus*.. **Canadian Journal of Zoology** 73: 296-308.

13. **Goater**, CP. 1994. Growth and survival of post-metamorphic toads: interactions among larval history, density, and parasitism. **Ecology** 75: 2264-2274.

12. **Goater**, CP. 1993. Population biology of *Meiogymnophallus minutus* (Trematoda: Gymnophallidae) in cockles *Cerastoderma edule* from the Exe estuary, England. **Journal of the Marine Biological Association** 73: 163-177.

11. **Goater**, CP, RD Semlitsch & M Bernasconi. 1993. Effects of body size and parasite infection on the locomotory performance of juvenile toads (*Bufo bufo*). **Oikos** 66: 129-136.

10. **Goater**, CP. 1992. Experimental population biology of *Rhabdias bufonis* (Nematoda) in toads: density-dependence in the primary infection. **Parasitology** 104: 179-187.
9. **Goater**, CP & PI Ward. 1992. Negative effects of *Rhabdias bufonis* (Nematoda) on the growth and survival of toads (*Bufo bufo*). **Oecologia** 89: 161-165.
8. **Goater**, CP & AO Bush. 1988. Intestinal helminth communities in long-billed curlews: the importance of congeneric host specialists. **Holarctic Ecology** 11:140-145.
7. **Goater**, CP & AO Bush. 1986. Nestling birds as prey of long-billed curlews. **Canadian Field Naturalist** 100: 263-264.

### Review Chapters in texts

6. Marcogliese, DJ and CP **Goater**. 2015. An overview of the history and advances in the population ecology of parasites . *In A Century of Parasitology. Edited by J Janovy and GW Esch.* Wiley-Blackwell, New York. (In Press)
5. Wisenden, BD, **Goater**, CP, and James, CT. 2009. Behavioral defenses against parasites and pathogens. *In: Fish Defenses vol 2* (eds. C. Zaccone, A. Perriere, A. Mathis & G. Kapoor). pp. 151-168. Enfield, USA: Science Publishers.
4. **Goater**, CP & JC Holmes. 1997. Parasite-mediated natural selection. In Host-parasite evolution: General principles and avian models. pp. 9-29. Edited by D Clayton and J Moore. Oxford University Press, Oxford.
3. Doster, G & CP **Goater**. 1997. Sampling protists and helminths. In Host-parasite evolution: General principles and avian models. Edited by D Clayton and J Moore. pp. 396-418. Oxford University Press, Oxford.
2. Goss-Custard, JD, CP **Goater**, JB Hulscher, RHD Lambeck & C Swennen. 1996. Surviving the winter. In The Oystercatcher: Behaviour and Ecology. Edited by JD Goss-ustard. Oxford University Press. Oxford.

### Book Reviews

- Goater**, CP. 2002. Parasitism: the ecology and evolution of intimate interactions. By C. Combes, University of Chicago Press, 728 p. **EcoScience** 9: 552-553.
- Goater**, CP. 2006. Parasite Biodiversity. By R. Poulin and S. Morand. Smithsonian Books, Washington. 216 p. **Journal of Parasitology** 92: 676.

### Popular articles

- Goater, TM and CP **Goater**. 1998. Paddling with Peregrines: the magic of Lake Athabasca's North Shore. *Kanawa* (winter): 3-8.

## INVITED SEMINARS

**Goater, CP.** 2014. Ecological epidemiology of a body snatcher: the lancet liver fluke in Cypress Hills, Alberta, Canada. Dept. Biology, University of Saskatchewan. June, 2014.

Goater, CP. 2014. From zombie ants to messed-up minnows: the ecology of behaviour-manipulating parasites. Canadian Centre for Behavioural Neuroscience, University of Lethbridge, May, 2014.

**Goater, CP.** 2013. Ecological epidemiology of an unlikely invader: the lancet liver fluke, *Dicrocoelium dendriticum* in Cypress Hills, Alberta, Canada. Associate Editors Symposium, 88<sup>th</sup> Annual Meeting of the American Society of Parasitologists. Quebec City, 26-29 June, 2013.

**Goater, CP.** 2013. How parasites rule their world, and ours. Probus Club of Lethbridge. 17 June, 2013.

**Goater, CP.** 2012. From zombie ants to messed-up minnows: the ecology of manipulating parasites. Minnesota State University at Moorhead. 24 September, 2012.

**Goater, CP.** 2012. How parasites rule their world, and ours. 31<sup>st</sup> Annual Fuglestad Lecture in Biological Sciences. Concordia University, Minnesota. 12 November, 2012.

**Goater, CP.** 2012. Parasites and pathogens in Alberta's aquatic animals: hidden fauna is important. 12 Feb., 2012. Wildlife in the Wind Seminar Series, Alberta Conservation Association, Lethbridge, AB.

**Goater, CP.** 2012. Invasion of the bodysnatchers: how parasites rule their world, and ours. Biological Sciences Undergraduate Seminar Series, U of Lethbridge.

**Goater, CP.** 2011. Invasion of the bodysnatchers. Southern Alberta Naturalists, 15 March, 2011. Medicine Hat.

**Goater, CP.** 2008. Experimental ecology of a model host-parasite interaction. Fisheries Society of the British Isles, Special Symposium: Parasite-mediated natural selection in Fish – from genes to ecosystems. 25-30 July, 2008, Cardiff University, Cardiff, Wales.

**Goater, CP.** 2008. Metacercariae, minnows, and myths: the ecology and evolution of a model host-parasite interaction. Associate Editors Symposium: Dogma in parasite ecology, evolution and genetics. 83 Annual Meeting of the American Society of Parasitologists, 18-22 June, 2008. Arlington, Texas.

**Goater, CP.** 2004. Altered behaviour and pathology of trematode-infected minnows. Invited Symposium Speaker for 'Parasites and altered host phenotypes: Do parasites really rule the world?' 30<sup>th</sup> Annual Meeting of the Canadian Society of Zoologists, Acadia University, Nova Scotia, 12-16 May, 2004.

**Goater, CP.** 2004. Chewing the fathead: Interactions between a brain-encysting parasite and its fish host. Invited Guest Speaker: Marine Ecology Progress Series, Bamfield Marine Station, Bamfield, BC. 2 December, 2004.



## PRESENTATIONS AT PROFESSIONAL MEETINGS (SINCE 2006)

van Paridon, BJ, **Goater**, CP, Colwell, D, & Gilleard, J. 2013. Invasion pathway and transmission dynamics of the invader *Dicrocoelium dendriticum* within cattle and wildlife in Cypress Hills Park, Alberta. 58<sup>th</sup> Annual Meeting of American Association of Veterinary Parasitologists, Chicago IL. **AAVP-Bayer Best Student Paper Award**

Beck, MA, Kienzle SW, **Goater** CP, Colwell, DD. 2013. Assessing risk: Spatial trends and environmental risk factors for an emerging liver fluke of sympatric host species in Alberta, Canada. 24<sup>th</sup> International Conference of the World Association for the Advancement of Veterinary Parasitology. Perth, Australia.

Beck, MA, **Goater** CP, Colwell, DD. 2013. Age-related patterns of infection for an invasive fluke in free-ranging wapiti (*Cervus Canadensis*) in Alberta. Canada. 24<sup>th</sup> International Conference of the World Association for the Advancement of Veterinary Parasitology. Perth, Australia.

Beck, MA, Kienzle SW, **Goater** CP, Colwell, DD. 2013. Where's the risk? Spatial epidemiology of gastrointestinal parasitism in Alberta beef cattle. American Association of Veterinary Parasitologists 58th Annual Meeting. Chicago, IL.

Beck, MA, Kienzle, SW, **Goater**, CP & DD Colwell. 2012. Identification of environmental risk factors for an emerging liver fluke in sympatric host species in Cypress Hills Park, Alberta. 57<sup>th</sup> Annual Meeting of the American Association of Veterinary Parasitologists, San Diego, CA. **Runner-up, Best Student Presentation Award**

van Paridon, BJ, **Goater**, CP, Colwell, CP & JS Gilleard. 2012. Invasion pathway of introduced lancet liver fluke, *Dicrocoelium dendriticum* into cattle and wildlife in Cypress Hills Park, Alberta. 57<sup>th</sup> Annual Meeting of the American Association of Veterinary Parasitologists, San Diego, CA. **Runner-up, Best Student Presentation Award**

Colwell, DD, **Goater**, CP, Beck, MA, K Sullivan. 2012. Lancet liver fluke (*Dicrocoelium dendriticum*) in cattle and sheep: worm survival, growth, and host responses. 57<sup>th</sup> Annual Meeting of the American Association of Veterinary Parasitologists, San Diego, CA.

Sullivan, K, **Goater**, CP & DD Colwell. 2012. Growth and reproduction of a generalist parasite in alternative hosts: *Dicrocoelium dendriticum* in sheep versus cattle. Annual Luke Stebbins Undergraduate Symposium. **Best Student Presentation Award.**

Ortega, R & **Goater**, CP. 2011. Host-related and between-lake variation in prevalence and intensity of *Ichtyocotylurus erraticus* metacercariae in lake whitefish (*Coregonus clupeaformis*). Annual Luke Stebbins Undergraduate Symposium. December, 2011, U of Lethbridge. **2<sup>nd</sup> Prize for Best Student Presentation.**

Colwell, DD, Thomson MA, **Goater** CP. 2011. Zombie ants – parasitic manipulation by the liver fluke *Dicrocoelium dendriticum*. Symposium 5: Recent Advances and Issues with Vectors of Animal Diseases/Zoonoses. Society for Vector Ecology. Flagstaff, Arizona.

Thomson MA, **Goater** CP, Colwell DD. 2011. Transmission biology of an emerging parasite in co-grazing cattle and wildlife population in Cypress Hills Park, Alberta. 5<sup>th</sup> Annual Graduate Multidisciplinary Conference. Lethbridge, AB. **Best Student Presentation Award**.

Thomson MA, Kienzle SW, **Goater** CP, Colwell, DD. 2011. Landscape epidemiology of an emerging parasite: The lancet liver fluke (*Dicrocoelium dendriticum*) in Cypress Hills Park, Alberta. American Society of Parasitologists 86<sup>th</sup> Annual Meeting. Anchorage, AK.

Thomson MA, Kienzle SW, **Goater** CP, Colwell, DD. 2011. Landscape epidemiology of an emerging parasite: The lancet liver fluke (*Dicrocoelium dendriticum*) in Cypress Hills Park, Alberta. American Society of Parasitologists 86<sup>th</sup> Annual Meeting. Anchorage, AK.

Stumbo, A, James, C, **Goater**, CP, Wisenden, B. 2011. Safety in numbers: effects of trematode cercariae on shoaling behavior of minnows. American Society of Parasitologists 86<sup>th</sup> Annual Meeting. Anchorage, AK. **Best Student Presentation Award**.

Thomson MA, **Goater** CP, Colwell DD. 2011. Epizootiology of the emergent lancet liver fluke (*Dicrocoelium dendriticum*) within a multi-host community in Alberta, Canada. American Association of Veterinary Parasitologists 56<sup>th</sup> Annual Meeting. St. Louis, MO. **Best Student Presentation Award**.

Thomson, MA, **Goater** CP, Colwell DD. 2011. Epizootiology of the emergent lancet liver fluke (*Dicrocoelium dendriticum*) within a multi-host community in Alberta, Canada. 23<sup>rd</sup> International Conference of the World Association for the Advancement of Veterinary Parasitology. Buenos Aires, Argentina. *Poster*

\*Matisz, C. and CP **Goater**. 2010. Migration, site selection, and development of *Ornithodiplostomum* sp. metacercariae (Digenea: Strigeoidea) in fathead minnows (*Pimephales promelas*). 85<sup>th</sup> Annual Meeting of the American Society of Parasitologists, Colorado Springs, Colorado. June 22-25.

\*Thomson, M, CP **Goater** and DD Colwell. 2010. Circulation of the 'little liver fluke' (*Dicrocoelium dendriticum*) among potential definitive hosts in western Alberta, Canada. 85<sup>th</sup> Annual Meeting of the American Society of Parasitologists, Colorado Springs, Colorado. June 22-25.

\*Stumbo, A and CP **Goater**. 2010. Trematode-induced oxidative stress in liver tissue of minnows exposed to *Ornithodiplostomum* sp. cercariae. 85<sup>th</sup> Annual Meeting of the American Society of Parasitologists, Colorado Springs, Colorado. June 22-25.

\*Matisz, C. and CP **Goater**. 2008. Migration, pathology, and site selection of *Ornithodiplostomum* metacercariae in the brains of fathead minnows. Fisheries Society of the British Isles, Special Symposium: Parasite-mediated natural selection in Fish – from genes to ecosystems. 25-30 July, 2008, Cardiff University, Cardiff, Wales.

Stumbo\*, AD, Noyes, KJ, James, CT, Wisenden, BD and **Goater**, CP. 2008. Cost of exposure to trematode cercariae and learned recognition and avoidance of parasite risk by fathead minnows. Fisheries Society of the British Isles, Special Symposium: Parasite-mediated natural selection in

Fish – from genes to ecosystems. 25-30 July, 2008, Cardiff University, Cardiff, Wales. **Best Student Poster Award.**

Skotarek\*, S, DD Colwell and CP **Goater**. 2007. Coprological and serological diagnosis of *Anoplocephala perfoliata* in horses from southern Alberta, Canada. 21st International Conference of the World Association for the Advancement of Veterinary Parasitology, University of Ghent, Belgium. 20-24 August, 2007.

Skotarek\*, S, DD Colwell and CP **Goater**. 2007. Coprological and serological diagnosis of *Anoplocephala perfoliata* in horses from southern Alberta, Canada. First North American Parasitology Congress, Merida, Mexico. June 20-26, 2007.

Matisz\*, C and CP **Goater**. 2007. Migration and site selection of *Ornithodiplostomum ptychocheilus* metacercariae in the optic lobes of fathead minnows. First North American Parasitology Congress, Merida, Mexico. June 20-26, 2007. **Best Student Presentation Award.**

James, C, B Wisenden and CP **Goater**. 2007. Components of host epidermis reduce infectivity of trematode cercariae. First North American Parasitology Congress, Merida, Mexico. June 20-26, 2007.

Skotarek, S., DD Colwell\* and CP **Goater**. 2006. Transmission dynamics of the horse tapeworm, *Anoplocephala perfoliata*, in southern Alberta horses. 12<sup>th</sup> International Congress of Parasitology (ICOPA). Glasgow, Scotland. 10-16 August, 2006.

James, C and CP **Goater**. 2006. Schooling as an anti-parasite response for fish exposed to larval trematodes. 32nd Annual Meeting of the Canadian Society of Zoologists, University of Alberta, Edmonton, 3-7 May, 2006.

Pearson, K and C **Goater**. 2006. Effects of introduced fish on the distribution and demography of long-toed salamanders (*Ambystoma macrodactylum*) in Southwest Alberta. 32nd Annual Meeting of the Canadian Society of Zoologists, University of Alberta, Edmonton, 3-7 May, 2006.

Skotarek, S., DD Colwell and CP **Goater**. 2006. Transmission dynamics of the horse tapeworm, *Anoplocephala perfoliata*, in southern Alberta horses. 32nd Annual Meeting of the Canadian Society of Zoologists, University of Alberta, Edmonton, 3-7 May, 2006.

**Goater**, CP and J Taskinen. 2006. Loss of bivalve biodiversity in the Battle River, Alberta, following 11 years of watershed disturbance. Annual meeting of the Alberta Ingenuity Centre for Water Research, University of Calgary, 4 February, 2006.

## PROFESSIONAL SERVICE

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<b>Chairships:</b>	Department of Biological Sciences, U of L	(2006 – 2009)
	U of L MA/M.Sc. Cmt	(2004 – 2007)
	Cameron Award Cmt (Can. Society Zool.)	(2007-2009)
	Henry Baldwin Ward Award Cmt	
	(Amer. Soc. of Parasitology)	(2004-2005)

R. A. Wardle Medal Cmt (Can. Society Zool.)	(2005-2006)
Canadian Society of Zoology (Parasitology and Pathology Section)	(2005-6)
Local Organizing Cmt - 41st Annual Meeting Can. Society of Zool. Lethbridge, AB.	(2002)
Animal Care Cmt, U of L	(2001-2003, 2010-present)

**Editorships:** Associate Editor - Journal of Parasitology, responsible for ‘Ecology’ submissions – 2003 to 2010  
 Associate Editor – Ecoscience, responsible for ‘Parasite Ecology and Evolution’ submissions – 2008 to present.  
 Associate Editor – Parasites and Wildlife, 2012 to present.  
 Consulting Editor – Journal of Parasitology, 2013-present.

**Adjudication Committees:**

NSERC, Major Resources Support Sub-Committee	(2011)
NSERC, Grant Selection Committee (Ecology and Evolution)	(2006 – 2009)
Biodiversity Challenge Grants Policy Cmt	(2003 – 2005)
EcoTrust Advisory Committee	(2001 - 2005)
Grants in Biodiversity Adjudication Cmt	(1998 - 2001)
External examiner – Ph.D. defenses	(2002 and 2008 at Carleton U, 2012 Joensuu U, Finland; 2 X 2014 at U of C; 2014 at U of Saskatchewan)
External Reviewer – Biology Department, Acadia University,	2013

**Other:** A&S Curriculum Coordinating Cmt (01-02)  
 Arts and Science Curriculum Cmt (99-01, 02-03)  
 Arts and Science Executive Cmt (01-02)  
 Search Cmt (Math and Comp Sci, Kinesiology, Chem and Biochem,  
Sociology, Geog)  
 STP Cmt (Management Department) (04)  
 Nicolas-Sheran Park Steering Cmt (98 – ‘00)  
 ca. 25 M.Sc. graduate student committees (2000 – present)  
 10 Ph.D. graduate student committees (2005 - present)

**Reviewer:** Journal of Parasitology (approximately 40 manuscripts/year 2006-2009), Parasitology, International Journal for Parasitology (**awarded Top 10 reviewer in 2009**), Oikos, Oecologia, Ecology and irregular for Proceedings Royal Society, Journal of Wildlife Diseases, Canadian Journal of Zoology and ca. 5 others. I also review from 2-5 grant proposals per year (NSERC, NSF, CFI, Marsden Fund (New Zealand) and Challenge Grants in Biodiversity).