



Biosketch for Graham J. Hickling

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Professional Preparation

University of Canterbury, New Zealand	Zoology	B.Sc. (1 st Class Hons.)	1980
University of Western Ontario, Ontario	Zoology	Ph.D	1987

Appointments

- 2007-present Associate Director, The National Institute for Mathematical and Biological Synthesis, The University of Tennessee, Knoxville
- 2006-present Director, The Center for Wildlife Health, The University of Tennessee, Knoxville TN
- 2005-present Research Associate Professor, Dept. of Forestry, Fisheries & Wildlife, The University of Tennessee, Knoxville TN.
- 2002-2005 Associate Professor, Dept. of Fisheries & Wildlife and Dept. of Large Animal Clinical Sciences, Michigan State University, East Lansing MI.
- 1992-2002 Senior Lecturer, Ecology & Entomology Group, Lincoln University, Lincoln, New Zealand.
- 1987-1992 Research Program Leader - Bovine Tuberculosis, Landcare Research Crown Research Institute, Christchurch, New Zealand.
- 1981-1987 Research Scientist, Forest Animal Ecology Section, Forest Research Institute, Christchurch, New Zealand.

Publications

5 most relevant:

- Hamer, S., Tsao, J., Walker, E., Mansfield, L., Foster, E. and **Hickling, G.J.** Canine sentinels for emerging Lyme disease: tick survey as an alternative to serosurvey. *American Journal of Veterinary Research* (in press for January 2009).
- Fenichel, E.P., Tsao J.I., Jones, M. and **Hickling, G.J.** Fish pathogen screening and its influence on the likelihood of accidental pathogen introduction during fish translocations. *Journal of Aquatic Animal Health* 20: 19-28. **2008.**
- Hamer, S.A., Roy, P.L., **Hickling, G.J.**, Walker, E.D., Foster, E.S., Barber, C.C., Tsao, J.I. Zoonotic pathogens in *Ixodes scapularis*, Michigan. *Emerging Infectious Diseases* 13: 1131-1133. **2007.**
- Diuk-Wasser, M. A.; A. G. Gatewood; M. R. Cortinas; S. Yaremych-Hamer; J. Tsao; U. Kitron; **G. Hickling**; J. S. Brownstein; E. Walker, J. Piesman; and D. Fish. Spatiotemporal patterns of host-seeking *Ixodes scapularis* nymphs (Acari: Ixodidae) in the United States. *J. Med. Entomol.* 43: 166-176. **2006.**
- Reddiex, B.; **Hickling, G.J.**; Norbury, G.L.; Frampton, C.M. Effects of predation and rabbit haemorrhagic disease on population dynamics of rabbits (*Oryctolagus cuniculus*) in North Canterbury, New Zealand. *Wildlife Research* 29: 627-633. **2002.**

5 other:

- Hickling, G.J.**; Reddiex, B; de Monchy, C. Land mammals. Pp. 383-414 in Winterbourn, M.; Knox, G.; Burrows, C. and Marsden, I. *The Natural History of Canterbury* (3rd ed.) Canterbury University Press, Christchurch, NZ. **2008.**

- Gray, M.; Rajeev, S.; Miller, D.; Schmutzer, A.; Burton, E.; Rogers, E. and **Hickling, G.J.** Preliminary evidence that American bullfrogs (*Rana catesbeiana*) are suitable hosts for *Escherichia coli* O157:H7. *Applied & Environmental Microbiology* 73: 4006-4068. **2007.**
- Fenichel, E.P, Tsao J.I., Jones, M. and **Hickling, G.J.** Real options for a precautionary approach to fisheries management. *Fish and Fisheries* 9: 121-137. **2008.**
- Hughey, K.F.D and **Hickling, G.J.** Ecologically based policy evaluation: application to ungulate management in New Zealand. *Environmental Science and Policy* 9: 639-651. **2006.**
- Schulte-Hostedde, A.I., Zinner, B., Millar, J.S. and **Hickling, G.J.** Restitution of mass/size residuals: validating body condition indices. *Ecology* 86: 155-163. **2005.**

Synergistic activities

- Associate Director for Partner Relations at the newly-formed, NSF-funded National Institute for Mathematical and Biological Synthesis at the University of Tennessee; convenor for 2009 NIMBioS working group on Pseudorabies Virus spread by feral swine.
- *Courses developed and taught:* Graduate: Wildlife Disease Ecology and Management; Advanced Wildlife Management; Research Methods in Applied Ecology; Conservation Medicine. Founder of Michigan State University's *Graduate Specialization in Fish and Wildlife Disease Ecology & Conservation Medicine*; Undergraduate: Current Topics in Wildlife Health; Ecology and Management of Wildlife Health; Principles of Ecology; Wildlife Biology; Wildlife Management; Environmental and Organismal Biology (co-taught); Toxicology (co-taught).
- Elected Committee Member, Wildlife Disease Working Group; The Wildlife Society (2006-present)
- Vice-President, New Zealand Ecological Society (1998-2000)
- Editorial Board, *New Zealand Journal of Ecology* (1997-2005)

Collaborators & Other Affiliations

Collaborators and current affiliations (last 48 months):

J. Tsao, Michigan State University, MI	G. Medina-Vogel, Universite Austral, Chile
U. Kitron, University of Illinois, IL	D. Forsyth, CSIRO Victoria, Australia
E. Walker, Michigan State University, MI	S. Riley, Michigan State University, MI
A. Schulte-Hostedde, Laurentian University, ONT	J. Parkes, Landcare Research, NZ
D. Fish, Yale University, CT	J. Brownstein, Harvard University
P. Caley, CSIRO Canberra, Australia	S. Schmitt, MDNR, East Lansing
J. Brown, Univ. Canterbury, New Zealand	D. O'Brien, MDNR, East Lansing
J. Eggleston, Univ. Canterbury, New Zealand	D. Wardle, Landcare Research, NZ
P. Wehi, University of Auckland	B. Rudolph, MDNR, East Lansing

Graduate advisor:

Ph.D. thesis advisor: John S. Millar, University of Western Ontario

Major advisor for 6 Ph.D and 22 Master's students:

Ph.D thesis advisor (past 48 months)

Sarah Hamer, Michigan State University
Gonzalo Medina-Vogel, Lincoln University
Graham Nugent, Lincoln University
David Morgan, Lincoln University
Ben Reddiex, Lincoln University

Masters advisor (past 48 months)

Jessica Harmon, University of Tennessee
Michelle Rosen, University of Tennessee
Taylor Fielden, University of Tennessee
Ann Winters, Michigan State University
Eli Fenichal, Michigan State University