

Heather Coreen Proctor - Curriculum Vitae - Full
(revised 9 Jan 2022)

BIOGRAPHICAL INFORMATION

NAME: Heather Coreen Proctor

ADDRESS: Department of Biological Sciences
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PRESENT POSITION: Professor
Department of Biological Sciences
University of Alberta

PLACE OF BIRTH: Edmonton, Alberta, Canada

CITIZENSHIP: Canadian

EDUCATION

1992 Ph.D. Zoology, University of Toronto. Thesis title: The evolution of sperm transfer behaviour in water mites (Acari: Parasitengona). Supervisors: R.L. Baker & D.T. Gwynne

1988 M.Sc. Biological Sciences, University of Calgary. Thesis title: The life history and predatory biology of *Unionicola crassipes* (Müller) (Acari: Unionicolidae) in an Albertan foothills pond. Supervisor: G. Pritchard

1986 B.Sc. (Honours) Zoology, University of Alberta. Honours thesis title: Natural history and ecology of the freshwater mites. Supervisor: H.F. Clifford

ACADEMIC POSITIONS HELD

July 2007 – present: Professor, Department of Biological Sciences, University of Alberta, Alberta, Canada. Associate Chair Research, 1 July 2008 – 30 June 2010

July 2002 – June 2007: Associate Professor, Department of Biological Sciences, University of Alberta, Alberta, Canada.

1997 – June 2002: Lecturer, Environmental Sciences, Griffith University; Queensland, Australia

Adjunct, Dept. of Zoology & Entomology, University of Queensland

1994 – 1997: Assistant Professor, Department of Biology, Queen's University, Kingston, Ontario, Canada.

SCHOLARSHIPS AND AWARDS [incomplete]

2021 - University of Alberta Award for Outstanding Mentorship in Undergraduate Research & Creative Activities

2014 – Science Teaching Honour Roll, Faculty of Science, University of Alberta

2003 - Entomological Society of Canada C. Gordon Hewitt award for outstanding achievement in entomology by an individual under 40

1994-1997 - NSERC Women's Faculty Award

1992-1994 - NSERC Postdoctoral Fellowship

1986-1990 - NSERC 1967 Scholarship

1986 - Lieutenant-Governor's Gold Medal in Science, University of Alberta

1985 - NSERC Summer Research Award (undergraduate), University of Alberta

RESEARCH HISTORY

2002 -present Associate Professor and Professor (as of 2007), Biological Sciences, University of Alberta: water mite ecology and evolution; ecology and systematics of feather mites

1997 - 2002 Lecturer, AES, Griffith University, Queensland, Australia: community ecology of soil- and stream-dwelling invertebrates; ecology of feather mites; sexual selection in mites

1994-1997 Assistant Professor, Biology, Queen's University: mating behaviour of mites, pollination biology of orchids

1993-1994 Editor/science writer for "Butterflies of Alberta", Provincial Museum of Alberta

1993-1994 NSERC Postdoctoral Fellow, Department of Entomology, University of Alberta: mating behaviour of water mites

1993 Collecting and field work in Southeast Asia: jumping spiders and other arachnids

1992-1993 NSERC Postdoctoral Fellow, Department of Biological Sciences, University of Calgary: pollination biology of orchids

1991 Field assistant for James Fullard (University of Toronto): insect collecting in French Polynesia

1988-1991 Ph.D. student, Department of Zoology, University of Toronto

1986-1988 M.Sc. student, Department of Biological Sciences, University of Calgary

1986 Illustrated keys to Aquatic Invertebrates of Alberta by H.F. Clifford, U. of Alberta

1985 NSERC Summer Undergraduate Fellowship: HF Clifford, survey of water mites of Alberta

1982-1986 B.Sc. Honours student, Department of Zoology, University of Alberta

COMPETITIVE RESEARCH GRANTS

- 2020 April 1 – 2022 March 31 - Division of labour in trematode parasites and its effects on trematode ecology. Alberta Conservation Association Grants in Biodiversity. \$11,555 (Co-PI's Monica Ayala-Diaz, Ph.D. student; H. Proctor)
- 2019 May 1 – 2020 April 30 - How to fit in: A lesson from avian-dwelling vane mites. \$2000. Taverner Student Award from the Society of Canadian Ornithologists (Co-PI's Andrew Cook, Ph.D. student; H. Proctor)
- 2019 April 1 – 2024 March 31 - Invertebrates as housekeepers and bodyguards: exploring the ecology of terrestrial and freshwater cleaning and defensive symbioses. Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant. \$235,000 (\$47,000/yr for 5 years) plus NSERC Discovery Accelerator Supplement \$120,000 (\$40,000/yr for 3 years).
- 2019 April 1 – 2021 March 31 - How many mites can dance on a pin-feather? Correlating feather microstructure with orientation of vane-dwelling feather mites and body size of mites and their host birds: \$15,900 Alberta Conservation Association Grants in Biodiversity (Co-PI's Andrew Cook, Ph.D. student; H. Proctor)
- 2017 April 1 – 2019 March 31 - Assessing the relative utility of mesostigmatid vs. oribatid mites as bioindicators of disturbance in forested areas of Alberta, Canada: \$8640 Alberta Conservation Association Grants in Biodiversity (Co-PI's Matthew Meehan, M.Sc. student; H. Proctor).
- 2015 April 1 – 2017 March 31 - Disentangling the *Gammarus*-acanthocephalan system in Edmonton wetlands from ecological and molecular perspectives: \$14,750 Alberta Conservation Association Grants in Biodiversity (Co-PI's Zhuoyan Song, Ph.D. student; H. Proctor).
- 2014 April 1 – 2015 March 31 - Distribution patterns of non-biting midges (Diptera: Chironomidae) in Alberta: \$10,000 Alberta Biodiversity Monitoring Institute grant (Co-PI's Qi Liu, M.Sc. student; H. Proctor) [second award from ABMI for this project]
- 2013 May 1 – 2014 April 30 - Diversity and distribution patterns of non-biting midges (Diptera: Chironomidae) in Alberta: \$9520 ACA Grants in Biodiversity (Co-PI's Qi Liu, M.Sc. student; H. Proctor).
- 2013 April 1 – 2014 March 31 - Distribution patterns of non-biting midges (Diptera: Chironomidae) in Alberta: \$10,000 Alberta Biodiversity Monitoring Institute grant (Co-PI's Qi Liu, M.Sc. student; H. Proctor).
- 2013 April 1 – 2018 March 31 – Habitat and meta-habitat: influence of environment and colonization history on co-distribution of hosts and symbionts. Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant. \$27,000/yr for 5 years.
- 2009 May 1 -2011 March 31 – Iron treatment: a potential remediation strategy for Alberta's eutrophic fresh waters. \$170,492 total (~\$44,000 for Proctor aspect) Alberta Water Research Institute (Principal PI Rolf Vinebrooke, Co-Investigator HP).
- 2009-2011 - Farming of subterranean Sternorrhyncha (Hemiptera) by ants (Hymenoptera: Formicidae) and its effect on temperate grassland vegetation. \$10,084 ACA Grants in Biodiversity (Co-PI Jeffrey Newton, Ph.D. student).
- 2008-2013 – NSERC Discovery Grant: Sexual selection in mites: copulation, conflict and complexity. \$23,640/yr for 5 years.
- 2007 – autoclave for Bamfield Marine Sciences Centre: \$38,000 \$39,766 NSERC Research Tools and Instruments (Head PI Richard Peters, plus 7 others).

- 2007 – 4wd truck for field research: \$39,766 NSERC Research Tools and Instruments (Co-PI's Bill Tonn, Cindy Paszkowski)
- 2007 – Co-invasion genetics of the crayfish *Orconectes virilis* and its branchiobdellid worm symbionts: \$16,371 ACA Grants in Biodiversity (Co-PI's Bronwyn Williams, Ph.D. student; Dave Coltman, principal supervisor).
- 2006 – Understanding and mitigating the impacts of altered temperature and precipitation regimes on the function and biodiversity of rangeland communities: \$238,708 (2006), \$172,865 (2007), \$185,807 (2008), total \$597,308 NSERC Strategic (STPGP 336109). Head PI JC Cahill (Biol Sci, U of Alberta), Co-PIs Ed Bork (AFNS, U of A), Scott Chang (Ren Res, U of A), Heather Proctor (Biol Sci, U of A), Scott Wilson (U of Regina).
- 2006 – Nasal mites of Albertan birds: \$4500 ACA Grants in Biodiversity (Co-PI Wayne Knee, M.Sc. student)
- 2004 – Soil invertebrates of boreal herbaceous plants: \$6000 ACA Grants in Biodiversity; \$2000 Circumpolar/Boreal Alberta Research Grant Award (Co-PI Danica Belter, M.Sc. student)
- 2004 (1) University of Alberta FSIDA Grant “Feather mites of Colombian birds” (\$5400 to assist with travel and accommodation of Dr. Mauricio Barreto from the Universidad del Valle, Colombia).
- 2003 – 2008 (1) NSERC Discovery Grant: Proximate and ultimate controls of diversity: tests using mites (\$18 000/year originally for 4 years, extended to 5 years in 2006).
- 2003 (1) Canadian Biodiversity Network, co-recipient with Felix Sperling (U of A, Bio Sci) “Species Analyst training grant”, Environment Canada (Feb 2003: \$5000)
- 2002 - 2004 (1) ARC Discovery Grant, co-recipient with D. Walter, University of Queensland: Half a genome is better than none: the evolution of haplodiploidy in mites. (2002: \$44 000; 2003: \$47 000; 2004: \$49 000) (ARC Project I.D. DP0210552).
- 1999 (1) Griffith University Research Grant Scheme: Water mites in assessments of stream invertebrate diversity: is neglect of a subphylum justified? (\$5305).
(2) Griffith University Research Grant Scheme: (with D. Jones) Symbiotic arthropods as indicators of demographic and social histories of Australian Brush-Turkeys (\$7107).
- 1998 (1) Griffith University Research Grant Scheme: Water mites in assessments of stream invertebrate diversity: is neglect of a subphylum justified? (\$6887).
- 1996 (1) Australian Research Council small grant, co-recipient with Dr. David Walter, Univ. of Queensland): The evolution of feeding and reproductive behaviours in mites: evidence from early derivative taxa in Australia (\$13 000).
- 1995 (1) Advisory Research Committee grant, Queen's University : Pollination biology of bog orchids (\$2000 Cdn). (2) Advisory Research Committee grant, Queen's University: Aposematism in water mites (\$3000 Cdn).
- 1994 (1) NSERC Operating Grant : Male gamete-packaging and -transfer strategies in plants and animals (\$38 000/yr Cdn, 3 yrs); (2) Advisory Research Committee grant, Queen's University: Mating behaviour of primitive Australian mites (\$2643 Cdn).

CONSULTANCIES & CONTRACTS

- Aug 2004-April 2005 “Grasslands National Park aquatic invertebrate survey” (client: Grasslands National Park, Saskatchewan; total project revenue - \$15 000).
- Sept 2000 - Dec 2000 "Soil and leaf-litter invertebrates associated with rehabilitated tailings at Kidston Gold Mine" (client: Centre for Mined Land Rehabilitation, University of Queensland; total project revenue - \$7611 excluding GST)

- Jan 2000- Dec 2000 “Interactive key to soil mites of the suborders Prostigmata and Mesostigmata” (with senior partner David Walter, University of Queensland) (client: ABRS; total project revenue \$32 000)
- Nov 1998 - June 1999 "Macroinvertebrate assemblages in ponds produced by strip-mining at BHP Moura” (client: Centre for Mined Land Rehabilitation, University of Queensland; total project revenue \$11 301).

COOPERATIVE RESEARCH CENTRE REPORTS (AUSTRALIA)

- Nov 1999 - Sept 2001 "Distribution of aquatic mites (Arachnida: Acari) in Australia. Report from a Conservation Program Scoping Study for the Cooperative Research Centre for Freshwater Ecology. Delivered Sept 2001 (CRC funding \$3000).

PUBLICATIONS:

REFEREED JOURNAL ARTICLES

1. **Proctor**, H. and G. Pritchard. 1989. Neglected predators: water mites (Acari: Parasitengona: Hydrachnellae) in freshwater communities. *Journal of the North American Benthological Society* 8: 100-111.
2. Proctor, H.C. 1989. Occurrence of protandry and a female-biased sex-ratio in a sponge-associated water mite (Acari: Unionicolidae). *Experimental and Applied Acarology* 7: 289-297.
3. **Proctor**, H.C. and G. Pritchard. 1990. Variability in the life history of *Unionicola crassipes*, a sponge-associated water mite. *Canadian Journal of Zoology* 68: 1227-1232.
4. **Proctor**, H.C. and G. Pritchard. 1990. Prey detection by the water mite *Unionicola crassipes* (Acari: Unionicolidae). *Freshwater Biology* 23: 271-290.
5. Proctor, H.C. 1991. Courtship in the water mite *Neumania papillator*: males capitalize on female adaptations for predation. *Animal Behaviour* 42:589-598.
6. Proctor, H.C. 1991. The evolution of copulation in water mites: a comparative test for nonreversing characters. *Evolution* 45: 558-567.
7. Johnson, D.L. and H.C. **Proctor**. 1991. Effects of phytoseiid predators on the sex ratio of the spider mite *Panonychus ulmi*. *Canadian Journal of Zoology* 69: 208-212.
8. Proctor, H.C. 1992. Mating and spermatophore morphology of water mites (Acari: Parasitengona). *Zoological Journal of the Linnean Society* 106: 341-384.
9. Proctor, H.C. 1992. Discord between field and laboratory sex ratios of the water mite *Neumania papillator* Marshall (Acari: Unionicolidae). *Canadian Journal of Zoology* 70: 2483-2486.
10. Proctor, H.C. 1992. Effect of food deprivation on mate-searching and spermatophore production in male water mites (Acari: Unionicolidae). *Functional Ecology* 6: 661-665.
11. Proctor, H.C. 1992. Cohabitation of six species of spiders in webs of *Cyrtophora moluccensis* (Araneae, Araneidae) in Moorea, French Polynesia. *Journal of Arachnology* 20: 144-145.

12. Proctor, H.C. 1992. Sensory exploitation and the evolution of male mating behaviour: a cladistic test using water mites (Acari: Parasitengona). *Animal Behaviour* 44: 745-752.
13. Baker, R.L., M.R.L. Forbes and H.C. **Proctor**. 1992. Sexual differences in development and behaviour of larval *Ischnura verticalis* (Odonata: Coenagrionidae). *Canadian Journal of Zoology* 70: 1161-1165.
14. Proctor, H.C. 1993. Mating biology resolves trichotomy for cheliferoid pseudoscorpions (Pseudoscorpionida, Cheliferoidea). *The Journal of Arachnology* 21: 156-158.
15. **Proctor**, H.C. and L.D. Harder. 1994. Pollen load, capsule weight and seed production in three orchid species. *Canadian Journal of Botany*. 72: 249-255.
16. **Proctor**, H.C. and B.P. Smith. 1994. Mating behaviour of the water mite *Arrenurus manubriator* (Acari: Arrenuridae). *Journal of Zoology, London* 232: 473-483.
17. **Proctor**, H.C., R.L. Baker, and D.T. Gwynne. 1995. Mating behaviour and spermatophore morphology: a comparative test of the female choice hypothesis. *Canadian Journal of Zoology*, 73: 2010-2020.
18. **Proctor**, H.C. and L.D. Harder. 1995. Effect of pollination success on floral longevity in the orchid *Calypso bulbosa* (Orchidaceae). *American Journal of Botany*, 82: 1131-1136.
19. Proctor, H.C. 1997. Mating behavior of *Physolimnesia australis* (Halik) (Acari: Limnesiidae), a non-parasitic, rotifer-eating water mite from Australia. *Journal of Arachnology* 25: 321-325.
20. **Proctor**, H.C., H.M. Gray and B.M. OConnor. 1997. Subaquatic mites (Acari: Astigmata) associated with adult freshwater leeches (Hirudinea: Erpobdellidae). *Journal of Natural History* 31: 539-544.
21. Garga, N., H. **Proctor** and R. Belczewski. 1997. Leg size affects mating success in *Tarsonemus confusus* Ewing (Prostigmata: Tarsonemidae). *Acarologia* 38: 369-375.
22. Walter, D.E. and H. C. **Proctor**. 1998. Feeding behaviour and phylogeny: observations on early derivative Acari. *Experimental and Applied Acarology* 22: 39-50.
23. Proctor, H.C. 1998. Indirect sperm transfer in arthropods. *Annual Review of Entomology* 43: 153-174.
24. Proctor, H.C. 1998. Effect of pollen age on fruit set, fruit weight, and seed set in three orchid species. *Canadian Journal of Botany* 76: 420-427.
25. Walter, D.E. and H.C. **Proctor**. 1998. Predatory mites in tropical Australia: local species richness and complementarity. *Biotropica* 30: 72-81.
26. Proctor, H.C. 1999. *Gallilichus jonesi* sp. n. (Acari: Ascouracaridae), a new species of feather mite from the quills of the Australian Brush-Turkey (Aves: Megapodiidae). *Australian Journal of Entomology*, 38: 77-84.
27. **Proctor**, H.C. and I. Owens. 2000. Mites and birds: diversity, parasitism and coevolution. *Trends in Ecology and Evolution* 15: 358-364.

28. Proctor, H.C. 2001. Extracting aquatic mites from stream substrates: a comparison of three methods. *Experimental and Applied Acarology* 25: 1-11.
29. Proctor, H.C. 2001. *Megninia casuaricola* sp. n. (Acari: Analgidae), the first feather mite from a cassowary (Aves: Struthioniformes: Casuariidae). *Australian Journal of Entomology* 40: 335-341.
30. Williams, C.R. and H.C. **Proctor**. 2002. Parasitism of mosquitoes (Diptera: Culicidae) by larval mites (Acari: Parasitengona) in Adelaide, South Australia. *Australian Journal of Entomology* 41: 161-163.
31. Göth, A and H. **Proctor**. 2002. Pecking preferences in hatchlings of the Australian brush-turkey, *Alectura lathami* (Megapodiidae): the role of food type and colour. *Australian Journal of Zoology* 50: 93-102.
32. **Proctor, H.**, K. Montgomery, K. Rosen and R.L. Kitching. 2002. Are tree trunks habitats or highways? A comparison of oribatid mite assemblages from hoop-pine bark and litter. *Australian Journal of Entomology* 41: 294-299.
33. Proctor, H.C. 2003. Feather mites (Acari: Astigmata): ecology, behavior and evolution. *Annual Review of Entomology* 48: 185-209.
34. Nakamura, A., H. **Proctor** and C.P. Catterall. 2003. Using soil and litter arthropods to assess the state of rainforest restoration. *Ecological Management & Restoration* 4 (supplement): S20-S28.
35. Mironov, S.V., J. Dabert and H. **Proctor**. 2003. New feather mites of the family Pterolichidae (Acari: Pterolichoidea) from parrots (Aves: Psittaciformes) in Australia. *Australian Journal of Entomology* 42: 185-202.
36. Fan Q.-H., Walter D.E. and **Proctor** H.C. 2003. A review of the family Barbutiidae (Acari: Raphignathoidea), with the description of two new species from Australia. *Systematic & Applied Acarology* 8: 107-130.
37. Kanowski, J., Catterall, C. P., Wardell-Johnson, G. W., **Proctor**, H. and Reis, T. 2003. Development of forest structure on cleared rainforest land in eastern Australia under different styles of reforestation. *Forest Ecology and Management* 183: 265-280.
38. Fan, Q.-H., Walter, D.E., and **Proctor**, H. 2003. A review of the genus *Ledermuelleriopsis* Willmann (Acari: Prostigmata: Stigmaeidae). *Invertebrate Systematics* 17: 551-574.
39. **Proctor**, H.C., J. Kanowski, G. Wardell-Johnson, T. Reis and C.P. Catterall. 2003. Does diversity beget diversity? A comparison between plant and leaf-litter invertebrate richness from pasture to rainforest. *Records of the South Australian Museum Monograph Series* No. 7: 267-274.
40. **Proctor**, H.C. and Jones, D.N. 2004. Geographical structuring of feather mite assemblages from the Australian brush-turkey (Aves: Megapodiidae). *Journal of Parasitology* 90: 60-66.
41. Boulton, A., M. Harvey and H. **Proctor**. 2004. Of spates and species: responses by interstitial water mites to simulated spates in a subtropical Australian river. *Experimental and Applied Acarology* 34: 149-169.

42. **Proctor**, H.C. and N. Garga. 2004. Red, distasteful water mites: did fish make them that way? *Experimental and Applied Acarology* 34: 127-147.
43. Lian Pin Koh, R.R. Dunn, N.S. Sodhi, R.K. Colwell, H.C. **Proctor**, and V.S. Smith. 2004. Species coextinctions and the biodiversity crisis. *Science* 305: 1632-1634.
44. Mironov, S.V. and H.C. **Proctor**. 2005. A new feather mite genus of the family Psoroptoididae (Acari: Analgoidea) from cassowaries. *Journal of Natural History* 39: 3297-3304.
45. Bochkov, A.V., G. Williams and H. **Proctor**. 2005. First record of *Picobia zumpti* (Acari: Syringophilidae) from quills of the rock pigeon in North America and description of the male. *Belgian Journal of Entomology* 7: 121-127.
46. **Proctor**, H and A. Grigg. 2006. Aquatic invertebrates in final void water bodies at an open-cut coal mine in central Queensland. *Australian Journal of Entomology* 45: 107-121.
47. Dabert, J., S.V. Mironov and H. **Proctor**. 2006. A new species of the genus *Titanolichus* Gaud & Atyeo, 1996 (Acari: Astigmata: Pterolichidae) from the endangered orange-bellied parrot *Neophema chrysogaster* (Aves: Psittaciformes) from Australia. *Australian Journal of Entomology* 45: 206-214.
48. Beaulieu, F., D. E. Walter, H. C. **Proctor**, R. L. Kitching and F. Menzel. 2006. Mesostigmatid mites (Acari: Mesostigmata) on rainforest tree trunks: arboreal specialists, but substrate generalists? *Experimental and Applied Acarology* 39: 25-40.
49. Knee, W. and H. **Proctor**. 2006. Keys to the families and genera of blood and tissue feeding mites associated with Albertan birds. *Canadian Journal of Arthropod Identification* 2: 1-18.
50. **Proctor**, H., G. Zimmerman and K. Meyer. 2006. A new feather mite, *Aetacarus elanoides* sp. n. (Acari: Gabuciniidae), from the Swallow-tailed Kite *Elanoides forficatus* (Linnaeus) (Falconiformes: Accipitridae; Perninae). *Zootaxa* 1252: 37-47.
51. Grimbacher, P.S., C.P. Catterall, J. Kanowski and H.C. **Proctor**. 2007. Responses of ground-active beetle assemblages to different styles of reforestation on cleared rainforest land. *Biodiversity and Conservation* 16: 2167-2184.
52. Boeckner, M. and H. **Proctor**. 2005*. Water-bears from the Rocky Mountains: a first look at Alberta's tardigrade fauna. *Canadian Field Naturalist* 119: 586-588 [*note: although issue is dated 2005, it was not actually published until May 2007]
53. Knee, W. and H. **Proctor**. 2007. Host records for the northern fowl mite, *Ornithonyssus sylviarum* (Mesostigmata: Macronyssidae), from birds of North America (Canada, USA, and Mexico). *Journal of Medical Entomology* 44: 709-713.
54. Mironov, S.V., H.C. **Proctor**, M. Barreto and G. Zimmerman. 2007. New genera and species of feather mites of the family Gabuciniidae (Astigmata: Pterolichoidea) from New World raptors (Aves: Falconiformes). *The Canadian Entomologist* 139: 757-777.
55. Kelly, J.R., H. **Proctor** and J.P. Volpe. 2008. Intertidal community structure differs significantly between substrates dominated by native eelgrass (*Zostera marina* L.) and

- adjacent to the introduced oyster *Crassostrea gigas* (Thunberg) in British Columbia, Canada. *Hydrobiologia* 596: 57-66.
56. Gentes, M.-L., H. **Proctor** and G. Wobeser. 2007. Demodicosis in a mule deer (*Odocoileus hemionus hemionus*) from Saskatchewan, Canada. *Journal of Wildlife Diseases* 43: 758–761.
57. Galván, I., E. Barba, R. Piculo, J. L. Cantó, V. Cortés, J. S. Monrós, F. Atiénzar and H. **Proctor**. 2008. Feather mites and birds: an interaction mediated by uropygial gland size? *Journal of Evolutionary Biology* 21: 133-144.
58. Knee, W., H. **Proctor** and T. Galloway. 2008. Survey of nasal mites (Rhinonyssidae, Ereyneidae, and Turbinoptidae) associated with birds in Alberta and Manitoba, Canada. *The Canadian Entomologist* 140: 364-379.
59. Mironov, S.V. and H.C. **Proctor**. 2008. The probable association of feather mites of the genus *Ingrassia* (Analgoidea: Xolalgidae) with the blue penguin *Eudyptula minor* (Aves: Sphenisciformes) in Australia. *Journal of Parasitology* 94: 1243-1248.
60. Piper, S.D., C.P. Catterall, J.J. Kanowski and H.C. **Proctor**. 2009. Biodiversity recovery during rainforest reforestation as indicated by rapid assessment of epigeaic ants in tropical and subtropical Australia. *Austral Ecology* 34: 422-434.
61. Williams, B.W., S.R. Gelder and H. **Proctor**. 2009. Distribution and first reports of Branchiobdellida (Annelida: Clitellata) on crayfish in the Prairie Provinces of Canada. *Western North American Field Naturalist* 69: 119-124.
62. Boeckner, M.J., J. Sharma and H.C. **Proctor**. 2009. Revisiting the meiofauna paradox: dispersal and colonization of nematodes and other meiofaunal organisms in low- and high-energy environments. *Hydrobiologia*: 624: 91–106.
63. Proctor, H. 2009. Can freshwater mites act as forensic tools? *Experimental and Applied Acarology* 49: 161-165.
64. Mironov, S. and H. **Proctor**. 2009. Feather mites of the genus *Proterothrix* Gaud (Astigmata: Proctophyllodidae) from parrotbills (Passeriformes: Paradoxornithidae) in China. *Journal of Parasitology*: 95: 1093-1107.
65. Stephenson, S., S. Hannon and H. **Proctor**. 2009. The function of feathers in tree swallow nests: insulation or ectoparasite barrier? *The Condor* 111: 479-487.
66. Mironov, S. and H. **Proctor**. 2009. *Atelophyllodes* gen. n., a new feather mite genus of the family Proctophyllodidae (Astigmata: Analgoidea) from lyrebirds (Passeriformes: Menuridae). *Zootaxa* 2326: 51–61.
67. Knee, W. and H. **Proctor**. 2010. Interactive HTML-based dichotomous key to female Rhinonyssidae (Mesostigmata) from birds in Canada. *Canadian Journal of Arthropod Identification* 9 (doi: 10.3752/cjai.2010.09: available online at http://www.biology.ualberta.ca/bsc/ejournal/kp09/kp_09.html).
68. Walter, D.E. and H.C. **Proctor**. 2010. Mites as modern models: acarology in the 21st century. *Acarologia* 50: 131-141 (invited paper for *Acarologia*'s 50th anniversary).

69. Beaulieu, F., D.E. Walter, H.C. **Proctor** and R.L. Kitching. 2010. The canopy starts at 0.5 m: predatory mites (Acari: Mesostigmata) differ between rain forest floor soil and suspended soil at any height. *Biotropica* 42: 704-709.
70. Kontschán, J., H. **Proctor** and J. Newton. 2010. *Trachyuropoda kinsella* n. sp. (Acari: Uropodina: Trachyuropodidae) from Alberta, Canada, with a key to *Trachyuropoda* species from temperate North America. *International Journal of Acarology* 36: 211-220.
71. Carleton, R.E. and H.C. **Proctor**. 2010. Feather mites associated with Eastern Bluebirds (*Sialia sialis* L.) in Georgia, including the description of a new species of *Trouessartia* (Analgoidea: Trouessartiidae). *Southeastern Naturalist* 9: 605-623.
72. Haribal, M. , H. **Proctor**, A.A. Dhondt, and E. Rodriguez. 2011. Biology of House Finch feather mites, *Proctophyllodes pinnatus* (Acari: Proctophyllodidae), parallels variation in preen gland secretions. *International Journal of Acarology* 37: 75 – 90.
73. Mori, B.A., H.C. **Proctor**, D.E. Walter and M.L. Evenden. 2011. Phoretic mite associates of mountain pine beetle at the leading edge of an infestation in northwestern Alberta, Canada. *The Canadian Entomologist* 143: 44-55.
74. Mestre, A., F. Mesquita-Joanes, H. **Proctor** and J. S. Monrós. 2011. Different scales of spatial segregation of two species of feather mites on the wings of a passerine bird. *Journal of Parasitology* 97: 237-244.
75. Gale, K.S.P. and H.C. **Proctor**. 2011. Diets of two congeneric species of crayfish worm (Annelida: Clitellata; Branchiobdellidae) from western Canada. *Canadian Journal of Zoology* 89: 289-296.
76. Williams, B.W., H.C. **Proctor** and T. Clayton. 2011. Range extension of the Northern Crayfish, *Orconectes virilis* (Decapoda, Cambaridae), in the western prairie provinces of Canada. *Crustaceana* 84: 451-460.
77. Valim, M.P., F.A. Hernandez and H.C. **Proctor**. 2011. Feather mites of Brazil (Acari: Astigmata: Analgoidea and Pterolichoidea). *International Journal of Acarology* 37: 293-324.
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5. Proctor, H.C. 2005. Water quality & macroinvertebrate assemblages of water bodies on and near Grasslands National Park, Saskatchewan. Report prepared for Grasslands National Park, Saskatchewan. 13 May 2005. 66 pp.

ELECTRONIC PUBLICATIONS

Proctor, H.C. 1998. Acariformes, Trombidiformes, Parasitengona, Hydracarina. Tree of Life pages: <http://phylogeny.arizona.edu/tree/eukaryotes/animals/arthropoda/arachnida/acari/acariformes/acariformes.html>

Proctor, H.C., M.S. Harvey, and D.E. Walter. 1999. Freshwater mites of Australia. *In* Interactive Guide to Australian Aquatic Invertebrates. CSIRO Entomology, Canberra.

Walter, D.E. and H.C. **Proctor**. 2001. Mites in Soil: An Interactive Key to Mites and Other Soil Microarthropods. ABRS Identification Series. CSIRO Publishing, Collingwood, Victoria.

INVITED TALKS AT NATIONAL & INTERNATIONAL CONFERENCES (excludes invitations to speak at provincial conferences or university seminar series) - **very incomplete!**

- 2010 – Entomological Society of Canada, Vancouver, BC (symposium on arachnology)
- 2010 – International Congress of Acarology, Recife, Brazil (symposium on mites as bioindicators)
- 2007 – Entomological Society of America, San Diego, California (symposium on acarology)
- 2006 – International Congress of Acarology, Amsterdam, The Netherlands (2 symposia: mites as forensic tools, evolutionary ecology of mites)
- 1994 – International Congress of Acarology, Columbus, Ohio (symposium on sex determination)

MANUSCRIPTS, BOOKS, GRANTS & TENURE REVIEWED (past 5 years) - **very incomplete!**

July 2008 – June 2009 Annual Report count: not yet added

July 2007 – June 2008 Annual Report count: 23 mss: Acarina (3); Acta Parasitologica (1); Annales Zoologici (2); The Auk (1); Behavioral Ecology & Sociobiology (1); Bull. Inst. R. Sc. Nat. Belg. (1); Ecology (1); Entomologia Experimentalis et Applicata (1); Experimental & Applied Acarology (2); Invertebrate Biology (1); International Journal of Acarology (3); Journal

of Parasitology (1); New Zealand Journal of Zoology (1); Zootaxa (4, including one 180 p manuscript!).

July 2006 – 30 June 2007 Annual Report count: 18 mss: Acta Parasitologica (3); Bonner Zoologische Beiträge (1); Canadian Journal of Fisheries and Aquatic Sciences (1); Experimental & Applied Acarology (2); Ecography (1); Fossil Record (1); International Journal of Acarology (2); Invertebrate Biology (1); Invertebrate Systematics (1); Journal of Natural History (1); Journal of Parasitology (3); Systematic & Applied Acarology (1)

July 2005 – 18 May 2006 Annual Report count: 37 manuscripts - BioControl (1), Biological Letters – Poznan (2), Canadian Journal of Fisheries and Aquatic Sciences (1), Canadian Journal of Zoology (1), Ecology (1); Experimental & Applied Acarology (4), Hydrobiologia (1), Ibis (2), International Journal of Acarology (5), Invertebrate Biology (1), Journal of Experimental Biology (1), Journal of Paleolimnology (1), Miscellaneous Publications of the Museum of Zoology – University of Michigan (1), Records of the Western Australian Museum (1), Systematic and Applied Acarology (1), Tijdschrift voor Entomologie (1), Tuhinga: Records of the Museum of New Zealand Te Papa Tongarewa (1), Zoologischer Anzeiger (1), Zootaxa (10)

July 2004 – June 2005 Annual Report count: 21 manuscripts - Acta Parasitologica (1), Annual Review of Entomology (1), Archiv für Hydrobiologie (1), Belgian Journal of Entomology (1), Behavioral Ecology (1), Canadian Journal of Zoology (2), Invertebrate Systematics (1), International Journal of Acarology (7), Journal of Parasitology (1), Journal of Tropical Ecology (1), The Auk (1), The Canadian Entomologist (2), Zootaxa (1)

July 2003- June 2004 Annual Report count: 31 manuscripts – Acta Parasitologica (2), Animal Behaviour (1), Annual Review of Entomology (1), Austral Ecology (1), Australian Journal of Entomology (1), Behavioral Ecology & Sociobiology (1), The Canadian Entomologist (1), Canadian Field Naturalist (1), Canadian Journal of Forest Research (1), Experimental & Applied Acarology (8), International Journal of Acarology (5), Invertebrate Systematics (1), Journal of Natural History (1), Journal of Parasitology (1), Records of the Western Australian Museum (1), Proceedings of the International Congress of Acarology XI (4)

SUPERVISION ... incomplete for undergrads. See FEC reports

University of Alberta

Ph.D. Students

Dechen Edwards – no project decided upon yet. Sept 2021 - present

Monica Ayala Diaz (co-supervised with Clement Lagrue, Department of Conservation, New Zealand) – “Division of labour in trematode parasites and its effects on trematode ecology” [tentative title] Jan 2019 - present

Luiz Alexandre Simões de Castro (principal supervisor Antonio Carlos Lofego, São Paulo State University, Brazil) – “Systematics of South American Hydryphantoidea (Acariformes: Parasitengona)” [tentative title] March 2017 - present

Andrew Cook – “Ecology and diversity of feather mites of Peruvian birds along an altitudinal gradient” [tentative title] Sept 2016 - present

Alexandra Grossi – “Bird-associated permanent ectosymbionts examined at coarse and fine scales” Jan 2014 – Jan 2020

Zhouyan Song – “Disentangling a freshwater amphipod–acanthocephalan system from ecological and molecular perspectives” Sept 2013 – Jan 2019 (defence in Nov 2018)

Mariusz Wiecek (co-supervised with Jacek Dabert, Adam Mickiewicz University, Poland) – “Effects of the evolution of intromission on courtship complexity and male and female morphology: water mites of the genus *Arrenurus* (Acari: Hydrachnida) from Europe and North America” Jan 2011 – March 2016.

Jeffrey Newton – “Biodiversity of soil arthropods in a native grassland in Alberta, Canada: obscure associations and effects of simulated climate change” Sept 2007-July 2013

Bronwyn Williams (co-supervised by David Coltman) - “A molecular assessment of range expansion of the northern or virile crayfish (*Orconectes virilis*), crayfish-based community co-structure, and phylogeny of crayfish-affiliated symbionts” Sept 2006 – June 2012

Matthew Boeckner (co-supervised with Rich Palmer).- “Factors affecting meiofaunal colonization and assemblage structure in marine soft sediments” Sept 2003 – April 2009

M.Sc. Students

Hannah Stormer - “Distribution, diversity and routes of entry of non-native woodlice in Alberta” [tentative title] Sept 2021 - present

Christine Grams - “Effect of putative cleaning symbionts (Branchiobdellida) on fitness of their crayfish hosts” [tentative title] Jan 2021 - present

Veronika Franzova - “Are *Chaetogaster* worms mutualists, commensals or parasites of their freshwater snail hosts?” [tentative title] Sept 2020 - present

Matthew Meehan – “Soil Mesostigmata (Arachnida: Parasitiformes) in boreal forests of Alberta: diversity and utility as indicators of disturbance” Sept 2015 - Feb 2018 (defence in Dec 2017)

Christiane Uherek (jointly supervised with Bill Tonn) – “Assessing effects of habitat manipulation on invertebrates in an Arctic Barrenlands stream”. Sept 2013-Sept 2016.

Asha Wijerathna (jointly supervised with Maya Evenden) – “Factors influencing Mountain Pine Beetle (Coleoptera: Curculionidae: Scolytinae) dispersal by flight and subsequent trade-off between beetle flight and reproduction. Sept 2012-2016.

Qi Liu (jointly supervised with Rolf Vinebrooke) - “Diversity and distribution patterns of non-biting midges (Diptera: Chironomidae) in Alberta”. Sept 2012- 2016

Kaylee Byers - “Correlations in morphology between the sexes in feather mites (Acari: Astigmata): precopulatory guarding and reproductive morphologies” Sept 2010 – June 2013

Lindsey Wilson (jointly supervised with D. Schindler) - “Responses of aquatic invertebrate assemblages to an iron treatment aimed at reducing internal phosphorus loading” Sept 2009 – Jan 2013

Leontin Balanean (co-supervised with R. Vinebrooke) - “Effects of acanthocephalan parasites on colour and carotenoid quantities of their intermediate host *Gammarus lacustris* in the context of variable lake productivity” Jan 2008 – Oct 2010

Kylee Pawluk (switched to me from another supervisor) – “Coralline algae as habitat for marine invertebrates on rocky coasts near Bamfield, British Columbia” Aug 2005 - Dec 2007

Wayne Knee - “Rhinonyssidae (Acari: Mesostigmata) and other blood-and tissue-feeding mites associated with birds of Alberta and Manitoba.” Sept 2005 – Aug 2007

Marie-Claire Classen (principal supervisor B. Tonn) – “Monitoring potential prey of the whooping crane: evaluating gear types and spatial-temporal variation in aquatic fauna” Sept 2004 – Jan 2008

Danica Belter – “Effects of plant species and herbivory on rhizosphere assemblages” Sept 2003 – Jan 2006

Stephanie Neufeld (principal supervisor D. Schindler) - “Effects of catchment land use on nutrient export, stream water chemistry, and macroinvertebrate assemblages in boreal Alberta” 2002 – July 2005

Jenn Kelly (inherited from John Volpe, Nov 2004) – “Interactions between non-native oysters (*Crassostrea gigas* Thunberg) and native eelgrass (*Zostera marina* L.) and consequences for intertidal community structure in the Strait of Georgia, British Columbia, Canada” 2003 – July 2005

Biology 499 Students

2004-2005

Wayne Knee (co-supervisor B. Heming)

Geoff Williams (co-supervisor B. Samuel)

2003-2004

Sean Bromilow (co-supervisor D. Walter).

Andrea Dechene (principal supervisor J. Spence).

Randy Dzenkiw (co-supervisor J. Acorn).

Andrea Moore (co-supervisor D. Hik).

Michael Goad (principal supervisor C. Paszkowski).

Jennifer Kerr (principal supervisor R. Kaufman)

2002-2003

Birkigt, Terra (principal supervisor J.C. Cahill).

Dearborn, Gregg (principal supervisor R. Palmer).

Biology 498 Students

2005

Douglas Cheung

2003

Rutherford, Alexandra (co-supervisor J. Locke).

Biology 490 Students

2004

Andrea Dechene

2003

Gowman, Joel.

Lord, Bryn.

Griffith University, Australia

CRC Freshwater Ecology Summer Scholarship Students

Fowler, Rebecca. Mitochondrial DNA variation of freshwater mites (Superfamily Hygrobatoidae, Family Aturidae) in the Conondale Range, southeast Queensland. 2000-2001 (principal supervisor Jane Hughes).

Bartlett, Chris. Genetic structure of populations of the water mite *Aspidiobates geometricus* (Acari: Hygrobatidae) in the Conondale Range. 2000-2001 (principal supervisor Jane Hughes).

Special Topics

(a) Principal supervisor:

- Pincott, Matthew. Mycorrhizal colonisation of replanted rainforest 2002.
- Fawcett, James. Sex and size in the Queensland fruit fly, *Bactrocera tryoni* (Tephritidae) 2001.
- Montgomery, Kay. Turnover in species composition of oribatid mites along transects in leaf-litter and on bark of Hoop Pines. 2000.
- Rahner, Laing. Effects of flowering and shrub species on assemblages of foliar arthropods in Toohey Forest. 1999.
- Boulter, Sarah. Forest fragmentation, fire history and soil arthropod diversity in Toohey Forest. 1998.

(b) Associate supervisor:

- Finch, Neal. 1999. Role of red deer as cattle tick hosts in the Esk region (D. Jones principal supervisor)
- Warne, Rowena. 1999. Cues instigating magpie attacks (D. Jones principal supervisor)
- Cook, Andrew. 1999. Diversity and substrate preferences of chironomid midges in aquaculture ponds. (K. Warburton [UQ Dept Zoo & Ent] principal supervisor)
- Hurley, Karen. 1997. Dominance hierarchies in Australian Brush-Turkeys. (D. Jones principal supervisor)

Honours Students

(a) Principal supervisor:

- Rosen, Kate. 2000. Collembolan species turnover within Araucarian Vine Forest of South-East Queensland. (R. Kitching secondary supervisor)
- Witting, Natasha. 1999. Relationships between abiotic factors and stream macroinvertebrate assemblages in the Conondale region. (S. Bunn secondary supervisor)
- Ritchie, Annette. 1999. Correlations between plant diversity and oribatid mite assemblages in Toohey Forest (*withdrew* in July 99)

(b) Associate supervisor:

- Moloney, Shane. 2001- 2002. Effects of mosquitofish on growth and survival of small native fish (A.Arthington principal supervisor).
- Nakamura, Aki. 2000. Do soil invertebrates reflect the state of rainforest recovery?. (C. Catterall principal supervisor)
- Polson, Carolyn. 2000. Invertebrate diversity and water quality in Native Dog Creek, an urban Melaleuca wetland (M. Greenway principal supervisor)
- Schutze, Mark. 2000. Phylogeny of the antlered flies (Diptera: Tephritidae: *Phytalmia*) (U. Queensland, principal supervisor D. Yeates, Zoology & Entomology)
- Rahner, Laing. 2000. Effects of avian frugivory on survival of tephritid larvae. (T. Clarke primary supervisor; *withdrew* in June 2000)
- Choo, Juanita. 1998 Life-history correlates of loss of parasitism in water mites. (U. Queensland, principal supervisor D. Walter, Entomology).

Masters Students

- Gough, Chris. 2001 - 2002. Effects of fire-ant control on non-target terrestrial invertebrates (associate supervisors Cas Vanderwoude [DPI], Carla Catterall). [HP withdrew from supervision in 2002 due to move to University of Alberta]

Reis, Terry. 2000 - 2002. Forest fragmentation and avian assemblages (principal supervisor Carla Catterall). [HP withdrew from supervision in 2002 due to move to University of Alberta]

Ph.D. Students

Beaulieu, Frederic. 2001 continuing. Habitat specificity of rainforest mesostigmatid mites (principal supervisor David Walter)

Grimbacher, Peter. 2001 continuing. Rainforest rehabilitation and beetle diversity (principal supervisor Roger Kitching).

Ladhams, Elisha. 2001 - 2002. Effects of forestry practice on spider assemblages (principal supervisor Grant Wardell-Johnson, University of Queensland). [HP withdrew from supervision in 2002 due to move to University of Alberta]

Toon, Alicia. 2001-2002. Population genetics of Australian magpies and their feather lice (principal supervisor Jane Hughes). [HP withdrew from supervision in 2002 due to move to University of Alberta]

McKenny, Claire. 2000-2002. Effects of nutrient level on diversity of grazing invertebrates in streams (principal supervisor Stuart Bunn). [HP withdrew from supervision in 2002 due to move to University of Alberta]

Göth, Ann. 1999-2001. Survival, habitat selectivity and behavioural development of the Australian brush-turkey *Alectura lathami* chicks (principal supervisor Dr. Darryl Jones)

Best, Katina. Nov 99-March 00. Effects of grazing intensity on grassland structure and invertebrate diversity (jointly supervised with Sue McIntyre [CSIRO] and C. Catterall) (*withdrew* March 2000)

Queen's University, Canada

Masters Students:

Fee, Frances. M.Sc. 1996 - 1998. Thesis title: Variability and correlations among reproductive and nonreproductive traits in four spider species.

Griffin, Sean. M.Sc. 1996 - 1998. Thesis title: Floral symmetry and pollinator preference.

Garga, Neera. M.Sc. 1995 - 1997. Thesis title: Aposematism in water mites (Acari: Hydracarina): a predator defense mechanism, a phylogenetic hold-over and protection from damaging light.

Honours Students:

Guzowski, Michal. 1996-97. Thesis title: Effect of road disturbance on diversity of soil arthropods.

Wilkinson, Karen. 1995-96. Thesis title: Mating behaviour in *Arrenurus* water mites: a comparative study of intersexual conflict.

Garga, Neera. 1994-95. Thesis title: Morphometrics and function of the modified fourth legs in male *Tarsonemus confusus* (Acari: Tarsonemoidea).

ADMINISTRATIVE AND COMMITTEE WORK [needs updating for U of A]:

1999 assessor for PhD theses: UQ Zoology & Entomology (1), Deakin University (1)

assessor for Honours thesis: UQ Zoology & Entomology (1)

chair of examiners for PhD thesis: Griffith AES (1)

convenor of AES Ecology Seminar Series

1998 assessor for Honours theses: Griffith AES (3), UQ Entomology (2)
 1997 assessor for PhD candidature, Elizabeth Clough (Gold Coast campus)
 1994-1997 numerous PhD and MSc thesis defense committees, Queen's University
 1995 Member, Graduate Affairs Committee, Biology, Queen's University
 1995-1996 Chair, Departmental Seminar Committee, Biology, Queen's University
 1989-1990 Graduate representative on the Graduate Student Affairs Committee, Department of Zoology, University of Toronto

COMMUNITY INVOLVEMENT AND STUDENT ACTIVITIES:

2001 – guest speaker at Ashgrove Primary School ('Insects and other mini-beasts'). July 2001
 1999 – judge of best student talk at the Entomological Society of Australia AGM in Canberra (Sept)
 1999 – guest speaker at Coast Care workshop on water quality and aquatic organisms of *Melaleuca* wetlands (August)
 1998 - guest speaker at the Brisbane Forest Park 'Bush Volunteer Meeting' (October) re. mites in rainforests
 1998 - judge for best student paper submitted to the Australian Journal of Entomology in 1998 (judged 17 papers, Sept)
 1998 - invited speaker at the Royal Society of Queensland Symposium "Wild discoveries in the Great South East" (June) re. brush turkey mites
 1997 - Interviewed and filmed by Totally Wild (October) re. brush turkey mites
 1997 - invited to and attended inaugural Faculty Dinner by Bellenden Ker Residents' Student Association (October)
 1997 - interviewed by Griffith Gazette re. brush turkey mites (Sept. 25 edition)

PROFESSIONAL COURSES ATTENDED:

May 2003 (3 days) Multivariate statistics workshop. University of Alberta/Devonian Botanic Garden.
 Dec 2001 (3 days) Spider taxonomy workshop. Queensland Museum.
 June 2000 (5 days): Ohio State University Acarology Summer School - taxonomy and ecology of the Oribatida
 Feb 1999 (3 days): Murray Darling Freshwater Research Centre Taxonomic Workshop on taxonomy of mayflies, caddisflies, elmids, odonates, isopods and chydorids
 Feb 1997 (1 week): Australian National Insect Collection (CSIRO) short course on taxonomy of Collembola

SEMINARS and POSTERS PRESENTED (past 2 years)

2004 *Joint Annual Meeting of the Entomological Society of Alberta and the Entomological Society of Saskatchewan* (Lloydminster, Alberta, 28-30 Oct 2004). **Proctor, H.** "Birds: another biotic frontier."
 2004 *Joint Annual Meeting of the Entomological Society of Canada and the Acadian Entomological Society* (Charlottetown, PEI, 15-18 Oct 2004). Mironov, S., T. Galloway and H. **Proctor**. "Feather mites of birds in Canada: a wealth of undescribed diversity."
 2004 *Joint Annual Meeting of the Entomological Society of Canada and the Acadian Entomological Society* (Charlottetown, PEI, 15-18 Oct 2004). Walter, D.E., A. Dechene

and H. **Proctor**. “Pyrophiles and carabophiles: phoretic mite assemblages colonizing burnt areas on pyrophilous carabid beetles (*Sericoda* spp.) (Coleoptera: Carabidae).”

2003 *Joint Annual Meeting of the Entomological Society of Canada and the Entomological Society of British Columbia* (Kelowna, British Columbia, 1-5 Nov 2003). **Proctor**, H., J. Kanowski, C. Catterall, G. Wardell-Johnson, T. Reis & S. Piper. “Assessing success of rainforest restoration using arthropod assemblages”.

51st *Annual General Meeting of the Entomological Society of Alberta* (Athabasca, Alberta, Oct 2003). Grundke, S., S. Wojtkiw and H. **Proctor**. “A mitey good time with dead birds: a WISEST summer project” (poster).

51st *Annual General Meeting of the Entomological Society of Alberta* (Athabasca, Alberta, Oct 2003). Proctor, H.C. and D.L. Belter. “The spoken word: university classrooms”, part of the symposium “In the public’s eye – entomology for everyone”.

11th *International Congress of Acarology* (Merida, Mexico. Sept 2002). **Proctor**, H.C and D.N. Jones. “Feather mites as indicators of population and social structure in the Australian brush-turkey (Aves: Megapodiidae).”

11th *International Congress of Acarology* (Merida, Mexico. Sept 2002). Proctor, H.C. “Aquatic mites in assessments of stream invertebrate diversity.”

5th *Invertebrate Biodiversity & Conservation Conference* (Adelaide, Dec 2001) **Proctor**, H.C., J. Kanowski, G. Wardell-Johnson, T. Reis and C. Catterall. “Does diversity beget diversity? A comparison between plant and litter-invertebrate diversity from pasture to rainforest.”

Third Australian Stream Management Conference. (Brisbane, August 2001) Greenway, M., C. Polson and H.C. **Proctor**. 2001. A comparison of aquatic biota and water quality in two tributaries of Native Dog Creek with different land-use activities

MEMBERSHIP OF PROFESSIONAL BODIES:

North American Benthological Society

Entomological Society of Alberta (vice-president, 2003-2004)

Entomological Society of Canada

Society for the Study of Evolution

CURRENT RESEARCH BEING UNDERTAKEN:

(1) mesostigmatan phylogeny and evolution of asexuality (with D. Walter, Australia); (2) rainforest rehabilitation and soil invertebrate assemblages (with Rainforest CRC Project 5.2, Australia); (3) feather mite ecology and systematics (various collaborators)