

BRIEF CURRICULUM VITAE

Name:

Dr Peter B. McQuillan

Qualifications:

B. Agric. Sc. (Adelaide)

PhD (Tasmania)

Recent Employment:

Lecturer at Centre for Environmental Studies, University of Tasmania. 1992-present

Senior Entomologist, Department of Primary Industry, Hobart 1988-91

Entomologist, Department of Primary Industry, Hobart 1978-87

Research Interests:

? Interactions between plants and invertebrates (herbivory, pollination ecology, pest ecology)

? Utility of invertebrates as indicators of environmental change in aquatic and terrestrial environments.

? Biogeography and systematics of Lepidoptera (Geometridae) and Coleoptera.

? Conservation management of invertebrate fauna.

Teaching Interests:

? Terrestrial ecology with emphasis on insects

? Insect-plant interactions

? Experimental design for detecting environmental impacts

Participation in Professional Activities:

• National Treasurer, Ecological Society of Australia 1996-97

• Member of the Editorial Board, Australian Journal of Entomology 1997-2000

• National Biodiversity Council (NBC) state representative 1997-2000

• Member of the Tasmanian State Evaluation Panel (Natural Environment) of the Australian Heritage Commission 1995-2001

• Member of the Threatened Species Scientific Advisory Committee since 1997, appointed by Cabinet under the Threatened Species Protection Act 1995

• Member of the Community Review Committee since 1997, appointed by Cabinet under the Threatened Species Protection Act 1995

Research 1995-2002

My research program has involved supervising numerous postgraduate students in projects related to the taxonomy, ecology and conservation of Tasmanian invertebrates.

Publications of P.B. McQuillan 1992-2002

NIELSEN, E.S., McQUILLAN, P.B. and COMMON, I.F.B. (1992). The Tasmania cushion plant moth, *Nemotyla oribates* gen. and sp. nov. (Lepidoptera: Oecophoridae). *Journal of the Australian Entomological Society* **31**: 47-56.

McQUILLAN, P.B. (1992). A checklist of the Tasmanian tortricid moths (Lepidoptera: Tortricidae) and their hostplant relationships. *Papers and Proceedings of the Royal Society of Tasmania* **126**: 77-89.

McQUILLAN, P.B. (1993). *Nothofagus* (Fagaceae) and its invertebrate fauna - an overview and preliminary synthesis. *Biological Journal of the Linnaean Society* **49**: 317-354 .

McQUILLAN, P.B. & WEBB, W.R. (1994). Selective soil organic matter consumption by larvae of the red-headed cockchafer, *Adoryphorus couloni* (Burmeister) (Coleoptera: Scarabaeidae). *Journal of the Australian Entomological Society* **33**: 49-50.

TAYLOR, R.J. & McQUILLAN, P.B. (1994). Fauna of Mount Wellington. *Tasmanian Naturalist* **116**: 2-19.

MICHAELS, K. & McQUILLAN, P.B. (1995). Impact of commercial forest management on geophilous carabid beetles (Coleoptera: Carabidae) in tall, wet *Eucalyptus obliqua* forest in southern Tasmania. *Australian Journal of Ecology* **20**: 316-323.

McQUILLAN, P.B. (1996). A revision of the Tasmanian geometrid moths associated with the genus *Amelora* auctorum (Lepidoptera: Geometridae: Ennominae). *Invertebrate Taxonomy* **10**: 1-73.

McQUILLAN, P.B. & EK, J. (1997). A biogeographical analysis of the Tasmanian endemic Ptunarra Brown Butterfly, *Oreixenica ptunarra* Couchman, 1953 (Lepidoptera: Nymphalidae: Satyrinae). *Australian Journal of Zoology* **44**: 21-37.

McQUILLAN, P.B. & MICHAELS, K. (1997). First record of *Pseudoheteronyx* Blackburn (Coleoptera: Scarabaeidae: Melolonthinae) from Tasmania, with description of *Pseudoheteronyx littoralis* sp. n. from sandy beaches. *Australian Journal of Entomology* **36**: 117-120.

CANNING, K.M., JABLONSKI, W. & McQUILLAN, P.B. (1998). Quantification of surface defects in chemically protective gloves following their use in agriculture. *Annals of Agricultural and Environmental Medicine* **5**: 1-12.

CANNING, K.M., McQUILLAN, P.B. & JABLONSKI, W. (1998). Laboratory simulation of splashes and spills of organophosphate insecticides on chemically protective gloves used in agriculture. *Annals of Agricultural and Environmental Medicine* **5**: 155-167.

CANDY, S. & McQUILLAN, P.B. (1998). A weight-based phenology model for immature stages of the Red-Headed Cockchafer, *Adoryphorus couloni* (Burmeister) (Coleoptera: Scarabaeidae: Dynastinae), a pest of pastures in south-eastern Australia. *Australian Journal of Entomology* **37**: 137-148.

HINGSTON, A.B. & McQUILLAN, P.B. (1998). Nectar robbing in *Epacris impressa* (Epacridaceae) by the recently introduced bumblebee *Bombus terrestris* (Apidae) in Tasmania. *The Victorian Naturalist* **115**: 116-119.

McQUILLAN, P.B. (1998). *Athrotaxivora tasmanica* gen. & sp. nov. (Lepidoptera: Gelechioidea), an unusual moth associated with King William Pine (*Athrotaxis selaginoides* D. Don: Taxodiaceae) in Tasmanian montane forests. *Australian Journal of Entomology* **37**:

MCQUILLAN, P.B., TAYLOR, R.J., BERETON, R.N. & CALE, P.G. (1998). Seasonal patterns of activity in geometrid moths (Lepidoptera: Geometridae) from a lowland and a highland eucalypt forest in Tasmania. *Australian Journal of Entomology* **37**: 228-237.

HINGSTON, A.B. & McQUILLAN, P.B. (1999). Displacement of Tasmanian native megachilid bees by the recently introduced bumblebee *Bombus terrestris* (Linnaeus) (Hymenoptera: Apidae). *Australian Journal of Zoology* **47**: 59-65.

HINGSTON, A.B. & McQUILLAN, P.B. (1999). Does the recently introduced bumblebee *Bombus terrestris* (Apidae) threaten Australian ecosystems? *Australian Journal of Ecology* **23**: 539-549.

CHANTARAMONGKOL, P., MCQUILLAN, P.B. & PROMKATKAEW, S. (1999). Analysis of Trichoptera adult seasonality from Huay Koo Kaow Stream, Chiang Mai Zoo, Doi Suthep, Thailand. *Proceedings of the Ninth International Conference on the Trichoptera*: 469-474.

McQUILLAN, P.B. (1999). The effect of changes in Tasmanian grasslands on the geometrid moth tribe Xanthorhoini (Geometridae: Larentiinae). pp.1-8, in W. Ponder & D. Lunney (eds) *The Other 99% The Conservation and Biodiversity of Invertebrates*. Transactions of the Royal Zoological Society of New South Wales, Mosman.

HIGHAM, R.K. & McQUILLAN, P.B. (2000). *Cyathodes divaricata* (Epacridaceae) - the first record of a bird-pollinated dioecious plant in the Australian flora. *Australian Journal of Botany* **48**: 93-99.

Hingston, A.B. & McQuillan, P.B. (2000). Are pollination syndromes useful predictors of floral visitors in Tasmania? *Austral Ecology* **25**: 600-609.

McQUILLAN, P.B., YOUNG, C.J. & Richardson, A.M.M. (2001). A revision of the Australian moth genus *Paralaea* Guest (Lepidoptera: Geometridae: Ennominae). *Invertebrate Taxonomy* **15**: 277-317.

STEINBAUER, M.J., McQUILLAN, P.B. & YOUNG, C.J. (2001). Life history and behavioural traits of *Mnesampela privata* that exacerbate population responses to eucalypt plantations: comparisons with Australian and outbreak species of forest geometrid from the northern hemisphere. *Austral Ecology* **26**: 525-534.

YOUNG, C.J. & McQUILLAN, P.B. (2001). Redescription of the Australian moth species *Palleopa innotata* Walker, 1866 (Lepidoptera: Geometridae: Ennominae). *Insect Systematics & Evolution* **32**: 263-278.

HINGSTON, A., McQUILLAN, P.B. et al. (2002). Extent of invasion of Tasmanian native vegetation by the exotic bumblebee *Bombus terrestris* (Apoidea : Apidae). *Austral Ecology* **27**: 162-172.

Book Chapters

McQUILLAN, P.B. (1993). Cultural control of weed, invertebrate and disease pests of Australian sheep pastures. Pp. 183-192 in E.S. Delfosse (ed) *Pests of Pastures: weed, invertebrate and disease pests of Australian sheep pastures*. CSIRO, Melbourne.

McQUILLAN, P.B. & EDWARDS, E.D. (1996). Geometridae, pp. 200-28, 355-357, in Nielsen, E.S., Edwards, E.D. & Rangsi, V. (eds). *Checklist of the Lepidoptera of Australia*. CSIRO, Melbourne. 529 pp.

Web page on Australian Geometrid moths

<http://www.geol.utas.edu.au/geom> [ABRS support]

Scientific Reports

EDWARDS, E.D. & McQUILLAN, P.B. (1998). Lepidoptera, pp. 67-78 in Driessen, M.M., Comfort, M.D., Jackson, J., Balmer, J., Richardson, A.M.M. & McQuillan, P.B. (eds). *Wilderness Ecosystem Baseline Studies (WEBS): Pelion Plains - Mt. Ossa*. Tasmanian Parks & Wildlife Service Wildlife Report 98/2.

Book

McQuillan, P.B. (1994). *Butterflies of Tasmania*. Tasmanian Field Naturalists Club Inc., Hobart. 104 pp. ISBN 0 646 15897 X.

Conference Proceedings

McQUILLAN, P.B. (1992). The role of invertebrates in the conservation of native forests. Towards a Global Temperate Forest Action Plan. Proceedings of the Native Forest Network First International Temperate Forest Conference, Deloraine, Tasmania.

Papers in review:

McQuillan, P.B., Michaels, K. & Blake, G. (in press). The biogeography of beetles (Coleoptera) associated with sandy beaches and coastal sand dunes in Tasmania, Australia. *Journal of Arid Environments*